



FLORIDA ATLANTIC UNIVERSITY

Board of Trustees

Item: AS: A-1

COMMITTEE ON ACADEMIC AND STUDENT AFFAIRS

Tuesday, June 16, 2026

**SUBJECT: REQUEST FOR APPROVAL OF A NEW DEGREE PROGRAM - CIP
51.0722**

PROPOSED Committee ACTION

Request for approval of the following New Degree Program – CIP 51.0722:

- Ph.D. in Health Sciences Innovation and Technology

BACKGROUND INFORMATION

The Health Science Innovation and Technology PhD program will provide an interdisciplinary training program for students in state-of-the-art concepts, methodology and research in health science. This PhD program is designed to provide employment skills in health science and technology fields. The program will build off the College of Medicine (COM) Master of Science in Biomedical Science and the Certificate in Genomics and Precision Medicine. Students in their first year will pursue COM core courses including Human Genetics, Integrating Genomics into Predictive Health, Advanced Cell and Molecular Biology and Multi-omics in health and disease. Students will perform research in COM NIH funded labs performing cutting-edge research in state-of-the art areas of health science innovation and technology. The Health Science Innovation and Technology PhD program will offer a unique curriculum for scientists who want to impact patient care by developing innovations to prevent, diagnose, and treat disease. Unique to this program will be the opportunity for students to participate in NIH funded labs in health science technology and applications. The program will increase SUS STEM and health specific advanced degrees.

IMPLEMENTATION PLAN/DATE

The new academic program degree, PhD in Health Sciences Innovation and Technology, will be effective for Fall 2026.

FISCAL IMPLICATIONS

The Ph.D. in Health Science, Innovation, and Technology will leverage existing administrative, instructional, and research support existing in the College of Medicine. Programmatic expenses will be supported through reallocated Education & General (E&G) funds. No new faculty or staff positions are required to support the program.

Supporting Documentation:
Presented by:
Phone:

New Academic Degree Proposal Form
Dr. Ken Dawson-Scully, Provost and Executive Vice President
561-297-3062



Request to Offer a New Degree Program

In accordance with Board of Governors Regulation 8.011,
Academic Degree Program Coordination and Approval

Florida Atlantic University
Institution Submitting Proposal

College of Medicine
Name of College(s) or School(s)

Health Science and Technology
Academic Specialty or Field

51.0722
Proposed CIP Code

Fall 2026
Proposed Implementation Term

College of Medicine
Name of Department(s)/Division(s)

PhD in Health Science Innovation and Technology
Complete Name of Degree

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met before the program's initiation.

**Date Approved by the University
Board of Trustees**

President's Signature **Date**

**Board of Trustees Chair's
Signature** **Date**

Provost's Signature **Date**

I. Overview

A. Briefly describe the proposed program in the following table.

Purpose	The Health Science Innovation and Technology PhD program will provide an interdisciplinary training program for students in state-of-the-art concepts, methodology and research in health science. This PhD program is designed to provide employment skills in health science and technology fields. The program will build off the College of Medicine (COM) Master of Science in Biomedical Science and the Certificate in Genomics and Precision Medicine. Students in their first year will pursue COM core courses including Human Genetics, Integrating Genomics into Predictive Health, Advanced Cell and Molecular Biology and Multi-omics in health and disease. Students will perform research in COM NIH-funded labs performing cutting-edge research in state-of-the-art areas of health science innovation and technology. The Health Science Innovation and Technology PhD program will offer a unique curriculum for scientists who want to impact patient care by developing innovations to prevent, diagnose, and treat disease. Unique to this program will be the opportunity for students to participate in NIH funded labs in health science technology and applications. The program will increase SUS STEM and health-specific advanced degrees. The total number of credit hours required is a minimum of 72.
Degree Level(s):	The College of Medicine will offer the Health Science Innovation and Technology PhD degree.
Majors, Concentrations, Tracks, or Specializations	The PhD program will not include formal concentrations or tracks; all students will earn a Ph.D. in Health Science Innovation and Technology.
Total Number of Credit Hours	The total number of credit hours required is a minimum of 72.
Funding Type	☒ E&G Program ☐ Market Tuition Rate Program* ☐ Self-Supporting Program* ☐ Other *Refer to Board Regulation 8.002, Self-Supporting and Market Tuition Rate Program and Course Offerings, for additional details.
Possible Career Outcomes	

B. Does the proposed program qualify as a Program of Strategic Emphasis, as described in the Florida Board of Governors 2030 System Strategic Plan?

[Programs of Strategic Emphasis List](#)

- ☐ Yes, it does qualify as a Program of Strategic Emphasis.
- ☒ No, it does not qualify as a Program of Strategic Emphasis.

C. Does the program fall under one of the CIP codes listed below that qualifies for the Programs of Strategic Emphasis Waiver? *(for baccalaureate programs only)*

CIP CODE	CIP TITLE
11.0101	Computer and Information Sciences
11.0103	Information Technology
13.1001	Special Education and Teaching
13.1202	Elementary Education and Teaching
14.0801	Civil Engineering
14.0901	Computer Engineering
14.1001	Electrical and Electronics Engineering
14.1901	Mechanical Engineering
27.0101	Mathematics
52.0301	Accounting
52.0801	Finance
52.1201	Management Information Systems

☐ Yes. If yes, students in the program will be eligible for the Programs of Strategic Emphasis waiver. Refer to [Board Regulation 7.008](#).

☒ No

II. Institutional and State-Level Accountability

A. Describe how the proposed program directly or indirectly supports the following.

1. The priorities of the State University System's Strategic Plan, “[SUS 30 Extraordinary Impact](#).”
2. The institution's strategic plan and goals that the program will directly advance.
3. The university's mission.

The benefit to the university, the local community, and the state.

Support for System Strategic Planning Goals

FAU's proposed PhD in Health Science Innovation and Technology supports the SUS 30 Strategic Plan for the state universities by:

- **Elevating student success** - Increasing the number of graduate degrees aligned with Florida's workforce needs and providing students with a positive return on their investment.
- **Innovative Research & Economic Development** - Increasing the amount of research activity and attracting more external funding which will increase FAU's national ranking for research expenditures.
- **World- Class Talent** – This PhD program curriculum will be innovative and adaptive to align with employer needs.

This proposed program is consistent with the Florida Board of Governor's Strategic Plan SUS 30 specifically:

Elevating Student Success: By providing a new PhD academic program in Health Science Innovation and Technology, FAU will strengthen the quality and rigor of medical and technology programs offered by FAU, to increase student scholarship, research opportunities, funding opportunities, healthcare technology innovation, and health community and business engagement. These goals are commensurate with the continued growth and advancement of the College of Medicine and are aligned with FAU's mission as a first-class R1 status institution. Specifically, this new program advances the following areas:

- **Strengthens academic programs:** Adds a high-demand interdisciplinary health- and medicine-related doctoral degree filling a critical gap in student program offerings at the College of Medicine and in the community at large.
- **Strengthens scholarship:** Increases faculty-student research opportunities stimulating student publications, faculty research grants, and innovative outputs.
- **Strengthens research infrastructure:** Creates avenues for clinically applied new research opportunities, translational innovative research programs, collaborations between the College of Medicine, other FAU Colleges and institutes and the community at large.
- **Strengthens innovation:** Anchors FAU as a leader in healthcare innovation and emerging technologies providing a basis for attracting patents and private sector engagement.
- **Strengthens community and business engagement:** Formalizes partnerships with hospitals, biotech companies, digital health firms, and community health organizations.
- **Strengthens FAU's reputation:** Positions FAU as one of the few institutions offering a

Ph.D. program at the intersection of health innovation and technology specifically in the emerging areas of human genetic technology, applications and precision medicine.

This unique Ph.D. will increase the number of Florida's new academic programs with state, national, and international recognition. It aligns with Florida's workforce needs and provides students with a positive return on their investment. The goal of this new PhD program is to produce highly skilled graduates that are prepared to succeed in high-quality careers within the field of modern healthcare.

Operational Excellence: The proposed Ph.D. in Health Science Innovation and Technology will leverage the existing infrastructure of the College of Medicine (COM), including faculty, courses, and administrative support from the established Master of Science in Biomedical Science and the Genomics and Predictive Health Certificate programs. By building upon these robust academic foundations, the new Ph.D. program presents minimal financial risk and ensures operational efficiency from the outset.

World-Class Talent: The PhD in Health Science Innovation and Technology is a unique program designed to meet the constant growth of the healthcare industry. This program will fill an unmet need for students to obtain the knowledge, skills and experience required for successful careers in healthcare technology development and application from genomics through genetic engineering AI applications, precision medicine and beyond. The program will not only advance College of Medicine and FAU students but will provide students and faculty a critical link between multiple employment sectors including industry, academics, and government. Based on our marketing survey (Hanover Research), national demand for this type of human health-related doctoral degrees is high, and this program will attract highly qualified students at the state and national levels.

This program fills a critical gap in health and medical technology training programs at FAU and beyond by preparing graduates with the specialized skills they need to obtain employment in technology-enabled care models, digital health innovation, data-driven decision-making, AI-supported clinical solutions, healthcare product development, and translational research. Graduates will be uniquely qualified for roles in:

- **Industry** – including biomedical device innovation, digital health product design, clinical R&D, health analytics, regulatory innovation, and technology commercialization.
- **Academic and Research Institutions** – including faculty and research scientist positions focused on health innovation, implementation science, digital health evaluation, and interdisciplinary translational research.
- **Government and Public Health Agencies** – including roles in technology policy development, public-sector innovation, health system modernization, and evidence-based evaluation of emerging technologies.

By equipping graduates with this combination of scientific, technological, and innovation-oriented expertise, the program directly meets workforce demands and positions students for high-impact careers across multiple sectors that increasingly rely on talent trained at the intersection of health science and technology.

The results from Hanover Research marketing survey anticipate the demand for this distinctive PhD program to come locally and nationally. By providing this new PhD degree in the health field, the University will directly enhance the quality and reputation of its academic programs and its

research and scholarship activities and fill a critical gap in education and training available to students. Through access to state-of-the-art resources, faculty and research facilities, students will gain mastery of cutting-edge techniques in emerging healthcare and technology applications including genetics, genomics, bioinformatics, single-cell technologies, machine-learning-driven predictive health modeling, digital health tool development, biomedical sensor integration, translational wet-lab research methods, stem and tissue engineering technology, medical diagnostics and imaging, and development and testing of health-focused technologies. These experiences will prepare students to excel in highly innovative, hands-on laboratory and technology-driven research environments in academics, government and the private sector.

Demand is already evident among FAU graduate students enrolled in the Genomics and Predictive Health Certificate program and among students enrolled in the COM Master of Science Biomedical Science Program who in multiple surveys expressed a desire for doctoral opportunities offered specifically by the College of Medicine. These students seek human-focused research experiences directly applicable to emerging health science technologies and real-world clinical applications, and many prefer to continue their education at the COM in a specialized health science doctoral program.

Although national and regional labor market data indicate sustained demand for doctoral-level professionals in health science and technology fields, this program is intentionally designed as a boutique, high-caliber training model that prioritizes depth of training, intensive (quality) mentorship, and advanced research immersion rather than high enrollment numbers. The College of Medicine will admit a maximum of five students in the first year and a total of ten students by Year 5, ensuring individualized faculty mentorship, direct and abundant access to research infrastructure, and a personalized professional training experience. The high-caliber training model is built to provide students with specialized, research-intensive preparation that includes customized dissertation pathways, dedicated faculty advising teams, hands-on experience with advanced health technologies, and participation in interdisciplinary research collaborations. This approach is designed for developing scholar-innovators who are capable of leading high-impact research, contributing to technological breakthroughs, and shaping the future of human health science.

By focusing on quality over quantity, the program will ensure that each graduate emerges with the depth of expertise required to excel in competitive academic, industry, and government health and medical technology employment opportunities.

Innovative Research & Economic Development - Florida Atlantic University has achieved the pinnacle of research excellence. In 2025, the Carnegie Classification of Institutions of Higher Education designated Florida Atlantic as R1: Very High Research Spending and Doctorate Production – the most prestigious research accolade in the country. The R1 designation indicates a truly comprehensive university that spurs economic development, attracts high-quality students and faculty, and increases external funding. R1 universities meet benchmarks in research, educational activity, and vital research staffing, as measured by the Carnegie Classification of Institutions of Higher Education. This commitment to excellence in “very high research activity” not only reflects the accomplishments of current students involved in research but also shows that the successful academic programs will provide students with the skills and experience needed to become well-rounded researchers. The PhD in Health Science Innovation and Technology will improve the quality and relevance of FAU’s R1 status with state-of-the-art research that will develop a culture of student success and excellence in research and inquiry. It will increase externally funded research, leading to broad external recognition of our academic and research

programs.

By providing this new academic program, FAU will be expanding degree access and productivity in a relevant STEM field, directly increasing the number of graduate degrees in areas of workforce needs. The PhD in Health Science Innovation and Technology (CIP 51.0722), creates a breadth of coursework and research opportunities that extend beyond any of the current health-related programs at FAU. Unlike existing programs that focus primarily on basic science, this doctoral program integrates emerging health innovation technologies with state-of-the-art mentoring for students to achieve the conceptual and technical skills they need to enter the health technology and medical application workforce.

This program provides students competency in areas not currently emphasized in other FAU programs—such as human-centered health technology applications, data-driven health solutions, implementation science, AI-supported healthcare methods, regulatory science for emerging technologies, and technology commercialization pathways. These elements create a unique, innovation-focused training environment with a medical application emphasis currently not offered at FAU. According to our marketing survey the focus of this program on genetics and precision medicine makes it unique not only at FAU but statewide with only a handful of related programs available nationally.

Establishing a new FAU degree program in health science and technology will directly increase the number of doctoral graduates with high quality training in the health field. As determined by our recent marketing survey, the demand for highly trained health science researchers and innovators continues to rapidly increase in parallel with technological advancements. Data from the U.S. Bureau of Labor Statistics projected a 9% increase in job opportunities from 2024-2034 for medical scientists. Entry-level educational requirements for these positions are a doctoral degree in Health Sciences. High paying jobs are in the rapidly growing fields of genetic and genomic technologies, stem cell therapy and bioengineering, drug development, vaccine development, medical device development and more. NIH institutes targeting areas of health science research and innovation for funding include the National Human Genome Research Institute (NHGRI) as well as NIA, NCI, NHLBI, NIAID, NIA, NINDS, NEI, and NCBI. This program will have a major impact on the ability to maintain and attract research funding by the COM and FAU. Major research funding for this program is projected to come not only from government sources but also from health science-related foundations and from industry partnerships. The NIH currently provides \$1,097,560,262 in research funding to the State of Florida alone. Much of this money is earmarked for specific human health science related projects that will be supported by this program including increased funding for human health sciences research and technology development. As a testament to the future success of this program, the COM currently has over \$31,000,000.00 in NIH research funding, and this program will build on this success by providing additional avenues for NIH funding. The College of Medicine also received over \$15,000,000 in donor and foundation funding also expected to increase with the initiation of this program.

FAU Institutional Goals and Priorities

Goal 1 Increase Degree Productivity and Program Efficiency:

By providing a new academic program in the area of health science and technology, FAU will increase access to and production of advanced degrees in the State of Florida.

Goal 2 Increase Community and Business Workforce:

By providing a new academic program in the area of health science and technology, FAU will be

helping to meet critical needs in STEM fields focusing on healthcare, innovation, and technologies. Innovation within the healthcare industry is increasingly essential as health systems adopt new digital tools, data-driven models, and technology-enabled care delivery. The types of innovation emphasized in this Ph.D. program include large scale genomic and genetic data analysis and applications, digital health innovation, human diagnostic technologies and imaging, AI- and data-science-enabled health solutions, biomedical device and sensor innovation, predictive health analytics, and technology-supported care models.

Preparing students to understand, design, evaluate, and translate these innovations into real-world practice will contribute directly to the healthcare workforce and support economic development in FAU's regional and global communities. Graduates will be equipped to lead improvements in healthcare delivery, optimize health system performance, create new health technologies, and drive organizational transformation across clinical, industry, and public-sector settings.

Goal 3: Building world-class academic programs and research capacity.

By providing a new academic program in the area of health science and technology, FAU will be helping to increase externally funded research while increasing external recognition of our academic and research programs. Notably, faculty and students affiliated with the College of Medicine have received over \$31,000,000.00 in research funding.

Goal 4: Meeting community needs and fulfilling unique institutional responsibilities.

By providing a new academic program in the area of health science and technology, FAU will support its institutional mission statement of promoting academic and personal development, discovery, and lifelong learning through excellence and innovation in teaching, outstanding research and creative activities, public engagement and distinctive scientific and cultural alliances, all within an environment that fosters inclusiveness.

Support for University's Mission

The program aligns with Florida Atlantic University's mission as "a multi-campus public research university that pursues excellence in its missions of research, scholarship, creative activity, teaching, and active engagement with its communities." In addition, this PhD program will help meet the FAU Schmidt College of Medicine mission by transforming healthcare in South Florida and beyond through driving scientific breakthroughs in discovery, basic, and translational research and attracting and retaining the best healthcare workforce.

Integrating health science, innovation and technology will underpin contributions to global health and well-being, and the PhD in Health Science Innovation and Technology degree program will support excellence in teaching and active engagement with our communities throughout the region of South Florida and our state.

The proposed Ph.D. in Health Science Innovation and Technology is deeply rooted in Florida Atlantic University's (FAU) longstanding strengths in biomedical research, interdisciplinary graduate education, and translational science. This program builds upon more than 15 years of institutional investment in health science innovation, leverages established academic programs, aligns with statewide strategic emphasis areas, capitalizes on FAU's premier institutes and centers, and extends the College of Medicine's proven record of federally funded research.

Benefits to the University

The PhD in Health Science Innovation and Technology program will provide Florida Atlantic

University (FAU) with several qualitative and quantitative benefits. Qualitatively, the program elevates FAU's profile as a leader in applied healthcare research, distinct from traditional biomedical research programs. This specialized offering strengthens FAU's R1 research status by demonstrating innovative, interdisciplinary doctoral production that aligns with strategic institutional goals. This creates new opportunities for faculty and enhances FAU's reputation for producing highly skilled, industry-relevant talent. Quantitatively, the program will contribute directly to FAU's research expenditures through external grants secured by faculty and students focusing on health technology, data analytics, and systemic innovation. The program will also generate modest but consistent enrollment revenue and diversify the university's doctoral portfolio with a high-demand, niche specialization.

Benefits to the local community

The program will deliver both qualitative and quantitative benefits to the South Florida community by creating a direct pipeline of expertise aimed at solving local healthcare challenges. Qualitatively, graduates will be equipped to develop and implement innovative, data-driven solutions for local healthcare systems, improving efficiency, access, and quality of care. This can lead to better patient outcomes and more effective delivery of services within local hospitals and health networks. Collaborative research projects will also address specific community health needs, such as technology-assisted care for underserved populations, as demonstrated by FAU's past grant-funded projects. Quantitatively, the presence of the program will foster economic growth by attracting and retaining high-skilled jobs in the region's rapidly expanding health technology and life sciences sectors. Research collaborations with local partners like Baptist Health and other current hospital partners will result in tangible innovations and create new economic opportunities. Graduates entering high-level leadership and administrative roles within South Florida's healthcare ecosystem will also boost the regional economy through increased income and productivity.

Benefits to the State

The program's benefits for Florida are multifaceted, with both systemic and economic impacts. Qualitatively, it positions Florida as a leader in healthcare innovation and technology, moving beyond traditional medical industries to focus on the next generation of systems-level solutions. The program's graduates will apply their skills to improve statewide health policy, optimize large-scale healthcare delivery systems, and address complex public health challenges, including chronic disease management and health equity. This specialized training will help Florida's healthcare system adapt to evolving needs, such as those related to a growing and aging population. Quantitatively, the program will contribute to the state's economic vitality by fueling growth in the health tech and life sciences industries, which are already expanding faster than national averages. Graduates will develop new medical technologies and implement innovative business models that increase efficiency and potentially lower costs across the state's healthcare system. FAU's role in advancing research and education in this high-growth sector aligns directly with the state's economic development goals, ensuring Florida's competitiveness in the national healthcare landscape.

Existing Related Academic Programs

FAU has maintained a prominent institutional presence in Health Science Innovation and Technology since the establishment of the Charles E. Schmidt College of Medicine (COM) in 2010. The COM Master of Science in Biomedical Science program, initiated in 2004, serves as a cornerstone of graduate biomedical training. This program enrolls 40–75 students annually and extends its educational reach to students in engineering, biology, psychology, chemistry, business, and neuroscience. The proposed Ph.D. will continue this progress by expanding doctoral-level

training in biological sciences including precision medicine, translational research, and health technology innovation.

Programs of Strategic Emphasis

The proposed Ph.D. program directly aligns with the Florida Board of Governors' areas of strategic emphasis in Health Professions and STEM. Graduates will contribute to Florida's growing need for a highly skilled workforce in biotechnology, pharmaceuticals, health technology, and clinical research. This program supports FAU's mission to advance economic growth and competitiveness in the life sciences employment arena while advancing the university's leadership in health science innovation.

Institutes and Centers

The program will benefit from FAU's strong network of institutes and centers. In addition, proximity to premier research entities such as Max Planck Florida Institute for Neuroscience and Scripps Florida provides doctoral students with visibility into a wide spectrum of health science research and innovation. These institutes and centers enrich the academic environment by broadening exposure to diverse areas of health sciences, genomics, biotechnology, and regenerative medicine, positions FAU as a university with extensive scientific depth and advanced research infrastructure.

Other Institutional Strengths

FAU's College of Medicine has cultivated a robust research enterprise, currently supported by more than \$31 million in NIH funding. This includes 71 active awards totaling \$31.5 million, reflecting a 31% increase in research expenditures over the past five years.

The below examples highlight FAU's ability to attract major federal funding and create productive ground for expanding health science innovation:

Marc Kantorow, Ph.D., Associate Dean for Graduate Programs, is a leading expert in ocular development and mitochondrial regulation whose laboratory investigates the molecular and genetic mechanisms governing lens and retinal cell differentiation, homeostasis, and disease. His team has pioneered discoveries in how hypoxia-driven epigenetic and transcriptional programs regulate lens fiber cell maturation and transparency, advancing fundamental understanding of cataractogenesis and age-related visual degeneration. Under his leadership, the lab has received nearly 14 million dollars in NIH funding in two decades. Recent awards include a \$2.8 million grant in 2016 for cell fate mechanisms (with \$1.2 million as PI), a \$1.3 million grant in 2020 for stem cell research, and a \$1.9 million award in 2025 for therapies targeting degenerative diseases. This sustained record of peer-reviewed funding, combined with mechanistic insight and translational vision, firmly positions Dr. Kantorow as a core research pillar for the Ph.D. program within the College of Medicine.

Patrick Grant, Ph.D., Professor and Chair of the Department of Biomedical Science and Senior Associate Dean for Research, is a distinguished epigenetics researcher whose laboratory has made seminal contributions to understanding histone modifications, chromatin remodeling, and their roles in gene regulation, genomic stability, and disease. His current research focuses on how epigenetic modulation contributes to cancer chemotherapy resistance and the molecular underpinnings of substance use disorders (e.g., cocaine, opioids). For example, his lab recently secured funding from the Florida Department of Health's Live Like Bella Pediatric Cancer Research Initiative to examine epigenetic drivers of treatment-resistant pediatric acute lymphoblastic leukemia. Under his leadership as Chair of the Department of Biomedical Science, the department has seen significant growth in funding: NIH funding for the biomedical sciences unit under his oversight is reported at approximately \$18.96 M, contributing to the College of Medicine's total of over \$31.6 M in active research awards across 71 grants. In a notable prior award period, Dr. Grant was principal on an

NIH grant valued at \$670,545 as part of a collection of NIH awards. This combination of deep mechanistic insight, translational focus, and successful grant captures Dr. Grant's status as a core strength within the College of Medicine.

Lawrence Toll, Ph.D., Professor of Biomedical Science, is a world-renowned neuropharmacologist whose three-decade career has centered on neurotransmitter receptor systems with particular focus on the opioid/NOP (nociceptin) axis and nicotinic acetylcholine receptors, targeting translational solutions for pain, addiction, and comorbid psychiatric disorders. Dr. Toll has enjoyed sustained support from the National Institute on Drug Abuse (NIDA) since 1988, enabling continuity in long-term mechanistic and translational projects. One of his previous notable awards was a 5-year, \$3.2 million NIH grant from NIDA for a project titled "Mixed NOP/mu Compounds and the Involvement of Their Receptors in Analgesia," which supported investigation of how NOP receptor modulation affects chronic pain and abuse liability when combined with classical opioid systems. In addition, in 2018 he secured a \$1.8 million NIH grant to examine chronic pain-induced changes in NOP receptor dynamics across central and peripheral nervous system compartments and their relevance to novel analgesic strategies. Dr. Toll currently has two NIH grant applications under review (one as PI with NINDS on non-opioid analgesics and one as PI with NIDA for continued development of PPL-138), and he also serves as co-investigator on two active grants focused on novel peptide analgesics and evaluation of PPL-138 for alcohol abuse in PTSD. This blend of pioneering basic science and translational drug discovery underscores Dr. Toll as a keystone faculty whose expertise and sustained grant record significantly enhances College of Medicine research profile.

Ning Quan, Ph.D., Professor of Biomedical Science, is a distinguished neuroimmunologist. His lab's mission is to elucidate how the nervous and immune systems form an integrated "neuroimmune suprasystem" and to uncover the molecular dialogue that shapes brain function, behavior, and pathology. Dr. Quan currently leads major NIH grants including a 5-year \$1.7 million R01 NS116914 (Neuroinflammation, Neuronal IL-1R1, and Behavior) (2020–2025) and R21 NS133843 (Dynamic Regulation of Neuroinflammation and IL-1 β -Trap) (2023–2025), and he also participates as co-investigator on multi-year projects including R01 NS120882 (Neuronal IL-1R1 Signaling in Mild Closed-Head Injury) and R01 NS103785 (IL-1/IL-1R1 Signaling after Traumatic Brain Injury). In 2023, he also received a modest pilot grant of \$20,000 from the FAU Stiles-Nicholson Brain Institute to support spatial genomics work on neuroimmune communication. This combination of foundational insight, methodological breadth, and sustained extramural funding illustrates Dr. Quan's role as a central pillar in FAU's research enterprise.

Jianning Wei, Ph.D., Associate Professor of Biomedical Science, is established academic scientist who research centers on mechanisms of neurodegeneration and neuronal regeneration using molecular, genetic, biochemical, imaging, and bioengineering strategies. Her lab investigates proteostasis and the effects of protein misfolding—especially in Huntington's disease models—by probing how mutant huntingtin disrupts cellular trafficking, glial support, and proteostatic machinery. In parallel, Dr. Wei is advancing interdisciplinary efforts in neuronal regeneration by integrating microfluidic platforms and engineering methods to study peripheral neuron regrowth under various stimuli. She also contributes to collaborative and translational initiatives: in 2023 she was co-investigator on an FAU seed funding award of \$30,000 for a biophysical marker study of Huntington's disease progression. More broadly, she is co-PI on a \$1.3 million NIH grant supporting a prosthesis development project, reflecting her engagement in translational neural engineering work.

The mission of the proposed Ph.D. program is consistent with the College of Medicine's

commitment to educating scientists to meet Florida's healthcare needs, conducting research that advances knowledge, improving patient care, and serving communities with competence, compassion, and respect. By leveraging FAU's academic programs, strategic emphasis areas, research institutes, and proven funding success, the Ph.D. program in Health Science Innovation and Technology will become a cornerstone of biomedical discovery and translational excellence.

B. Provide the date the pre-proposal was presented to the Council of Academic Vice Presidents Academic Program Coordination (CAVP ACG). Specify any concerns raised and provide a narrative explaining how each has been addressed in this proposal or will be addressed before the proposed program is implemented.

The PhD in Health Science Innovation and Technology (CIP 51.0722) was presented at the CAVP meeting on November 15, 2023. There were no concerns. All feedback received was complimentary regarding the timeliness of the degree program. The CAVP described the program as "a niche-focused program that will fill an area in a growing field that the programs available in the FLSUS will be able to provide a pathway into".

III. Student and Workforce Demand

A. Describe the Florida and national workforce demand for the proposed program. The response should, at a minimum, include the current state workforce data from Florida's Department of Commerce and national workforce data from the U.S. Department of Labor's Bureau of Labor Statistics. Additional documentation for workforce needs may include letters of program support by employers and job postings for program graduates, as well as a description of any specific needs for research and service that the program would fulfill.

Market Demand and Employment Outlook

Hanover Research Report: As indicated in Appendix A, Hanover Research, an independent external consultant firm, conducted a very broad employment and student demand market feasibility study for the PhD program. Using this data and the U.S. Department of Labor's Bureau of Labor Statistics Sources indicate an expected growth of job opportunities through the next decade both nationally and statewide.

National Workforce Trends

According to the U.S. Bureau of Labor Statistics, demand for advanced health science researchers is expected to rise significantly over the next decade. As shown in Table 1, employment of medical scientists is projected to grow 9% from 2024–2034, faster than the average for all occupations, with doctoral training as the standard entry requirement.

Related fields, including epidemiology (16% growth nationally) and postsecondary health specialties of faculty (17% growth nationally), also show sustained demand. This data confirms the need for highly trained doctoral graduates in health sciences research, innovation, and technology.

Florida Workforce Needs

Florida mirrors national workforce trends indicating sustained demand for professionals in biomedical and health science fields. According to Florida Department of Commerce (FloridaCommerce), statewide growth is projected in several occupations closely aligned with the proposed program:

- Medical and Health Services Managers: +4%
- Epidemiologists: +3%
- Health Specialties Faculty: +4%

While FloridaCommerce's most recent Employment Projections to 2032 dataset does not include a specific growth rate for Medical Scientists, labor market indicators strongly suggest continued and growing demand across the state. As shown in Table 5, Florida's expanding healthcare infrastructure, rapidly aging population, and strong biomedical research ecosystem, particularly in Palm Beach and Broward counties, contribute to this need.

According to the U.S. Bureau of Labor Statistics (May 2023, Occupational Employment and Wage Statistics), Florida employed approximately 5,610 Medical Scientists (except Epidemiologists), with

an annual mean wage of \$121,960. This aligns with national trends that emphasize the need for doctoral-trained professionals capable of driving biomedical innovation, translational research, and data-driven healthcare solutions.

Overall, Florida's economic and demographic landscape underscores the demand for highly skilled biomedical scientists prepared to lead in academic, clinical, and industry research settings, precisely the workforce niche this proposed Ph.D. program seeks to fill.

Sources: Florida Department of Economic Opportunity (FloridaCommerce), Employment Projections to 2021 ([stw32.xlsx](#)), FloridaJobs.org; U.S. Bureau of Labor Statistics (May 2023), Occupational Employment and Wage Statistics: Medical Scientists, Except Epidemiologists, <https://www.bls.gov/oes/2023/may/oes191042.htm#st>.

Employer and Agency Requests

Hanover Research's market analysis identified robust demand for graduates with doctoral-level expertise in biomedical research, innovation, and health technology. U.S. employers posted over 620 recent job openings (Appendix A Hanover Report) for graduates with relevant training, particularly in faculty, research, and leadership roles. In South Florida, potential employers include Baptist Health, Cleveland Clinic Florida, Memorial Healthcare System, Tenet Healthcare, Scripps Research/UF, and Max Planck Florida Institute. Industry trends also point to increased hiring in biotechnology start-ups and digital health companies, where doctoral-level innovation skills are at a premium.

Research and Service Needs

Beyond workforce placement, the program will address critical research priorities. In fiscal year 2024, NIH awarded \$869 million¹ in grants and contracts that directly supported 14,606 jobs² and 2.82 billion² economic activity in Florida. Much of it directed toward human health research and technology development. Institutes such as NHGRI, NIA, NCI, and NHLBI identify genomics, applied bioinformatics, and integrated systems of biology as funding priorities. FAU's Schmidt College of Medicine already manages over \$31 million in NIH research awards, and the proposed program will expand the university's capacity to compete for multi-PI, interdisciplinary grants.

1. National Institutes of Health (NIH), "NIH awards by location & Organization," FY2024. Retrieved September 2025 from <http://report.nih.gov/funding/categorical-spending>.
2. United Medical Research, "NIH's Role in Sustaining the U.S. Economy," FY2024 (2025 Update). Retrieved September 2025 from <https://unitedformedicalresearch.org/>.

The program will also serve Florida's healthcare needs by preparing graduates to lead research in:

- **Genetic and genomic technologies**
- **Stem cell therapies and regenerative medicine**
- **Drug and vaccine development**
- **Medical devices and digital health solutions**

These areas are central to reducing healthcare costs, addressing chronic disease burden, and driving innovation in Florida's life sciences sector.

Taken together, national BLS projections, Florida DEO workforce forecasts, Hanover Research's market analysis, and NIH funding priorities demonstrate that there is a clear and growing demand for doctoral-level expertise in health science innovation and technology. FAU's proposed Ph.D. program will not only prepare graduates for high-growth occupations but will also strengthen the state's biomedical research infrastructure, enhance industry partnerships, and expand the university's capacity to attract competitive research funding.

Table 1. U.S. Bureau of Labor Statistics projected job growth to 2034, listed by Standard Occupational Classification (SOC) system codes (From 2024 table).

SOC Title	SOC code	Employ - ment 2024	Projected Employ- ment 2034	Job growth 2024-2034 Number	% job grow th	Annual mean wage 2024	Minimum Education Level Needed for Entry
Medical Scientists, Except Epidemiologists	19-1042	165,300	179,600	14,300	9.0%	\$100,590	Doctoral or professional degree
Health Education Specialist	21-1091	71,800	75,000	3,200	4.0%	\$63,000	Bachelors Degree
Epidemiologists	19-1041	12,300	14,300	2,000	16.0%	\$83,980	Masters Degree
Medical and Health Services Managers	11-9111	616,200	759,100	142,900	23.0%	\$117,960	Bachelors Degree
Health Specialties Teachers, Post-Secondary	25-1071	289,600	339,700	50,100	17.0%	\$105,620	Doctoral or professional degree

Source: U.S Bureau of Labor Statistics (BLS), *Employment Projections: Table 1. Employment by detailed occupation, 2024 and projected 2034*. Retrieved September 2025 from <https://data.bls.gov/projections/occupationProj>

B. If the occupations do not currently appear in the most recent version of the Search by CIP or SOC Employment Projections Data Tool provided by Board staff, provide occupational linkages or jobs that graduates will be qualified to perform based on the training provided to students in the proposed program in the table below. Contact the institutional representative working with you on the degree proposal for more information about possible occupations.

Table 2. Occupational Linkages for the Proposed Program

SOC Code	Occupation Title	Source / Reason for Inclusion
19-1042	Medical scientists, except epidemiologists	Data from the U.S. Bureau of Labor Statistics (BLS) projects a 9% increase in job opportunities from 2024-2032 for medical scientists including thesis with PhD training. Entry-level educational requirements for these positions are a doctoral degree in Health Sciences.

21-1091	Health education specialists	Multiple Health Education Specialist positions may require an advanced degree. Overall, program graduates with health IT and informatics systems training, experience in leadership or as instructors, and those who can contribute to health promotion and general public health efforts will likely be able to find employment in the United States
19-1041	Epidemiologists	Epidemiologists typically need at least a master's degree, but most have PhD degrees. The degree may be in a range of fields or specializations, although a master's degree in public health with an emphasis in epidemiology is common. Epidemiologists who direct research projects—including those who work as postsecondary teachers in colleges and universities—often have a Ph.D. or M.D. degree.
11-9111	Medical and health services managers	The curriculum and areas of emphasis are designed to fill a current gap in training opportunities needed for health science administrators and clinical health professionals
25-1071	Health specialties teachers, postsecondary	Health Specialists for postsecondary teachers require a doctorate for optimal career status and income levels.

Table 3. Florida Department of Economic Opportunity, Employment, Employment projections to 2032 (2023 State wage estimates shown).

SOC Title	SOC code	Florida Employment 2024	Projected Employment 2032	Total Job Openings	% job growth	2023 Median Hourly Wage (\$)*
Medical Scientists, except epidemiologists	19-1042	N/A	N/A	N/A	N/A	N/A
Health Education Specialist	21-1091	3,724	3,894	3,168	4.6%	\$24.64
Epidemiologists	19-1041	307	318	137	3.6%	\$43.86
Medical and Health Services Managers	11-9111	37,873	39,636	23,217	4.7%	\$50.15
Health Specialties teachers, post-secondary	25-1071	9,001	9,087	5,712	1%	\$41.73



**Total Job Openings include growth, exits, and transfer.*

**Florida does not have medical scientist data on the annual average job openings.*

Source: Florida Department of Commerce (FloridaCommerce), *Employment Projections to 2032* ([stw32.xlsx](#)), Retrieved September 2025 from www.floridajobs.org/workforce-statistics/data-center/statistical-programs/employment-projections.

Potential Top Employers identified by Hanover Research

The external consulting firm Hanover Research reviewed the labor market demand for the program. The need was measured by economic forecasts and job posting trends. According to Hanover Research analysis, the widespread benefit of advancing health sciences technology is likely to keep demand high for innovators, instructors, and operators. [Industry reports](#) indicate that innovations in health services technology “play a large role in the Healthcare and Social Assistance sector and is expected to continue to redefine many facets of healthcare over the coming years Investment in new technology is likely to remain a priority, as they often “reduce costs, improve operational efficiencies, increase access to previously underserved populations and improve care overall. The below includes several key areas which recently benefited from technological advancements:

- **Electronic Health Records *Streamlines patient treatment process***
- **Telemedicine *Remote examinations, expedites treatment process***
- **Connected Devices *Wireless transmission of patient data for immediacy of patient care***
- **Micro instrumentation *Among many related technologies which increase surgical precision and reduce recovery time.***
- **Artificial Intelligence *Automate routine tasks, and increase precision of diagnostic process***
- **Surgical Techniques Hardware Pharmaceuticals Anesthesia**

Recent job postings reveal a strong job market for PhD graduates of health sciences innovation and technology related programs Employers in the United States posted over 620 job listings for graduates of related programs. Most openings are in faculty, research, and leadership positions for academic institutions and health care related organizations. Applicants with prior management or leadership experience may be more attractive to candidates for employment. Furthermore, employers most often requested graduates to be trained in public health, epidemiology, statistics, or biostatistics.

As illustrated in Figure 1, Hanover Research identified the most frequently requested academic programs and hard skills from recent national job postings related to health sciences and technology. The findings highlight substantial demand for graduates trained in public health, epidemiology, biostatistics, and quantitative analysis—all foundational areas incorporated into the Ph.D. curriculum in Health Science Innovation and Technology. Moreover, the top requested hard skills, including statistical programming (SAS, SQL, Python), data analysis, and applied clinical research, directly align with the program’s emphasis on advanced data analytics, translational research, and technology-

driven health solutions. This alignment demonstrates that the proposed Ph.D. program will prepare graduates with the precise competencies sought by national employers such as Elevance Health, United Health Group, Johnson & Johnson, Emory University, and the University of Kentucky.

Figure 1. Top Requested Programs and Hard Skills from Hanover Research Report

TOP REQUESTED PROGRAMS AND HARD SKILLS

Top Requested Programs	Top Requested Hard Skills
- Public Health (377) - Epidemiology (306) - Statistics (127) - Biostatistics (105) - Economics (80) - Health Services (75) - Psychology (62) - Computer Science (60) - Quantitative (59) - Medicine (58)	- Statistical Analysis System (SAS) (146) - Teaching/Training, School (146) - Public Health (140) - Statistics (111) - Data Analysis (88) - Structured Query Language (SQL) (80) - Python (72) - Clinical Research (70)

TOP NATIONAL EMPLOYERS

▪ Elevance Health (31)	▪ ICF (14)	▪ University of Kentucky (11)
▪ United Health Group (28)	▪ Johnson & Johnson (14)	▪ Emory University (9)
▪ Morehouse School Of Medicine (17)	▪ University of Colorado (11)	▪ ICF International (9)

As shown in Table 4, the number of research doctorate recipients in the biological and biomedical sciences has grown substantially, increasing by 83.7% between 1993 and 2023 (from 5,212 to 9,575). Over the same period, the health sciences field more than doubled, with a 139.7% increase in doctorate recipients. These trends underscore the continued expansion of research-intensive graduate education and the growing demand for advanced training in these disciplines.

Table 4. Postgraduation commitment of research doctorate recipients, by trend broad field of doctorate: Selected years, 1993–2023

Discipline Division	1993	1998	2003	2008	2013	2018	2023	% Growth 1993-2023
Biological Sciences and biomedical sciences	5,212	6,011	5,927	8,145	8,707	8,782	9,575	83.7%
Health Science	1,016	1,285	1,353	1,689	2,109	2,473	2,435	139.67%

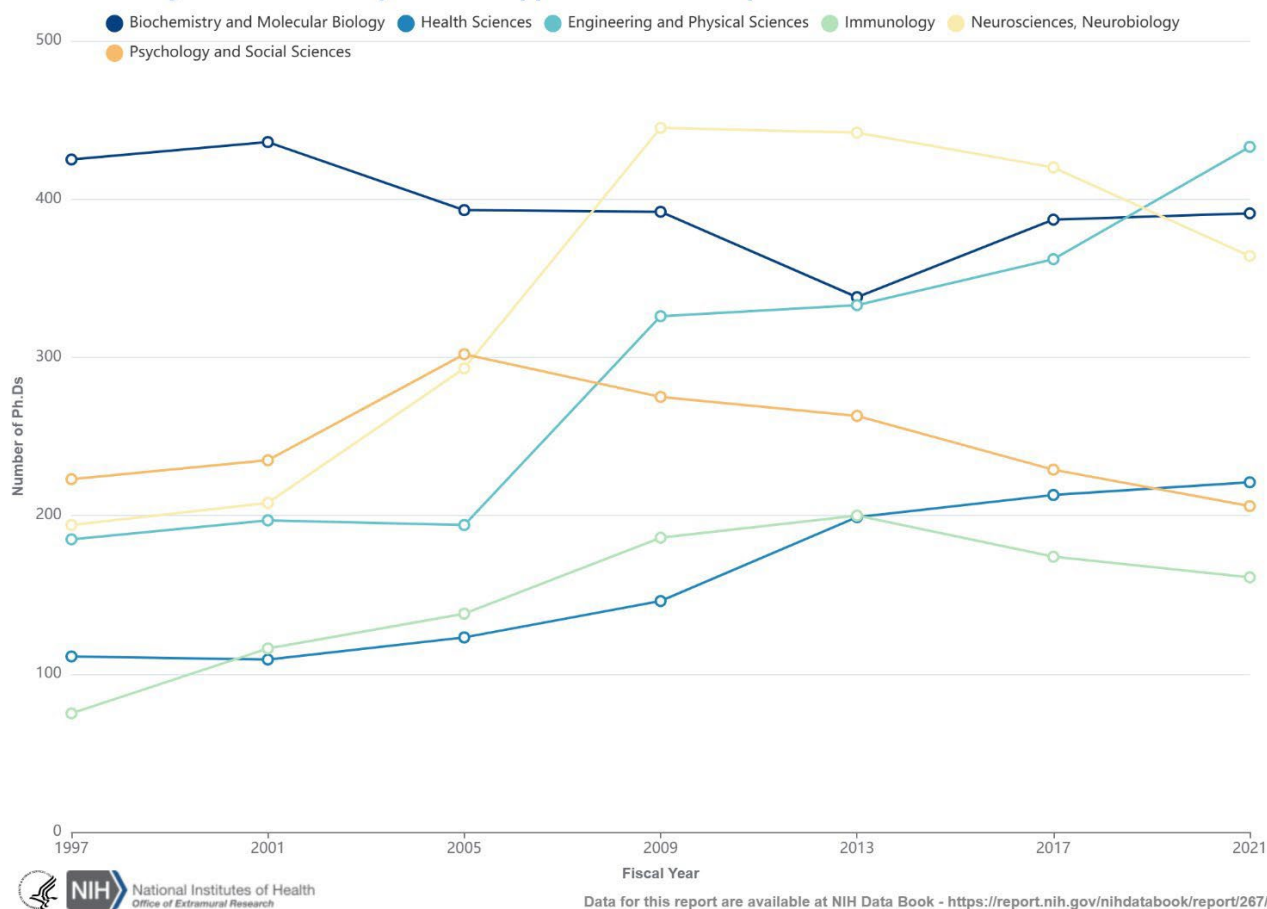
Source: National Center for Science and Engineering Statistics (NCSES), Survey of Earned Doctorates, Table 2.1. Retrieved September 2025 from

<http://nces.nsf.gov/pubs/nsf24336>.

Extramural funding for students enrolled in Health Science doctorate programs has kept pace with the enrollment growth. As Figure 2 highlights, NIH financial support of Health Sciences graduate students, provided through institutional program training grant awards and individual fellowships, has steadily increased since 1997, denoting an educational and financial commitment to the discipline. NIH support includes funding from any of the following Kirschstein-NRSA or NLM awards at any point prior to the Ph.D.: T15, T32, T90, TL1, TU2, F30, F31, F32, F33, F34, F35, or F99. Individuals supported by training grants (i.e., T awards) were included only if their training grant appointments were at least 100 days. Fields of study are those reported by the Ph.D. recipients themselves.

Figure 2. Trends in Major Fields of Study of NIH Supported Ph.D. Recipients.

Trends in Major Fields of Study of NIH-Supported Ph.D. Recipients



Source: Division of Statistical Analysis and Reporting (DSAR). Last updated: November 2023. Retrieved September 2025 from <https://report.nih.gov/nihdatabook/report/267/>.

Florida Health Burden & Workforce Demand Data Sources

Aging & Chronic Disease Burden in Florida

Florida has one of the oldest populations in the U.S. (over 21% of residents are age 65+), intensifying demand for innovations in health diagnostics, disease monitoring, and care delivery. Chronic diseases dominate the state's mortality burden: heart disease, cancer, and stroke are the top three causes of death in Florida. In 2021, Florida's age-adjusted death rate was 802.9 per 100,000, underscoring a heavy chronic disease load. Meanwhile, six in ten U.S. adults live with at least one chronic disease, and four in ten have multiple chronic conditions—figures that mirror trends in Florida. This high burden places pressure on clinical, translational, and systems-level research to keep pace with prevention, monitoring, and personalized treatment needs.

County-Level Chronic Disease Disparities in South Florida

According to data from the Florida Department of Health's FLHealthCHARTS, rates for diabetes hospitalizations were higher in Miami-Dade, Broward, and Palm Beach. Data from FLHealthCHARTS and MiamiDadeMatters indicate that in 2023, Miami-Dade, Broward, and Palm Beach counties experienced higher rates of major cardiovascular disease (CVD) death than the Florida average, along with higher rates of diabetes hospitalization. Using these local indicators strengthens the argument that the proposed PhD program will directly serve to ameliorate the region's most pressing health challenges.

Sources: Florida Department of Health, FLHealthCHARTS
(<http://www.flhealthcharts.gov/charts/default.aspx>); *Miami-Dade Matters*
(<https://www.miamidadematters.org/>). Retrieved September 2025

Aligning State Strategic Priorities

Florida's 2022–2026 State Health Improvement Plan (SHIP) identifies chronic disease, behavioral health, and health equity as key priority domains. The SHIP's priority area workgroups include stakeholders from universities, health systems, and public agencies to plan interventions. By training doctoral-level innovators in health science and technology, the proposed program will align with and supply the talent needed to support SHIP initiatives across Florida.

Table 5: Florida Department of Employment Opportunity Projections by County by SOC codes.

SOC Title	2024 Employment	2032 Employment	Increase	% Increase
19-1042 Medical Scientists, Not Epidemiologists				
Miami-Dade County	NA	NA	NA	NA
Broward County	307	336	29	9.4%
Palm Beach County	334	378	44	13.2%
21-1091 Health Education Specialists				

Miami-Dade County	NA	NA	NA	NA
Broward County	292	312	20	6.8%
Palm Beach County	229	247	18	7.9%
11-9111 Medical and Health Services Manager				
Miami-Dade County	5,504	6,934	1,430	26%
Broward County	3,171	3,835	664	20.9%
Palm Beach County	2,956	3,619	663	22.4%
19-1041 Epidemiologists				
Miami-Dade County	NA	NA	NA	NA
Broward County	43	46	3	7%
Palm Beach County	19	19	0	0%

***No data for SOC Code 25-1071 Health Specialties Teachers, Post-Secondary**

Source: Florida Department of Commerce (FloridaCommerce), *Employment Projections to 2032* ([stw32.xlsx](http://www.floridajobs.org/workforce-statistics/data-center/statistical-programs/employment-projections)). Retrieved September 2025 from <http://www.floridajobs.org/workforce-statistics/data-center/statistical-programs/employment-projections>.

Limitations of County-Level Data

The Florida Department of Economic Opportunity (FDEO) provides occupational employment projections at the county level; however, data availability varies by SOC code. As shown in Table 6, projections for some occupations (e.g., medical scientists, health education specialists, Epidemiologists in Miami-Dade) are not reported separately at the county level. In these cases, values are noted as “NA.”

To address these limitations, metropolitan-level data from the U.S. Bureau of Labor Statistics Occupational Employment and Wage Statistics (OEWS) program for the Miami–Fort Lauderdale–West Palm Beach MSA can be used as a proxy to estimate demand trends for Miami-Dade, Broward, and Palm Beach counties collectively. These metro data consistently show positive growth and strong wage premiums for doctoral-level occupations in the biomedical and health sciences, reinforcing the statewide and national projections.

Table 6. May 2023 Metropolitan and Nonmetropolitan Area Occupational Employment and Wage Estimates for Miami-Fort Lauderdale-West Palm Beach, FL

SOC Title	SOC code	Miami-Fort Lauderdale-West Palm Beach Employment	Employment per 1,000 jobs	Annual Mean wage
Medical Scientists, Except Epidemiologists	19-1042	1,310	0.481	\$113,880
Health Education Specialist	21-1091	710	0.262	\$59,930
Epidemiologists	19-1041	80	0.028	\$87,770
Medical and Health Services Managers	11-9111	10,570	3.885	\$126,340
Health Specialties Teachers, Post-Secondary	25-1071	3,810	1.401	\$93,970

Source: Florida Department of Commerce (FloridaCommerce), Occupational

Employment and Wage Statistics (OEWS) Program (in cooperation with the U.S. Bureau of Labor Statistics), May 2023, Miami – Fort Lauderdale – West Palm Beach Metropolitan Statistical Area (MSA). Retrieved September 2025 from <https://www.floridajobs.org/workforce-statistics/data-center/statistical-programs/occupational-employment-statistics-and-wages>

Collectively, Tables 1-6 demonstrate consistent and growing demand across national, state, and regional levels for doctoral-trained professionals in health sciences, supporting the viability of FAU's proposed Ph.D. program.

C. Describe the student demand for the proposed program. The response should, at a minimum, include the following.

- 1. Projected headcount for Year 1 through Year 5.**
- 2. Data that supports student interest or demand for the proposed program. Include questions asked, results, and other communications with prospective students.**

Student Demand

To evaluate student interest in the proposed Ph.D. in Health Science Innovation and Technology, the Office of Graduate Programs distributed two separate surveys during the proposal development process. The surveys were designed to gather feedback from both current FAU graduate students and prospective doctoral candidates regarding demand, interest areas, and factors influencing application decisions.

Survey 1: FAU Graduate Student and Doctoral Candidate Feedback

The first survey, titled Ph.D. Prospect Student Feedback – Requested for New FAU



College of Medicine Ph.D. Proposal (Appendix E), targeted current FAU students who had completed a master's degree or were enrolled in doctoral programs across the College of Science in the Integrative Biology PhD program. The survey aimed to gauge potential interest in a new Ph.D. program emphasizing innovation and technology within health sciences.

A total of 17 students completed the survey. Of these, 27% indicated they would have been interested in applying to the proposed Ph.D. program had it been available when they began graduate study. Respondents represented a range of educational backgrounds—14 in biological sciences, 1 in engineering/technology, and 4 in other health-related fields.

When asked about their fields of interest, students most frequently selected Biomedical Science (8), Health Science/Public Health (4), Genomics and Precision Medicine (4), and Technology and Health Innovation (3).

Key program features identified as most attractive included:

- Funding/assistantship opportunities (11 respondents)
- Interdisciplinary focus combining health, innovation, and technology (10)
- Faculty research areas (9)
- Career preparation opportunities (7)

Common barriers to application include financial concerns (9), program visibility (4), and competing offers (4).

Open-ended responses reflected enthusiasm for applied technology-driven research and regional partnerships:

- **“Offering courses on the Davie campus and online would make the program more accessible.”**
- **“Partnerships in areas regarding assisted reproductive technology would increase interest.”**
- **“Integration of biotechnology, genomics, and bioinformatics would make FAU stand out.”**
- **“South Florida’s proximity to Scripps and Max Planck could create unique research opportunities.”**

In terms of career interests, students expressed strong interest in industry/biotech/health technology (15), academic research (9), government/nonprofit sectors (9), and clinical innovation (7).

Survey 2: Current FAU Master’s Student Feedback

The second survey, titled Student Feedback Requested – New FAU College of Medicine Ph.D. Proposal (Appendix E), was distributed to current M.S. Biomedical



Science students in both thesis and non-thesis tracks within the College of Medicine. The goal was to assess interest in pursuing a doctoral degree following completion of the master's program and to determine which features of a new Ph.D. would be most appealing.

A total of four (4) students responded, representing both first year and second-year master students.

Among respondents:

- All four indicated interest in pursuing a doctoral degree.
- Three students (75%) specifically selected the proposed Ph.D. in Health Science Innovation & Technology as their preferred doctoral program, with others also noting interest in Biomedical Science.
- One student reported being "very likely" to apply if the program were offered, while two were "unsure but interested."

Factors most likely to influence application decisions included:

- Research opportunities with faculty (4 respondents)
- Cost and assistantship availability (4)
- Program focus on innovation, genomics, and technology (3)
- Location in South Florida (3)

Career goals reported included academic research (3), clinical/healthcare practice (3), industry or health technology (1), and government/policy (1). Most students (75%) agreed or somewhat agreed that the proposed program would prepare them for their intended career paths.

Representative qualitative feedback included:

- "Research opportunities would make the program most appealing."
- "Cost of attendance is a concern."

Summary of Findings

Results from both surveys demonstrate clear student interest and unmet demand for a Ph.D. program that integrates biomedical science with innovation and technology within the College of Medicine.

Key takeaways include:

- Approximately one-quarter of surveyed graduate and doctoral students (27%) expressed definite interest in applying.
- Among current FAU master's students, three of four (75%) reported interest in the proposed Ph.D. program.
- Students consistently emphasized research mentorship, interdisciplinary focus, and funding opportunities as the most important factors influencing enrollment decisions.
- Qualitative feedback highlights strong enthusiasm for technology-driven health science training and regional partnerships with South Florida research institutes.

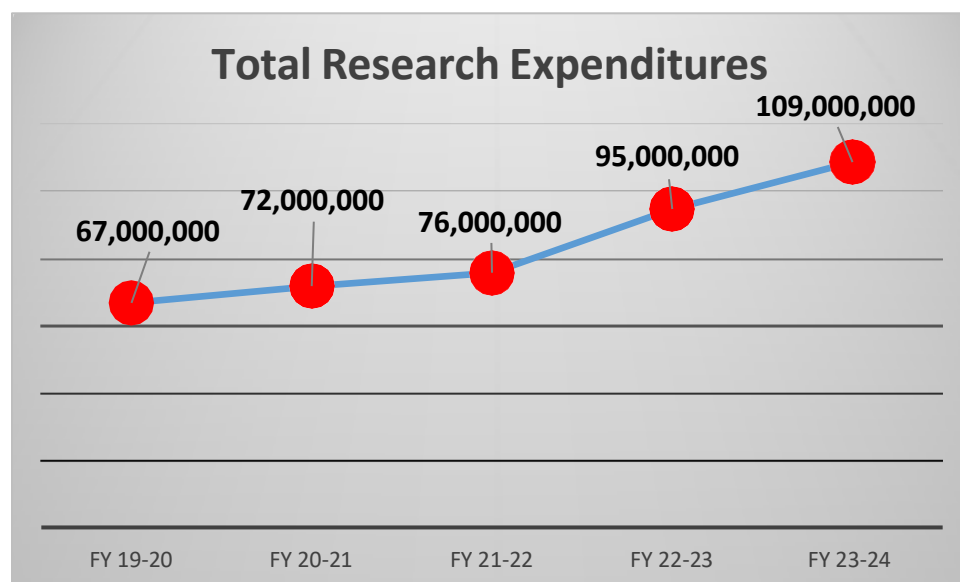
Collectively, the findings suggest robust prospective student demand and alignment between the proposed program's structure and the academic and career goals of FAU's graduate student population.

Recruiting for FAU's PhD Health Science Innovation and Technology program, with an initial intake of five students in Year 1, and scaling to ten students by Year 5, reflects the boutique style program in a niche field within the College of Medicine. This recruitment strategy aligns with the growth of FAU's research enterprise, evidenced by a significant increase in research expenditures. In figure 3, FAU's 2024 Momentum Report illustrated that the university's total research expenditures for fiscal year 2023–24 were approximately \$109 million.

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Figure 3. FAU Total Research Expenditures from the 2024 Momentum Report



FAU 2024 Momentum Report, Accessed October 2025.

<https://issuu.com/fau4/docs/2024-momentum-report>

This figure reflects a continued and significant upward trend in the university's research funding, up from \$95 million in fiscal year 2022–23. The growth helped Florida Atlantic secure the Carnegie Classification's prestigious R1 "very high research activity" status in 2025. This substantial growth has enabled FAU to retain elite faculty, who have, in

turn, secured millions in sponsored grant awards. Unlike the more traditional biomedical science programs at other Florida SUS universities, FAU's program will leverage this heightened research capacity and specialized faculty expertise to provide state-of-the-art training in healthcare technology and innovation. By retaining skilled faculty, the program can accelerate its development, create a robust initial student community, and maximize the synergy with the university's expanding research infrastructure, ensuring its capacity to train a new generation of leaders in systems-level healthcare transformation.

IV. Duplication of Existing Programs

A. If the program duplicates another degree program at a private or public state university in Florida with a substantially similar curriculum, provide evidence that the university has investigated the potential impact on the existing program, has discussed opportunities for collaboration with the affected university, and can justify the need for duplication. Additionally, summarize the outcome(s) of communication with appropriate personnel (e.g., department chairs, program coordinators, deans) at the affected institutions regarding the potential impact on enrollment and any opportunities for collaboration in the areas of instruction and research.

Table 9 provides an overview of all doctorate programs in College of Medicine and related fields in the State University System of Florida and includes the University of Miami (UM). All are delivered as onsite graduate programs. Florida Atlantic University is the only university in Florida with a CIP code 51.0722. There are several other universities in Florida with similar programs and initiatives related to healthcare innovation and technology, though they may not use the specific CIP code 51.0722.

The FAU PhD Health Science Innovation and Technology program would be distinct from the programs at the University of Florida and University of South Florida. These each offer Ph.D. degrees in Biomedical Sciences, with the option of selecting concentration from among several other focus areas (Cancer, Immunology, Genetics, Neuroscience, Molecular Cell Biology, Physiology, Pathology, Cardiovascular Biology).

Florida Atlantic University's PhD in Health Science with a concentration in Health Innovation and Technology stands apart from the typical biomedical sciences PhD programs offered at other Florida SUS universities by focusing on systemic healthcare solutions rather than foundational lab-based research. While programs like FIU, UF, and USF immerse students in traditional scientific fields such as molecular biology, genetics, and infectious diseases, FAU's program emphasizes the application of technology, data analytics, and policy to drive organizational change within the healthcare system. However, some similarities exist in the cross-disciplinary nature of research, as all these universities leverage expertise from various departments, including their medical colleges, to support doctoral students. For instance, FIU's Biomedical Science PhD exposes students to both basic science and clinical applications, similarly to how FAU's curriculum applies diverse fields to healthcare problems. Ultimately, while all these

programs aim to improve health outcomes through doctoral-level research, FAU's program uniquely positions itself to train leaders in healthcare innovation and technology, distinguishing it from other PhDs in biomedical sciences.

Based on boutique nature of FAU's PhD Health Science Innovation and Technology program, the potential impact on enrollment at other Florida universities is likely to be small. The program's small size, admitting only five new students in Year 1 with a total enrollment of ten students by the fifth year, signifies that it is not designed to compete with the larger, established biomedical science PhD programs offered at institutions like UF, USF, and FIU. Instead of drawing from the same applicant pool, FAU's highly specialized curriculum focuses on a niche area of healthcare technology and innovation management, appealing to a distinct and smaller group of candidates. Therefore, other Florida institutions will likely see no significant change in their own enrollment figures, as FAU's program will only serve a highly specific segment of the doctoral market rather than the broader applicant base for traditional biomedical PhDs.

Table 9. Overview of Doctorate Programs in College of Medicine and related fields in the FL SUS.

INSTITUTION	PROGRAM(S)	CONCENTRATIONS
Florida State University, Tallahassee, FL	The PhD in Biomedical Sciences in College of Medicine	Behavior and Systems Biology Biochemistry and Biophysics Molecular, Cellular, and Developmental Biology
University of Florida Gainesville, FL	PhD in Medical Sciences in the College of Medicine PhD in Medical Physics in the College of Medicine	Biomedical Informatics
Florida International University, Miami, FL	Ph.D. in Biomedical Science Herbert Wertheim College of Medicine	
University of Central Florida, Orlando, FL	Ph.D. in Biomedical Sciences Burnett School of Biomedical Sciences College of Medicine	Research focus on cancer, cardiovascular, neurodegenerative, and infectious diseases
University of South Florida, Tampa, FL	Ph.D. in Medical Sciences College of Medicine	Allergy, Immunology, and Infectious Disease Molecular Medicine Cardiovascular Disease

		Molecular Pharmacology and Physiology Neuroscience Pathology and Cell Biology
*University of Miami, Miami, FL	PhD in Biomedical Sciences Miller School of Medicine	Biochemistry and Molecular Biology, Cancer Biology, Cellular Physiology and Molecular Biophysics, Human Genetics & Genomics, Microbiology & Immunology, Molecular & Cellular Pharmacology, Molecular Cell & Developmental Biology, Neuroscience

** Private institution, not in the State University System of Florida*

Differences between this proposal and existing SUS programs:

Unlike existing State University System (SUS) doctoral programs, which often focus on traditional biomedical sciences, FAU's PhD Health Science Innovation and Technology is distinctly geared toward training leaders in systems-level healthcare transformation. The more conventional biomedical PhDs at institutions like UF, USF, and FIU emphasize foundational, lab-based research in specialized areas such as genetics, molecular biology, and infectious diseases. In contrast, FAU's proposed program focuses on applying technology, data analytics, and organizational strategy to address practical challenges within the healthcare system, covering topics like innovation management and medical device development. This distinction positions the FAU program to serve a different market of students and professionals who are interested in influencing policy, managing technology integration, and creating systemic efficiencies, rather than those whose primary aim is basic scientific discovery. This difference in focus from lab research to applied, systemic innovation is the primary factor that sets this proposal apart from the current suite of SUS offerings, addressing a distinct need in the healthcare industry.

B. If the proposed program curriculum substantially duplicates an existing program at Florida Agricultural and Mechanical University, provide evidence that the proposed program would not affect enrollment in Florida Agricultural and Mechanical University's program.

The Schmidt College of Medicine PhD in Health Science Innovation and Technology is not a duplicate of an existing program at Florida Agricultural and Mechanical University.

V. Curriculum

A. If the program is a bachelor's degree, please identify if the university is seeking any of the following statuses for the program.

☒ Not Applicable

B. Describe the admissions criteria and graduation requirements for the program.**Admission Standards:**

The program aims to admit students that are academically excellent and are passionate about research in human health. Students will have completed an undergraduate or M.S. degree that provides significant education in the areas of biology, chemistry, genetics, biomedical science, biochemistry, molecular biology or biomedical engineering.

Admission Requirements:

All students must meet the minimum graduate admission requirements of the University. Please refer to the Admissions section of this catalog. Additional requirements are:

- Completion of a Bachelor's or M.S. degree from a regionally accredited institution in areas such as biology, chemistry, genetics, molecular biology, biochemistry,

biomedical science or biomedical engineering.

- Minimum grade point average of 3.0 as an undergraduate and/or M.S. student.
- Complete sets of transcripts from previous institutions(s) attended.
- A minimum of 3 letters of recommendation, preferably from instructors and advisors who are familiar with the applicant's recent academic or research experience.
- A strong personal statement outlining the applicants' goals and motivations in applying for the program.

Graduate Record Examination scores are optional

International applicants whose native language is not English must score at least 550 (paper-based test), 213 (computer-based test) or 79-80 (Internet-based test) on the Test of English as a Foreign Language (TOEFL). Additionally, international applicants whose transcripts are from non-U.S. institutions must have their credentials evaluated course-by-course with a grade point average (GPA) calculation on a 4.0 scale.

International applicants must also demonstrate competency in spoken English.

Applicants are encouraged to contact a potential Ph.D. supervisor within the College of Medicine prior to applying for the program and submit a letter of support from that supervisor with their application. The Ph.D. supervisor must be a member of the program's graduate faculty and will chair the supervisory and dissertation research committees.

Previous Graduate coursework may be applied toward the course requirements of the Health Sciences, Innovation and Technology Ph.D. Students may receive up to 15 credits earned beyond the baccalaureate degree. Transfer credits must be approved by the Program Curriculum Committee and the Graduate College. Evaluation of transfer credits will be based on content and will require an official copy of each course syllabus for assessment.

Degree Requirements:

The Doctor of Philosophy in Health Sciences, Innovation and Technology is a research-intensive degree requiring a minimum of 72 credits beyond the baccalaureate degree.

The following are requirements for the Health Sciences Innovation and Technology Ph.D. degree:



1. Completion of 15 Core credits listed below.
2. Completion of at least 21 elective credits of graded coursework from the courses listed below. All electives must be approved by the student's Ph.D. supervisor.
3. The remaining 11 elective credits may be 5000-, 6000- or 7000- level courses in biology, biomedical science, chemistry and biochemistry, complex systems and brain sciences, engineering and computer science, special topics or approved cognates.
4. Completion of at least 25 dissertation credits under the direction of the student's dissertation research committee.
5. Students must achieve a grade of "B" or higher in all graduate coursework and maintain a cumulative grade point average of 3.0 or higher.
6. Admission to Ph.D. candidacy requires both the successful writing and public presentation of an original dissertation research proposal. The defense of the dissertation proposal will be held with the student's dissertation research committee following the public dissemination.
7. Degree completion requires both the successful writing and public presentation of original dissertation research. The defense of the dissertation research will be held with the student's dissertation research committee following the public dissemination.
8. Students are expected to publish at least one peer-reviewed research paper as first author involving research activities described in their thesis proposal prior to degree completion.

C. If the proposed program is an AS-to-BS capstone, provide evidence that it adheres to the guidelines for such programs, as outlined in [State Board of Education Rule 6A-10.024](#). List any prerequisites and identify the specific AS degrees that may transfer into the proposed program.

☒ Not applicable to this program because it is not an AS-to-BS Capstone.

D. Describe the curricular framework for the proposed program in the table below.

Health Sciences Innovation and Technology Core Courses:

Human Genetics – PCB 6665- 3 credits

Advanced Mol & Cell Biology – PCB 5532- 3 credits

Data Interpretation and Analysis in the Age of Precision Medicine – GMS 6860 - 3 credits

Integrating Genomics into Predictive Health – PCB 6667- 3 credits

Multi-omics health and disease – PCB 6819 - 3 credits

Required Core credits: 15 credits.

Required Dissertation credits: 25 credits.

Electives:

Choose 11 elective courses from the following:

Integrated Morphology 1 (BMS 6102C) 4 credits

Integrated Morphology 2 (BMS 6104C) 4 credits

Clinical Microbiology (BMS 6303) 3 credits

Autonomic Function and Diseases (BMS 6523) 3 credits

Fundamentals of General Pathology (BMS 6601) 3 credits

Brain Diseases: Mechanism and Therapy (BMS 6736) 3 credits

Biomedical Data and Informatics (BSC 6459) 3 credits

Introduction to Radiation Biology (BSC 6834) 3 credits

Neural Plasticity (GMS 6021) 3 credits

Biomedical Science Core Technologies Laboratory (GMS 6091C) 3 credits

Macromolecular Therapy for Human Diseases (GMS 6301) 3 credits

Molecular Basis of Disease and Therapy (GMS 6302) 3 credits

Pharmacology (GMS 6513) 3 credits

Advanced Pharmacology (GMS 6551) 3 credits

Principles of Neuroimmunology (GMS 6708) 3 credits

Biomedical Concepts and Translational Applications (GMS 6841) 3 credits

Data Interpretation and Analysis in the Age of Precision Medicine (GMS 6860) 3 credits

Host Defense and Inflammation (MCB 6208) 3 credits

Advanced Molecular and Cellular Biology (PCB 5532) 3 credits

Neurobiology of Addiction (PCB 5844) 3 credits



Advanced Cell Physiology (PCB 6207) 3 credits
 Emerging Applications in Oncology and Pharmacogenomics (PCB 6230) 3 credits
 Molecular Basis of Human Cancer (PCB 6235) 3 credits

Problem-Based Immunology (PCB 6238) 3 credits
 Tumor Immunology (PCB 6239) 3 credits
 Molecular Biology of the Cardiovascular System and Cardiac Disease (PCB 6705) 3 Credits
 Molecular Mechanism of Aging and Age-Related Diseases (PCB 6817) 3 credits
 Adult Neurogenesis (PCB 6848) 3 credits
 Physiology of the Heart (PCB 6885) 3 credits
 Directed Independent Study (PCB 6905) 1-3 credits
 Directed Independent Research (PCB 6915) 1-3 credits
 Directed Independent Research (PCB 6916) 0-3 credits
 Special Topics (PCB 6933) 1-8 credits
 Advanced Research credits (PCB 7919) 1-9 credits
 Dissertation research credits (PCB 7980) credits
 Developmental Neurobiology (PSB 6515) 3 credits
 Proteins in Health and Diseases – (PCB 6818) 3 credits
 Principles of neuroscience – (PSB 6037) 3 credits
 Cellular and molecular neuroscience – (PSB 6345) 3 credits
 Systems and integrative neuroscience – (PSB 6346) 3 credits
 Adult neurogenesis – (PCB 6848) 3 credits
 Developmental neurobiology – (PSB 6515) 3 credits
 Bioinformatics – (BSC 6458C) 3 credits
 New technologies in Biomedical Science and Health – (PCB 6933) 3 credits
 Computational Foundations of Artificial Intelligence – (CAP 5625) 3 credits
 Introduction to Data Science – (CAP 5768) 3 credits
 Artificial Intelligence – (CAP 6635) 3 credits
 Artificial Intelligence in Medicine and Healthcare – (CAP 6683) 3 credits
 Computer Vision – (CAP 6415) 3 credits
 Applied Machine Learning – (CAP 6610) 3 credits

Required Core Course Descriptions

Course Prefix & Number	Course Title	Required or Elective	Credit Hours	Course Description
PCB 6665	Human Genetics	Required	3	Designed to provide students with a functional understanding of the field of human genetics as it applies to progressive research and medicine. Emphasizes the integrated understanding and

				application of Genetic Analysis, Diagnosis and Mechanisms in human disease.
PCB 5532	Advanced Mol & Cell Biology	Required	3	Course is designed to provide students with a basic background and advanced topics in cell and molecular biology. Emphasis is placed on human physiology and disease.
GMS 6860	Data Interpretation and Analysis in the Age of Precision Medicine	Required	3	Biomedical Science is a broad field comprising many applied sciences geared toward the development of new approaches in healthcare or public health. This unique College of Medicine course is designed for graduate students headed toward a broad array of postgraduate vocational opportunities in areas ranging from professional education, health care and scientific fields through business. Students are introduced to data interpretation, analysis and presentation approaches. Further, students are exposed to novel precision medicine concepts and database research.
PCB 6667	Integrating Genomics into Predictive Health	Required	3	The aim of this course is to introduce students to the emerging field of genomics, precision medicine, and predictive health. Upon completion of the

				course students will gain a better understanding of the contribution of human genetic variation to pathogenic mechanisms and how technology helps us link the two.
PCB 6819	Multi-omics health and disease	Required	3	In the rapidly evolving fields of fundamental biology research and biomedicine, multi-omics studies combining genomics, transcriptomics, proteomics, and other modalities —are becoming increasingly prevalent. These integrative approaches, applied at both bulk and single-cell resolutions, have the power to identify novel biomarkers in disease and uncover the complex biological mechanisms within the context of health and disease.

Elective Course Descriptions

Integrated Morphology 1 (BMS 6102C) 4 credits

Prerequisite: Permission of instructor

This course involves the developmental, microscopic and gross anatomical features of the organs located in the thorax and abdomen of the human. A laboratory includes a cadaveric dissection experience and examination of tissue samples using virtual microscopy.

Integrated Morphology 2 (BMS 6104C) 4 credits

Prerequisite: Permission of instructor

This course involves the gross anatomical features of the structures of the back, limbs, head and neck of the human. A laboratory includes a cadaveric dissection experience.

**Clinical Microbiology (BMS 6303) 3 credits**

Prerequisite: MCB 3020

Students learn the relevant facts and principles underlying bacteria, parasites, pathogenicity and host resistance. Armed with this fundamental information, students will then be capable of understanding and utilizing contemporary modes of treatment and prevention.

Autonomic Function and Diseases (BMS 6523) 3 credits

Prerequisite: Permission of instructor

Course covers both the physiological and clinical study of the autonomic nervous system (ANS) emphasizing the neural circuitry aspects of systemic regulation. Topics are introduced in lectures and followed up by recent journal articles.

Fundamentals of General Pathology (BMS 6601) 3 credits

Covers the basic pathophysiology of mechanisms of disease in medicine and incorporates gross pathologic, microscopic and radiologic material to assist in understanding fundamental disease.

Brain Diseases: Mechanism and Therapy (BMS 6736) 3 credits

Prerequisite: Permission of instructor

Discussion of the molecular and cellular basis of brain diseases and of the current status of therapeutic intervention for those diseases.

Biomedical Data and Informatics (BSC 6459) 3 credits

Prerequisite: Permission of instructor

This course teaches essential concepts and methodology for biomedical data acquisition and analysis with an emphasis on the analysis of massive data. The course sets up the foundation for students' careers in biomedical informatics in a wide range of fields including biomedical academia, pharmaceutical and biotechnology industries.

Introduction to Radiation Biology (BSC 6834) 3 credits

Prerequisites: BSC 1010, 1010L, PHY 2048, 2048L, 2049, 2049L and permission of instructor

An overview of the effects of ionizing radiations on human and other biological systems. The course involves consideration of cell survival after exposure to ionizing radiations, repair of radiation damage, radiosensitizers and radioprotectors, doses and risks in diagnostic radiology, cardiology, nuclear medicine, and basic safety rules. A student seminar is required at the end of the course.

Neural Plasticity (GMS 6021) 3 credits

Prerequisite: Permission of instructor

This course is designed to provide students with a functional understanding of the field of basic neuroscience with application to brain plasticity throughout the lifespan. Emphasis is on the integrated understanding of learning and memory, structural and synaptic plasticity in animal models with relevance to human brain function in health and disease.



Biomedical Science Core Technologies Laboratory (GMS 6091C) 3 credits

Prerequisite: Permission of instructor

The aim of this course is to provide students with the introductory skills required for research success in the biomedical sciences. The course combines traditional classroom-based learning with hands-on practical laboratory experience and instruction. This course provides students with the fundamentals required for biomedical science research, including responsible conduct in biomedical research, understanding and applying the scientific method, hypothesis construction and experimental application, experimental design and data collection, and data analysis and presentation.

Macromolecular Therapy for Human Diseases (GMS 6301) 3 credits

Prerequisite: BCH 3033 or PCB 4023 or equivalent

Discussion of the molecular and cellular basis of human diseases and of the current status of therapeutic intervention for the specified diseases with focus on macromolecular therapy.

Molecular Basis of Disease and Therapy (GMS 6302) 3 credits

Prerequisites: BCH 4035 and (PCB 4023 or PCB 4522)

Explores the molecular basis of selected viral pathogens, genetic diseases and cancer through lectures and presentations by faculty in the College of Science and College of Medicine, Scripps Florida and private industry representatives. Discusses novel technologies aimed at developing therapeutics together with the activity of modern biotechnology in drug development.

Pharmacology (GMS 6513) 3 credits

Prerequisite: Permission of instructor

This course introduces the study of the properties, effects and therapeutic value of the primary agents in major drug categories. Topics include cholinergic drugs, adrenergic drugs, hormones, diuretics, cardiovascular agents, respiratory drugs and gastrointestinal agents.

Advanced Pharmacology (GMS 6551) 3 credits

Prerequisite: Permission of instructor

The pharmacology course is divided into two parts. The first part is usually delivered in the spring semester focusing on pharmacokinetics and neuropharmacology. In the second part, students explore chemotherapeutics and anti-inflammatory drugs. To inspire students to learn high-level pharmacology, the course emphasizes mechanisms of action of each therapeutic drug.

Principles of Neuroimmunology (GMS 6708) 3 credits

Prerequisite: Permission of instructor

This course is designed to provide the fundamental knowledge and essential concepts in the emerging field of psychoneuroimmunology (PNI). PNI is an interdisciplinary science that studies the connection and influence between the central nervous system, the immune system, and behavior. Understanding the interplay between these systems leads to discoveries of novel mechanisms of physiology and pathology, developments of novel therapies for the treatments of inflammatory diseases, neurodegenerative and affective disorders. The course seeks to provide a basic understanding of the



neuroscience, immunology, physiology and behavioral science underlying PNI interactions and to use PNI research as a platform to present students with modern strategies for understanding molecular mechanisms involved in the immunomodulation of neural functions and neuromodulation of immune activities.

Biomedical Concepts and Translational Applications (GMS 6841) 3 credits

Prerequisite: Permission of instructor

This course is a comprehensive fundamental course intended for biomedical majors. It provides cutting-edge, high-interest topics in the field of human health to doctoral and master's students in biomedical science. In this course, students explore the concepts of biology in different fields and how they are related to human health. The course also provides students with translational applications to clinical health problems and allows considerable flexibility in tailoring their course of study to suit their educational goals.

Host Defense and Inflammation (MCB 6208) 3 credits

Prerequisite: PCB 4233 or equivalent with a minimum grade of "B-"

Course covers the immunology emphasizing mechanisms of host defense and inflammation in chronic inflammatory diseases. Mechanisms emphasized are roles of macrophages that are heterogeneous and diverse populations regulating host defense and inflammation. Mycobacterial infections and allergic asthma are presented as disease models of chronic inflammatory diseases.

Neurobiology of Addiction (PCB 5844) 3 credits

Prerequisite: Permission of instructor

This course provides graduate students with fundamental information on molecular, cellular and neurocircuitry systems in the brain that are responsible for drug addiction. Common neurobiological elements are emphasized that provide novel insights into how the brain mediates the acute rewarding effects of drugs of abuse and how it changes during the transition from initial drug use to compulsive drug use and addiction.

Advanced Cell Physiology (PCB 6207) 3 credits

Prerequisite: Permission of instructor

Course describes in-depth membrane physiology, intracellular signaling pathways and cellular function, with an emphasis on neurons and human muscle cells (skeletal, smooth and cardiac muscle cells).

Emerging Applications in Oncology and Pharmacogenomics (PCB 6230) 3 credits

Prerequisite: PCB 6667 or permission of instructor

The course covers the rapidly evolving applications of genomics to cancer diagnosis and treatment and pharmacogenomics, exploring how natural genetic variation impacts human health, susceptibility to disease and the development of targeted treatments.

**Molecular Basis of Human Cancer (PCB 6235) 3 credits**

Prerequisites: Graduate standing and PCB 4023 or BCH 3033 or PCB 6207 with minimum grade of "B-"

Course covers current concepts and knowledge of cancer, exploring the molecular and cellular mechanisms underlying cancer progression with an aim to understand the processes of tumorigenesis.

Problem-Based Immunology (PCB 6238) 3 credits

Prerequisites: Graduate standing and PCB 4233 or equivalent with a minimum grade of "B-"

Course provides an up-to-date understanding of the basic science of immunology and how that science applies to the realities of patient care. The fundamental mechanisms of immunity are illustrated by cases of genetic defects in the immune system, immune

complex diseases, immune mediated hypersensitivity reactions and autoimmune and alloimmune diseases.

Tumor Immunology (PCB 6239) 3 credits

Prerequisites: Graduate standing and PCB 4233 or equivalent with a minimum grade of "B-"

Explores the role of the immune system in cancer and the implications for the host. The effect of the tumor-host interactions on the developing neoplasm are studied by considering related topics such as angiogenesis, MMPs, chemokines and metastasis. Additionally, the course explores the role of the immune system in defense against the tumors and the mechanism by which cancer cells escape the surveillance system.

Molecular Biology of the Cardiovascular System and Cardiac Disease (PCB 6705) 3 credits

Prerequisites: BCH 3034, PCB 4023, or permission of instructor

Examination of the molecular biology of cellular function focused on tissue adaptation in cardiovascular disease. Investigation of survival responses to cellular stress in atherosclerosis, cardiac hypertrophy, myocardial ischemia and hypertension.

Molecular Mechanism of Aging and Age-Related Diseases (PCB 6817) 3 credits

Prerequisite: Permission of instructor

This course is designed to provide students with contemporary knowledge of current concepts in aging and age-related diseases. The course explores the molecular and cellular mechanisms underlying the aging process with an emphasis on aging mechanisms. Hallmarks of aging in multiple organisms are emphasized with special emphasis on human aging.

Adult Neurogenesis (PCB 6848) 3 credits

Prerequisites: Graduate standing and PSB 6037 or PSB 6345 or equivalent

The background of stem cells and neuroscience is covered followed by several aspects of neurogenesis, including where neurogenesis happens in the brain, how it happens, why it happens and, more importantly, how it might help the brain heal itself.

**Physiology of the Heart (PCB 6885) 3 credits**

Prerequisites: BCH 3034, PCB 4023, or permission of instructor

Course emphasizes the relationship between the biochemical properties of the individual constituents of the heart cell (myocardium), the biophysics of cardiac muscle function and the performance of the intact heart. The course format will involve lectures, journal club presentations, round table discussions, invited speakers as well as special projects.

Proteins in health and diseases (PCB 6818) 3 credits

Prerequisites: Permission of instructor

To understand the characteristics of complex biological macromolecules and the applications to the studies of human diseases. Protein structure and function and the underlying mechanisms will be discussed in both Physiology (normal function) and Pathology (diseased states). Lectures combined with journal club-styled case study and research paper discussions are involved.

Directed Independent Study (PCB 6905) 1-3 credits

Prerequisite: Permission of instructor and Department Independent research.

Directed Independent Research (PCB 6915) 1-3 credits

Prerequisite: Permission of instructor

Directed independent research courses are designed for students conducting research with faculty in the College of Medicine, which allows documentation of these projects on their transcripts.

Directed Independent Research (PCB 6916) 0-3 credits

Prerequisite: Permission of instructor

Directed independent research courses are designed for students conducting research with faculty in the College of Medicine, which allows documentation of these projects on their transcripts. Grading: S/U

Special Topics (PCB 6933) 1-8 credits

Prerequisite: Permission of instructor

Topics of interest to students in Biomedical Science, such as clinical microbiology and protein misfolding and disease.

***Advanced Research credits (PCB 7919) 1-6 credits (to be created)**

Prerequisite:

This course is a vehicle allowing PhD candidate students to conduct research prior to writing and defending their proposal.

***Dissertation research credits (PCB 7980) 1-9 credits (to be created)**

Prerequisite: successful PhD candidacy proposal defense.

*Advanced Research and Dissertation courses will be created with the approval of the degree by the Board of Governors

**Developmental Neurobiology (PSB 6515) 3 credits**

Prerequisites: PSY 1012 and PSB 3002

In-depth coverage of the principles and recent advances in the development of the brain and nervous system, including nerve cell migration, axon outgrowth, specificity, plasticity, neurotrophism, nerve cell death and the influence of experience on the nervous system.

Bioinformatics (BSC 6458C) 4 credits

Prerequisite: Permission of instructor

A practical approach to accessing nucleic/protein databases, management of databases, identification of genes, and electronic expression profiling.

New technologies in Biomedical Science and Health – PCB 6933

Prerequisite: Permission of instructor

Designed to provide students was a theoretical and functional understanding of state-of-the-art techniques in use in biomedical science labs, with an emphasis on neuroscience.

Principles of Neuroscience (PSB 6037) 3 credits

A survey of principles of neuroscience as they relate to behavior. Topics include morphology and connectivity of neural cells, biological potentials, gross structure of the central and peripheral nervous system, and sensory, motor, and higher-order integrative functions.

Cellular and Molecular Neuroscience (PSB 6345) 3 credits

This is a graduate course in neuroscience that covers the structure and function of neurons and glial cells including electrophysiology, neurotransmitter systems and synaptic function/plasticity. It is given in conjunction with PSB 6346.

Systems and Integrative Neuroscience (PSB 6346) 3 credits

This course is for graduate students who have completed PSB 6345 successfully. This course follows PSB 6345 with content on development, neuroanatomy, sensory systems, motor systems and cognition.

Computational Foundations of Artificial Intelligence - CAP 5625 3 credits

Prerequisites: Graduate standing or permission of instructor

This course covers the mathematical and programming foundations of artificial intelligence (AI) and machine learning (ML) using contemporary programming languages and tools. As a result, students develop familiarity with mathematical methods (and associated notation, software packages and libraries) that are widely used in AI and ML projects and literature.



Introduction to Data Science (CAP 5768) 3 credits

Prerequisite: Programming competency at the level of an online short course (e.g., Code Academy)

This course surveys foundational topics in data science and reinforces practical programming skills in the context of data analytics. Students learn fundamentals of computational data analysis using statistics and machine learning and gain experience working with data sets from a variety of domains. Students may not enroll in CAP 5768 if they have already taken CAP 4773.

Artificial Intelligence (CAP 6635) 3 credits

The basic concepts, techniques, and applications of artificial intelligence: representations, search strategies, control, communication, deduction, agents, evolutionary computation and machine learning.

Artificial Intelligence in Medicine and Healthcare (CAP 6683) 3 credits

Prerequisite: Graduate standing or permission of instructor

This course introduces the underlying concepts, methods and potential of intelligent systems in medicine. It explores the application of artificial intelligence (AI) and machine learning methods, techniques and tools to specific areas in medicine and healthcare. As a research-and-project-based course, student have opportunities to identify and specialize in particular AI methods, clinical/healthcare applications and relevant tools.

Computer Vision (CAP 6415) 3 credits

Prerequisite: Graduate standing

Course covers fundamentals of computer vision and their applications in various areas such as medicine, homeland security, entertainment, and manufacturing.

Applied Machine Learning (CAP 6610) 3 credits

Prerequisite: STA 2023

This course covers theoretical foundations and tools for machine learning and data analytics. The class introduces major machine learning topics, such as supervised learning, unsupervised learning and numeric predictive models. Case studies include application of machine learning to different domains. Credit will not be given for both CAP 4612 and CAP 6610.

As detailed above, a minimum of 72 credit hours beyond the baccalaureate degree are required for completion of the PhD degree. Credits are broken down in the following way: 15 credits are taken as required core courses, a minimum of 25 dissertation credits are required, 21 credits must be taken from available biomedical science elective courses (listed) and the remaining 11 credits are unrestricted and may be taken from graduate (5000-, 6000- or 7000- level) courses from biology, biomedical science, chemistry and biochemistry, complex systems and brain sciences, engineering and computer science, special topics or approved cognates. All elective courses must be approved by the student's Ph.D. supervisor. Students may not exceed 79 credits prior to graduation.



Program curriculum

Students will attend a graduate student orientation before classes begin. The orientation will consist of an introduction to facilities and resources in the College of Medicine, an introduction to and completion of compliance requirements for working in labs within the college of medicine and a hands-on wet lab introduction for basic techniques. The students will also be given a presentation by the college librarian and there will be presentations of ongoing research by current graduate students. During orientation the students will complete an initial plan of study.

During the first year, students will pursue core coursework, initiate elective coursework and begin lab work in their supervisor's laboratory. In the second year of study students will complete core and elective coursework and take advanced research credits. Students are expected to have written and orally defended their research proposal by the Fall semester of their third year. In subsequent years students will take dissertation research credits. Attendance at the COM distinguished lecturer series is required.

Coursework:

Fall Year 1

**Advanced Mol & Cell Biology – PCB 5532- 3 credits (Core)/Elective - 3 credits
Multi-omics in health and disease – PCB 681 – 3 credits (Core)
Elective - 3 credits

** students may take PCB 5532 in either fall or spring of their first year.

Spring Year 1

Human Genetics – PCB 6665- 3 credits (Core)
Integrating Genomics into Predictive Health – PCB 6667- 3 credits (Core)
**Advanced Mol & Cell Biology – PCB 5532- 3 credits (Core)/Elective -3 credits
Elective – 3 credits
COM Distinguished lecture series – 0 credits

Summer Year 1

Advanced research - 3 credits

Fall Year 2

Elective - 3 credits
Elective - 3 credits
Advanced research - 3 credits

Spring Year 2

Data Interpretation and Analysis in the Age of Precision Medicine – GMS 6860 - 3 credits (core)
Elective - 3 credits
Elective - 3 credits
Advanced research - 3 credits
COM Distinguished lecture series – 0 credits



Summer Year 2

Write and submit thesis proposal Advanced research - 3 credits

Fall Year 3

Defend thesis proposal Advanced research – 3 credits

Unrestricted elective – 3 credits

Unrestricted elective – 3 credits

Spring Year 3

Advanced research - 3 credits

Unrestricted elective – 3 credits

Unrestricted elective – 3 credits

COM Distinguished lecture series – 0 credits

Years 3-5

Dissertation research – 1-9 credits per semester

COM Distinguished lecture series – 0 credits

In year one the students will enroll for 12 credit hours of core courses in Fall and Spring semesters. The core courses offered provide the foundational knowledge for students undertaking research in any of the labs within the COM. Students will also enroll in electives as approved by their supervisor. During the summer of their first-year students will undertake one advanced research credit and complete a formal plan of study. A thesis committee will be formed consisting of the student's supervisor and three other faculty members knowledgeable in the area of research. The advanced research credits that begin in the summer of year one will allow students to undergo training in their

supervisor's lab and collect data that will serve as the basis for their thesis proposal. In year 2 the students will take electives and in spring complete their core course requirements while continuing to take advanced research credits. Students will write and submit their thesis proposal by the end of the summer semester in year 2. The thesis will be defended in the Fall semester of their third year. In years 3-5 the students will complete remaining electives and take dissertation research credits.

To advance to PhD candidacy the students must have completed the 15 core course credits, maintained a minimum GPA of 3.0 and have collected sufficient research data to support their thesis proposal. The proposal will be presented in seminar style at a public forum open to all faculty and students. Following advancement students are required to take a minimum of 24 dissertation credits with the goal of writing and publicly defending their thesis by years 5 or 6.

E. Does an industry or employer advisory council exist to provide input regarding curriculum development, student assessment, and academic workforce alignment?

- ☐ Yes
- ☒ No. Describe any plans to develop one or other plans to ensure academic workforce alignment.

Explain how employer-driven or industry-driven competencies were identified and incorporated into the curriculum. Has a strategy been established for assessing student learning and reviewing academic workforce alignment to modify the curriculum as needed?

Employer and Industry-Driven Competencies and Workforce Alignment

Development of the Ph.D. in Health Sciences, Innovation and Technology curriculum was guided by national labor market trends, employer expectations, and benchmarking data from Hanover Research (2023). Hanover's analysis identified a robust and expanding labor market for professionals trained in health sciences innovation, data analytics, and biomedical technology. National employment for health- and medical-related occupations is projected to increase by 22.9% through 2031, with particularly strong demand for health specialties faculty, medical scientists, and health services managers—occupations that frequently require doctoral preparation.

Employer and Industry-Driven Competencies

Hanover's review of over 600 relevant job postings and national labor intelligence revealed that employers prioritize graduates who possess a unique combination of research, analytical, and technological competencies. The most frequently requested skills included:

- Data analysis and computational skills (SAS, SQL, Python, and applied machine learning)
- Quantitative and mixed-methods research design
- Biomedical and translational research application
- Leadership, innovation management, and project evaluation
- Pedagogical and mentoring ability in health sciences disciplines

These findings were directly embedded into FAU's curriculum framework. Core and elective courses emphasize:

- Multi-omics and precision medicine approaches (e.g., Multi-Omics Health and Disease, Integrating Genomics into Predictive Health)
- Biomedical data analytics and computational health sciences (e.g., Data Interpretation and Analysis in the Age of Precision Medicine, Applied Machine Learning, Artificial Intelligence in Medicine and Healthcare)
- Ethical, translational, and regulatory considerations relevant to technological innovation in healthcare; and



- Interdisciplinary collaboration and communication across biomedical science, engineering, and data science domains.

This integration ensures that graduates are well-prepared for leadership roles in academia, health systems, and biomedical technology sectors that increasingly depend on innovation and data fluency.

Industry and Workforce Input

Although FAU does not currently have a formal industry or employer advisory council specific to this doctoral program, the proposed curriculum reflects extensive analysis of employer needs and national program benchmarks. Faculty within the College of Medicine will provide input based on their ongoing collaborations with internal and external activities and data science initiatives, ensuring that the program reflects the skillsets and research priorities most relevant to today's biomedical workforce.

Future Plans for Academic–Workforce Alignment

To institutionalize employer engagement, the College of Medicine will establish a Health Innovation Advisory Workgroup during the program's first year. The workgroup will include NIH-funded COM faculty members. Its primary functions will be to:

- Review the curriculum annually for alignment with industry advancements;
- Advise on dissertation topics and research applications with translational potential; and
- Support the creation of experiential research for doctoral students.

Alignment with FAU's Institutional Mission

The Ph.D. in Health Sciences, Innovation and Technology advances Florida Atlantic University's mission to drive cutting-edge research, interdisciplinary collaboration, and workforce development in emerging fields that improve human health. By integrating competencies in innovation, data analytics, and translational science, the program reinforces FAU's commitment to producing graduates who contribute directly to Florida's growing biomedical and health technology sectors while advancing scientific discovery and economic competitiveness.



G. Does the proposed curriculum align with Section 1001.706 (5)(a), Florida Statutes?

- ☒ Yes
☒ No

H. For degree programs in medicine, nursing, and/or allied health sciences, identify the courses with the competencies necessary to meet the requirements in [Section 1004.08, Florida Statutes](#).

For teacher preparation programs, identify the courses with the competencies required in [Section 1004.04, Florida Statutes](#).

☒ Not applicable to this program because the program is not a medicine, nursing, allied health sciences, or teacher preparation program.

I. Select the anticipated mode of delivery for the proposed program.

- ☒ Face-to-Face
☐ Hybrid
☐ Distance Learning

If the method(s) of delivery will require specialized services or additional financial support, describe the projected costs below.

Anticipated Mode of Delivery

The program will be delivered exclusively via face-to-face instruction. This method is essential for fostering a collaborative, hands-on learning environment, which is crucial for doctoral-level research and training within the medical and scientific fields. All courses, seminars, and research activities will be conducted in person within the facilities of the College of Medicine and associated research labs.

This face-to-face delivery method does not require any specialized services or additional financial support beyond the standard operating budget of the program. Therefore, no additional costs related to the mode of delivery.

J. Describe any potential impact on related academic programs or departments, such as an increased need for general education or common prerequisite courses or an increased need for required or elective courses outside of the proposed academic program. If the proposed program is a collaborative effort with another academic department(s), college(s), or school(s) within the institution, provide a letter(s) of support or MOU(s) from each department, college, or school in Appendix B.

The proposed PhD research is designed to be self-contained within the College of Medicine, utilizing only the courses, faculty, and resources available within the department. This project does not involve formal collaboration with other departments or universities and is not expected to have any impact on the course requirements, enrollment, or operational resources of other academic programs. All necessary coursework and research training will be conducted internally, ensuring that the program's successful completion is reliant solely on the infrastructure and expertise housed within the College of Medicine.

K. Describe any currently available sites for internship and/or practicum experiences and any plans to seek additional sites in the next five years.

☒ Not applicable to this program because students are not expected to seek internship or practicum opportunities as a required curriculum component.

Internship and Practicum Experiences

This program does not require internships or practicums as part of the degree requirements. Accordingly, no internship sites are currently in place, nor are any anticipated to be developed in future years. The curriculum is designed to provide all required experiential and applied learning components through coursework, faculty-mentored research, and project-based experiences embedded within the academic program.

Ph.D. trainees will be required to participate in several structured scholarly activities that serve as internal practicum-style experiences, emphasizing communication, collaboration, and dissemination of research findings:

College of Medicine (COM) Graduate Distinguished Lecturer Seminar Series

All College of Medicine graduate students are required to attend the Distinguished Lecturer Seminar Series throughout the academic year. During these sessions, faculty and invited speakers present current research topics across biomedical and health science disciplines. This engagement enhances students' understanding of diverse research methodologies and fosters critical thinking and scientific communication skills.

COM Graduate Student Research Day

Each year, Ph.D. trainees will present their research through poster presentations at the COM Graduate Student Research Day. This event provides an opportunity to share findings with faculty, peers, and collaborators, and to receive feedback that supports



continued research development. It also promotes scholarly interaction and interdisciplinary exchange among the College's research community.

FAU Graduate College Three Minute Thesis (3MT®) Competition

Doctoral students are encouraged to participate in the FAU Graduate College's Three Minute Thesis competition, which challenges participants to present their research clearly and concisely to a broad audience within three minutes. This event

helps trainees refine their communication and presentation skills, preparing them for future conference presentations, professional interviews, and outreach activities. Collectively, these academic and research-based activities ensure that Ph.D. students acquire essential experiential learning outcomes consistent with those of programs requiring formal internships or practicums, while remaining fully integrated within the academic and research mission of the College of Medicine.

- L. Identify any established or planned educational sites where the program will be offered or administered. Provide a rationale if the proposed program will only be offered or administered at a site(s) other than the main campus.**

Educational Sites

The proposed program will be administered and housed primarily within the College of Medicine at the university's main campus in Boca Raton. All core educational and administrative functions, including didactic courses, will take place at this central location. However, to ensure students have access to the full scope of research expertise and specialized laboratory facilities within the College of Medicine, students conducting research with faculty members whose labs are located on the Jupiter campus will be expected to work at that facility. This arrangement provides students with access to a wider range of research specializations and resources, ensuring a comprehensive and robust doctoral experience while maintaining program consistency under a single administrative home.

- M. If the institution has conducted recent program reviews, received feedback from accreditation bodies, or received input from other entities that affect the proposed program, describe the institution's progress in implementing the recommendations.**

If the proposed program is a doctoral-level program, include the external consultant's report and the institution's responses to the report as Appendix A.

This is a new program that has not been reviewed. The only graduate program review for the College of Medicine was for our Master of Science in Biomedical Science program in 2018. This Provost initiated 7-year 360 review rated the program as outstanding. Three reviewers (two external and one internal (non-college of medicine)) recommended no programmatic or administrative changes to the program. However, their report suggested that "there needs to be increased recognition of the contribution the program makes to advancing the reputation of the College of Medicine Biomedical Science Graduate Program and its impact on FAU's U.S. News and World Report



ranking". We implemented their recommendations through increased reporting of our KPI's and student success rates outside of the college and with the community at large. The strong affirmation of the programs impact and success a major driving force in the initiation and development of this proposed PhD program that will be the first and only PhD program specific for students in the College of Medicine.

This new PhD proposal was also reviewed by an outside educational consulting firm, Hannover Research. The following summarizes the recommendations (Appendix A) provided by Hanover Research in its Academic Program Assessment Report and describes how each recommendation was incorporated into this proposed Doctoral Program in Health Sciences Innovation and Technology at Florida Atlantic University.

Overall, the recommendations strongly supported the development of the program and informed key aspects of its design, including program focus, naming and positioning, and delivery modalities. Where applicable, the proposal reflects these recommendations in order to align with documented labor market demand, enhance program visibility, and increase accessibility for the intended student population of working professionals and recent graduates.

Their specific recommendations were: **"Proceed with developing the doctoral program."** Specifically, "Recent degree conferral trends demonstrate strong demand for doctoral programs like FAU's proposed program in "health sciences innovation and technology". Additionally, labor demand for health sciences technology developers, instructors, and leaders is projected to grow as new technologies are used to respond to preexisting and emerging threats to human health. Currently, there are few direct competitors for FAU's proposed program, though institutions offering related programs with bioengineering-, bioinformatics-, or biomedical technology-focus instead. In structuring its new program, FAU should embed numerous research and hands-on learning experiences to help students become familiar with current technologies and gain the necessary experience to improve upon them. Also, FAU should aim the program at working professionals and recent graduates from a wide range of professional and academic backgrounds who are seeking a strong foundation in cutting edge health sciences technologies".

"Consider Including Highly Searched Terms in the Program Title and Description"

Specifically, "In the absence of consistent naming trends among benchmarked programs, FAU should use a combination of highly searched terms in naming and describing the new doctoral program. Integrating popular search terms can help increase the visibility of FAU'S new program on internet searches. By average monthly search volume, the top keywords to incorporate are "health sciences", "technology", and "research", and using additional keywords like "innovation" may attract some attention but is likely to need explanation of its application to the program coursework and outcomes."

"Provide Flexible Delivery Options"

Specifically, "Few competitors feature flexible delivery options, giving FAU the opportunity to further differentiation in the national market. Offering distance delivery may extend FAU's reach to a national audience. Additionally, part-time enrollment and



evening courses may be attractive to busy working professionals looking to gain additional education and experience.”

Conclusion and Institutional Response

Overall, the external consultant’s Academic Program Assessment strongly supported the development of the proposed Doctoral Program in Health Sciences Innovation and Technology. The analysis identified clear demand for doctoral-level training in health sciences technologies, favorable labor market projections, and a limited number of direct competitors, confirming the program’s strategic viability and alignment with institutional and workforce needs.

Although a formal written institutional response was not issued, Florida Atlantic University has incorporated the consultant’s recommendations directly into the design and structure of the proposed program. Specifically, the university has proceeded with development of a research-intensive doctoral program that emphasizes hands-on learning, exposure to emerging technologies, and independent scholarly inquiry. The program is intentionally designed to serve recent graduates from a broad range of academic backgrounds, as recommended by the consultant.

Taken together, the consultant’s recommendations affirmed the need for the proposed program and informed key implementation decisions. The proposed PhD program reflects full alignment with the external consultant’s findings and represents a direct and substantive response to the guidance provided in the Hanover Research report.

VI. Faculty

A. Identify existing and anticipated full-time faculty who will participate in the proposed program through Year 5, excluding visiting or adjunct faculty in table 10 below. Additionally, provide the curriculum vitae for each identified faculty member.

Table 10 Faculty Participation

Faculty Code*	Faculty Name or "New Hire" Academic Discipline	Rank	Contract Status	Initial Date for Participation in Program
A	Patrick A. Grant, Ph.D. Medicine	Professor	Tenure	Fall 2026
A	Randy D. Blakely, Ph.D. Neuroscience	Professor	Tenure	Fall 2026
A	Ajay Bommarreddy, Ph.D. Pharmacology	Associate Professor	Non-Tenure	Fall 2026
A	Massimo Caputi, Ph.D. Molecular Genetics	Professor	Tenure	Fall 2026
A	Andrea Cippitelli, Ph.D. Pharmaceutical Sciences	Assistant Professor	Tenure-Track	Fall 2026
A	Lyonna Parise, Ph.D. Neuroscience	Asst. Professor	Tenure-Track	Fall 2026
A	Xupe Huang, M.D., Ph.D.	Professor	Tenure	Fall 2026
A	Krinio Giannikou, Ph.D. Genetics	Asst. Professor	Tenure-Track	Fall 2026
A	Ceylan Isgor, Ph.D. Animal Learning and Behavior	Associate Professor	Tenure	Fall 2026
A	Marc Kantorow, Ph.D. Genetics	Professor	Tenure	Fall 2026
A	Michael Lu, Ph.D. Molecular and Cellular Biology	Associate Professor	Tenure	Fall 2026
A	Andrew Oleinikov, Ph.D. Biology	Professor	Tenure	Fall 2026
A	Howard M. Prentice, Ph.D.	Professor	Tenure	Fall 2026

	Biochemistry			
A	Ning Quan, Ph.D. Physiology	Professor	Tenure	Fall 2026
A	Claudia O. Rodrigues, Ph.D. Microbiology	Associate Professor	Tenure-Track	Fall 2026
A	Wen Shen, Ph.D. Physiology and Biophysics	Professor	Tenure	Fall 2026
A	Rui Tao, D.V.M., Ph.D., MS Physiology and Neurobiology	Associate Professor	Tenure	Fall 2026
A	Lawrence Toll, Ph.D. Biological Chemistry	Professor	Tenure	Fall 2026
A	Henriette van Praag, Ph.D. Neuroscience	Associate Professor	Tenure	Fall 2026
A	Jianning Wei, Ph.D. Biochemistry	Associate Professor	Tenure	Fall 2026
A	Ewa P. Wojcikiewicz Physiology and Biophysics	Associate Professor	Non-Tenure	Fall 2026
A	Eric Parise, Ph.D Biochemistry	Asst. Professor	Tenure-Track	Fall 2026
A	Lisa Ann A. Brennan, Ph.D. Biomedical Sciences	Research Professor	Non-Tenure	Fall 2026
A	Maureen Hahn, Ph.D. Neuroscience	Research Assoc. Professor	Non-Tenure	Fall 2026
A	Hideki Iwamoto, Ph.D. Neuroscience	Research Assoc. Professor	Non-Tenure	Fall 2026
A	Akihiko Ozawa, Ph.D. Biomedical Sciences	Research Assoc. Professor	Non-Tenure	Fall 2026
A	Lawrence Brickman, M.D. Surgery	Associate Professor	Non-Tenure	Fall 2026
A	Lisa Clayton, D.O. Emergency Medicine	Associate Professor	Non-Tenure	Fall 2026
A	Mark Di Corcia, Ph.D. Health Communication	Associate Professor	Non-Tenure	Fall 2026
A	Rainald Schmidt- Kastner, M.D. Clinical Neuroscience	Associate Professor	Non-Tenure	Fall 2026
A	Mario Jacomino, M.D. Womens and Childrens Health	Professor	Non-Tenure	Fall 2026

A	Corinne Lasmezas, Ph.D. Neurosciences	Professor	Tenure	Fall 2026
A	Mahyar Nouri-Shirazi, Ph.D. Immunology	Professor	Non-Tenure	Fall 2026
A	Peter Holland, M.D. Clinical Neuroscience	Professor	Non-Tenure	Fall 2026
A	Lawrence Lottenberg, M.D. Surgery	Professor	Non-Tenure	Fall 2026
A	Lea Sacca, Ph.D. Population Health	Asst. Professor	Non-Tenure	Fall 2026
A	Michelle Retrouvey, M.D. Women's and Children's Health	Asst. Professor	Non-Tenure	Fall 2026
A	Joseph Ouslander, M.D. Geriatric Medicine	Professor	Tenure	Fall 2026
A	Maria Mejia, M.D. Population Health	Professor	Non-Tenure	Fall 2026
A	George Luck, M.D. Surgery	Associate Professor	Non-Tenure	Fall 2026
A	Michelle Lizotte- Waniewski, Ph.D. Population Health and Social Medicine	Professor	Non-Tenure	Fall 2026
A	Charles Hennekens, M.D. Population Health	Professor	Tenure	Fall 2026
A	Allison Ferris, M.D. Internal Medicine	Professor	Non-Tenure	Fall 2026
A	Michael Dobbs, M.D. Clinical Neuroscience	Professor	Tenure	Fall 2026
A	Tony Her, M.D. Anatomy	Assistant Professor	Non-Tenure	Fall 2026
A	Yingcai Wang, M.D., Ph.D. Biomedical Sciences	Research Assist. Professor	Non-Tenure	Fall 2026

*Faculty Code	Code Description	Source of Funding
A	Existing faculty on a regular line	Current Education & General Revenue
B	New faculty to be hired on a vacant line	Current Education & General Revenue
C	New faculty to be hired on a new line	New Education & General Revenue
D	Existing faculty hired on contracts/grants	Contracts/Grants
E	New faculty to be hired on contracts/grants	Contracts/Grants
F	Existing faculty on endowed lines	Philanthropy & Endowments
G	New faculty on endowed lines	Philanthropy & Endowments
H	Existing or new faculty teaching overload in addition to assigned course load	Enterprise Auxiliary Funds

Table 10 lists all full-time faculty associated with the program in Year 1 through Year 5. The following scale is used for estimation in Table 10:

- **One faculty member teaching one section of a course primarily for this program, such as teaching one of the Core courses, is projected to receive 12% reallocated annual effort.**
- **One faculty member teaching one section of an existing course with reallocation of seats from other programs, such as teaching one of the Elective courses, is projected to receive 12% annual effort.**
- **One faculty member mentoring a new student or supervising one PhD dissertation is projected to receive 12% annual effort.**
- **One faculty member serving on one of the PhD committee is projected to receive 3% annual effort.**
 - the faculty code associated with the source of funding for the position
 - faculty member's name
 - the highest degree held
 - academic discipline or specialization
 - anticipated participation start date in the proposed program
 - contract status (e.g., tenure, tenure-earning, or multi-year annual [MYA])
 - contract length in months
 - percent of annual effort that will support the proposed program (e.g., instruction, advising, supervising)

This information should be summarized below in narrative form. Additionally, provide the curriculum vitae (CV) for each identified faculty member in Appendix C.

The College of Medicine Biomedical Science Department has 28 (including research faculty) faculty currently available for this program. Graduate Faculty from clinical neurosciences, emergency medicine, medicine, population health and social medicine, surgery, and women's and children's health are available for the program. All faculty members teaching courses that are primarily design in content are qualified to teach the subject matter by virtue of professional licensure, board certification, or by education and equivalent design experience. Refer to Table 10 for existing and anticipated full-time (not visiting or adjunct) faculty who will participate in the proposed program through Year 5.

B. Provide specific evidence demonstrating that the academic unit(s) associated with the proposed program has been productive in teaching, research, and service. Such evidence may include trends over time for average course load, student headcount in major or service courses, degrees granted, external funding attracted, and other indicators of excellence (e.g., thesis, dissertation, or research supervision).

The College of Medicine Biomedical Science is very productive in terms of teaching, research and service. The College of Medicine Master of Science in Biomedical Science Program has served the needs of approximately 40-81 graduate students enrolled in the program each year since its inception in 2004. In addition to meeting the educational goals of students directly enrolled in the program, the program also serves to meet the educational goals of students across the university enrolled in a wide variety of disciplines including engineering, biology, psychology, chemistry, business, neuroscience and more. The program is also vital to the Florida community by providing a central hub of biomedical science knowledge and resources.

There are 42 students currently in the MS program, and 9 Ph.D. students in the Interactive Biology Biomedical Science track (IBBS). The College of Medicine Graduate Programs has produced an average of 35 MS degrees each year for the last five years. The faculty, consisting of 28 full time, delivers 22-25 classes each spring, summer, and fall semester.

For the 2024-2025 fiscal year, College of Medicine faculty submitted 74 grant proposals to federal, state, and local funding agencies, requesting a total of \$59,198,262. It is too soon to report on the number of awards and total funding received, given the significant delays we are experiencing from sponsors, especially at the NIH and federal level.

As of Fiscal Year 2026, (FY26), College of Medicine faculty received a total of eight (8) awards representing approximately \$5,703,588 in external funding. These awards were received or initiated during FY26; however, not all proposals were originally submitted within the same fiscal year. Specifically, one (1) award originated from an FY24 submission, three (3) from FY25 submissions, and four (4) from FY26 submissions. Additional proposals remain pending, and continued growth in externally funded research activity is anticipated throughout the remainder of FY26.

The faculty is also very active in university business through various levels of faculty committees. Some are also active in the national committees of professional associations. 70% of faculty served as reviewers for technical journals during the last academic year.

VII. Estimate of Investment

- A. Provide the tuition rate for the proposed program for resident and non-resident students.

Resident/Credit Hour	Non-Resident/Credit Hour
\$371.82	\$1125.06

If the proposed program will operate as self-supporting, market tuition rate, or establish differentiated graduate-level tuition, per [Board of Governors Regulation 8.002](#), complete Appendix F, Self-Supporting & Market Rate Tuition.

- B. Complete the summary table below.

1. Provide funding sources for Years 1 and 5 of program operation.
2. Provide headcount (HC) estimates of student enrollment for Years 1 through 5.

Projected Costs and Funding Sources

The Ph.D. in Health Science, Innovation, and Technology will leverage existing administrative, instructional, and research support existing in the College of Medicine. Graduate student stipends and tuition will be supported through a combination of internal funds and through extramural research grants awarded to College of Medicine faculty (Contracts & Grants). Programmatic expenses will be supported through reallocated Education & General (E&G) funds. No new faculty or staff positions are required to support the program.

Implementation Timeframe	HC	E&G Funds	Contracts & Grants Funds	Auxiliary Funds	Philanthropy Funds	Total Cost
Year 1	5	\$20,000	\$260,000	\$0	\$0	\$280,000
Year 2	6	\$20,000				
Year 3	8	\$20,000				
Year 4	9	\$20,000				
Year 5	10	\$20,000	\$520,000	\$0	\$0	\$540,000

C. Is the infrastructure in place to meet the new degree program requirements, such as hiring faculty and staff, curriculum development, facilities, and funding, before enrollment of students to the program?

☒ Yes

☐ No. If not, is there a plan to establish the infrastructure to support the program?
Please describe.

Year 1 Snapshot

In Year 1, total projected costs are \$280,000. Five graduate student stipends and tuition total \$260,000 (\$52,000 per doctoral student) will be supported through a combination of internal College of Medicine funds and extramural research grants. Programmatic expenses (\$20,000), including instructional materials, technology support, library resources, and seminar programming, will be supported through reallocated E&G funds. No new staff or faculty hires are required for the program.

Year 5 Snapshot

By Year 5, total projected costs increase to \$540,000. Ten graduate student stipends and tuition total \$520,000 (\$52,000 per doctoral student) will continue to be supported through a combination of internal College of Medicine funds and extramural research grants. Programmatic expenses will remain stable at \$20,000 annually and are supported through existing E&G funds. No new faculty or staff positions are required.

The Schmidt College of Medicine's has a robust external funding portfolio to support students in the program with more than \$31 million in active NIH awards alone. This will ensure a strong and sustainable foundation for graduate assistantships and research support.

VIII. Institutional Resources

A. Describe any additional library resources needed to implement and/or sustain the program through Year 5.

☒ Not applicable to this program because no additional library resources are needed to implement or sustain the proposed program.

No additional resources are being requested, as the needed materials are already in place.

B. Describe any specialized equipment and space currently available to implement and/or sustain the proposed program through Year 5.



Classrooms: Collectively, across all FAU campuses, there are 106 electronic classrooms at the Boca Raton campus. In the College of Medicine buildings BC-71 and ME -104, there are 9 classrooms that can accommodate small (10) and big (115) classes. Instruction for the program will leverage state-of-the-art electronic classrooms within the College of Medicine, including those in BC-71 and ME-104. These classrooms feature advanced technology such as HD projection screens, document cameras, and teaching podiums equipped for modern instructional methods. The COM Help IT staff provides immediate, dedicated support for all classroom technology.

Wet Laboratory BC-71 217 B: There is one wet lab classroom within the BC-71 building that can accommodate 10 students. Graduate students will utilize the wet lab classroom in BC-71 to conduct hands-on experiments for the 'Biomedical Science Core Technologies Laboratories' course.

Offices: All faculty at FAU College of Medicine are provided with personal offices where they work on manuscripts, pursue data analysis and meet with lab members, other faculty and trainees. With respect to the oversight of the PhD Health Science Innovation and Technology, there is the Office of Graduate Programs on the 2nd floor of the BC-71 building in room 209 on the Boca campus where the PhD will be supported in the educational activities are overseen.

Other Space: The Graduate Student Lounge is a dedicated space for graduate students to work independently, collaborate with peers, and foster a strong academic community. Serving a critical "third space" away from the lab, the lounge is equipped with desks, whiteboards, and a kitchenette (microwave, refrigerator, sink). This facility encourages interdisciplinary discussion and provides a supportive environment for students to sustain their research and studies throughout their demanding doctoral program.

Thus, no new office resources need to be provided for the new program.

C. Describe any additional specialized equipment or space needed to implement and/or sustain the program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space. Costs for new construction should be provided in response to Section VIII.D. below.

☒ Not applicable to this program because no new I&R costs are needed to implement or sustain the program through Year 5.

No additional classroom, research, or office space is needed. The current space is adequate for program teaching and research activities. Core and elective courses in the program are already available and are taught by FAU faculty as part of other degree programs. Active research faculty in the program currently have their own research laboratories where students from existing programs are being trained.



The Ph.D. in Health Science Innovation and Technology will be implemented using the existing research and instructional infrastructure within the FAU Schmidt College of Medicine (COM). The College maintains extensive shared research facilities that provide faculty, postdoctoral fellows, and graduate students with access to advanced instrumentation across multiple scientific domains. These facilities are centrally managed, include appropriate environmental controls and safety systems, and are fully operational with no additional costs anticipated through Year 5.

Facilities and Other Resources

Florida Atlantic University (FAU) is designated a “High Research Activity” institution according to The Carnegie Classification of Institutions of Higher Education. FAU spans six campuses located along the southeast Florida coast. The main campus in Boca Raton consists of 700 acres and 236 buildings. In alignment with its Strategic Plan (2015 – 2025), the university has outlined four pillars of research strength:

human health and disease intervention, neuroscience, ocean science/engineering, and sensing and smart systems. These pillars represent focus areas that guide institutional goals and strategic actions, and they closely reflect FAU’s existing regional and national strengths, including its coastal location, diverse population, and neighboring research institutions.

Animal Facility

FAU has multiple animal facilities on various campuses fully accredited by the American Association for Accreditation of Laboratory Animals (AAALAC). All grant proposals are reviewed by the institution to ensure that animal housing is available as proposed. The animal facilities are under the direct control and supervision of the Division of Research and Veterinary Care and the Animal Care and Use Committee. The COM animal facility is a modified barrier, vivarium that houses mice in ventilated cages within three housing rooms. Environmental parameters such as temperature, humidity, ventilation criteria and light are controlled and/or monitored via a computerized “Watchdog” system. Caging and supplies are sanitized through a rack washer and/or sterilized via an autoclave within the facility. The vivarium contains a surgical suite, a multipurpose room with a downdraft table, and several other procedure rooms. One procedure room is dedicated to BSL2 work containing a Biosafety Cabinet Type 2B. Therefore, animal biohazard level 2 (ABSL2) studies can be supported in this facility. Serviced by a dedicated animal care staff, the vivarium also contains an array of phenotyping equipment, including a Med Associates animal locomotor tracking system, Noldus behavioral mouse maze, Neurostar motorized stereotaxic system, microdialysis set up. All equipment for in vivo rodent studies proposed are available in the animal facilities suites located at FAU (Boca Raton or Jupiter campus). These include, Echocardiography machine, (Vevo 3100®, High-Resolution Imaging System, VisualSonics) for longitudinal imaging studies. The high-frequency ultrasound imaging capability of the Vevo 3100 facilitates visualization and measurement of anatomy and the quantification of physiology in small animals. B-Mode, M-Mode, and PW Doppler Mode imaging are available at real-time frame rates, besides strain and tissue Doppler analysis as well as well PV and blood pressure equipment.



Research Core Facilities

The COM provides state-of-the-art resources and shared facilities to support research activities. The following facilities are located within the College of Medicine main building on the Boca Raton campus and available for use by the faculty, staff, post docs and students.

Genomics and Bioinformatics Facility: Used by investigators who want to apply genomics technologies to their research project. Facility includes a 10x Genomics Chromium assay system, VWR epMotion 5073 liquid handling system, and Diagenode Pico Disruptor. Dedicated bioinformatics support is provided for high throughput sequencing analysis by a trained staff scientist.

Molecular Facility: Conduct molecular experiments that include but are not limited to DNA/RNA quantitation and gene expression, RT-PCR, Q-PCR, and nucleic acid analysis. Facility includes a Life Technologies Thermocycler, Agilent AriaMX Real-Time PCR System, MX300SP Stratagene QPCR, Nanodrop ND 8000 Spectrophotometer, and Agilent TapeStation and Agilent 2100 Bioanalyzer.

Imaging Facility: Provides for detection of nucleic acid and protein electrophoresis experiments. Facility includes Licor Odyssey Infrared Imager, Bio-Rad TransBlot Turbo, VWR e5430r refrigerated benchtop micro centrifuge, UVP EpiChem II Darkroom, Storm Phosphorimager and Carl Zeiss Microimaging LSM 700 Confocal Laser Scanning System.

Cell Analytics Facility: Utilize fluorescence and/or impedance based technologies to sort and evaluate properties in both fixed and living cells. Facility includes a Nanocollect Wolf G2 cell sorter, BD FACS Calibur Analyzer, Orflo Moxi Go, ACEA Biosciences xCELLigence RTCA DP system and MEA2100 system (multi microelectrode arrays).

Induced Pluripotent Stem Cell (iPSC) Facility: Managed by a trained staff scientist this facility is used to perform genome editing and differentiation of iPS cells as an advancement in stem cell research. Facility includes Sorvall Legend XIR centrifuge,

Nikon Inverted Microscope, ThermoScientific CO2 incubators, Invitrogen neon transfection system, Biological Safety Cabinets and a Revco -135.

Proteomics Facility: Investigators can conduct proteomic analysis focusing on identification of proteins and peptides and characterization of protein modifications. Facility includes FPLC, Lablanco freeze zone 4.5 plus, Bio Rad Protein Purification System and BMG LabTech CLARIOstar.

Histology Facility: Includes tissue preparation, preservation and handling to ensure high quality results. Facility includes Leica cryostat.

FAU Biostatistics Collaborative Core

The FAU Biostatistics Core provides access to high quality biostatistics support to investigators involved in health-related research. The College of Medicine also independently employs a full time Biostatistician.



FAU Brain Institute Resources

The FAU NeuroBehavior Core within the Brain Institute provides equipment and training to test rodent using automated measures of locomotor, cognitive and emotional behavior. The Core also possesses a dedicated room for monitoring rodent behavior while undergoing microdialysis and/or optogenetic stimulation. This FAU NeuroBehavior Core provides additional paradigms for testing as needed, including automated home cage testing, social behavior assessment, circadian rhythm monitoring, and metabolic monitoring.

The FAU Cell Imaging Core within the Brain Institute provides imaging services and light microscopy equipment to support scientific and clinical investigators at FAU and other institutions. Across the Boca and Jupiter campuses, the core houses five imaging systems, covering a variety of light microscopy techniques. Additionally, the core provides five powerful image data analysis workstations with advanced imaging software. Services of the FAU Cell Imaging Core include training on the equipment and experimental support. FAU's Brain Institute entered a partnership with Nikon and became one of Nikon's Centers of Excellence in 2016. Through this partnership, FAU and the Core have access to the latest optical systems (Nikon N-SIM E and

A1+R combined Super Resolution and Confocal Imaging System) and benefit from excellent support by Nikon specialists.

The Jupiter Neuroscience Campus houses neuroscientists from the Max Planck Florida Institute for Neuroscience, Scripps Florida, and Florida Atlantic University. Faculty, investigators, and students regularly organize seminars, poster sessions, training activities, symposia, and networking events to help foster collaborative exchange of scientific ideas and to increase exposure and opportunities for scientists and students.

Additional: COM has an animal locomotor tracking system, Noldus behavioral mouse maze and Neurostar motorized stereotaxic system available for use within the vivarium on the Boca campus.

Key Partnerships

FAU scientists can collaborate with prominent research organizations, such as Scripps Florida and the Max Planck Florida Institute for Neuroscience. FAU has established reciprocity agreements with these institutions, allowing FAU investigators to use their prominent core facilities at a reduced rate.

Max Plank Core Facilities

Electron Microscopy Core: FEI Tecnai transmission electron microscope, Zeiss Merlin VP Compact scanning electron microscope, High-pressure freezing system (HPM100), Automatic freeze-substitution device (AFS), Cryo-preparation system (CPC), Ultramicrotome (UC7), and a Freeze-fracture system (JFDV). The facility is also capable of Serial Block Face Scanning and Serial Automated TEM.

Microscopy Core: Zeiss LSM 780 confocal system, Leica SP5 II resonant confocal system, and a Prairie Moving In Vivo Multiphoton system.

Mechanical Workshop: The Mechanical Workshop designs and builds commercially



unavailable equipment and customizes existing tools for use in novel research methods by MPFI scientists. The Mechanical Workshop features a 5-axis high-speed CNC milling machine and a 3+2-axis CNC milling machine.

Scripps Florida Core Facilities

Flow Cytometry Core: BD FACSAria3, BD FACSAria Fusion, BD LSR2, Beckman Coulter Gallios, BD Canto, LCM microscope, Hemavet 950FS, BD 12x75mm tube with cell strainer cap, and LEICA LMD 7000.

Genomics Core: Illumina NextSeq500, ABI SOLID5500 and EZ Bead system, Ion Torrent Personal Genome Machine, Ion Torrent Proton, Affymetrix GeneChip System, Quantitative RT-PCR: a Roche Light Cycler 480 instrument and an Applied Biosystems A Step One Plus instrument, Agilent 2100 Bioanalyzer and TapeStation 2200, and a Hamilton Microlab STARlet Robotic Liquid Handler Unit.

High-Throughput Screening: This center includes a dedicated Agilent 1200 series LCMS with multimode mass spectrometry (ES, APCI, ELSD) dedicated for quality control of incoming HTS compound libraries and hit confirmation efforts.

Microbiology: This lab is equipped with Class II hoods, refrigerators and freezer storage, bulk reagent dispensing, microplate reading and is even capable of HTS screening BSL-2 organisms in 1536-well microplates. For molecular research PCR machines and post-PCR equipment is available allowing for cloning and expression work to be done. For large scale protein purification there is an Akta FPLC installed inside a double glass door refrigerator. Time kill and bacteria kinetic assays are

facilitated by Spiral Biotech spiral platers and Qcount imaging colony counters. We have cutting edge imaging apparatus to allow visual inspection of membrane active compounds and have implemented one of the most advanced and sensitive methods for the early detection of anti-proliferative effects by inhibitors.

Histology: The Scripps Florida Histology Core (SFHC) is equipped with the appropriate ventilated working areas and equipment to prepare, process and stain frozen or paraffin embedded specimens. The Histology Core contains the following instrumentation: VIP Tissue Processor, BIOCARE NxGen Decloaking Chamber, Rotary Microtome, Staining Center, Leica Cryostat, and Zeiss Axio Microscope/Camera Software.

Metabolic Core: The metabolic core includes: Seahorse XF Pro, CLAMS units, Minispec

LF-50/mq 7.5 NMR (Bruker Optics) analyzer, BioDAQ system (Research Diets), Metabolic Cages (Tecniplast), DSI Telemetry Systems (Data Sciences International), MC4000 blood pressure and heart rate analyzer for mice (Tailcuff method, Hatteras Instruments), Mouse Ox Plus Vital signs monitor (Starr Life Sciences). Laboratory Tests and Instrumentation: The Cobas c311 clinical chemistry analyzer (Roche Diagnostics), a GM7 analyzer (Analox instruments), a Luminex 200 (Luminex Corporation), 24 and 96-wells Sea Horse analyzers (SeaHorse Biosciences), and an AR-2000 radio-TLC Imaging Scanner (Eckert & Ziegler).

Nuclear Magnetic Resonance (NMR): Instrumentation includes three Bruker nuclear magnetic resonance instruments, two Avance 400 MHz ULTRASHield instruments and one Avance III 700 MHz ULTRASHield instrument. The machines run 24 hours a day, 365 days of the year and are fully equipped to run multi-nuclear 1D and 2D experiments, with both direct and indirect detection for a variety of nuclei.



Proteomics and Mass Spectrometry: The core includes: ThermoQ Exactive with Thermo Easy-nLC 1000 Liquid Chromatograph, Thermo LTQ Orbitrap with Eksigent NanoLC Ultra, Thermo LTQ-ETD with Agilent HP1100, Bruker MALDI-ToF (MicroFlex), Agilent 1100 with UV and fraction collector HPLC, TA Nano Isothermal Titration Calorimeter (ITC).

X-Ray Crystallography Core Facility: The core includes: Minstrel III, RoboIncubators, Leica stereomicroscope, Gryphon Crystallization Robot, Bruker AXS Smart APEX CCD diffraction system, Rigaku MicroMax-007 HFM X-ray generator with a VariMax HR optics and an X-Stream 2000 crystal cryo-freezing system, Mar345dtb image plate detector, and Proteros Free Mounting System (FMS).

Summary

All listed equipment and core facilities are fully available for Ph.D. student use following standard training and access procedures managed by facility directors. The College's research infrastructure already supports advanced experimental work in molecular biology, biomedical engineering, neuroscience, and translational health science—precisely the domains encompassed by the proposed program.

Accordingly, no additional specialized equipment, laboratory renovations, or new construction is required through Year 5. The existing shared research environment provides all necessary capacity to sustain the instructional and research needs of the Ph.D. in Health Science Innovation and Technology.

D. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university's fixed capital outlay priority list. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase due to the program, describe and estimate those expenses below. High enrollment programs, in particular, are expected to necessitate increased costs in non-I&R activities.

☒ Not applicable to this program because no new capital expenditures are needed to implement or sustain the program through Year 5.

No new capital expenditure is anticipated, and levels of enrollment are not expected to lead to increased costs in non-I&R activities.

E. Describe any additional special categories of resources needed to operate the proposed program through Year 5, such as access to proprietary research facilities, specialized services, or extended travel.

☒ Not applicable to this program because no additional special categories of resources are needed to implement or sustain the program through Year 5.



There are no additional special categories of resources needed to implement the program through year 5.

F. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5.

☐ Not applicable to this program because no fellowships, scholarships, and/or graduate assistantships will be allocated to the proposed program through Year 5.

Fellowships, Scholarships, and Graduate Assistantships

In Year 1, Five graduate student stipends and tuition total \$260,000 (\$52,000 per doctoral student) will be supported through a combination of internal College of Medicine funds and extramural research grants. Each doctoral student will receive an annual stipend of \$30,000, distributed across the Fall, Spring, and Summer semesters. No institutional fellowships or scholarships are anticipated during Year 1.

By Year 5, the program anticipates supporting ten graduate students stipends and tuition total \$520,000 through a combination of internal College of Medicine funds and extramural research grants. No institutional fellowships or scholarships are anticipated at Year 5.

This model leverages the College's strong external funding base, which currently exceeds \$31 million in active NIH awards, ensuring sustainable trainee support. As the Ph.D. in Health Science Innovation and Technology matures, the research output and interdisciplinary collaborations fostered by this program are expected to further expand opportunities for externally funded graduate assistantships.

IX. Required Appendices

Appendices

Appendix A: Consultant's Report Hanover Research Academic Program Assessment

Appendix B: Letters of Support or MOUs from Other Academic Units

Appendix C: Faculty Curriculum Vitae

Appendix D: Letters of Support for the Program from other Universities and Employers

Appendix E: Graduate Student Feedback Surveys

Appendix A

Doctoral Program Proposal Consultant's Report and Response

Instructions:

According to Board of Governors Regulation 8.011, Academic Degree Program Coordination and Approval, all institutions requesting Board of Governors' approval for a new doctoral-level program are required to submit a formal written review of the proposal by a qualified external academic consultant or a cross-section of experts. Institutions must submit a copy of the written review and a summary document describing how feedback was incorporated into the proposal or why feedback was not addressed. The consultant's report and institutional response format shall be determined by the individual institution submitting the proposal; however, both the review and the institutional response must be present and clearly identified.

Name of Consultant:	Geoffrey Gresk MPH, PhD
Affiliation:	Hanover Research
Qualification/Area of Expertise:	External academic program evaluation, higher education market analysis, labor market analysis, doctoral program benchmarking, and demand forecasting
Date of Review:	April 2023

In the space provided below, please list the recommendations provided by the external consultant and explain how those recommendations were or were not incorporated into the proposal. For recommendations that were not included, provide an explanation.

Recommendations (Page 3 of the Hanover Academic Program Assessment Report)

Based on an analysis of degree completions, labor market demand, and market competitors, Hanover recommends that Florida Atlantic University (FAU):

1.Proceed with Developing the Doctoral Program.

Recent degree conferral trends demonstrate strong demand for doctoral programs like FAU's proposed program in "health sciences innovation and technology". Additionally, labor demand for health sciences technology developers, instructors, and leaders is projected to grow as new technologies are used to respond to preexisting and emerging threats to human health. Currently, there are few direct competitors for FAU's proposed program, though institutions offering related programs with bioengineering-, bioinformatics-, or biomedical technology-focus instead. In structuring its new program, FAU should embed numerous research and hands-on learning experiences to help students become

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February 5, 2026

Page 2 of 2

familiar with current technologies and gain the necessary experience to improve upon them. Also, FAU should aim the program at working professionals and recent graduates from a wide range of professional and academic backgrounds who are seeking a strong foundation in cutting edge health sciences technologies.

2. Consider Including Highly Searched Terms in the Program Title and Description.

In the absence of consistent naming trends among benchmarked programs, FAU should use a combination of highly searched terms in naming and describing the new doctoral program. Integrating popular search terms can help increase the visibility of FAU'S new program on internet searches. By average monthly search volume, the top keywords to incorporate are "health sciences", "technology", and "research", and using additional keywords like "innovation" may attract some attention but is likely to need explanation of its application to the program coursework and outcomes.

3. Provide Flexible Delivery Options.

Few competitors feature flexible delivery options, giving FAU the opportunity to further differentiation in the national market. Offering distance delivery may extend FAU's reach to a national audience. Additionally, part-time enrollment and evening courses may be attractive to busy working professionals looking to gain additional education and experience.



ACADEMIC PROGRAM ASSESSMENT

PhD in Health Sciences
Innovation and Technology

Prepared for Florida Atlantic
University

April 2023

In the following report, Hanover Research (Hanover) assesses demand for doctorate degree programs in Health Sciences Innovation and Technology, specifically highlighting demand trends within the United States. This report includes an examination of student and labor market demand, and an analysis of potential competitor programs.



TABLE OF CONTENTS

- 3** / Executive Summary
- 5** / Student Demand Analysis
- 6** / Program Naming Analysis
- 7** / Labor Market Analysis
- 8** / Real-Time Job Postings Intelligence
- 9** / Competitor Analysis
- 10**/ Program Trends
- 13**/ Program Benchmarking

EXECUTIVE SUMMARY

RECOMMENDATIONS

Based on an analysis of degree completions, labor market demand, and market competitors, Hanover recommends that Florida Atlantic University (FAU):



PROCEED WITH DEVELOPING THE DOCTORAL PROGRAM.

Recent degree conferral trends demonstrate strong demand for doctoral programs like FAU's proposed program in "health sciences innovation and technology". Additionally, labor demand for health sciences technology developers, instructors, and leaders is projected to grow as new technologies are used to respond to preexisting and emerging threats to human health. Currently, there are few direct competitors for FAU's proposed program, though institutions offering related programs with bioengineering-, bioinformatics-, or biomedical technology-focus instead. In structuring its new program, FAU should embed numerous research and hands-on learning experiences to help students become familiar with current technologies and gain the necessary experience to improve upon them. Also, FAU should aim the program at working professionals and recent graduates from a wide range of professional and academic backgrounds who are seeking a strong foundation in cutting edge health sciences technologies.



CONSIDER INCLUDING HIGHLY SEARCHED TERMS IN THE PROGRAM TITLE AND DESCRIPTION.

In the absence of consistent naming trends among benchmarked programs, FAU should use a combination of highly searched terms in naming and describing the new doctoral program. Integrating popular search terms can help increase the visibility of FAU'S new program on internet searches. By average monthly search volume, the top keywords to incorporate are "health sciences", "technology", and "research", and using additional keywords like "innovation" may attract some attention but is likely to need explanation of its application to the program coursework and outcomes.



PROVIDE FLEXIBLE DELIVERY OPTIONS.

Few competitors feature flexible delivery options, giving FAU the opportunity to further differentiation in the national market. Offering distance delivery may extend FAU's reach to a national audience. Additionally, part-time enrollment and evening courses may be attractive to busy working professionals looking to gain additional education and experience.

EXECUTIVE SUMMARY

KEY FINDINGS

Student demand for related doctoral programs appears to be increasing in the United States. Several related degree fields reported strong doctoral conferral trends from 2017 to 2021. Review of secondary literature and industry reports indicates that the demand for programs to train competent innovators, instructors, and leaders in health sciences technology is likely to rise as more health services rely on technological advancements to streamline and enhance treatments. In another indicator of the recognition and growth of healthcare innovation and technology-related programs, the National Center for Education Statistics (NCES) introduced a new Classification of Instructional Programs (CIP) code in 2020 for *Healthcare Innovation*, although institutions are yet to report conferrals under this code.

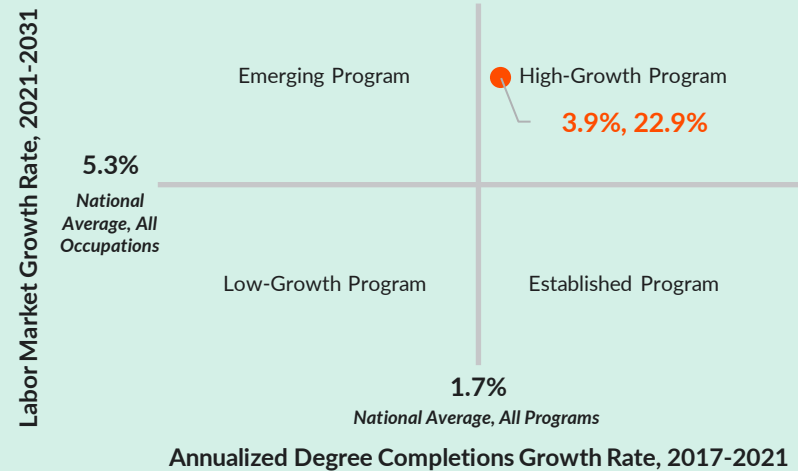
Overall labor demand is favorable for related health and medical occupations in the United States. Industry reports indicate that technology “plays a large role in the Healthcare and Social Assistance sector and is expected to continue to redefine many facets of healthcare over the coming years.” Demand for health care leaders who can develop, implement or instruct others in the use of new technology is likely to remain strong over the next decade.

Search engine data indicates FAU’s program may receive more internet traffic if it includes highly searched terms in its program title or description. Although the proposed title “*health sciences innovation and technology*” displayed low search volume, the average monthly search volume was highest for keywords such as “health sciences”, “technology” and “research”.

Benchmarked institutions display great variety in both target audience and career outcomes. Spanning diverse academic, professional, and learning outcomes, the target audience varies by each individual program. Additionally, most programs include general occupational settings and roles rather than specific occupation titles for occupational outcomes.

NATIONAL BENCHMARK ANALYSIS

Comparison of PhD in Health Sciences Innovation and Technology completions and relevant labor market to all completions and all occupations in the United States.



FAST FACTS



622

Recent job postings which emphasize “innovation” in the United States for graduates of closely related degree fields.



4 of 8

Benchmarked programs specify 100% on campus delivery; ASU includes both on-campus and online program delivery.



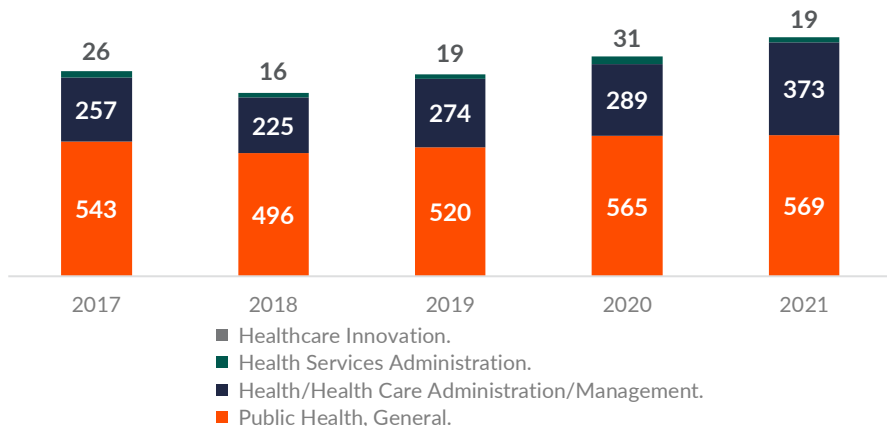
2 of 8

Reviewed programs require practical learning experiences like internships, or practicum

STUDENT DEMAND ANALYSIS

NATIONAL DEGREE COMPLETIONS

Distribution of degree completions in the United States from 2017-2021



TOTAL DEGREE COMPLETIONS

Aggregate degree completions by geographic level (2021)

	Florida	Southeast	United States
Public Health, General.	47	152	569
Health/Health Care Administration/Management.	3	105	373
Health Services Administration.	0	1	19
Healthcare Innovation.	0	0	--
Total Completions, Observed Fields	50	258	961
Growth Rate, Observed Fields	4.5%	6.2%	3.9%
Growth Rate, All Fields	-0.7%	1.9%	1.7%

Source: [IPEDS](#)

ANALYSIS

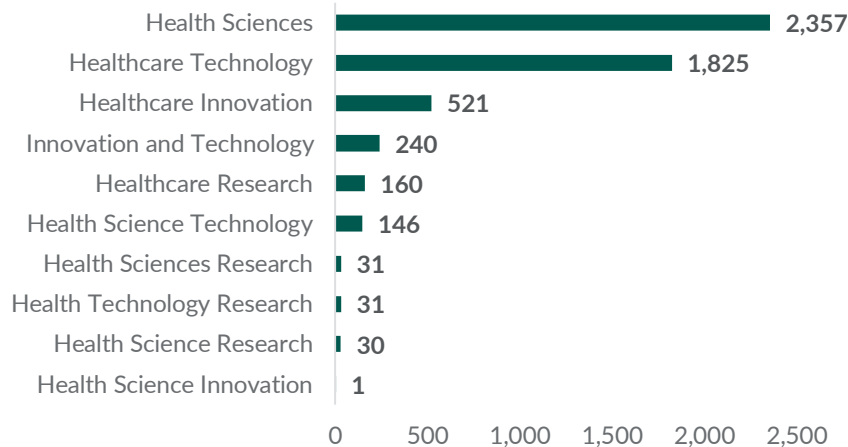
There is strong student demand for doctoral programs in related degree fields in the United States. In absence of direct conferral data for “health sciences innovation and technology” programs, Hanover examined several related degree fields to assess probable student demand in the United States. The closest related field, *Healthcare Innovation*, is a recent addition to the [Classification of Instructional Programs](#) (CIP) codes for the National Center for Education Statistics (NCES), which is likely the cause of the lack of reported conferrals from 2017 to 2021. Conferral trends for proximate fields suggest strong student demand for related doctoral programs in the United States, especially for programs with emphasis in *Health/Health Care Administration/Management* (9.8 percent annualized conferral growth from 2017 to 2021) and *Public Health, General* (1.2 percent growth).

Demand for technology-focused health sciences degree programs is likely to increase in the United States. As the role of advanced technology increases in the health services industry, organizations will need [competent operators and leaders](#) who can “fuse talent and health care workforce technology” to capitalize on opportunities for “great leaps in efficiency and engagement.” Deloitte 2017 Human Capital Trends report indicates that although 33 percent of health care providers “consider it a priority to train employees so they can work side by side with robots and AI, none have made significant progress in adopting these technologies.” A [2022 Ibisworld.com report](#) further explains that the introduction of new technologies, methods, and approaches have a low level of disruption upon on the existing workforce as a result of the high degree continuing education and training regularly required in the industry. Given the recent trends and projections regarding technology in healthcare, the demand for degree programs that train competent innovators, instructors, and leaders to develop, introduce, and oversee the proper use of advanced technologies is likely to grow in the United States.

PROGRAM NAMING ANALYSIS

SEARCH VOLUME BY SEARCH TERM

Specific monthly search volume for each related search term

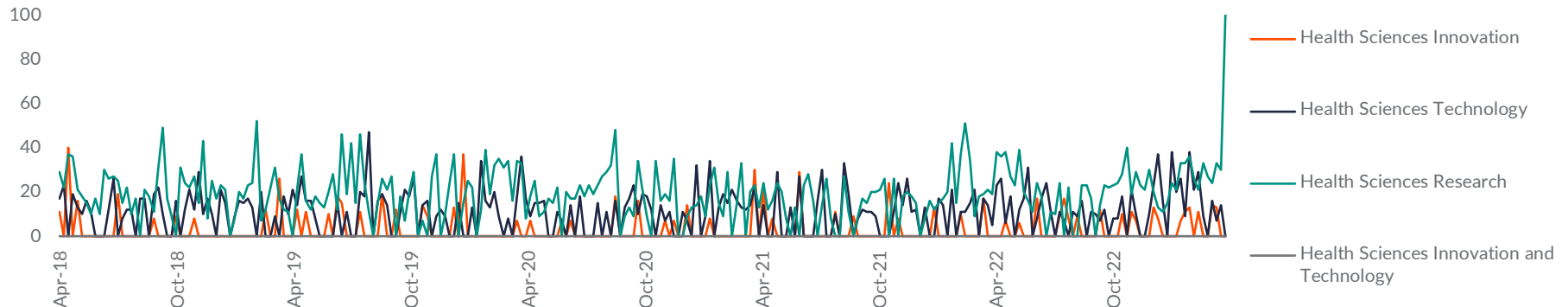


ANALYSIS

Search engine analytics suggest that FAU should use terms such as “health sciences,” “technology,” and “research” in its program title and description. Neither [Moz.com](https://moz.com) nor Google Trends report high search volume for “Health Sciences Innovation and Technology” or program names of benchmarked competitors. To understand how FAU can best increase the program’s visibility based on search demand, Hanover identified monthly search volumes for search terms related to the primary foci the proposed program. An analysis of related search terms indicates that “health sciences,” “technology,” and “research” have the most monthly searches, suggesting FAU would likely receive more online traffic to its new program site if it included one or a combination of these search terms in its program title or description.

SEARCH INTEREST INDEX OVER TIME

Relative health sciences innovation and technology-related search interest volume by keyword/phrase over the past five years

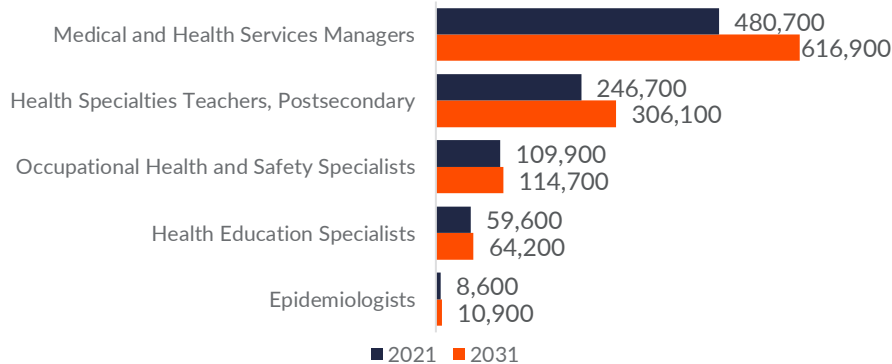


Note: For this analysis, Hanover retrieved search engine analytics data from [MOZ.com](https://moz.com), a proprietary search engine optimization (SEO) firm. These data reflect the “actual” average keyword search volume in the United States over the past 12 months as of March 2023. Hanover supplements this data with [Google Trends](https://trends.google.com)’ “Interest over time” metric, whereby “numbers represent search interest relative to the highest point on the chart for the given region and time. A value of 100 is the peak popularity for the term.” Note that Google search trends use a “rounded” average, and should be considered with caution.

LABOR MARKET ANALYSIS

NATIONAL CURRENT AND PROJECTED EMPLOYMENT

National Health Sciences Innovation and Technology-related positions as of 2021 and 2031 (projected)



TOTAL LABOR MARKET

Aggregate projected employment growth by geographic level

	Florida	Southeast	United States
Estimated Current Employment	48,005	201,403	905,500
Projected 10-Year Employment	65,726	257,954	1,112,800
Total Annual Openings, Observed Occupations	6,206	23,813	105,400
Employment Growth, Observed Occupations	36.9%	28.1%	22.9%
Employment Growth, All Occupations	17.2%	11.2%	5.3%

Sources: [JobsEQ](#) and [BLS](#)

Note: State and regional employment data come from JobsEQ and reflect the period from 2022 to 2032, whereas national data come from the BLS and reflect the period from 2021 to 2031.

ANALYSIS

Labor demand for medical- and health-related occupations is projected to increase over the next decade. Employment for reviewed occupations is expected to rise substantially in the United States through 2031, especially as the growing number of elderly in the nation require access to health care services. [Health Specialties Teachers, Postsecondary](#) positions typically require a doctorate for employment, few [Health Education Specialists](#) and [Epidemiologist](#) positions may require an advanced degree. Overall, program graduates with health IT and informatics systems training, experience in leadership or as instructors, and those who can contribute to health promotion and general public health efforts will likely be able to find employment in the United States.

The widespread benefit of advancing health sciences technology is likely to keep demand high for innovators, instructors, and operators. [Industry reports](#) indicate that innovations in health services technology “play a large role in the Healthcare and Social Assistance sector and is expected to continue to redefine many facets of healthcare over the coming years.” Investment in new technology is likely to remain a priority, as they often “reduce costs, improve operational efficiencies, increase access to previously underserved populations and improve care overall.” The chart below includes several key areas which recently benefited from technological advancements:

Electronic Health Records

Streamlines patient treatment process

Telemedicine

Remote examinations, expedites treatment process

Connected Devices

Wireless transmission of patient data for immediacy of patient care

Microinstrumentation

Among many related technologies which increase surgical precision and reduce

Artificial Intelligence

Automate routine tasks, and increase precision of diagnostic process

Surgical Techniques

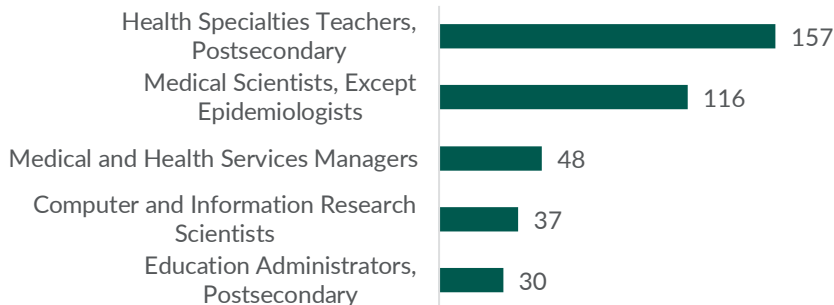
Hardware
Pharmaceuticals
Anesthesia



REAL-TIME JOB POSTINGS INTELLIGENCE

TOP HEALTH SCIENCES INNOVATION AND TECHNOLOGY-RELATED OCCUPATIONS

National Health Sciences Innovation and Technology-related positions by occupation.



EXEMPLARY NATIONAL JOB POSTINGS

Employer	Location	Skills and Requirements
Division Chief, Health System Innovation and Research		
University of Utah	Salt Lake City, UT	- PhD, MD, or equivalent - Leadership experience, successful mentoring and/or teaching, research experience with peer-reviewed extramural funding
Director of Research and Evaluation		
University of South Carolina	Columbia, SC	- Terminal degree in public health, health services research, health policy, or related 5+ years experience in leadership roles and procurement of contract/grant research funding - Management, budgeting and fiscal skills

Note: For this analysis, Hanover retrieved job postings data for positions in the United States requesting applicants from epidemiology, public health, and health services doctoral programs which mention the term “innovation” from [JobsEQ](#), a proprietary database providing real-time job postings aggregated from thousands of websites. All data reflect the prior six-month period as of March 2023.

ANALYSIS

Recent job postings reveal a strong job market for PhD graduates of health sciences innovation and technology-related programs. Employers in the United States posted over 620 job listings for graduates of related programs. Most openings are in faculty, research, and leadership positions for academic institutions and health care-related organizations. Applicants with prior management or leadership experience may be more attractive candidates for employment. Furthermore, based on top requested degree fields, employers may prefer graduates from programs which emphasize public health, epidemiology, statistics or biostatistics.

TOP REQUESTED PROGRAMS AND HARD SKILLS

Top Requested Programs

- Public Health (377)
- Epidemiology (306)
- Statistics (127)
- Biostatistics (105)
- Economics (80)
- Health Services (75)
- Psychology (62)
- Computer Science (60)
- Quantitative (59)
- Medicine (58)

Top Requested Hard Skills

- Statistical Analysis System (SAS) (146)
- Teaching/Training, School (146)
- Public Health (140)
- Statistics (111)
- Data Analysis (88)
- Structured Query Language (SQL) (80)
- Python (72)
- Clinical Research (70)

TOP NATIONAL EMPLOYERS

Elevance Health (31)	ICF (14)	University of Kentucky (11)
United Health Group (28)	Johnson & Johnson (14)	Emory University (9)
Morehouse School Of Medicine (17)	University of Colorado (11)	ICF International (9)

COMPETITOR ANALYSIS

ANALYSIS

National conditions demonstrate a favorable market for the proposed doctoral program. Recent conferral trends suggest stronger-than-average student demand across each reviewed geography for related degree fields, especially *Health/Health Care Administration/Management*. Additionally, few existing offerings feature the same emphasis as the proposed doctoral program, giving FAU the unique opportunity to be a frontrunner in the “health sciences technology innovation” field.

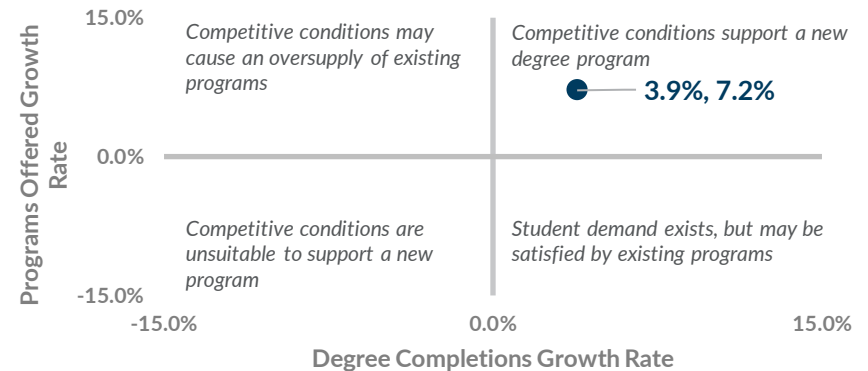
To provide FAU with an overview of the competitive landscape, Hanover examined eight programs with health sciences innovation and technology-related doctoral programs, prioritizing competitors which emphasize innovation, technology, and expansive research coursework.

BENCHMARKED PROGRAMS

Institution	Program	Location
Arizona State University	Nursing and Healthcare Innovation, PhD	Tempe, AZ
Clemson University	Applied Health Research & Evaluation, PhD	Clemson, SC
Johns Hopkins University	Health Policy and Management, PhD	Baltimore, MD
North Carolina Agricultural and Technical State University	Applied Science & Technology, PhD	Greensboro, NC
Northeastern University	Personal Health Informatics, PhD	Boston, MA
Northwestern University	Health Sciences Integrated Program, PhD	Evanston, IL
University of Colorado	Health Services Research, PhD	Aurora, CO
University of Michigan	Health Infrastructures & Learning Systems, PhD	Ann Arbor, MI

NATIONAL MARKET SATURATION

Within the United States, do competitive conditions support an additional PhD in Health Sciences Innovation and Technology-related program?



PROGRAM TRENDS – DELIVERY AND ENROLLMENT OPTIONS

PROGRAM DELIVERY AND ENROLLMENT

On-campus delivery is the most common delivery option for reviewed doctoral programs. Four institutions specify on-campus delivery for benchmarked programs, and only [Arizona State University](#)'s (ASU) program features both on-campus and online delivery options. [North Carolina Agricultural and Technical State University](#) (NCAT), [Northeastern University](#) (Northeastern), [University of Michigan](#) (UM) do not list program delivery options.

Few institutions describe program enrollment options. Of eight reviewed programs, only three describe full- or part-time enrollment options. Only [Clemson University](#) allows students to choose between full- and part-time enrollment and includes the possibility of evening courses for first year students.

				
Face-to-Face on campus or Synchronous online sessions For all students: A week of in-person, on-site immersion is required at the beginning of each fall and spring semester	<u>On-campus</u> First year courses delivered in the evening at the University Center Greenville <u>Full- and part-time</u> enrollment available	<u>On-campus</u> on the CU Anschutz campus Some courses may use “internet enhancement” or may <u>blend on-campus and online delivery</u>	<u>On-campus</u> <u>Full-time</u>	<u>On-campus</u> <u>Full-time</u>

PROGRAM TRENDS – CURRICULAR COMPONENTS

RESEARCH COURSEWORK

No analyzed programs offer full research tracks, but each include different research coursework requirements. Varying in number, type, and by requirement, each program provides student's the opportunity to complete research coursework. The chart below describes the main research components for benchmarked programs:

Arizona State University	Three research or substantive elective course options
Clemson University	Research Core Courses Ex: Health Research- "Design and Management" and Qualitative and Mixed Methods"
Johns Hopkins University	Research and Proposal Writing Process required Concentration track research courses include "Advanced research evaluation and methods" and "specialty studies and Research in HPM" courses
North Carolina A&T	Foundations of Scientific Research core course Individual concentrations include : "Research Methods for Tech. Management" and "STEM Education Research Specialization"
Northeastern University	Empirical Research Methods for Human Computer Interaction course Two research electives from the PHI electives list
Northwestern University	One required research design course Concentration tracks "Applied Qualitative Methods and Analysis for Health Researchers" elective
University of Colorado	Four courses : Clinical Research Seminar, Methods in Health Service Research I-II, Foundations in Health Services Research
University of Michigan	Evaluation and Research Methods for Health Informatics and Learning Systems

EXPERIENTIAL LEARNING

Required experiential learning opportunities are rare among examined programs. [ASU](#) and [Northeastern](#) are the only institutions to require experiential learning, and three other reviewed programs encourage students to complete hands-on learning experiences. Additionally, [University of Colorado's](#), [University of Michigan's](#) and [NCAT's](#) programs do not mention any experiential learning requirements.



Arizona State University

[Two Research Practicum](#) courses required:
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.



Northeastern University

[User-interface practicum](#) required
[Curriculum incorporates experiential learning](#) that immerses students in Boston's top medical and healthcare institutions

OPTIONAL EXPERIENTIAL LEARNING



Clemson University

[Cognate courses can be enhanced through internships](#) at an appropriate research setting in public, private, or government organizations.



Johns Hopkins University

[Research practica and internships](#) are encouraged and facilitated



Northwestern University

[One-quarter Instructional Experience](#) required

PROGRAM TRENDS – TARGET AUDIENCE AND OUTCOMES

TARGET AUDIENCE

Reviewed programs include those seeking specific educational experiences and competencies, as well as students from a range of academic and professional backgrounds as their target audience. Specified target audiences vary by individual offering, with most programs describing students who seek educational experiences unique to the individual program. The chart below summarizes the main characteristics of each analyzed program's target audience:

Arizona State University

Students with nursing backgrounds or from related disciplines

Clemson University

- Skills: research design, mixed-methods, data science, and quantitative methods
- Careers: academia, industry, non-profits and government

Johns Hopkins University

Students looking to obtain a foundation in health policy management

North Carolina A&T

- Degree Level: Bachelor's or advanced
- Background: Science, technology, engineering, math (STEM) or related disciplines

Northeastern University

- Background: Technical or Healthcare
- Skills: Research and evaluation skills for health technologies to develop and deploy prototypes for improving care

Northwestern University

Students who wish to conduct research that addresses processes and methodologies in clinical and population sciences

University of Colorado

Students interested in learning applied research in health care organization, financing, and policy

University of Michigan

Students from a wide variety of academic and professional backgrounds:

- Health, Technology, Computing, Policy Behavioral and Social Sciences

CAREER OUTCOMES

Most benchmarked programs describe general occupational settings for graduates. Only [University of Colorado](#) lists sample career titles for program graduates, while most others provide position types in broad occupational settings. [Northwestern University](#) is the only institution not to include career outcomes for the reviewed degree program.



Occupational Settings

- Hospitals and Healthcare Organizations
- State and Federal Agencies
- Private research and evaluation firms
- Community settings
- Academia



Positions

- Research scientists
- Academic leadership
- Technology careers: Invent, prototype, and evaluate health technologies



Sample Careers

- Program analyst
- Research director
- Health Services Researcher

PROGRAM BENCHMARKING

Institution	Program	Delivery and Enrollment Options	Target Audience	Career Outcomes	Experiential Learning	Research Coursework
Arizona State University College of Nursing and Health Innovation	Nursing and Healthcare Innovation, PhD	• On-campus, online (synchronous) • A week of on-site immersion required at the beginning of each fall/spring semester	Students with nursing backgrounds as well as students from other related disciplines	Academic settings or Research or leadership positions in: • Corporate hospital systems • Clinics • Healthcare organizations	Two research practicum courses required	Three research or elective course options
Clemson University College of Behavioral, Social and Health Sciences	Applied Health Research & Evaluation, PhD	• On-campus (first year courses delivered in the evening at the University Center Greenville) • Full- and part-time enrollment available	Students seeking: • Research skills and experience to address real-world problems • Advanced skills in research design, mixed-methods, data science, and quantitative methods • Careers in academia, industry, government, and non-profits	Graduates are highly employable in: • State and federal agencies • Private research and evaluation firms • Health delivery systems • Academia	Cognate courses can be enhanced through internships at an appropriate research setting in public, private, or government organizations	Research core courses (30 cr.)
Johns Hopkins University School of Public Health	Health Policy and Management, PhD	• On-campus • Full-time	Students who wish to obtain a foundation in health policy management while specializing in one of the program concentration areas	Graduate pursue research careers in: • Top-tier universities • Research and policy-making organizations • Health care industry • Government agencies	Research practica and internships are encouraged and facilitated	Requirements for all PhD students: • Two core research writing and process courses • Two research projects Additional research courses available for individual concentrations

Sources: Institutional websites (see embedded hyperlinks)

PROGRAM BENCHMARKING

Institution	Program	Delivery and Enrollment Options	Target Audience	Career Outcomes	Experiential Learning	Research Coursework
North Carolina Agricultural and Technical State University <i>College of Science and Technology</i>	Applied Science & Technology, PhD	On-campus	Graduates of bachelor's or higher in science, technology, engineering, math (STEM) or related disciplines	Science and technology careers in industry, research, and government	--	• One required research course • Concentration-specific research courses available
Northeastern University Joint program between College of Computer Sciences and College of Health Sciences	Personal Health Informatics, PhD	On-campus	• Technical students seeking experience in the deployment and evaluation of health technologies • Students with health backgrounds seeking technical skills needed to prototype and assess creative ideas for improving care	Graduates equipped to invent , prototype, evaluate, and share broadly the next generation of personal health informatics technologies	• User-interface practicum required • Incorporates experiential learning that immerses students in Boston's top medical and healthcare institutions, often studying at-risk populations of urban residents	Research electives (8 cr.) selected based on research interest from the personal health informatics electives list
Northwestern University <i>School of Medicine</i>	Health Sciences Integrated Program, PhD	• On-campus • Full-time	Students who wish to focus on research that addresses processes and methodologies in clinical and population sciences	--	One-quarter Instructional Experience required	• Core research design courses • Additional research courses available by concentration

Sources: Institutional websites (see embedded hyperlinks)

PROGRAM BENCHMARKING

Institution	Program	Delivery and Enrollment Options	Target Audience	Career Outcomes	Experiential Learning	Research Coursework
University of Colorado School of Public Health	Health Services Research, PhD	• On-campus (CU Anschutz campus) • Some courses may use “internet enhancement” or may blend on-campus and online delivery	• Designed for students interested in research • Students interested in learning applied research in health care organization, financing, and policy	Sample careers: • Program analyst • Research director • Health Services Researcher	--	Research-related courses (9 cr.)
University of Michigan Medical School Department of Learning Health Sciences	Health Infrastructures & Learning Systems, PhD	On-campus	Students with a wide range of health care and professional experiences excel in the HILS program, including: • Health Sciences/Health Professions • Information • Computing • Engineering • Behavioral and Social Sciences • Organizational and Policy Sciences • Working Professionals	Graduates can go into academia, industry or governmental work as scientists conducting research and leading change initiatives in health care and community settings	--	• Research methods/advanced research methods courses • Faculty on projects related to student's focal area

Sources: Institutional websites (see embedded hyperlinks)



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June 24, 2025

Curriculum Vitae
Randy Dean Blakely, Ph.D.

Stiles-Nicholson Brain Institute
Rm 208G, MC-22
Florida Atlantic University
Jupiter, FL 33458
rblakely@health.fau.edu
<http://www.blakelylab.org>

BIRTHPLACE

Columbus, Georgia (Feb 6, 1959)

EDUCATION

High School

Jordan Vocational High School, Columbus, GA, *Valedictorian* 1973-1977

Undergraduate

Emory University, Atlanta, GA 1977-1981
Major: Philosophy *summa cum laude*: Thesis Advisor, James Gouinlock
Minors: Physics, Chemistry

Undergraduate Research:

James Herndon, Yerkes Regional Primate Research Center
Endocrinology and Primate Social Behavior

Raymond DuVarney, Ph.D. Department of Physics
Microcomputer Amperometry Interface Fabrication

Joseph Justice, Ph.D., Department of Chemistry, and Daryll Neill, Ph.D., Department of Psychology
In Vivo Neurochemical Analysis of Psychotropic Drug Action

Aegean School of Classical Studies, Paros, Greece 1980

Graduate Training

Emory University, Atlanta, GA 1981-1983

Master's Program, Department of Biology

Cold Spring Harbor 1982
Advanced Neuroanatomical Techniques Short Course

The Johns Hopkins Univ. School of Medicine, Baltimore, MD 1983-1987
Doctoral Program in Neuroscience:
Ph.D. Thesis Advisor: Joseph T. Coyle, M.D.
Thesis: *The Neurobiology of N-acetyl-aspartyl-glutamate (NAAG)*

Postdoctoral Training

HHMI/Yale University School of Medicine, New Haven, CT 1987-1990
Postdoctoral Advisor: Dr. Susan Amara
Research Topic: *Expression Cloning of Neurotransmitter Transporters*

PROFESSIONAL APPOINTMENTS

Assistant Professor, Anatomy and Cell Biology, Emory Univ. SOM	1990-1994
Assistant Professor of Psychiatry and Behavioral Sciences, Emory Univ. SOM	1993-1994
Assistant Professor of Physiology, Emory Univ. SOM	1993-1994
Associate Professor of Anatomy and Cell Biology, Emory Univ. SOM	1994-1995
Associate Professor of Pharmacology, Vanderbilt University SOM	1995-1998
Director, Vanderbilt Center for Molecular Neuroscience	1996-2011
Professor of Pharmacology, Vanderbilt University SOM	1998-2016
Director, NIMH Cellular & Molecular Neuroscience Training Program	1999-2001
Director, Vanderbilt/NIMH Postdoctoral Training Program in Functional Neurogenomics	2002-2016
Professor of Psychiatry, Vanderbilt School of Medicine	2004-2016
Director, Vanderbilt Brain Institute (Interim)	2006-2007
Director, Vanderbilt/NIMH Silvio O. Conte Center for Basic Neuroscience Research	2007-2017
Professor, Department of Biomedical Science, Charles E. Schmidt College of Medicine Florida Atlantic University	2016-present
Executive Director, Florida Atlantic University Brain Institute	2016-2021
Adjunct Professor of Neuroscience, The Scripps Research Institute (Florida)	2016-present
Training Faculty, Integrative Biology - Neuroscience (IB-NS), FAU	2016-present
Training Faculty, International Max Planck Research School (IMPRS) Program	2016-present
Executive Director, Stiles-Nicholson Brain Institute	2021-present
Director, Florida Atlantic University Neuroscience Graduate Program	2022-present

DISTINCTIONS/AWARDS

National Merit Scholar	1977-1981
John Gordon Stipe Scholar	1977-1981
Macy Fellowship for Foreign Study	1981
Rhodes Scholarship Finalist	1981
Rotary Scholar	1981
<i>Phi Beta Kappa</i>	1981
<i>Sigma Xi</i> Research Award	1982
Woodruff Neuroscience Investigator	1990
Mallinckrodt Young Investigator Award	1991-1994
Charles Judson Herrick Award, American Association of Anatomists	1992
Allan D. Bass Endowed Chair in Pharmacology	1995-2016
Established Investigator Award, NARSAD	1996
Daniel H. Efron Award for Research, American College of Neuropsychopharmacology	1999
Charles R. Park Prize for Basic Research	2003
Distinguished Investigator Award, NARSAD	2005
Zenith Award, Alzheimer's Association	2005
Julius Axelrod Award, American Society for Pharmacology and Exp Therapeutics	2008
Astellas Award in Translational Pharmacology, ASPET	2008
F. Peter Guengerich Award for Postdoctoral Mentoring	2009
Fellow, American Association for the Advancement of Science	2009
Fellow, American College of Neuropsychopharmacology	2010
Vanderbilt Chancellor's Award for Research	2013
Delores C. Shockley Partnership Award for Minority Research Mentorship	2015
Fellow, National Academy of Inventors	2017
Southeastern University Research Association Distinguished Researcher Award	2019
Lifetime Achievement Award in STEM Education, Cox Science Center	2019
David J. S. Nicholson Distinguished Professorship in Neuroscience	2021
Science Educator Award, Society for Neuroscience (SfN)	2022
Palm Beach Illustrated Top 100	2024-2025

Fellow, American Society for Pharmacology and Experimental Therapeutics (ASPET)	2025
Fellow, Academy of Science, Engineering and Medicine of Florida (ASEMFL)	2025

PATENTS AWARDED AND PENDING

1. Norepinephrine Transporter cDNA (Yale/Vollum Inst) International Patent# WO1992/017568
2. Serotonin Transporter cDNA (Emory/Duke) US Patent# 5,418,162
3. Proline Transporter cDNA (Emory/Duke) US Patent# 5,580,775
4. Proline Transporter Polypeptides and Antibodies (Emory/ Duke) US Patent# 5,759,788
5. *C. elegans* Dopamine Transporter sequence (Vanderbilt) U.S. Patent # 6,596,512
6. Genetic Mutation Underlying Orthostatic Intolerance and Diagnostic and Therapeutic Methods Relating Thereto, (Vanderbilt) US Patent # 7,094,532
7. Assay for Dopamine Neuron Viability using *C. elegans*, (Vanderbilt) US Patent# 6,894,205
8. Assays for Novel Serotonin Transporter (SERT) Blockers, (Vanderbilt) US Patent# 7,439,039
9. Human Choline Transporter cDNA, (Vanderbilt), US Patent #7,338,799
10. Fluorescent Uptake Assay for Monoamine Neurotransmitters Transporters, (Vanderbilt), US Patent#7,318,917
11. Fluorescent Substrates for Neurotransmitter Transporters, (Vanderbilt), US Patent# 8,647,827 B2
12. Methods for Identifying Treatments that Reduce the Actions of Drugs of Abuse (FAU) US Patent #11693005
13. Methods for Identifying MBLAC1-Dependent Molecular Networks (FAU) Non Provis Pat App, PTO 6818-319
14. Composition and Methods Targeting SWIP-10 and MBLAC1 for the Therapeutic Modulation of Copper Dyshomeostasis, PCT/US23/33510

PROFESSIONAL SOCIETIES / AFFILIATIONS

Investigator, Vanderbilt Brain Institute
Investigator, Vanderbilt Institute of Chemical Biology
Investigator, Vanderbilt University Diabetes Center
Investigator, Vanderbilt University Autonomic Dysfunction Center
Investigator, Vanderbilt University Kennedy Center
Member, American Association for the Advancement of Science
Member, Society for Neuroscience
Member, American Society for Pharmacology and Experimental Therapeutics
Member, American Society of Human Genetics
Member, International Society for Psychiatric Genetics
Member, International Brain and Behavior Society
Member, Middle Tennessee Chapter, Society for Neuroscience
Member, Scientific Council, Brain and Behavioral Research Foundation
Member, Genetics Society of America
Member, NIMH Board of Scientific Counselors
Chair, NIMH Board of Scientific Counselors
Member, National Advisory Mental Health Council
Elected Fellow, American Association for the Advancement of Science
Elected Fellow, American College of Neuropsychopharmacology
Elected Member, Dana Alliance for Brain Initiatives
Member, Psychoneuroimmunology Research Society
Elected Fellow, National Academy of Inventors
Member, Scientific Advisory Board, The Brain Foundation
Member, Research Advisory Committee, Mind, Music, Movement Foundation ((M3F)
Member, Scientific Advisory Board, Children's Hospital of Los Angeles
Member, Working Group, NeuroArts Academic Network

INDUSTRY CONSULTING AND CONTRACTS

Forest Research Institute	2004-2010
Wyeth Women's Health Research	2004-2007
Lundbeck Psychopharmacology Scientific Advisory Board	2005-2015
Jubilant Innovation	2008-2010
Amgen	2012-2013
Neuroscience Detective/Prexa	2013-2014
Lundbeck	2013-2015
Pfizer	2015
Karuna Therapeutics	2023

ACADEMIC COMMITTEES/SYMPOSIA AND MEETING ORGANIZATION

Emory Departmental 5-Yr Planning Committee	1992
Emory Faculty Search Committee	1992-1995
Emory Neuroscience Graduate Admissions Committee	1992-1995
Executive Committee, Atlanta Chapter Society for Neuroscience	1992-1995
Symposium Committee, Atlanta Chapter Society for Neuroscience	1992-1995
Scientific Advisory Board, Brain & Behavior Research Foundation	1994-present
Steering Committee, Vanderbilt Cellular & Molecular Neuroscience Training Program	1995-2000
Task Force on Basic Research Initiatives, Vanderbilt University	1996-1997
Animal Care Administrative Review Committee, Vanderbilt University	1997
Neuroscience Ph.D. Curriculum Committee, Chair	1997-2011
Internal Advisory Board, Vanderbilt PPG on Cardiovascular Function	1997-2002
Vice-Chair, Catecholamine Gordon Conference	1999
Search Committee, Vanderbilt Kennedy Center Director	2000-2001
Pharmacology Faculty Promotions Committee, Vanderbilt University	2000-2016
Search Committee, Neurology Department Chairman, Vanderbilt University	2000-2002
Search Committee, Center for Child Development Director	2001-2002
Chair, Catecholamine Gordon Conference	2001
Strategic Academic Planning Committee, Vanderbilt University	2001-2002
Pharmacology Executive Advisory Committee, Vanderbilt University	2001-2016
Society for Neuroscience Chapters Committee	2001-2004
External Advisory Committee, Chair, COBRE LSU Neuroscience Center	2003-2009
Vanderbilt Graduate Faculty Council	2003-2005
RIMI External Advisory Committee, Tennessee	2004-2009
Vanderbilt Conference: Frontiers in Addiction Biology, Co-Organizer	2004
Vanderbilt Conference: Pharmacogenomics, Co-Organizer	2004
Chair, Aravind Babu Lectureship in Membrane Biology Committee	2004-2008
ACNP Awards & Honors Committee	2004
Systems Genetics Group External Advisory Board, Oak Ridge National Laboratory	2007
Board of Scientific Counselors, NIMH Intramural Program – Adhoc Member	2007-2008
Search Committee, Chair, Vanderbilt Brain Institute Director	2007
Communications Committee, Basic Science Strategic Plan, Vanderbilt SOM	2007
Tennessee Alzheimer's Disease Task Force	2007
Society of Neuroscience, Peter and Patricia Gruber International Research Award in Neuroscience Committee	2008-2011
NIMH Council Workgroup on Research Training	2008
Vanderbilt Task Force on Graduate Education	2008-2009
NIMH T32 Study Section Panel	2008
Vanderbilt Executive Faculty Committee	2008-2011
University of Montana Neuroscience Center, External Advisory Board	2008-2010
Addiction Research Center, UTMB Galveston, External Advisory Board	2008-present

Provost's Graduate Education Task Force Committee, Vanderbilt University	2008-2009
NIMH, Board of Scientific Counselors, full member	2010-2012
NIMH, Board of Scientific Counselors, Chair	2012-2014
ACNP Program Committee	2009-2014
ACNP Annual Meeting Program Co-Chair	2011-2012
ACNP Annual Meeting Chair	2012-2013
Research Enterprise Communications Advisory Committee, Vanderbilt University	2009-2012
ASPET Julius Axelrod Award Committee	2009-2012
Vanderbilt Discovery Lecture Series Steering Committee	2010-2012
Vanderbilt Neuroscience Visions Committee	2011
Blakemore Chair Appointment Committee, Vanderbilt University	2011
Burroughs Chair Selection Committee, Vanderbilt University	2010-2011
Psychiatric Disorders Chair Search Committee, Vanderbilt University	2012
Release & Reuptake Theme Committee, 10th International Catecholamine Symposium	2012
Dana Alliance for Brain Initiatives, Member	2012-present
Neurobiology of Autism, Neuroscience School of Advanced Studies, Course Director	2012
Delaware COBRE Center for Neuroscience Research, External Advisory Board	2013-2016
Brain In Flux ISN Satellite Conference, Co-Organizer	2013, 2015
UC Davis Neuroscience Graduate Program, External Advisory Board	2013-2016
University Alabama Birmingham Comprehensive Neuroscience Center, Advisory Board	2013-present
Emory University Conte Center for Oxytocin and Social Cognition, Advisory Board	2013-present
Pharmacology Ph.D. Qualifying Exam Committee (Chair)	2014-2016
Biomedical Science Research Space Committee	2016-2017
Psychology Chair Search Committee, ex officio	2016
ACNP Program Committee, Member	2017-2019
Integrative Biology Graduate Program Executive Committee	2017-present
National Advisory Mental Health Council	2017-2021
FAU College of Medicine Strategic Planning Committee	2017
FAU Psychology Department Faculty Search Committee (<i>ex officio</i>)	2017-2018
FAU Jupiter Coordination Council (JCC)	2017-present
Director, FAU Graduate Training Program in Neuroscience	2017-present
FAU Technology Review, Advisory and Innovation Committee (TRAIC)	2017-present
Palm Health Foundation Brain Health Advisory Committee	2017-present
FAU Research Core Committee (RCoC)	2017-present
Human Brain Exhibit Advisory Committee, South Florida Science Center & Aquarium	2016-2019
University of Michigan Udall Parkinson's Disease Center of Excellence	2018-2020
FAU Jupiter Strategy and Budget Committee	2019-present
BRAIN Initiative Multi-Council Working Group (MCWG) NIMH Representative	2020-2021
AAAS Electorate Nominating Committee	2021-present
FAU John D. MacArthur Campus Strategic Planning Task Force	2021
Children's Hospital of Los Angeles, Scientific Advisory Board	2024-present
Ryan Licht Sang Bipolar Foundation, Medical Board	2024-present

FACULTY MENTORING ACTIVITIES

Eugenia Gurevich, Mentoring Committee (Vanderbilt Pharmacology)	2005-2012
Claus Schneider, Mentoring Committee (Vanderbilt Pharmacology)	2006-2012
Maureen Hahn, K01 Award Mentor (Vanderbilt)	2006-2011
Gregg Mathews, K08 Award Mentor Vanderbilt	2007-2009
Gregg Stanwood, Mentoring Committee (Vanderbilt Pharmacology, Chair)	2007-2014
Peter Hedera, Mentoring Committee (Vanderbilt Neurology)	2007-2012
Maureen Hahn, Mentoring Committee (Vanderbilt Genetic Medicine)	2008-2014
Jeremy Veenstra-VanderWeele, K08 Award Mentor (Vanderbilt Psychiatry)	2008-2013
Qi Zhang, Mentoring Committee (Vanderbilt Pharmacology, Chair)	2010-2016

Jennifer Blackford, Mentoring Committee (Vanderbilt Psychiatry)	2010-2016
David Weaver, Mentoring Committee (Vanderbilt Pharmacology)	2011-2016
Carrie Jones, Mentoring Committee (Vanderbilt Pharmacology)	2011-2016
Claudia Rodrigues, Mentoring Committee (FAU Dept Biomedical Science)	2021-present
Lyonna Parise, Mentoring Committee K01	2025-2030

TEACHING EXPERIENCE

Undergraduate Teaching Assistant, Astronomy, Emory University	1978-1981
Graduate Teaching Assistant, Biology Department, Emory University	1981-1983
Graduate Teaching Assistant, Medical and Graduate Neuroanatomy, JHU SOM	1984
Postgraduate Teaching Assistant, Advances in Cell Biology, Yale SOM	1990
Developmental Neurobiology, Lecturer, Emory SOM	1991-1994
Molecular Neurobiology, Course Director, Emory SOM	1992-1995
Ion Channel Regulation, Lecturer, Emory SOM	1992-1995
Neurobiology Laboratory, Lecturer, Emory College of A&S	1992-1995
Introductory Biophysics, Teaching Faculty, Emory SOM	1992-1995
Molecular Cloning of Neural Genes, Lecturer, Cold Spring Harbor	1992-1994
Medical Neuroscience, Lecturer, Emory School of Medicine	1993-1995
Pharmacology Graduate Seminar Course Director, Vanderbilt University SOM	1995-1996
Pharmacological Techniques and Instrumentation, Lecturer, Vanderbilt University SOM	1995-1996
IGP Neurobiology, (BioRegulation II), Lecturer, Vanderbilt University SOM	1996-2010
Excitable Membranes, Lecturer, Vanderbilt University School of Medicine	1996
Cellular & Molecular Neuroscience (NURO 345), Course Director Vanderbilt	1996-2007
Special Topics in Neuroscience, Lecturer, Vanderbilt SOM	1996
Advanced Molecular Neuroscience (NURO 346), Course Director, Vanderbilt SOM	1998-2005
Biological Basis of Mental Illness (NSC 235), Lecturer, Vanderbilt College of A&S	2002-2016
Pharmacology Targets (PHARM 320, 325), Vanderbilt SOM	2002-2007
Advanced Molecular Neuroscience, Lecturer, (NURO 346) Vanderbilt SOM	2005-2016
Human Genetics (HGEN 340), Lecturer, Vanderbilt SOM	2005-2012
Neurogenetics (NURO 376), Lecturer, Vanderbilt University SOM	2006-2012
Cellular & Molecular Neuroscience (NURO 345), Lecturer Vanderbilt SOM	2007-2016
Neuroscience Foundations (NURO 325), Lecturer	2005-2016
Neural Diseases (NURO 366), Lecturer, Vanderbilt SOM	2008-2012
Methods of Research in MRDD (PSY 325), Vanderbilt Peabody School of Education	2008
Brain and Behavior for Medical Students, Lecturer, Vanderbilt University SOM	2009-2010
Genetics of Model Organisms (CBio/HGen 349), Lecturer, Vanderbilt University SOM	2009-2012
Neurobiology of Autism Spectrum Disorders, Course Director, San Quirico d'Orcia	2012
Neurobiology of Addiction, Course Director of Lecturer, Vanderbilt	2012-2016
Neuroscience Seminar Series, Director, FAU	2016-2022
Advanced Psychopathology, FAU School of Social Work, Lecturer	2017
Integrative Biology (BSC 6390-001), FAU GNTP Lecturer	2018
Science of Addiction (BSC 4930-10H), FAU Wilkes Honors College Lecturer	2018-present
Autism Training Program Lecturer, FAU Ctr for Autism and Related Disabilities (CARD)	2019
Advanced Cell and Molecular Neuroscience 1 (PSB 6345-001) FAU, Lecturer	2019-present
Advanced Systems and Integrative Neuroscience, (PSB 6345-001) FAU, Lecturer	2021-present
FAU Graduate Neuroscience Training Program Bootcamp Program Lecturer	2022-present
FAU Dept of Criminology & Criminal Justice-Virtual Community of Learners	2022

UNDERGRADUATE HONORS, MASTERS AND DOCTORAL COMMITTEES

1. Aurora Isaac, Emory Neuroscience PhD	1992-1995
2. Nelson Oyesiku, Emory Neuroscience PhD	1992-1995
3. John Vanchiere, Emory Neuroscience PhD	1992-1995
4. Caroline Reich, Emory Neuroscience PhD	1992-1994

5.	Amanda Smith, Emory Chemistry PhD	1994
6.	Leigh MacMillan, Vanderbilt Pharmacology PhD	1995-1996
7.	Jonathan Lu, Vanderbilt Pharmacology PhD	1995-1996
8.	Julie Zauha, Vanderbilt Pharmacology PhD	1995-1996
9.	Christina Peterson, Vanderbilt Pharmacology PhD	1996-2000
10.	Matthew Wilson, Vanderbilt Pharmacology PhD	1997-2000
11.	Angela Winnier, Vanderbilt Cell Biology PhD	1997-2000
12.	Mike Chang, Vanderbilt Pharmacology PhD	1997-2000
13.	Nicole Schramm, Vanderbilt Pharmacology PhD	1997-2001
14.	Brent Thompson, Vanderbilt Neuroscience PhD	1999-2005
15.	Scott Ramsey, Vanderbilt Pharmacology PhD	2000-2001
16.	Christopher Sansam, Vanderbilt Pharmacology PhD	2000-2003
17.	Kim Petrie, Vanderbilt Pharmacology PhD	2000-2004
18.	Robert Carson, Vanderbilt Pharmacology PhD	2000-2002
19.	Lisan Parker, Vanderbilt Pharmacology PhD	2000-2004
20.	Scott Adams, Vanderbilt Physics PhD	2000-2003
21.	Christoph Lossin, Vanderbilt Neuroscience PhD	2000-2003
22.	Andrew Tapper, Vanderbilt Pharmacology PhD	2000-2002
23.	Lisa Hazelwood, Vanderbilt Pharmacology PhD	2001-2005
24.	Jamie McConnel, Vanderbilt Pharmacology PhD	2001-2008
25.	Hilary Highfield, Vanderbilt Pharmacology PhD	2001-2005
26.	Steve von Stetina, Vanderbilt Cell Biology PhD	2001-2006
27.	Zhaolin Hua, Vanderbilt Biology PhD	2001-2003
28.	Elaine Merrill, Vanderbilt Neuroscience PhD	2000-2004
29.	Joel Schwartz, Vanderbilt Neuroscience PhD	2000-2004
30.	Kelie Reece, Vanderbilt Pharmacology PhD	2001-2009
31.	Andrew Lundquist, Vanderbilt Pharmacology PhD	2001-2005
32.	William Siesser, Vanderbilt Neuroscience PhD	2001-2006
33.	Hugh Fentress, Vanderbilt Neuroscience PhD	2001-2005
34.	Jamie McConnel, Vanderbilt Pharmacology PhD	2001-2008
35.	Kristina Patterson, Vanderbilt University Undergraduate	2002-2003
36.	Efrain Garcia, Vanderbilt Pharmacology PhD	2003-2007
37.	Regina Myers, Vanderbilt Pharmacology PhD	2003-2006
38.	Joseph Watson, Vanderbilt Neuroscience PhD	2002-2008
39.	Nicole Garbarini, Vanderbilt Neuroscience PhD	2002-2008
40.	Xueying (Sharon) Liang, Vanderbilt SOM	2004-2009
41.	Uade Da Silva, Vanderbilt Neuroscience PhD	2004-2010
42.	Brandon Lute, Vanderbilt Neuroscience PhD	2004-2008
43.	Jennifer Ayala, Vanderbilt Pharmacology PhD	2005-2008
44.	Bonnie Garcia, Vanderbilt Neuroscience PhD	2005-2010
45.	Erica Bowton, Vanderbilt Neuroscience PhD	2005-2009
46.	Yang Geng, Vanderbilt Neuroscience PhD	2006-2009
47.	Niranjana Vijayakrishnan, Vanderbilt Neuroscience PhD	2006-2010
48.	Angela Shields, Vanderbilt MSTP Physiology	2006-2009
49.	Rebecca Orndorff, Vanderbilt University, Chemistry Masters Committee	2006-2009
50.	Molly Fricke, Pharmacology, Vanderbilt Neuroscience PhD	2006-2010
51.	Nicholas Campbell, Vanderbilt Neuroscience PhD	2007-2013
52.	Sabrina Doughty, Vanderbilt Neuroscienc PhD	2007-2011
53.	Guy Watkins, Vanderbilt Pharmacology PhD	2007-2010
54.	Nicole Speed, Vanderbilt Pharmacology PhD	2008-2010
55.	Jude James McElroy, Vanderbilt Physiology PhD	2008-2010
56.	Kari Johnson, Vanderbilt Pharmacology PhD	2008-2012
57.	Kelli Kazmier, Vanderbilt Physiology PhD	2009-2013

58.	Ernesto Solis, Vanderbilt Pharmacology PhD	2009-2013
59.	Rachel Lippert, Vanderbilt Physiology PhD	2010-2014
60.	Ericka Smith, Fisk University Masters Program	2011-2012
61.	Michael Nedelcovych, Vanderbilt Pharmacology PhD	2012-2015
62.	Yun Young (Susan) Yim, Vanderbilt Pharmacology PhD	2013-2017
63.	Tyne Miller, Vanderbilt Neuroscience PhD	2013-2017
64.	Elaine Ritter, Vanderbilt Neuroscience PhD	2013-2017
65.	Melanie Brady, Fisk University Masters Program	2013-2014
66.	Xiaohan Wang, Vanderbilt Neuroscience PhD	2013-2014
67.	Claire DelBove, Vanderbilt Pharmacology PhD	2013-2014
68.	Erica Tross, Fisk University Masters Program	2013-2014
69.	Hussain Jinnah, Vanderbilt Pharmacology PhD Program	2013-2021
69.	Emily Ross, Vanderbilt University Chem Biol PhD	2013-2015
70.	Cody Wenthur, Vanderbilt Pharmacology PhD	2013-2015
71.	Corey Roach, Fisk University Masters Program	2014-2015
72.	Christopher Kooker, Vanderbilt Neuroscience (Honors, Carneiro)	2014-2016
73.	Allyson Mallya, Vanderbilt Neuroscience PhD	2015-2016
74.	Dylan Morrow-Jones, Vanderbilt Neuroscience PhD	2015-2016
75.	Stephanie Moore, Vanderbilt Pharmacology PhD	2015-2016
76.	Julietta Di Mase, IB Masters Program	2018-2019
77.	Bryan Conklin, Complex Systems & Brain Sciences PhD (FAU)	2017-2020
78.	Ke Zhang, IB-NS PhD IMPRS (FAU, MPFI)	2018-2020
79.	Neymi Mignocchi, IB-NS PhD IMPRS (FAU, MPFI)	2018-2020
80.	Amanda Kentner, IB-NS PhD IMPRS (FAU, MPFI)	2018-2020
81.	Claire Rice-Kuchera, Exp Psychology PhD (FAU)	2018-2020
82.	Serena Sossi, IB-NS, Master's	2018-2019
83.	Lucas Thal, Chemistry PhD Program (Vanderbilt)	2018-2020
83.	Johnson Odibit, Master's in Fine Arts	2019
84.	Alaina Tillman, (FAU-Max Planck Honors Program)	2019-2020
85.	Danielle Riboul, IB PhD (FAU)	2020-2024
86.	Goksu Oz, IB-NS, PhD (FAU)	2020-present
87.	Madeline Martinez, IB-NS, PhD (FAU)	2021-present
88.	Angelica Bodine, (FAU-Max Planck Honors Program)	2021-2022
89.	Brandon Hindman Exp Psychology, PhD (FAU)	2021-2023
90.	Nuran Kocak (Marianne Monet), IB-NS, Ph.D, IMPRS (FAU/MPFI)	2022-present
91.	Maria Smirnova, IB-NS, PhD, IMPRS (FAU/MPFI)	2023-present
92.	Anastasia Tyulmenkova, IB-NS, PhD (FAU)	2023-present
93.	Cara Melillo, Experimental Psychology, Master's (FAU)	2023-2025
94.	Haylee Mesa, IB, PhD (FAU)	2023-2025
95.	Natalie Souza, Wilkes Honors College (FAU)	2023-2024
96.	Yiwei Hua, IMPRS, PhD (FAU)	2024-present
97.	Tessa Dallo, NGP, PhD (FAU)	2025-present
98.	Mason Martin, NGP, PhD (FAU)	2024-present
99.	Gabriella Smith, NGP, PhD (FAU)	2024-present
100.	Nicolas Borges, Biomedical Science, Master's (FAU)	2024-present

EDITORIAL BOARDS

Molecular Pharmacology, Field Editor	1995-2007
Journal of Biological Chemistry, Editorial Board	1999-2004
<i>LENS</i> , Editorial Board	2002-2008
Neuropsychopharmacology, Field Editor	2002-2007
Journal of Neuroscience, Editorial Board	2004-2009
Molecular Pharmacology, Editorial Board	2007-2012

GRANT/PROGRAM REVIEWER

Emory URC External Reviewer	1991-1995
National Science Foundation External Reviewer	1993
NIDA Contract Reviewer for Biogenic Amine Transporter Drug Screening	1994-1998
NIDA K20/K21 Study Section Committee Member,	1994
NIDA DABR1 Study Section Ad Hoc Member,	1995
NIMH Molecular, Cellular, Developmental Neuroscience Study Section	1995-1998
BBRF NARSAD Review Committee	2000-present
NIH F02A Fellowship Study Section	2002
Alzheimer's Association	2004
NIH Study Section NIMH T32 Training Grants	2004
NIH Grant Reviewer	2004
NIH/MDCN Special Emphasis Panel ZRG1	2004
NIMH Loan Repayment Program Study Section ZMH1 DEA-M (C8)	2005
Cure Autism Now Grant Review, Los Angeles, CA	2005
Alzheimer's Association	2006
NIH NTRC Study Section, Bethesda, MD	2005-2006
NINDS Intramural Review Group	2006
NIMH Intramural Review Group	2007
NIMH K99 Review Committee	2007
NIDA K99 Study Section ADA1 JXR-D	2008
NIH ARRA Review Committee, Molecular and Cellular Neuroscience	2009
NIMH Board of Scientific Counselors	2010-2012
NIMH Board of Scientific Counselors (Chair)	2012-2014
Comprehensive Neuroscience Center, UAB, External Advisory Board	2013-present
NIMH National Advisory Mental Health Council	2017-2021
NIMH Genomics Workgroup, NAMHC	2017-2021
Udall Center External Advisory Board, University of Michigan	2018-2022
BRAIN Initiative Project Multi-Council Working Group	2020-2021
NIMH Psychoactive Drug Screening Program, Committee (Chair)	2023-present
The Brain Foundation, Grant Review Committee	2024-present

INVITED PRESENTATIONS/SYMPOSIA

1. American College of Neuropsychopharmacology Symposium on Neurotransmitter
2. Transporters as Psychotropic Drug Receptors, American College of
3. Neuropsychopharmacology Meeting, Maui, Hawaii, 1989.
4. Emory Woodruff Scholars, 1991
5. Emory University, Dept. Pediatrics, 1991
6. NIDA Symposium on Molecular Biology of Neurotransmitter Receptors and Transporters, NIH, Bethesda, Maryland, 1991.
7. The Johns Hopkins School of Medicine, Neuroscience Dept., 1991.
8. American College of Neuropsychopharmacology Panel Session on New Developments in Molecular Pharmacology, American College of Neuropsychopharmacology Annual Meeting, San Juan, Puerto Rico, 1991.
9. Chair, ASPET Symposium on Structure and Function of Neurotransmitter Transporters, Orlando, FL, 1992
10. Vanderbilt University Dept. Pharmacology, 1992.
11. MRC Molecular Biology Dept, Cambridge, England, 1992.
12. Neurobiology of Serotonin Symposium, XVIIIth C.I.N.P. Congress, Nice, France, 1992
13. Cold Spring Harbor Molecular Cloning of Neural Genes Short Course, 1992.
14. Gordon Conference on Hormone Action, 1992.

15. Society of General Physiologists Young Investigator Symposium, Woods Hole, MA, 1992.
16. Hahnemann University Program in Neurosciences, 1992
17. Medical College of Georgia, Dept. Biochemistry and Molecular Biology, 1993
18. Georgia State University, Dept. Biology, 1993.
19. Morehouse School of Medicine, Dept. Biochemistry, 1993
20. Baylor University, Dept. Physiology, 1993.
21. Physiological Regulation of Neurotransmitter Transporters Symposium, 14th International
22. Society for Neurochemistry Meeting, Montpellier, France, 1993.
23. ARNMD Symposium: Molecular Biology of Schizophrenia and Affective Disorders, 1993.
24. Porters Conference, Stowe Vermont, 1994.
25. Dept. Of Pharmacology, Yale School of Medicine, 1995.
26. 1st International Symposium on Neuroreceptor Mechanisms, Niigata Japan, 1995.
27. Vanderbilt, Dept. of Nephrology, 1995.
28. Vanderbilt Molecular Biophysics Department, 1996.
29. Substance Abuse Rounds, Vanderbilt University, 1996.
30. Vanderbilt Careers in Health Care Symposium, Science Outreach Program, 1996.
31. Bristol-Meyers Squibb, Pharmaceutical Research Institute, 1996.
32. University of Pennsylvania, Department of Pharmacology, 1997.
33. Case Western Reserve University, Dept. of Pharmacology, 1997.
34. Wyeth-Ayerst Research, 1997.
35. CPDD Symposium, Recent Progress in Transporter Research, 1997.
36. Gordon Conference on Structure & Dynamics of Receptors, Transporters and Ion Channels, 1997.
37. FASEB Summer Conference on Protein Mediators, July, 1997.
38. Dept. Of Physiology Retreat Speaker, University of North Carolina at Chapel Hill, 1997.
39. National Institute of Mental Health, NIH, Satellite Symposium, 1997.
40. A Decade of Serotonin Research, 1997.
41. Co-Chair, ASPET Symposium on Neurotransmitter Transporters, 1998.
42. Medical College of Wisconsin, 1998.
43. The University of Chicago, 1998.
44. Gordon Research Conference on Membrane Transporters: Physiological and Pathological Implications, 1998.
45. Oak Ridge National Laboratories, 1998.
46. Southeastern Pharmacological Society, 1998.
47. EU TMR Euroconference on Neuronal Transporters, 1998.
48. University of Alabama School of Medicine, 1998.
49. ACNP Meeting, Serotonin Gene Effects and Psychopathology, 1998.
50. Nanotechnology, Light, and Neuroscience, Vanderbilt University, 1999.
51. Vanderbilt Bench-to-Bedside Neuroscience Conference, 1999
52. Harvard Medical School, Department of Neurobiology, 1999.
53. Meharry University Medical School, 1999.
54. FASEB Summer Research Conference on Transporters of Amino Acids, Peptides, and Bioactive Amines: Structural, Functional, and Regulatory Aspects, 1999.
55. University of Heidelberg, Department of Pharmacology, 1999.
56. Catecholamine Gordon Conference (Co-Chair), 1999.
57. Sixth National Parkinson Foundation International Symposium on Parkinson's Disease Research, 1999.
58. University of Michigan, Department of Psychiatry, 1999.
59. Vollum Institute, 1999.
60. National Institute for Health, Model System Genomics Meeting, 1999.
61. Spring Brain Conference, Plenary Keynote Speaker, 2000.
62. Columbia University, Center for Molecular Recognition, 2000.
63. University of Colorado School of Medicine, Department of Pharmacology, 2000.

64. University of Cincinnati College of Medicine, Department of Molecular and Cellular Physiology, 2000.
65. Science Coalition, 2000.
66. Membrane Transport Gordon Conference, 2000.
67. Roche, 2000.
68. International Transporters Conference, 2000.
69. Mini Medical School, Vanderbilt University, 2000.
70. American Society for Human Genetics, 2000.
71. University of Pennsylvania, David Mahoney Institute of Neurological Sciences, 2000.
72. Biomedical Research Education & Training, Vanderbilt University, 2000.
73. University of Texas Health Sciences Center San Antonio, Department of Pharmacology, 2000.
74. Vanderbilt Conferences in Genomics, 2001.
75. Kansas University Medical Center, 2001.
76. Quantum Dot Corporation, 2001.
77. Catecholamine Gordon Research Conference, 2001.
78. Eli Lilly Pharmaceuticals, 2001.
79. Cold Spring Harbor Course on Cellular Biology of Addiction, 2001.
80. Pfizer Ann Arbor Laboratories, 2001.
81. Molecular Mechanisms of Synaptic Function, 2001.
82. Tennessee Mouse Genome Consortium Retreat, 2001.
83. FMC Corporation, 2002.
84. Medical University of South Carolina, 2002.
85. Erice International School of Biophysics, 2002.
86. Meharry Medical College Neuroscience Symposium, 2002.
87. International Symposium – Transporters, 2002.
88. John A. Oates Symposium in Experimental Therapeutics, 2002.
89. Columbia University, 2002.
90. University of Massachusetts Medical School, 2002.
91. University of Alabama School of Medicine, 2002.
92. European College of Neuropsychopharmacology (ECNP), 2002.
93. University of Tennessee Health Science Center, 2002.
94. University of California – San Francisco School of Pharmacy, 2003.
95. ASCPT Symposium, 2003.
96. Duke University, 2003.
97. Harvard Children's Hospital 2003.
98. Johns Hopkins School of Medicine 2003.
99. University of North Dakota School of Medicine, 2003.
100. Wyeth, 2003
101. FASEB Conference, 2003.
102. Gordon Research Conference on Catecholamines (Co-Chair and Speaker), 2003.
103. Michigan State University, 2003.
104. University of Copenhagen/Panum Institute, 2003.
105. NIDA SFN Convention, 2003.
106. Society for Neuroscience Annual Meeting, 2003.
107. Tennessee Mouse Genome Consortium Meeting, 2003.
108. ASPET Julius Axelrod Symposium, 2004.
109. FASEB Meeting Seminar, 2004.
110. Vanderbilt University Lee Limbird Celebration, 2004.
111. Eli Lilly Corporation, 2004.
112. University of VT College of Medicine, 2004.
113. Wyeth, 2004.
114. Alfred Benzon Symposium, 2004.
115. Northwestern University School of Medicine, 2004.

116. Baylor College of Medicine, 2004.
117. Gordon Research Conference on Membrane Transport Proteins, 2004.
118. Roche, 2004.
119. CHADD International Conference, 2004.
120. Wyeth, 2005.
121. UT Southwestern, 2005.
122. Forsyth Institute, 2005.
123. Harvard Children's Hospital, 2005.
124. University of Pennsylvania, 2005.
125. International School of Biophysics, Erice—Sicily, 2005.
126. Vanderbilt Board of Trust Retreat, 2005
127. Louisiana State University School of Medicine, 2005.
128. FASEB, Transport Biology Meeting, 2005.
129. GRC Catecholamine Conference (Chair), 2005.
130. NIDA Neuroscience Center, 2005.
131. UT Health Science Center San Antonio, 2005.
132. Neuropharm Conf, New Perspectives in Neurotransmitter Transporter Biology, 2005.
133. ARNMD Conference, Mt. Sinai Medical Center, 2005.
134. Meharry Medical College Psychiatry Grand Rounds, 2006.
135. Pfizer, 2006.
136. Jerome Sutin Memorial Symposium, 2006.
137. NINDS Neuroscience Seminar, 2006.
138. University of Montana College of Medicine, 2006.
139. China Institute of Neuroscience, 2006.
140. IUPHAR Meeting Plenary Lecture, 2006.
141. Gordon Research Conference on Membrane Transport Proteins, 2006.
142. ORNL Workshop on Human Diseases, 2006.
143. Johns Hopkins School of Medicine, 2006.
144. University of Georgia, 2006
145. Vanderbilt University, 3rd Annual Grant Wilkinson Lectureship in Clinical Pharmacology, 2007
146. Winter Conference on Brain Research (WCBR), 2007
147. University of North Carolina, Chapel Hill, 2007
148. East TN State University, 2007
149. Congress of the German Physiological Society, 2007
150. Society of Biological Psychiatry Meeting, 2007
151. Vanderbilt Science Educators Program, 2007
152. Amgen, 2007
153. IBRO World Congress, Symposium, 2007
154. Penn State Neuroscience Program, 2007
155. Emory University, Dept Pharmacology, 2007
156. World Congress Psychiatric Genetics, 2007
157. Vanderbilt Department of Pharmacology, Retreat Speaker, 2007
158. Lundbeck, US, 2007
159. Vanderbilt Medical Center Advisory Board, 2007
160. Vanderbilt Center for Structural Biology, 2007
161. University Michigan, Neuroscience Program, 2007.
162. The Surgeons' Travel Club Annual Meeting, 2007
163. Winter Brain Conference, 2008
164. Keystone Symposium on Autism, 2008
165. Stanford University, 2008
166. Catecholamine Club, 2008
167. Royal Society of London, 2008
168. Drexel University, 2008
169. Autism Center, University Illinois at Chicago, 2008

170. University of Pittsburgh, 2009
171. University of Kansas, 2009
172. University of Wisconsin, 2009
173. University of Montana Neuroscience Retreat Speaker, 2009
174. Biomedical Transporters Meeting, 2009
175. SFB35 Symposium, Speaker, 2009
176. University of Washington, 2009
177. Healthy Minds Across America Symposium, 2009
178. Winter Conference on Brain Research, Symposium on Dopamine Signaling, 2010
179. Banbury Conference on The Lateral Habenula: Its Role in Behavior and Psychiatric Disorders, 2010
180. NIMH Outreach Meeting, Speaker, 2010
181. Massachusetts Institute of Technology, 2010
182. University of Pennsylvania, 2010
183. Healthy Minds Across America Symposium, 2010
184. Annual Meeting of the Society of Biological Psychiatry, 2010
185. University of Montana Neuroscience Retreat Speaker, 2010
186. WorldPharma, 2010
187. Gordon Research Conference: Membrane Transport Proteins, 2010
188. Translational Medicine Research in Autism: Challenges and Opportunities, 2011
189. University of Georgia, 2011
190. University of Alabama School of Medicine, 2011
191. Synapses: From Molecules to Circuits & Behavior, Cold Spring Harbor Laboratory, 2011
192. University of Vermont, 2011
193. Case Western Reserve University, July 2011
194. Bonn Symposium (NRW International Graduate Research School, Biotech Pharma International Symposium), 2011
195. University of Texas Southwestern, 2011
196. Einstein College of Medicine, 2011
197. University of Southern California, 2011
198. University of West Virginia, 2011
199. Yale University, 2012
200. Case Western Reserve University Symposium, 2012
201. ASPET Symposium on Neurotransmitter Transporters, 2012
202. University of North Dakota, 2012
203. Gordon Research Conference on Membrane Transport, 2012
204. Serotonin Club, July 2012
205. Neurobiology of Autism Spectrum Disorders, NSAS, 2012
206. University of Southern California, Program in Neurobiology, 2013
207. University of California Davis Neuroscience Center, 2013
208. Texas A&M Institute of Neuroscience, 2013
209. University of California San Francisco, 2013
210. University of East Tennessee, Department of Psychiatry, 2013
211. University of East Tennessee, Department of Biomedical Sciences, 2013
212. Dopamine 2013 International Conference, Speaker, 2013
213. Catecholamine Gordon Conference on Transporters, 2013
214. Vanderbilt Conte Symposium, 2013
215. Sackler Conference, 2014
216. Harvard University, McLean Hospital Neuroscience, 2014
217. University of Arkansas, 2014
218. Oregon Primate Research Center, 2014
219. Gairdner Symposium, University of Alberta, 2014
220. National Institute of Mental Health, 2014
221. Emory University, Department of Pharmacology, 2014
222. ACNP, Panel Chair and Speaker, 2014

223. Sackler Conference, 2015
224. Pfizer UK, WebEx, 2015
225. Michigan State University, 2015
226. Experimental Biology, Symposium Chair, 2015
227. Montana State University, Speaker 2015
228. Tulane University, 2015
229. Scripps Florida, 2015
230. Pfizer Gene Family Conference, 2015
231. Middle Tennessee State University, 2015
232. Vanderbilt Kennedy Center Research Ethics Grand Rounds, 2015
233. International Society for Serotonin Research, Panel Chair and Speaker 2016
234. Dopamine 2016, Symposium Chair and Speaker, 2016
235. FAU Special Seminar, 2016
236. Complex Systems and Brain Sciences 31st Anniversary Symposium, 2016
237. SFB35 Symposium, 2016
238. Children's Hospital of Pennsylvania, 2016
239. Vanderbilt Silvio O. Conte Center, Symposium Speaker, 2016
240. Emory University, 2017
241. Biomedical Science Dept (Complex Trait Analysis), FAU College of Medicine, 2017
242. Brain in Flux Meeting, Meering Co-Chair and Speaker, 2017
243. University of Florida, 2017
244. School of Social Work, FAU, Advanced Psychopathology Class (Michael Kane), 2017
245. Leadership Palm Beach County, 2018
246. South Florida Science Center, West Palm Beach, 2018
247. University of Massachusetts Medical School, Worcester, 2018
248. David Robertson Symposium, Vanderbilt, 2018
249. Gordon Research Conference on Membrane Transport, 2018
250. International Society of Serotonin Research, 2018
251. South Florida Science Center Brain Night, 2018
252. Brain & Bites Seminar, Brainy Days Program, Florida Atlantic University 2018
253. Future of Brain Research Symposium, Florida Atlantic University, 2018
254. Children Services Council of Palm Beach County, 2018
255. Center for Child Counseling, 2018
256. Webinar on ADHD and Dopamine Genetics, Brain and Behavioral Research Foundation, 2018
257. Weizmann Institute, 2018
258. Gonda Multidisciplinary Brain Research Center, Bar Ilan University, 2018
259. Hadassah Medical Center, Hebrew University, 2018
260. Edmond & Lily Safra Center for Brain Sciences, Hebrew University, 2018
261. Sagol School of Neuroscience, Tel Aviv University, 2018
262. Old Palm Golf Club, 2018
263. Gordon Conference on Glial Biology, Ventura, CA 2019
264. Vanderbilt Brain Institute Special Lecture, 2019
265. Co-Convener, A Celebration of Gene Therapy in Florida: Roundtable, Romer Foundation, 2019
266. Ernie Els Center for Excellence, Brainy Days Program, Jupiter, FL 2019
267. Chamber of Commerce of the Palm Beaches, Science and Technology Committee, South Florida Science Center, 2019
268. Northwestern University, Department of Pharmacology, 2019
269. 16th International Symposium on Cholinergic Mechanisms, 2019
270. Williams island Community Lecture, 2019
271. Boca Raton Innovation Campus Lecture, 2019
272. Science on Tap, South Florida Science Center (cancelled due to COVID-19)
273. Wake Forest University, Department of Pharmacology, 2020
274. Synchrony Symposium, Brain Foundation, 2020
275. Palm Beach Roundtable, 2020

276. Palm Beach County, National Alliance for Mental Illness, 2020
277. Peking University, 2021
278. Brainy Days Community Education program, 2021
279. Florida Institute of Technology, 2021
280. Osher Life-Long Learning, Moderator Parkinson's Disease Program, 2021
281. Palm Beach North Chamber of Commerce, 2021
282. Brain Foundation Synchrony Meeting and Session Chair, 2021
283. Palm Health Foundation, 2021
284. BioFlorida, 2021
285. Leadership Palm Beach County, 2021
286. Autism Impact Fund, 2021
287. Faculty Feed, Biomedical Science, 2021
288. Georgetown University, Dept Pharmacology & Physiology, 2022
289. National Institute of Mental Health, 2022
290. Illinois State, Dept Pharmacology, 2022
291. Dopamine2022 Conference (lecture given by Felix Mayer due to R. Blakely absence), 2022
292. Membrane Transport Gordon Conference, Session Chair, Castelldefels, Spain, 2022
293. FAU New Horizons in Alzheimer's Disease and Related Disorders Symposium, Boca Raton, FL 2022
294. Brain Foundation Synchrony Meeting, Pleasanton, CA, 2022
295. FAU Brain Bowl Planning Meeting, Boca Raton, FL 2022
296. Brain in Flux Meeting, Gaia, Portugal, 2023
297. Brain Foundation Synchrony Meeting, Asilomar, 2023
298. Insights at the Institute, Creativity and Bipolar Disorder, Host and Speaker, Jupiter, FL, 2024
299. Research Refresh Meeting, FAU, Jupiter, FL 2024
300. Gordon Conference on Membrane Transport, Sunday River, 2024
301. Brain Foundation Synchrony Meeting, Asilomar, CA 2024
302. Program in Computational Brain Science and Health and Brain Coast Launch, 2024
303. Faculty Feed, Department of Biomedical Science, FAU College of Medicine, 2024
304. Jang-Yen Wu Retirement Lecturer, 2024
305. Michigan State University, Dept of Pharmacology, 2025
306. International Society for Serotonin Research, 2025

HONORARY/ENDOWED LECTURES

1. BioMega Lecture, University of Montreal, Department of Pharmacology, 1993
2. State-of-the-Art Lecture, ASCPT 1996
3. Grass Lecturer, British Columbia Chapter of Society for Neuroscience, 1996
4. Joint Institute for Biological Sciences Colloquium, Keynote Speaker, 1999
5. Spring Brain Conference, Plenary Keynote Speaker, 2000
6. East Tennessee State University, Grass Lecturer, 2001
7. Vaughn Science Lecture, Belmont University, 2003
8. Inaugural Ray Fuller Lecturer in the Neurosciences, ASPET, 2005
9. George Hertting Celebration Lecturer, Medical University of Vienna, 2005
10. Ohio State University, Grass Lectureship, Columbus, Ohio, 2007
11. Chancellor's Award Lecture, Louisiana State University Science Center, 2007
12. ASPET Axelrod Lecture, New Orleans, April 2009
13. Alexander D. Kenny Memorial Lecturer, Texas Tech Univ School of Medicine, 2010
14. Eckerd College Senior Capstone Speaker, 2010
15. F.C. MacIntosh Endowed Lectureship, McGill University, Montreal, 2011
16. Robert M. Hearin Distinguished lectureship, University of Mississippi Medical School, 2013
17. Booney Vance Memorial Lecture, Quinlan College of Medicine, East Tennessee State Univ, 2013
18. UAB Comprehensive Neuroscience Center Retreat, Keynote Speaker 2013
19. SFB35 Symposium, Keynote Speaker, 2013
20. Brain In Flux ISN Satellite Meeting, Keynote Speaker, 2013

21. Cozart Heritage Lecture, Meharry Medical College, 2014
22. University of Montana Innovation and Imagination, Keynote Speaker, 2014
23. Founders Lecture, American Academy of Child & Adolescent Psychiatry, 2014
24. SFB35 Symposium, Plenary Lecturer, 2016
25. FAU Center for Autism and Related Disabilities Keynote Speaker, 2018
26. Palm Beach Roundtable, Invited Speaker, 2020
27. Building Biology in 3D Conference, Keynote Lecturer, 2021
28. Rilett Lecture, Illinois State University, 2022
29. International Transmembrane Transporter Society, Plenary Speaker, 2022
30. Community Foundation of Palm Beach and Broward Counties, Founders Keynote Speaker, 2023
31. Florida Consortium on the Neurobiology of Cognition, UF Scripps, Keynote Speaker, 2023
32. Palm Beach County Student Mental Health and Wellness Conference, Keynote Speaker, 2024
33. Ryan Licht Sang Medical Briefing Luncheon, Keynote Speaker, 2024

FUNDING

Past

1. **Emory University Research Council Award, PI**
Structural Analysis of the Plasma Membrane Monoamine
Neurotransmitter Transporter Gene Family 1991-1992
2. **Edward J. Mallinckrodt Junior Faculty Merit Award** 1991-1994
3. **NIH/NIMH R01 DA07390, PI (Shifted to NIMH in 2004 as R01 MH094527)**
Regulation of Serotonin Transporters 1991-2004
4. **NIH/NINDS R01 NS33373, PI**
Molecular Analysis of Norepinephrine Transporters 1994-1998
5. **Children's Brain Disease Foundation Award**
Molecular Biology of Creatine Transport 1993-1994
6. **Batten's Disease Support and Research Association**
Creatine Transport in Batten's Disease 1993-1994
7. **Emory University Research Council Award**
Electrophysiological Analysis of Neurotransmitter Transporter
In *Xenopus laevis* oocytes, PI. 1993-1994
8. **NIH/NIDDK R01 DK44986, Co-Inv (Brian Noe, Emory, PI)**
Prohormone Converting Enzyme Specificity and Regulation 1992-1995
9. **PMAF Fellowship Advisor for Dr. Sally Schroeter** 1994-1996
10. **Vanderbilt Diabetes Research & Training Pilot**
Insulin Regulation of the Norepinephrine Transporter 1995-1997
11. **NARSAD Established Investigator Award** 1996-1997
12. **NIH NRSA, Advisor to Dr. Eric Barker** 1995-1998
13. **CIDA Award for Dr. Mario Saltarelli, Advisor** 1993-1998
14. **American Cyanamid Research Grant**
Molecular Analysis of *C. Elegans* Neurotransmitter Transporters 1997
15. **NIH/NINDS NS34075, Co-Inv (L. Defelice, Vanderbilt, PI)**
Biophysics of Norepinephrine Transporter 1996-2004
16. **Bristol-Myers Squibb Research Award**
Identification and Characterization of a Transporter for the
Endogenous Cannabinoid, Anandamide 1997-1999
17. **U.S. Civilian Research, Co-PI (with Dr. Oleg Brusov & Dr. Richard Lozier)**
Analysis of Glycosylation and Phosphorylation of the Human Serotonin
Transporters in Mental Illness 1997-1999
18. **NIH/NIMH T32 MH19732, PI**
Cellular and Molecular Neuroscience Training 1999-2002
19. **Cure Autism Now Research Grant, PI**

	Serotonin Transporter Gene and Autism	1998-2000
20.	NIH/NIMH R01 MH58921, PI	
	Acute Regulation of Norepinephrine Transporters	1998-2004
21.	NIH SBR MH60063, Co-Inv (Advanced Targeting, Inc, Lead)	
	Monoclonal Antibodies to Target Specific Neuronal Population	1999
22.	Department of Energy/Oak Ridge National Laboratory 4500008014, Co-Inv	
	Tennessee Mouse Consortium (subcontract)	1999
23.	Intramural Discover Grant, PI	
	Nanocrystal Probes for CNS Drug Targets	1999-2001
24.	NIH/NIDA R01 DA07390, PI	
	Regulation of Serotonin Transporters	1999-2005
25.	Vanderbilt University Hobbs Society Research Award, PI	
	Serotonin Transport Polymorphisms in Juvenile Obsessive Compulsive Disorders	2000-2001
26.	NIH/NIMH MH61971, PI	
	Targeted Mutagenesis of the Mouse Genome and Neural Phenotypes	2000-2005
27.	NIH/NIDDK P01 DK58212, Co-Inv (K. Strange, Vanderbilt, PI)	
	Molecular Physiology of Membrane Transport in <i>C. elegans</i>	2000-2005
28.	NIH/NIHLBI P01 HL056693, Co-Inv (D. Robertson, Vanderbilt PI)	
	Autonomic Cardiovascular Regulation	2002-2012
29.	NIH/NIDA R01 HD035684, Co-Inv	
	Prader-Willi Syndrome: Correlates of Compulsivity	2003-2008
30.	University of North Dakota R01 DA13141, Co-Inv (R. Vaughan, PI)	
	Phosphorylation and Regulation of Dopamine Transporters	2003-2008
31.	Institutional Discovery Grant – Vanderbilt University Office of Research	
	Cardiovascular Analysis of Choline Transporter Deficient Mice	2004-2005
32.	Alzheimer's Association Zenith Award ZEN-04-1001, PI	
	A Chemical Genetic Screen for Modifiers of Presynaptic Choline Transport	2004-2006
33.	NIH/NINDS R01 NS034075, Co-PI (L. Defelice, Vanderbilt PI)	
	Biophysics of Norepinephrine Serotonin Transporters	2004-2008
34.	NIH/NIMH R01 MH073159 MERIT AWARD, PI	
	Molecular Analysis of Presynaptic Choline Transporters	2004-2014
35.	NIH/NIMH R01 MH058921, PI	
	Acute Regulation of Norepinephrine Transporters	2004-2009
36.	NIH/NIBIB EB03728-03 Co-Inv (S. Rosenthal, Vanderbilt, PI)	
	Quantum Dot Nanoconjugate Imaging of Neural Receptors	2004-2011
37.	NIH/NIMH MH65215, PI	
	Postdoctoral Training Program in Functional Neurogenomics	2004-2016
38.	NIH/NIMH R01 MH094527 (Blakely, PI)	
	Regulation of Serotonin Transporters	1992-2024
39.	NARSAD Distinguished Investigator Award	
	A Knock-In Model to Elucidate Serotonin Specific Gene Regulatory Networks	2005-2006
40.	Wyeth Research Grant, PI	
	Evaluation of The Interaction of Novel Norepinephrine Reuptake Inhibitors At the Norepinephrine Transporter	2005-2006
41.	Forest Research Institute, Research Grant, PI	
	Interactions of Escitalopram and R-Citalopram With Human Serotonin Transporters	2005-2006
42.	NIH/NIMH Silvio O. Conte Center P50 MH078028, PI	
	Genes Controlling Assembly and Function of Serotonin Systems	2007-2012
43.	NIH/NHLBI, PO1 HL56693, Co-Inv (D. Robertson, Vanderbilt PI)	
	Autonomic Cardiovascular Regulation	2007-2012
44.	NIH/NIMH T32 MH065215, PI	
	Postdoctoral Training Program in Functional Neurogenomics, PI	2008-2018

45.	Forest Research Institute, Research Grant, PI Dissection of the SSRI Actions at Serotonin Transporters using Integrated Structural Biology, Biochemical, and Transgenic Approaches	2008-2009
46.	NIH/NIDA R21 DA027739, PI Forward Genetics and the Presynaptic Dopamine Transporter	2009-2011
47.	NIH/NICHD R01 HD065278, PI Transgenic Mouse Model to Address Heterogeneity in Autism Spectrum Disorders	2009-2011
48.	NIH/NIMH R01 MH086530, Co-Inv (M. Sarter, U Michigan, PI) Choline Transporter Capacity Limits Motivated Behavior on Mice, Rats and Humans	2010-2015
49.	NIH/NCRR P41RR028133 Project Leader (R. Caprioli, Vanderbilt, PI) Imaging Mass Spectrometry Research Resource	2011-2015
50.	NIH/NIMH R21MH086033, PI Interleukin-1 (IL1) Receptor-Mediated Modulation of Serotonin Transporters	2011-2012
51.	AMGEN Research Project, PI Proline Transporter Neurobiology	2012-2013
52.	NIH/NIMH R01 MH095044, PI Presynaptic Regulation of <i>C. elegans</i> Dopamine Transporter	2012-2017
53.	NeuroDetective/Prexa, PI Impact of Novel Agents of Mutant Dopamine Transporters	2013-2013
54.	NeuroDetective/Prexa, PI Mechanisms of Action of DAT Inhibitors	2013-2014
55.	Lundbeck, Research Project, PI Dissection of the Role of the Presynaptic Serotonin Transporter in the Actions of Vortioxetine	2013-2014
56.	Institute for Psychiatric Neuroscience, PI Immune System Signaling Impact on Depression and Social Defeat Behaviors	2013-2014
57.	Dystonia Medical Research Foundation Research Award, PI Development of Novel Reagents to Augment Cholinergic Signaling in Dystonia	2014-2016
58.	Silvio O. Conte Center NIH/NIH P50 MH096972, PI Enduring Effects of Early-Life Serotonin Signaling	2012-2017
59.	Simons Foundation SFARI Research Award, PI Immune p38 MAPK Activation: Convergent Mechanism Linking ASD Models	2014-2017
60.	Pew Charitable Trusts, PI Procurement of Leading Technologies in Neuroscience	2017-2019
61.	NIH/NIMH 5R01 MH105094 (Blakely PI) Knock-In Mouse Model of Dopamine Dysfunction Underlying Traits of ADHD	2014-2020
62.	FAU-Israel Pilot Grant Initiative (Blakely, PI) Impact of HBOT on Neuroinflammatory Signaling and Anxiety/Depressive Behavior in Adult Mice Subjected to Neonatal Maternal Separation	
63.	Mangurian Center for Alzheimer's Disease Research (Blakely) Role of Copper Homeostasis in the Contribution of SWIP-10/MBLAC1 to Alzheimer's Disease	2020-2021
64.	P. Srinivasan Fund to support neuroinflammatory research	2021-2022
65.	Psychiatric Neuroscience Institute support for serotonin research	2021-2022
66.	I-SENSE/CoE&CS Pilot Grant (Ranji and Blakely Co-PI) Optical Imaging-Based Assessment of <i>Ex Vivo</i> Metabolic Dysfunction in Mice with a Genetic Deficiency in MBLAC1, a Risk Factor for Alzheimer's Disease	2021-2022
67.	Florida Department of Health: Ed and Ethel Moore Alzheimer's Research Foundation (Blakely, PI) <i>In Vivo</i> Functional Analysis of MBLAC1: A Novel Genetic Risk Factor in Alzheimer's Disease with Therapeutic Potential	2022-2024

68.	NIH/NIA R21 AG074846 (Blakely and Ashery, Co-PI) Neuronal IL-1R1 and Neuropsychiatric Traits of an Alzheimer's Mouse Model	2022-2024
69.	Brain Foundation Mechanism Supporting SERT Ala56 Induction of Inflammation	2021-2024

ACTIVE

1.	ASCEND Program Advancing STEM-Community Engagement through Neuroscience Discovery Stiles-Nicholson Foundation (Blakely, PI)	2018-2025
2.	Community Foundation, (Blakely PI) Research on Addiction and Depression	2019-2025
3.	NIH/NINDS R01NS116914, Co-Inv (N. Quan, PI, Blakely, Col) Neuroinflammation, Neuronal IL-1R1 and Behavior	2020-2025
4.	David Nicholson Award (Blakely, PI) Establishment of the Stiles-Nicholson Brain Institute	2021-2031
5.	David Nicholson Award (Blakely, PI) David J. S. Nicholson Distinguished Professorship in Neuroscience	2021-present
6.	Palm Health Foundation (Blakely, PI) Program in Computational Brain Science and Health	2022-2025
7.	Community Foundation of Broward, Sharon and Ashby Fund of County (Blakely, PI) Addressing Today's Mental Health Challenges for a Better Tomorrow	2023-2027
8.	JLSI/I-HEALTH SEED Proposal (Blakely and Bolton co-PI) Consequences and Possibilities for Treatment of Serotonergic mPFC Plasticities Induced in Female Mice by the Human Dopamine Transporter Coding Variant Ala559Val	2024-2025
9.	June Jones Foundation (Blakely, PI) Supporting Neuroscience Graduate Education (Blakely, PI)	2024-present
10.	Palm Health Foundation MBLAC1: A Novel Target for the Treatment of Glioblastoma	2025-present
11.	Community Foundation of Palm Beach and Martin Counties Funding for the Program in Resilient Aging, Center for the Resilient Mind, Stiles-Nicholson Brain Institute (Blakely, PI)	2025-present
12.	Palm Health Foundation (Blakely, PI) Lead Gift for Center for the Resilient Mind, Stiles-Nicholson Brain Institute (Blakely, PI)	2025-present
13.	Merrel Family Foundation (Blakely, PI) Gift for Center for the Resilient Mind, Stiles-Nicholson Brain Institute	2025-present
14.	Florida Dept of Health (A. Knapinska PI, Blakely, Co-I) Casey DeSantis Cancer Innovation Fund MBLAC1: A Novel Target for the Treatment of Gliolastoma	2025-2026
15.	NIH/NIAAA KO1 (L. Parise, PI, Blakely, Co-I) Peripheral Effectors in Alcohol-Induced Stress-Susceptibility and Blood-Brain Barrier Permeability	2025-2030

TRAINING HISTORY

HIGH SCHOOL RESEARCHERS (7)

1. Josh Kutsko, University School of Nashville
2. Ben Blakely, University School of Nashville
3. Victor Borza, University School of Nashville

4. Mira Wasserman, University School of Nashville
5. Sam Fisher, University School of Nashville
6. Vyapti Subramaniam, Suncoast High, Riviera Beach
7. Tanmay Mahani, Suncoast High, Riviera Beach

UNDERGRADUATE RESEARCHERS (82)

1. Melody Grey, Emory University
2. Andrea Bauman, Emory University
3. Julie Field, Vanderbilt University
4. Ben Waldorf, Vanderbilt University
5. Chelly Hines (Dykes), Vanderbilt University
6. Ariana Lichtenstein, Vanderbilt University
7. Katie Emerson, Vanderbilt University
8. Kristina Patterson, Vanderbilt University
9. Malav Chakravorti, Vanderbilt University
10. Michael McNeil, Brigham Young University
11. Nathan Richtand, Vanderbilt University
12. Chesney Oravec, Vanderbilt University
13. Faizzan Ahmad, Vanderbilt University
14. Meghan Randy, Vanderbilt University
15. Alec Knight, Vanderbilt University
16. Spencer Barrett, Vanderbilt University
17. Peter Reisz, Vanderbilt University
18. Peter Chisnell, Vanderbilt University
19. Raymond Rivera, University of Puerto Rico
20. Jillian Berkman, Bowdoin College
21. William Waters, Lipscomb University PharmD Program
22. Hussain Jinnah, Vanderbilt University
23. Lise Harbom, Vanderbilt University
24. Francisco Ochoa-Vargas, Vanderbilt University
25. Kristen Bater, Vanderbilt University
26. Ryan Glynn, Vanderbilt University
27. Austin Wheeler, Vanderbilt University
28. Claire Miller, Eckard College
29. Evan Pohl, Vanderbilt University
30. Alexandra Moussa-Tooks, Vanderbilt University
31. Jarrod Smith, Vanderbilt University
32. Angela Rao, Vanderbilt University
33. Tessa Popay, University of Auckland
34. Sam Snider, Vanderbilt University
35. Helyn Grissom, Vanderbilt University
36. Michael Levin, Vanderbilt University
37. Alexie Poch, Vanderbilt University
38. Lance Lehman, Vanderbilt University
39. David Roberts, Vanderbilt University
40. Austin McMeekin, Vanderbilt University
41. Joseph Balbona, Vanderbilt University
42. Robert Bruner, Emory University
43. Peace Odiase, Fisk University
44. Megan Kechner, Michigan State University
45. Victoria Hester, Vanderbilt University
46. David Botschner, Vanderbilt University
47. Justin Riele, Vanderbilt University
48. Nina Vaswani, Vanderbilt University

49. Anne Walker, Vanderbilt University
50. Victoria Hester, Vanderbilt University
51. Olivia Lee, Vanderbilt University
52. Jason Thome, Vanderbilt University
53. Emily Xu, Vanderbilt University
54. Peter Rodriguez, Barry University
60. Jason Baluja, Florida Atlantic University (College of Science)
63. Alaina Tillman, Florida Atlantic University (College of Science)
64. James Floyd, Florida Atlantic University (College of Science)
65. Zayna Gichi, Florida Atlantic University (College of Science)
66. Hanna Phelps, Florida Atlantic University (College of Science)
67. Steven Shatkhin, Florida Atlantic University (Wilkes Honors College)
68. Vuong Tran, Florida Atlantic University (Wilkes Honors College)
69. Gloria Morales, FAU Summer SINE/REU Program
70. Natalie Souza (Wilkes Honors College)
71. Tristan Wells, Florida Atlantic University (College of Science)
72. Ahmarne Hammett, Florida Atlantic University (Wilkes Honors College)
73. Sara Rivera-Aguirre, Florida Atlantic University (College of Science)
74. Siddhi Gavkar, Florida Atlantic University (Wilkes Honors College)
75. Nicolas Salas, Florida Atlantic University (College of Science)
76. Erin Bell, Florida Atlantic University, (Wilkes Honors College)
77. Abel Abraham, Florida Atlantic University (Wilkes Honors College)
78. Sofia Wasilewski, Florida Atlantic University (Wilkes Honors College)
79. Cristal Augur, Florida Atlantic University (FAU High, Wilkes Honors College)
80. Loukens Phillipe, Florida Atlantic University (Wilkes Honors College)
81. Sam Mittleman, Florida Atlantic University (Wilkes Honors College)
82. Vikram Rengathan, Florida Atlantic University (Wilkes Honors College)

UNDERGRADUATE HONORS STUDENTS (38)

1. Melody (Mindy) Grey, Emory University (*summa cum laude*)
2. Julie Field, Vanderbilt University (*summa cum laude*)
3. Katie Emerson, Vanderbilt University (*summa cum laude*)
4. Peter Reisz, Vanderbilt University (*cum laude*)
5. Peter Chisnell, Vanderbilt University (*summa cum laude*)
6. Hussain Jinnah, Vanderbilt University (*summa cum laude*)
7. Lise Harbom, Vanderbilt University (*cum laude*)
8. Kristin Bater, Vanderbilt University (*summa cum laude*, *Founder's Medal*)
9. Jarrod Smith, Vanderbilt University (*summa cum laude*)
10. Sam Snider, Vanderbilt University (*summa cum laude*)
11. Joseph Balbona, Vanderbilt University (*cum laude*)
12. Alaina Tillman, FAU/Max Planck Honors Program
13. Angelica Bodine, FAU/Max Planck Honors Program
14. Tiffany Zhang, FAU/Max Planck Honors Program
15. Jourdan DeFrain, FAU Wilkes Honors College
16. Steven Shatkhin, FAU Wilkes Honors College
17. Kyria Whickham, FAU Wilkes Honors College
18. Melanie Hart, FAU Wilkes Honors College
19. Kia Ghods, Florida Atlantic University
20. Melanie Hart, FAU Wilkes Honors College
21. Camden Weist, FAU Wilkes Honors College
22. Michelle Velez, FAU Wilkes Honors College
23. Jitesh Persaud, FAU Wilkes Honors College
24. Siddhi Gavkar, FAU Wilkes Honors College
25. Sofia Wasilewski, FAU Wilkes Honors College

26. Abbie Nwiloh, FAU Wilkes Honors College
27. Faakhira Dilijohn, FAU Wilkes Honors College
28. Elizabeth Potts, FAU Wilkes Honors College
29. Divyesh Doddapaneni, FAU Wilkes Honors College
30. Ashleigh Ellis, FAU Wilkes Honors College
31. Rodeania Pert, FAU Wilkes Honors College
32. Edward Jackson, FAU Wilkes Honors College
33. Natalie Souza, FAU Wilkes Honors College
34. Sofia Waslewski, FAU Wilkes Honors College
35. Erin Bell, FAU Wilkes Honors College
36. Cristal Auger, FAU Wilkes Honors College
37. Loukens Phillipe, FAU Wilkes Honors College
38. Samuel Mittleman, Fau Wilkes Honors College
39. Ahmarne Hammett, FAU Wilkes Honors College
40. Nicolas Salas, FAU College of Science

GRADUATE TRAINEES (DIRECT AND CO-MENTORED (43))

1.	Haley Melikian, Ph.D. Advisor, Neuroscience Emory SOM	1991-1995
2.	Yan Qian, Ph.D. Advisor, Neuroscience Emory SOM	1992-1996
3.	Chris Bradley, Ph.D. Advisor, Neuroscience Emory SOM	1992-1997
4.	Andrea Bauman, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	1995-2000
5.	Nancy Flattem, MS Advisor, Pharmacology , Vanderbilt SOM	1996-2001
6.	Erika Adkins, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	1996-2000
7.	Shawn Ferguson, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	1999-2004
8.	Michelle Mazei-Robison, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2000-2005
9.	Heather Farmer, MS Advisor, Pharmacology , Vanderbilt SOM	2000-2003
10.	Paul McDonald, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2001-2006
11.	Mihaela Bazalakova, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2001-2007
12.	Jennifer A. Steiner, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2003-2009
13.	Brett English, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2004-2009
14.	David Lund, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2005-2010
15.	Julie Field, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2005-2010
16.	Dhananjay Sakrikar, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2006-2012
17.	Jerry Chang, Ph.D. Co-Advisor Chemistry (Rosenthal), Vanderbilt	2006-2012
18.	Marc Mergy, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2007-2013
19.	Leda Ramoz, Master's Advisor, Neuroscience , Vanderbilt SOM	2008-2010
20.	James (Andrew) Hardaway, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2008-2013
21.	Oleg Kovtun, Ph.D. Co-Advisor Chemistry (Rosenthal), Vanderbilt	2009-2013
22.	Alexander Nackenoff, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2010-2016
23.	Rolicia Martin, Mentor, IMSD Program , Vanderbilt SOM	2010-2011
24.	Daniel Bermingham, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2011-2016
25.	Elizabeth Ennis, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2011-2016
26.	Gwynne Davis, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2012-2017
27.	Cassandra Retzlaff, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2012-2017
28.	Chelsea Gibson, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2013-2018
29.	Raajaram Gowrishankar, Ph.D. Advisor, Neuroscience , Vanderbilt SOM	2012-2018
30.	Meagan Quinlan, Ph.D. Advisor, Pharmacology , Vanderbilt SOM	2013-2019
31.	Isabel Stillman, Medical Student , FAU SOM	2016-2018
32.	Max Rabil, Post-Bac , Brain Institute FAU	2017-2019
33.	Samantha McGovern, Master's Advisor, Integrative Biology	2018-2020
34.	Peter Rodriguez, Ph.D. Advisor, Integrative Biology	2018-2024
35.	Samantha Stilley, Masters. Advisor, Integrative Biology – Neuroscience ,	2019-2021
36.	Carina Arnold, Ph.D. Advisor, IMPRS/Integrative Biology – Neuroscience	2019-present

37.	Jacob Lamar, Ph.D. Advisor, Integrative Biology – Neuroscience	2021-2023
38.	Allison Walsh, Ph.D. Mentor, Integrative Biology – Neuroscience	2022-present
39.	Tristan Wells, Post-Bac, Brain Institute, FAU	2025-present
40.	Cara Melillo, Masters Mentor, Exp Psychology	2023-2025
41.	Gabriella Smith, PhD Advisor, FAU Neuroscience Graduate Program	2024-present
42.	Mason Martin, PhD Co-Adv (L. Tian) FAU Neuroscience Graduate Program	2024-present
43.	Anna Cook, PhD, NGP Rotation Student	2025

POSTDOCTORAL FELLOWS/RESEARCH FACULTY (41)

1.	Eric Barker, Ph.D. (Vanderbilt University)	1993-1998
2.	Mario Saltarelli, M.D., Ph.D. (Johns Hopkins University)	1993-1995
3.	Sally Schroeter, Ph.D. (University of Michigan)	1994-2000
4.	Subramanian Apparsundaram, Ph.D. (University Houston)	1995-2000
5.	Sammanda Ramamoorthy, Ph.D., (University of Madras)	1995-2000
6.	Jeffrey Fritz, Ph.D., (University of Wisconsin-Madison)	1996-1997
7.	Margaret Sutherland, Ph.D., (Cambridge University)	1996-1999
8.	Patricia Bauman, Ph.D., (University of Arizona)	1997-2002
9.	Alexandra Belous, M.D., Ph.D., (University of Moscow)	1999-2002
10.	Uhna Sung, Ph.D., (Rutgers University, NJ)	1998-2007
11.	Richard Nass, Ph.D., (Johns Hopkins University)	1998-2003
12.	Maureen Hahn, Ph.D., (Wayne State University)	1999-2005
13.	Valentina Savchenko, Ph.D., (Bogomoletz Inst. of Physiology, Kiev, Ukraine)	2000-2006
14.	Loren (Keith) Henry, Ph.D., (University of TN Knoxville)	2000-2008
15.	Hemant Agarwal, M.D., Ph.D., (Vanderbilt University)	2002
16.	Chongbin Zhu, Ph.D., (Shanghai Medical University, China)	2002-2012
17.	Harish Prasad, M.D., Ph.D., (Gauhati University, India)	2002-2012
18.	John Mason, Ph.D., (Oregon Health Sciences University, Portland, OR)	2002-2007
19.	Ana Marin-Carneiro, Ph.D., (Federal University of Minas Gerais, Brazil)	2003-2010
20.	Dawn Matthies, Ph.D., (University of CA at Davis)	2003-2008
21.	Alicia Ruggiero, Ph.D., (Johns Hopkins University)	2004-2012
22.	Brent Thompson, Ph.D. (Vanderbilt University)	2005-2009
23.	Shannon Hardie, Ph.D. (University of Virginia)	2005-2009
24.	Jeremy Veenstra-VanderWeele, M.D. (University of Chicago)	2006-2009
25.	Jomo Claiborne, Ph.D. (Meharry Medical College)	2007-2008
26.	Leah Miller, Ph.D. (Meharry Medical College)	2008-2011
27.	Patricia Ritch, M.D., Ph.D. (University of Alabama at Birmingham)	2008-2009
28.	Ran Ye, Ph.D. (University of Montana)	2009-2015
29.	Nicole Baganz, Ph.D. (UT San Antonio Health Sciences Center)	2010-2020
30.	Sarah Bass Robinson, Ph.D. (University of Georgia)	2010-2015
31.	Ericka Holmstrand, Ph.D. (University of Pittsburgh)	2010-2013
32.	Hideki Iwamoto, Ph.D. (Tokyo University)	2010-present
33.	Mauree Hahn, Ph.D. Research Assoc and Full Professor (FAU College Med)	2013-present
34.	Tiffany Rogers, Ph.D. (Memphis State Univ)	2014-2015
35.	Matthew Robson, Ph.D. (West Virginia University)	2013-2017
36.	Adele Stewart, Ph.D. (University of Iowa)	2014-2022
37.	Osama Refai, Ph.D. (University of Calgary)	2015-2022
38.	Paula Gajewski-Kurdziel, Ph.D. (Michigan St.)	2017-2023
39.	Felix Mayer, Ph.D. (University of Vienna)	2018-2023
40.	Lorena Areal, Ph.D. (Federal University of Minas Gerais)	2018-2022
41.	Adele Stewart, Ph.D. Res Asst Professor, (FAU College of Med)	2022-2024
42.	Matthew Schrier, Ph.D. (Nova Southeastern Univ) - Co-Mentor with N. Quan	2022-2025
43.	Paula Gajewski, Ph.D., Res Asst Professor (FAU Brain Institute)	2023-present
44.	Jana Strickler, Ph.D., Res Asst Professor (FAU Brain Institute)	2023-present

45.	Muhamed Zaka Asif, Ph.D. (University of Georgia)	2024-present

VISITING SCIENTISTS (11)

1.	Robert T. Fremeau, Jr., Ph.D., Duke University	1991
2.	Sammanda Ramamoorthy, Ph.D., Medical College of Georgia	1992-1993
3.	Sally Schroeter, Ph.D., Emory University	1993-1994
4.	Margaret Sutherland, Ph.D., Baylor School of Medicine	1994
5.	Joseph Justice, Jr., Ph.D., Emory University	1995-1996
6.	Twum-Ampofo Ansah, Ph.D., Meharry Medical College	1997-2003
7.	Robert Grammar, Belmont University	2001
8.	Michael Ivy, Ph.D. Tennessee St. Univ	2007-2009
9.	Jin Zingliang, Shanghai Univ	2010-2011
10.	Gabriela Horvath, M.D. Univ British Columbia	2011
11.	Phyllis Freeman, Ph.D., Fisk University	2011-2013

RESEARCH STAFF (27)

1.	Margaret Peek	1990-1992
2.	Kim Moore	1992-1995
3.	Denise Malone	1995-2001
4.	Susan DeFelice	1998-2000
5.	Tammy Jessen	2000-2008
6.	Qiao Han	1998-2016
7.	Jane Wright	1999-2016
8.	Angela Hunt Steele	2000-2016
9.	Christina Svitek	2008-2016
10.	Kathryn Lindler	2009-2012
11.	Gail Ingle	2009-2012
12.	Sarah (Whitaker) Sturgeon	2009-2015
13.	Tracy Moore-Jarrett	2009-2016
14.	Romell Gletten	2013-2014
15.	Maria Davenport	2014-2015
16.	Kimberly Drake	2016
17.	Matthew Gross	2016-2022
18.	Peter Rodriguez	2016-2018
18.	Catherine Nettesheim	2016-2017
19.	Rania Katamish	2016-2022
20.	Samara Vilca	2016-2017
21.	Erika Catriz	2017-2018
22.	Sean Mellish	2017-2019
23.	Alaina Tillman	2019-2022
24.	Tiffany Zhang	2022-present
24.	Zayna Gichi	2020-2023
25.	Anna Stauffer	2022-present
26.	Zachary Filliben	2022-present
27.	Manuela Zapata	2024-present
28.	Samantha Stoltz	2025-present

WORK/STUDY ASSISTANTS (25)

1.	Christa Green
2.	Donnie Zoz
3.	Michelle Gilbert
4.	Samuel Arthur Moore
5.	Cody Carroll

6. Sarah Rachmiel
7. Sonya Sowerby
8. Shauna St. Clair
9. Jordan Knepper
10. Jonathan Dial
11. Terri Ellen Byrd
12. Wynter Foley
13. Spencer Barret
14. Tanner Strickland
15. Ryan Glynn
16. Grace Randazzo
17. Leah Caplan
18. Elliot Dean
19. Sam Snider
20. Victoria Hester
21. Christina Hwang
22. Nicholas Hyman
23. Keeley Spiess
24. Heather Butler
25. Sara Rivera-Aguirre

PUBLICATIONS: 370 published, *in press*, or *submitted* (h-index = 110; i10-index = 319, citations = 38,640 (Google Scholar))

1. Herndon, J.G., Allen, W.C., and Blakely, R.D. Increases in testosterone levels and in copulatory behavior of male rhesus monkeys following treatment with human chorionic gonadotrophin, **Horm Behav**, 14:337-347, 1980. [PMID: 7216185]
2. Lindsay, W.S., Herndon, J.G., Jr., Blakely, R.D., Justice, Jr., J.B., and Neill, D.B. Voltammetric recording from neostriatum of behaving rhesus monkey, **Brain Res**, 220:391-396, 1981. [PMID: 7284764]
3. Blakely, R.D., and Duvarney, R.C. A microcomputer-controlled system for monitoring multiple voltammetric electrodes *in vivo*, **Brain Res Bull**, 10:315-320, 1983. [PMID: 6133600]
4. Justice, Jr., J.B., Wages, S.A., Michael, A.C., Blakely, R.D., and Neill, D.B. Interpretations of voltammetry based on chromatography of striatal dialysate, **J Liq Chrom**, 6:1873-1896, 1983.
5. Blakely, R.D., Wages, S.A., Justice, Jr., J.B., Herndon, J.G., and Neill, D.B. Neuroleptics increase striatal catecholamine metabolites but not ascorbic acid in dialyzed perfusate, **Brain Res**, 308:1-8, 1984. [PMID: 6206916]
6. Blakely, R.D., Ory-Lavollée, L., Thompson, R.C., and Coyle, J.T. Synaptosomal transport of radiolabel from N-acetyl-aspartyl-[³H]glutamate suggests a mechanism of inactivation of an excitatory neuropeptide, **J Neurochem**, 47:1013-1019, 1986. [PMID: 2875126]
7. Coyle, J.T., Blakely, R.D., Zaczek, R., Koller, K.J., Abreu, M., Ory-Lavollée, L., Fisher, R., French-Mullen, J.M., Carpenter, D.O. Acidic peptides in brain: Do they act at putative glutamatergic synapses? **Adv Exp Med Biol**, 203:375-384, 1986. [PMID: 2878566]

8. Fisher, R.S., French-Mullen, J.M.H., Zaczek, R., Blakely, R.D., and Coyle, J.T. Dipeptides containing glutamate as endogenous neuroexcitatory agents, in **Neurotransmitters and Epilepsy**, Raven Press, New York, 1986.
9. Robinson, M.B., Blakely, R.D., and Coyle, J.T. Quisqualate selectively inhibits a brain peptidase which cleaves N-acetyl-L-aspartyl-L-glutamate *in vitro*, **Eur J Pharm**, 130:345-347, 1986. [PMID: 3539626]
10. Blakely, R.D., Ory-Lavollée, L., Grzanna, R., Koller, K.J., and Coyle, J.T. Selective immunocytochemical staining of mitral cells in rat olfactory bulb with affinity purified antibodies against N-acetyl-aspartyl glutamate, **Brain Res**, 402:373-378, 1987. [PMID: 2435366]
11. Ory-Lavollée, L., Blakely, R.D., and Coyle, J.T. Neurochemical and immunocytochemical studies on the distribution of N-acetyl-aspartylglutamate and N-acetyl-aspartate in rat spinal cord and some peripheral nervous tissues, **J Neurochem**, 48:895-899, 1987. [PMID: 3543223]
12. Robinson, M.B., Blakely, R.D., Couto, R., and Coyle, J.T. Hydrolysis of the brain dipeptide N-acetyl-L-aspartyl-L-glutamate: Identification and characterization of a novel N-acetylated α -linked acidic dipeptidase activity from rat brain, **J Biol Chem**, 262:14498-14506, 1987. [PMID: 3667587]
13. Blakely, R.D., Ory-Lavollée, L., and Coyle, J.T., Specific alterations in the levels of N-acetyl-aspartyl-glutamate in the nervous system of the dystrophic mouse, **Neurosci Lett**, 79:223-228, 1987. [PMID: 3670731]
14. Forloni, G., Grzanna, R., Blakely, R.D., and Coyle, J.T. Co-localization of N-acetyl-aspartyl-glutamate in central cholinergic, noradrenergic, and serotonergic neurons, **Synapse**, 1:455-460, 1987. [PMID: 3505373]
15. Blakely, R. D. The Neurobiology of N-acetyl-aspartyl-glutamate, *Doctoral Thesis*, Department of Neuroscience, The Johns Hopkins School of Medicine, Baltimore, MD, 1987.
16. Blakely, R.D., Robinson, M.B., Thompson, R.C., and Coyle, J.T. Hydrolysis of the brain dipeptide N-acetyl L-aspartyl-L-glutamate: Subcellular and regional distribution, ontogeny, and the effect of lesions on N-acetylated- α -linked acidic dipeptidase activity, **J Neurochem**, 50:1200-1209, 1988. [PMID: 3346674]
17. Guarda, A.S., Robinson, M.B., Ory-Lavollée, L., Forloni, G., Blakely, R.D., and Coyle, J.T. Quantitation of N-acetyl-aspartyl-glutamate in microdissected rat brain nuclei and peripheral tissues: Findings with a novel liquid phase radioimmunoassay, **Brain Res**, 427:223-232, 1988. [PMID: 3401700]
18. Blakely, R.D., Robinson, M.B., Guarda, A.S., and Coyle, J.T., A re-examination of the interaction N-acetyl-L-aspartyl-L-glutamate with a subpopulation of rat brain membrane L-[^{3} H]-glutamate binding sites, **Eur J Pharm**, 151:419-426, 1988. [PMID: 2850921]
19. Blakely, R. D., Robinson, M. B., and Amara, S. G. Expression of neurotransmitter transport from rat brain mRNA in *Xenopus laevis* oocytes, **Proc Natl Acad Sci USA**, 85:9846-9850, 1988. [PMID: 2904681]
20. Blakely, R.D., and Coyle, J.T., The neurobiology of N-acetylasparylglutamate, in **International Review of Neurobiology**, (J.R. Smythies and R. Bradley, editors), Academic Press, New York, 39-100, 1988.

21. Pacholczyk, T., Blakely, R. D., and Amara, S. G. A device to rapidly core out tissue culture plates for autoradiographic visualization of cells transfected with cDNA libraries, **BioTechniques**, 9:557-558, 1990. [PMID: 2268421]
22. Coyle, J.T., Stauch-Slusser, B., Tsai, G., Rothstein, J., Meyehoff, J.L., Simmons, M., and Blakely, R.D., N-Acetyl-aspartylglutamate: Recent Developments, in **Excitatory Amino Acids**, (B.S. Meldrum, F. Moroni, R.P. Simon, and J.H. Woods, editors), Raven Press, New York, 69-77, 1991.
23. Blakely, R. D., Clark, J. A., Pacholczyk, T., and Amara, S. G., Distinct, developmentally regulated brain mRNAs direct the synthesis of neurotransmitter transporters, **J Neurochem**, 56:860-871, 1991. [PMID: 1671586]
24. Blakely, R. D., Clark, J. A., Rudnick, G., and Amara, S. G., Vaccinia-T7 RNA polymerase expression system: Evaluation for the expression cloning of plasma membrane transporters, **Anal Biochem**, 194:302-308, 1991. [PMID: 1862934]
25. Pacholczyk, T., Blakely, R. D., and Amara, S. G. Expression cloning of a cocaine- and antidepressant-sensitive human noradrenaline transporter, **Nature**, 350:350-354, 1991. [PMID: 2008212]
26. Blakely, R.D., Berson, H.E., Freneau, Jr., R.T., Caron, M.G., Peek, M.M., Prince, H.K., and Bradley, C.C. Cloning and expression of a functional serotonin transporter from rat brain, **Nature**, 354:66-70, 1991. [PMID: 1944572]
27. Blakely, R.D. Advances in molecular biology of neurotransmitter transporters, **Curr Op Psychiatry**, 5:69-73, 1992.
28. Freneau, Jr., R.T., Caron, M.G., and Blakely, R.D. Molecular cloning and expression of a high-affinity L-proline transporter expressed in putative glutamatergic pathways of rat brain, **Neuron**, 8:915-926, 1992. [PMID: 1350201]
29. Blakely, R.D. The norepinephrine transporter, **Neuroscience Facts**, 3:50-51, 1992.
30. Blakely, R.D. and Berson, H.E. Molecular biology of serotonin receptors and transporters, **Clin Neuropharmacol**, 15, Suppl 1, Pt. A, 351A-352A, 1992. [PMID: 1498868]
31. Blakely, R.D. Molecular cloning and characterization of neurotransmitter transporters, **NIDA Res Monogr**, 126:66-83, 1992. [PMID: 1362795]
32. Ramamoorthy, S., Prasad, P.D., Kulanthaivel, P., Leibach, F.H., Blakely, R.D., and Ganapathy, V. Expression of a cocaine-sensitive norepinephrine transporter in the human placental syncytiotrophoblast, **Biochemistry**, 32:1346-1353, 1993. [PMID: 8448143]
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34. Blakely, R.D., Moore, K.R., and Qian, Y. Tails of serotonin and norepinephrine transporters: Deletions and chimeras retain function, in **Molecular Biology and Function of Carrier Proteins** (L. Reuss, J.M. Russell, and M.L. Jennings, editors), The Rockefeller University Press, New York, 283-300, 1993. [PMID: 8503051]

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37. Melikian, H.E., McDonald, J.K., Gu, H., Rudnick, G., Moore, K.R. and Blakely, R.D. Human norepinephrine transporter: Biosynthetic studies using a site-directed polyclonal antibody, **J Biol Chem**, 269:12290-12297, 1994. [PMID: 8163533]
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39. Ramamoorthy, S., Leibach, F.H., Mahesh, V.B., Han, H., Yang-Feng, T., Blakely, R.D. and Ganapathy, V. Functional characterization and chromosomal localization of a cloned taurine transporter from human placenta, **Biochem J**, 300:893-900, 1994. [PMID: 8010975]
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41. Barker, E.L., Kimmel, H.L., and Blakely, R.D. Chimeric human and rat serotonin transporters reveal domains involved in recognition of transporter ligands, **Mol Pharmacol**, 46:799-807, 1994. [PMID: 7969065]
42. Tate, C.G. and Blakely, R.D. The effect of N-linked glycosylation on activity of the Na⁽⁺⁾ and Cl⁽⁻⁾-dependent serotonin transporter expressed using recombinant baculovirus in insect cells, **J Biol Chem**, 269:26303-26310, 1994. [PMID: 7523405]
43. Blakely, R.D., DeFelice, L.J., and Hartzell, H.C. Molecular physiology of norepinephrine and serotonin transporters, **J Exp Biol**, 196:263-281, 1994. [PMID: 7823027]
44. Pitt, B.R., Weng, W., Steve, A.R., Blakely, R.D., Reynolds, I., and Davies, P. Serotonin increases DNA synthesis in rat proximal and distal pulmonary vascular smooth muscle cells in culture, **Am J Physiol**, 266: L178-L186, 1994. [PMID: 8141313]
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ABSTRACTS (494)

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464. Mayer, F.P., Velez, M., Stewart, A., Stewart, A., Vaughan, R.A., and Blakely, R.D. Kappa opioid receptor antagonism normalizes biochemical and behavioral phenotypes in mice expressing the ADHD-associated dopamine transporter variant Val559, SFN Global Connectome Meeting, 2021.

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466. Stewart, A., Mayer, F.P., Gorishankar, R., Davis, G.L., Peart, R., Spiess, K. and Blakely, R.D. Sexually dimorphic behavioral outcomes in DAT Val559 mice derive from homeostatic perturbations at pre- and post-synaptic sites, SFN Global Connectome Meeting, 2021.
467. Tillman, A., Gajewski-Kurdziel, P.A., Quan, N., and Blakely, R.D. Serotonergic IL-1R1 dependent regulation of CNS neuronal activation following peripheral LPS, Keystone Meeting on Neuroimmune Interactions in Health and Disease, 2021.
468. Gajewski-Kurdziel, P., Tillman, A., Baganz, N.L., Robson, M.J., Quan, N., and Blakely, R.D. Serotonergic IL-1R1 modulates serotonin transporter activity and impacts neuronal activity after LPS in a sex-dependent manner, Society for Neuroscience Meeting 2021
469. Baganz, N.L., C.O.Bennice, Cinalli, D.A., and Blakely, R.D. Advancing STEM-Community Engagement through Neuroscience Discovery (ASCEND): Developing youth interest in neuroscience and its careers, Society for Neuroscience Meeting 2021.
470. Mayer, F.P., Phelps, H., Iwamoto, H., and Blakely, R.D. Impact of functional dopamine coding variation on naturalistic reward-induced DA release in the nucleus accumbens in vivo as monitored by fiber photometry, Society for Neuroscience Meeting 2021.
471. Stewart, A., Mayer, F.P., Gowrishankar, R., Areal, L.B., Stilley, S.E., Bodine, A., and Blakely, R.D. Region-specific D2 autoreceptor signaling drives sex-biased behavioral changes in DAT Val559 mice, Society for Neuroscience Meeting 2021.
472. Rodriguez, P., Gichi, Z., Refai, O., Kalia, V., Miller, G.M., Khamoui, A., and Blakely, R.D. Glial expression of *swip-10* supports health and function of dopamine neurons via systemic mitochondrial and metabolic regulation, FAU Graduate and Professional Student Association, 2022.
473. Stewart, A., Mayer, F.P., Gowrishankar, R., Shatkhin, S., Stilley, S.E., and Blakely, R.D. Behaviorally penetrant, anomalous dopamine efflux exposes sex and circuit dependent regulation of dopamine transporters, Dopamine 2022 Meeting, 2022.
474. Mayer, F.P., Stewart, A., Velez, M., Rabil, M., Vaughan, R. A, and Blakely, R.D. Can kappa opioid receptor antagonism normalize biochemical and behavioral phenotypes in mice expressing the ADHD-associated dopamine transporter variant Val559? Dopamine 2022 Meeting, 2022.
475. Meinke, C., Mayer, F.P., Stewart, A., Ramamoorthy, S., and Blakely, R.D. Serotonin transporter (SERT) Ala276 mouse: Novel model to assess the biochemical, physiological, and behavioral impact of SERT Thr276 phosphorylation *in vivo*, Society for Neuroscience Meeting 2022.
476. Lamar, J., Gross, M.J., McGovern, S.J., Rodriguez, P., Grumbar, G.J., Mesa, H.A., Zhang, Q., Hahn, M.K., Blakely, R.D. Evidence of oxidative stress and inflammatory activation following genetic elimination in mice of Mblac1, an Alzheimer's disease risk gene, Society for Neuroscience Meeting 2022.
477. Rodriguez, P., Gichi, Z., Kalia, V., Lamar, J.A., Chang, C.J., Miller, G.W., Khamoui, A., Blakely, R.D. Glial-expressed *swip-10* supports neuronal signaling and health in *Caenorhabditis elegans*

via a novel copper reductase pathway that regulates global mitochondrial function and metabolic activity, Society for Neuroscience Meeting 2022.

- 478. Baganz, N.L., Cinalli, D.A., Bennice, C.O., Blakely, R.D. MobileMinds: Advancing STEM-Community Engagement through Neuroscience Discovery (ASCEND) by meeting young minds where they learn: A mobile approach to delivering neuroscience education to youth in schools and communities, Society for Neuroscience Meeting 2022.
- 479. Walsh, A.E., Katamish, R.M., Gajewski-Kurdziel, P.A., Iwamoto, H., Robson, M.J., O'Reilly, K.C., Veenstra-VanderWeele, J., Quan, N., and Blakely, R.D., Transgenic expression of the hypermorphic SERT Gly56 Ala substitution induces tonic innate immune activation in the CNS *in vivo*, Society for Neuroscience Meeting 2022.
- 480. Stewart, A., Davis, G.L., Mayer, F.P., Areal, L.B., Rabil, M.J., Blakely, R. D., Detection and pharmacological normalization of context-dependent repetitive and compulsive behaviors in mice expressing the psychiatric disease associated DAT Val559 variant, Society for Neuroscience Meeting 2022.
- 481. Klausner, S., Donovan, E., Avila, C., Parikh, V., Fenollar-Ferrer, C., Blakely, R.D., and Sarter, M. Alterations in sustained attention of mice expressing a choline transporter (CHT) coding variant I89V associated with poor attentional control in humans arises in the context of diminished *in vivo* choline clearance and an inability to sustain acetylcholine release, Society for Neuroscience Meeting 2022.
- 482. Mayer, Felix P. , Stewart, A., Velez, M., Rabil, M., Foster, J.D., Vaughan, R.A., Daws, L.C., Ramamoorthy, S., and Blakely, R.D., Kappa opioid receptor antagonism suppresses biochemical and behavioral phenotypes in mice expressing an ADHD and ASD -associated variant of the dopamine transporter, ACNP Meeting, 2022.
- 483. Gajewski-Kurdziel, P.A., Tillman, A., Iwamoto, H., Robson, M.J., Baganz, N.L., Quan, N., and Blakely, R.D. Serotonergic IL-1R1 modulates transporter and neuronal activity in a sex-dependent manner in response to peripheral inflammation, ACNP Meeting, 2022.
- 484. Ceyhan B., LaMar, J.A., Nategh, P., Neghabi, M., Konjalwar, S., Rodriguez, P., Hahn, M.K., Blakely, R.D., and Ranji, M. Optical imaging reveals liver metabolic perturbations in *Mblac1* KO mice, Institute of Electrical and Electronics Engineers Meeting, 2023.
- 485. Meinke, C., Stewart, A., Mayer, F.P., Fenollar Ferrer, C., Ramamoorthy, S., and Blakely, R.D. Serotonin transporter (SERT) Ala276 Mouse: Novel model to assess the biochemical, physiological and behavioral impact of SERT Thr276 phosphorylation *in vivo*. International Society for Serotonin Research Meeting, 2023.
- 486. Mayer, F.P., Niello, M., Iwamoto, H., Mihovilovic, M.D., Baumann, M.H., Sitte, H.H., and Blakely, R.D. Utilizing genetically encoded sensors for serotonin and microdialysis in freely moving mice for the identification of novel serotonin-releasing agents International Society for Serotonin Research Meeting, 2023.
- 487. Mayer, F.P., Stewart, A., Phelps, H., and Blakely, R.D. The disease-associated DAT Val559 coding variant impacts dopamine release in response to naturalistic rewards, Brain in Flux Meeting, 2023.
- 489. Meinke, C., Stewart, A., Fenollar Ferrer, C., Ramamoorthy, S., and Blakely, R.D. Genetic elimination of SERT Thr276 phosphorylation capacity reveals a critical role for *in vivo* PKG and

nitric oxide synthase control of transporter trafficking and social behavior, Brain in Flux Meeting, 2023.

490. Baganz, N.L., Cinalli, D.A., Bennice, C.O., Rudzinski, C.L., and Blakely, R.D. Taking it to the streets: Lessons from the Stiles-Nicholson Brain Institute's MobileMinds program, Society for Neuroscience Meeting, 2023.
491. Gajewski-Kurdziel, P., Iwamoto, H., Tillman, A., Naganz, N.L., Robson, M.J., Quan, N. and Blakely, R.D. Peripheral inflammation limits 5-HT neuron signaling capacity via serotonergic IL-1R1 to reduce 5-HT neuron excitability and enhance 5-HT clearance, Society for Neuroscience Meeting, 2023.
492. Walsh, A., Katamish, R.M., Gajewski-Kurdziel, P.A., Iwamoto, H., Robson, M.J., O'Reilly, K.C., Veenstra-VanderWeele, J., Quan, N., and Blakely, R.D. Transgenic expression of the hypermorphic SERT Gly56Ala substitution induces tonic innate immune activation in the CNS *in vivo*, Synchrony Meeting, 2023.
493. Ceyhan, B.*, LaMar, J.*, Nategh, P.*, Neghabi, M., Konjalwar, S., Rodriguez, P., Hahn, M.K., Blakely, R.D.[†], and Ranji, M. Optical imaging reveals liver metabolic perturbations in *Mblac1* knockout mice, Engineering in Medicine and Biology Conference, 2023.
494. Walsh, A., Gajewski-Kurdziel, P.A., Katamish, R. M., O'Reilly, K.C., Veenstra-VanderWeele, J., and Randy D. Blakely. From biochemical to social networks: A spatial omics dissection of p38a MAPK dependent molecular circuits perturbed in mice expressing the autism associated SERT Ala56 coding variant, ACNP Meeting, 2024.

VIDEOS AND PODCASTS

1. Genetics and ADHD, Science Friday Radio Interview, July 2008
<https://www.npr.org/transcripts/92455272>
2. Clearing Your Mind of Neurotransmitters, NIH Neuroscience Lecture, Sep 2006
<https://videocast.nih.gov/podcast/nss/nss091106/nss09110>
3. Animal Models of Psychiatric Disorders: Opportunities for Insights or a Fool's Paradise, Vanderbilt University, December 2014,
<https://www.youtube.com/watch?v=PHWsL8Y9NgM&t=18s>
4. FAU Awarded Nikon Center of Excellence, January 2017
<https://www.youtube.com/watch?v=KiquVAdzd2w>
5. Building the Future of Neuroscience at the FAU Brain Institute, Feb 2017
<https://www.youtube.com/watch?v=-KEqH65jTqU>
6. People Behind the Science Podcast Interview, December 2017
<http://www.peoplebehindthescience.com/dr-randy-blakely>
7. Rare Misspellings of the Genome, Dopamine Mishandling and ADHD, July 2018
<https://www.youtube.com/watch?v=pS8BclCSTGY>
8. Research in the Blakely Lab at the FAU Brain Institute, July 2018
https://www.youtube.com/watch?time_continue=2&v=yd0rZ5Lg_x4

9. Study Pinpoints Pathway Impacting Features of Autism, Oct 2018
<https://www.fau.edu/newsdesk/articles/blakely-autism-study.php>
10. Seminar at Edmund and Lily Safra Center (ELSC), Hebrew University, Oct 2018
<https://www.youtube.com/watch?v=nSp8BnBQ8HA>
11. The Mighty Worm: Nobel Prize Powerhouse for the Study of Neurodegenerative Disease, Brainy Days Program, Mar 2021
<https://www.youtube.com/embed/hjD0JkHvzfE>
12. The Hunt for Autism Medications: Edify at FAU, July 2021
<https://www.youtube.com/watch?v=R16FZjN-y04>
13. Bidirectional Neuroinflammatory and Serotonin Signaling: Basic and Translational Perspectives, Brain Foundation Synchrony Meeting, Dec 2021
<https://www.youtube.com/watch?v=Jjf4VWFS01g>
14. FAU Stiles-Nicholson Brain Institute: Taking Life Science to New Heights, Oct 2021
<https://www.youtube.com/watch?v=DPF0GKWxzZA>
15. Commencement Speech, College of Science, Florida Atlantic University, May 2022
<https://www.youtube.com/watch?v=19TLqLb0U-8>
16. Keynote Address, 2023 Community Foundation for Palm Beach and Martin Counties Hope for Mental Illness Founders Luncheon, February 2023
<https://youtu.be/cx93EeHxEIE>
17. Research Refresh Retreat Presentation, Florida Atlantic University, April 2024
https://www.youtube.com/live/4XoPnFmw5tI?si=93EGuA_sdNMv89CK&t=7545
18. Launching the Brain Coast Vision
<https://www.youtube.com/live/y-z1QzvtQdU?si=sRltdBCRPbaH4eaR&t=101>

CURRICULUM VITAE

BIOGRAPHICAL

Name:	Ajay Bommareddy, Ph.D	E-Mail:	ajay.bommareddy@gmail.com
Work:	Department of Biomedical Science, Schmidt College of Medicine, Florida Atlantic University 777 Glades Road Boca Raton, FL 33431	Work Phone:	561-297-3153

APPOINTMENTS AND POSITIONS

Years Inclusive	Name and Location of Institution/Organization	Rank/Title
07/25/22 – present	Department of Biomedical Science, Schmidt College Of Medicine, FAU, Boca Raton, FL	Associate Professor
05/01/15-07/24/22	Department of Pharmaceutical Sciences, Nesbitt School of Pharmacy, Wilkes University Wilkes Barre, PA	Associate Professor (With Tenure)
08/17/09-04/30/15	Department of Pharmaceutical Sciences, Nesbitt School of Pharmacy, Wilkes University Wilkes Barre, PA	Assistant Professor (Tenure track)
07/01/07-08/16/09	Department of Pharmacology & Chemical Biology, University of Pittsburgh School of Medicine, University of Pittsburgh Cancer Institute, Pittsburgh, PA.	Postdoc Research Associate
08/15/03-06/30/07	South Dakota State University, Brookings, SD Department of Pharmaceutical Sciences, College of Pharmacy	Research Assistant
08/15/03-05/15/07	South Dakota State University, Brookings, SD Department of Biology & Microbiology	Teaching Assistant
09/01/02-05/15/03	South Dakota State University, Brookings, SD Departments of Chemistry & Biochemistry and Environmental Health & Safety	Laboratory Assistant
03/01/01-12/01/01	Nutricia (I) Private Limited, India	Territory Manager

EDUCATION AND TRAINING

- 2023 – 2024 Training Certificate: Harvard Macy Institute; Program for Educators in Health Professions, Harvard University, Boston, MA.
- 2007-2009 Post-Doctoral Research Associate, Department of Pharmacology and Chemical Biology, University of Pittsburgh School of Medicine, Pittsburgh, PA
- 2002-2007 Ph.D (Pharmaceutical Sciences), South Dakota State University, Brookings, SD, USA,
- 1996-2000 B.Pharm (Pharmaceutical Sciences), Osmania University, Hyderabad, India

HONORS & AWARDS

Year

- 2025 FAU Distinguished Teacher of the Year, College of Medicine nominee, Boca Raton, FL
- 2024 Nominated "Outstanding Lecturer Award", College of medicine, FAU
- 2024 Harvard Macy Scholar, Harvard Medical school, Boston, MA
- 2023 Awarded "Outstanding Lecturer Award", Schmidt College of Medicine, Florida Atlantic University (FAU), Boca Raton, FL
- 2022 Awarded "Carpenter Award", Wilkes University's highest award for teaching and student mentoring, Wilkes University, Wilkes-Barre, PA
- 2022 Awarded "Outstanding scholarship award", Wilkes University
- 2022 Awarded "Overall Teacher of the Year", nominated by students, Nesbitt School of Pharmacy, Wilkes University
- 2021 Nominated for "President's outstanding mentor award" Wilkes University
- 2020 Honorary membership, PLS Pharmacy Leadership Society, Nesbitt School of Pharmacy
- 2019 Nominated for "outstanding advisor award", Nesbitt School of Pharmacy
- 2018 Awarded "Overall Teacher of the Year" award, Nesbitt School of Pharmacy, Wilkes University
- 2018 Nominated for "President's outstanding mentor award" Wilkes University
- 2017 Awarded "Outstanding advisor" award, Teacher Recognition and Effectiveness Committee, Wilkes University, Wilkes-Barre, PA
- 2016 Nominated for "alumni mentor award", Nesbitt School of Pharmacy, Wilkes University, Wilkes-Barre, PA
- 2012 Nominated for "outstanding new faculty award", Nesbitt School of Pharmacy, Wilkes University, Wilkes-Barre, PA
- 2009 University of Pittsburgh Cancer Institute Director's award for scientific excellence: First place in Translational & Clinical research section, poster presentation at 21st Annual University of Pittsburgh Cancer institute Retreat, Greensburg, PA
- 2007 University first place for sigma xi Ph.D paper presentation contest, South Dakota State University Sigma Xi Chapter, Brookings, SD
- 2006 Department second place from Rho Chi Honor society for poster presentation, College of Pharmacy, South Dakota State University, Brookings SD
- 2005 University first place for sigma xi Ph.D graduate research proposal contest, South Dakota State University Sigma Xi Chapter, Brookings, SD
- 2005 Department second place from Rho Chi Honor society for poster presentation, College of Pharmacy, South Dakota State University, Brookings SD
- 2004 University second place for sigma xi graduate research proposal contest
South Dakota State University Sigma Xi Chapter, Brookings, SD
- 2003 "Zora Colburn Scholarship" for Academic excellence: \$2,000,

Certifications: Foreign pharmacy graduate equivalency certification (**FPGEC**), National Association of Boards of Pharmacy, USA.

SCHOLARLY ACTIVITIES

PUBLICATIONS: Peer-Reviewed Journals: <https://pubmed.ncbi.nlm.nih.gov/?term=bommareddy%20a>

1. Ritesh Chandrasekharan, Michael Lu, Chandradhar Dwivedi and Ajay Bommareddy. Selective growth suppression and disruption of F-actin by alpha-santalol in human melanoma cells. (Under revision) *Anti-cancer Research journal*.
2. Kalter V, Lopez-Dee Z, Patel D, **Bommareddy A**, Cumbo N, Hasuga A, Lawler J and Gutierrez L. Malignant potential of colonic tumor associated fibroblasts derived from a model of inflammation induced carcinogenesis (Manuscript in preparation).
3. Zim A and **Bommareddy A**. Estrogen-gut-brain axis: Examining the role of combined oral contraceptives on mental health via their direct impact on the gut microbiome. *Cureus (Springer nature)*, 2025, 17(3): e81354. DOI: [10.7759/cureus.81354](https://doi.org/10.7759/cureus.81354)
4. Lieb N, Tran A, Torres M and **Bommareddy A**. Modulation of WNT/Beta-Catenin Pathway by Major Dietary Phytochemicals Against Breast Cancer Development. Special issue: Advances in Biological Breast Cancer Research. *Biology*, 2025, 14, 194.
5. **Bommareddy A**, Oberlin J, Blankenhorn K, Hughes S, Mabry E, Knopp A, VanWert A, Dwivedi C, Pinkerton I Gutierrez L. Alpha-santalol, a derivative of sandalwood oil prevents development of prostate cancer in TRAMP mice. *Phytomedicine Plus*. 4 (1), 2024, 100523.
6. Schwarzauber M, Edwards N, Hiryak J, Chandrasekaran R, Wild J, **Bommareddy A**. Antitumor and chemopreventive role of major phytochemicals against breast cancer development. *Nat Prod Res*. 2023 Aug 30:1-21.
7. Walters C, Reed M, Bartholomew S and **Bommareddy A**. Autophagy induction by α -santalol in human prostate cancer cells. *Anticancer Res*. 2021 Mar;41(3):1197-1202.
8. Franko TS 2nd, Shah V, Hong KL, **Bommareddy A**. Evaluation of long-term retention and utilization of the situation, background, assessment, recommendation (SBAR) communication technique. *Curr Pharm Teach Learn*. 2021 Feb;13(2):122-126.
9. Wenner C, Stewart R, McCabe A, Pepe J, Oberlin J, VanWert A and **Bommareddy A**. Role of autophagic response induced by major phytochemicals in cancer prevention and treatment. *J Cancer Metastasis Trat*. 2020; 6:33, 1-17.
10. Hontz D, Hensley J, Hiryak K, Lee J, Luchetta J, Torsiello M, Venditto M, Lucent D, Terzaghi W, Mencer D, **Bommareddy A**, VanWert AL. A Copper (II) Macrocyclic Complex for Sensing Biologically Relevant Organic Anions in a Competitive Fluorescence Assay: Oxalate Sensor or Urate Sensor. *ACS Omega*. 2020 Jul 27;5(31):19469-19477.
11. **Bommareddy A**, McGlynn D, Lewis M, Lockus L, Seward J, Hong KL, VanWert AL, Dwivedi C. Akt/survivin pathway inhibition enhances the apoptotic cell death-induced by alpha-santalol in human prostate cancer cells. *Fitoterapia*. 2020;143:104552.
12. **Bommareddy A**, Brozena S, Steigerwalt J, Landis T, Hughes S, Mabry E, Knopp A, VanWert AL, Dwivedi C. Medicinal properties of alpha-santalol, a constituent of sandalwood oil, *Nat Prod Res*. 2019, 33(4):527-543.
13. **Bommareddy A**, Knapp K, Nemeth A, Steigerwalt J, Landis T, Vanwert AL, Gorijavolu HP, Dwivedi . Alpha-Santalol, a Component of Sandalwood Oil Inhibits Migration of Breast Cancer Cells by Targeting the β -catenin Pathway. *Anticancer Research*. 2018, 38 (8) 4475-4480.

14. **Bommarreddy A**, Crisamore K, Fillman S, Brozena S, Steigerwalt, J, Vanwert AL and Dwivedi C. Survivin down regulation by α -santalol is not mediated through PI3K-AKT pathway in human breast cancer cells. *Anticancer Research* 35(10):5353-7, 2015.
15. VanWert AL, McCune DM, Brown KM, **Bommarreddy A**, Manning DH, Roman CL. Sodium Oxybate for Narcolepsy: Explaining Untoward Effects and Recommending New Approaches in Light of Prevailing Receptor Pharmacology. *Journal of Pharmacy Technology* 30(6): 240-243, 2014.
16. **Bommarreddy A**, Eggleston W, Prelewicz S, Antal A, Witczak Z, McCune DF, Vanwert AL. Chemoprevention of prostate cancer by major dietary phytochemicals. *Anticancer Research*, 33: 4163-4174, 2013.
17. Santha S, **Bommarreddy A**, Rule B, Guillermo R, Kaushik RS, Young A, Dwivedi C. Antineoplastic effects of α -santalol on estrogen receptor-positive and estrogen receptor- negative breast cancer cells through cell cycle arrest at G2/M phase and induction of apoptosis. *PLoS ONE* 8(2): e56982. 2013.
18. Wolman AT, Gionfriddo MR, Heindel GA, Mukhija P, Witkowski S, **Bommarreddy A**, Vanwert AL. Organic anion transporter (OAT3) interacts selectively with lipophilic β -Lactam antibiotics. *Drug Metabolism and Disposition*, 41(4):791-800, 2013.
19. **Bommarreddy A**, Rule B, VanWert AL, Santha S and Dwivedi C. Alpha-santalol, a chemopreventive agent induces apoptosis in human prostate cancer cells by causing caspase-3 activation. *Phytomedicine*, 19: 804-811, 2012.
20. Witczak ZJ, Rampulla RM, **Bommarreddy A**. Mycalamides, Pederin and Psymberin as Natural Carbohydrates and Potential Antitumor Agents: Past and Future Perspectives. *Mini Reviews in Medicinal Chemistry*, 12 (14): 1320-32, 2012.
21. Xiao D, **Bommarreddy A**, Kim S-H, Sehrawat A, Hahm E-R, et al. (2012) Benzyl Isothiocyanate Causes FoxO1-Mediated Autophagic Death in Human Breast Cancer Cells. *PLoS ONE* 7(3): e32597. 2012.
22. Kim SH, **Bommarreddy A**, and Singh SV. Garlic Constituent Diallyl Trisulfide Suppresses X-Linked Inhibitor of Apoptosis Protein in Prostate Cancer Cells in Culture and *In Vivo*. *Cancer Prevention Research (Phila)*, Jun;4(6):897-906, 2011.
23. Powolny AA, **Bommarreddy A**, Hahm ER, Normolle DP, Beumer JH, Nelson JB, Singh SV. Chemopreventative Potential of the Cruciferous Vegetable Constituent Phenethyl Isothiocyanate in a Mouse Model of Prostate Cancer. *JNCI*, 103(7): 571-584, 2011.
24. Bhatia E, Doddivenaka C, Zhang X, **Bommarreddy A**, Krishnan P, Matthees DP and Dwivedi C. Chemopreventive Effects of Dietary Canola Oil on Colon Cancer Development. *Nutrition & Cancer*, 63 (2): 242-247, 2011.
25. **Bommarreddy A**, Zhang X, Kaushik R and Dwivedi C. Effects of components present in flaxseed on human colon adenocarcinoma CACO-2 cells, possible mechanisms of action of flaxseed on colon cancer development .*Drug Discoveries & Therapeutics* 4(3): 184-189, 2010.
26. Warin R, Xiao D, Arlotti JA, **Bommarreddy A** and Singh SV. Inhibition of human Breast cancer xenograft growth by cruciferous vegetable constituent Benzyl Isothiocyanate. *Molecular Carcinogenesis* 49 (5): 500-7, 2010.
27. Xiao D, Powolny AA, Barbi de Moura M, Kelley EE, **Bommarreddy A**, Kim SH, Hahm ER, Normolle D, Van Houten B, Singh SV. Phenethyl isothiocyanate inhibits oxidative phosphorylation to trigger reactive oxygen species-mediated death of human prostate cancer cells. *J Biol Chem*, 285(34):26558-69, 2010.
28. **Bommarreddy A**, Hahm ER, Xiao D, Powolny AA, Fisher A, Jiang Y, and Singh SV. ATG5 Regulates phenethyl isothiocyanate-induced autophagic and apoptotic cell death in human prostate cancer cells. *Cancer Research* 69(8): 3704-12, 2009.
29. **Bommarreddy A**, Zhang X, Kaushik R and Dwivedi C. Effects of components present in flaxseed on human colon adenocarcinoma CACO-2 cells, possible mechanisms of action of flaxseed on colon cancer development (63rd *Proceedings of the Flax Institute of the United States*).

30. **Bommareddy A**, Zhang X, Schrader D, Kaushik R, Zeman D, Mathees DP and Dwivedi C. Effects of dietary flaxseed on Intestinal tumorigenesis in Apc^{Min} mice *Nutrition and cancer*, 61(2): 276-283, 2009.
31. Zhang X, **Bommareddy A**, Kaushik R, Zeman D, Khalifa S, Fahmy H, and Dwivedi C. Chemopreventive effects of sarcophine-diol on UVB-induced skin tumor development in female SKH-1 hairless mice. *Marine Drugs*, 7: 153-165, 2009.
32. Xiao D, Antosiewicz J, Hahm E, Powolny A, **Bommareddy A**, Zeng Y, Desai D, Amin S, Herman-Antosiewicz A and Singh SV. Cellular responses to dietary cancer chemopreventive agent D, L-sulforaphane in human prostate cancer cells are initiated by mitochondria-derived reactive oxygen species. *Pharmaceutical Research*, 26(7):1729-38, 2009.
33. Singh SV, Warin R, Xiao D, Powolny A, Stan SD, Arlotti JA, Zeng Y, Hahm E, Marynowski SW, **Bommareddy A**, Desai D, Amin S, and Chambers WH. Sulforaphane inhibits prostate carcinogenesis and pulmonary metastasis in TRAMP mice in association with increased cytotoxicity of natural killer cells. *Cancer Research*, 69(5):2117–25, 2009.
34. Zhang X, **Bommareddy A**, Chen W, Khalifa S, Kaushik R, Fahmy H, and Dwivedi C. Sarcophine-diol, a Chemopreventive agent, inhibits cell growth and induces apoptosis through extrinsic pathway in Human Epidermoid Carcinoma A431 Cells. *Translational oncology*, 2 (1):21-30, 2009.
35. Singh SV, Powolny AA, Stan SD, Xiao D, Arlotti JA, Warin R, Hahm ER, Marynowski SW, **Bommareddy A**, Potter DM, and Dhir R. Garlic Constituent Diallyl Trisulfide Prevents Development of Poorly-Differentiated Prostate Cancer and Pulmonary Metastasis Multiplicity in TRAMP Mice. *Cancer Research*, 68 (22): 9503-11, 2008.
36. **Bommareddy A**, Zhang X, Schrader D, Kaushik R, Zeman D, Mathees DP and Dwivedi C. Effects of dietary flaxseed on Intestinal tumorigenesis in Apc^{Min} mice *Proceedings of the 62nd Flax Institute of the United States*. 2008, 50-59.
37. Arasada BL, **Bommareddy A**, Zhang X, Bremmon K, Dwivedi C. Effects of α -santalol on proapoptotic caspases and p53 expression in UVB irradiated mouse skin. *Anti-cancer research* .2008; 28:128-132.
38. **Bommareddy A**, Arasada BL, Mathees DP, Dwivedi C. Modified GC-MS assay for mammalian lignans in biological samples. *International journal of AOAC*.2007; 90 (3): 641-6.
39. **Bommareddy A**, Hora J, Cornish B, Dwivedi C. Chemopreventive effects of various concentrations of α -Santalol on UVB-induced skin tumor development in SKH-1 mice. *Anticancer research*. 2007; 27: 2185-8.
40. Kundoor V, Zhang X, **Bommareddy A**, Khalifa S, Fahmy H, Dwivedi C. Chemopreventive Effects of Sarcotriol on Ultraviolet B-induced Skin Tumor Development in SKH-1 Hairless Mice. *Marine drugs*. 2007; 5: 197-207.
41. **Bommareddy A**, Arasada BL, Mathees DP, Dwivedi C. Chemopreventive effects of dietary Flaxseed Meal on colon tumor development. *Nutrition and Cancer*. 2006; 54 (2): 216-22.
42. **Bommareddy A**, Arasada BL, Mathees DP, Dwivedi C. Chemopreventive effects of dietary Flaxseed Meal on colon tumor development. *Proceedings of the 61st Flax Institute of the United States*. 2006; 67-82.

PEER-REVIEWED PUBLISHED ABSTRACTS & POSTER PRESENTATIONS

1. **Ajay Bommareddy**. Revisiting delivery of pharmacology content across the medical education curriculum. E poster, Harvard Medical school, Boston, MA, May 6th – 10th, 2024.
2. **Ajay Bommareddy**, Ritesh Chandrasekaran, Delilah Penate, Michael Lu. Selective growth suppression and disruption of actin cytoskeleton by alpha-santalol in human melanoma SK-MEL2 cells. Annual AACR conference, San Diego, CA, April 5th – 10th, 2024.

3. Maverick Reed, Cole Walters, Samantha Bartholomew, Danielle McGlynn, Marissa Lewis, and **Ajay Bommareddy**. Autophagy Induction by Alpha-Santalol in Human Prostate Cancer Cells. AACP virtual conference, July 13th - 28th, 2020.
4. **Ajay Bommareddy**, John Oberlin, Kaitlyn Blankenhorn, Aaron Knopp, Sarah Hughes, Erica Mabry, Isiah Pinkerton, Linda Gutierrez, Adam VanWert, Chandradhar Dwivedi. Prostate cancer chemoprevention by alpha-santalol in TRAMP mice model 120th Annual Meeting of the American Association of Colleges of Pharmacy, Chicago, Illinois, July 13-17, 2019.
5. **Ajay Bommareddy**, Kacey Knapp, Abigail Nemeth and Chandradhar Dwivedi. Alpha-santalol, a component of sandalwood oil inhibits migration of breast cancer cells by targeting beta-catenin pathway. Annual AACR conference, Atlanta, GA (March 29 –April3rd 2019).
6. Ashely Eden, Kirsten Fisher, Rebecca Pfeffer, **Ajay Bommareddy** and Dominick Trombetta. Effects of allopurinol in reducing antipsychotic medication initiation in Alzheimer's disease. ASHP Midyear Clinical Meeting, Anaheim, CA, Dec 2- 6, 2018.
7. **Ajay Bommareddy**, Adam VanWert and Chandradhar Dwivedi. Inhibition of Akt-Survivin Pathway Synergizes the Cell Death Caused by Alpha-Santalol in Human Prostate Cancer Cells. 119th Annual Meeting of the American Association of Colleges of Pharmacy, Boston, Massachusetts, July 21-25, 2018.
8. Thomas S Franko, Vicky Shah, **Ajay Bommareddy** and Ka Hong. Evaluation of Long-Term Retention and Utilization of the SBAR Communication Technique. 119th Annual Meeting of the American Association of Colleges of Pharmacy, Boston, Massachusetts, July 21-25, 2018.
9. **Ajay Bommareddy**, Jennifer Malinowski, Julie Olenak and Bernard W. Graham. Capturing and Assessing Student Initiated Co-Curricular Activities to Enhance Advisor Guidance. 112th annual AACP meeting, Nashville, TN (July, 2017). AJPE; 81 (5) Article S6.
10. **Ajay Bommareddy**, James Steigerwalt, Karryn Crisamore, Sarah Brozena, Terra Landis, Adam VanWert and Chandradhar Dwivedi. Alpha-Santalol Inhibits Migration of Breast Cancer Cells by targeting β -Catenin Pathway. 112th annual AACP meeting, Nashville, TN (July, 2017). AJPE; 81 (5) Article S6.
11. Zarfoss E, Eden A, VanWert A, **Bommareddy A**, Bolesta S. Feasibility of determining oxidative biomarkers in healthy human subjects after oral vitamin C administration. American College of Clinical Pharmacology (ACCP) Annual Meeting. Phoenix, AZ; October 2017.
12. **Ajay Bommareddy**, Karryn Crisamore, Sarah Fillman, Sarah Brozena, James Steigerwalt, Adam L Vanwert and Chandradhar Dwivedi. Survivin down regulation by α -santalol is not mediated through PI3K-AKT pathway in human breast cancer cells. 107th annual AACR conference, New Orleans (April 20th 2016).
13. **Ajay Bommareddy**, Lauren Lockus, Jonathan Seward, William Eggelston, Stacy Prelewicz, Andrea Antal, Sarah Fillman, Christian Casto, Adam L. Van Wert, Sreevidhya Santha and Chnadradhar Dwivedi. Akt/Survivin pathway inhibition synergizes apoptotic cell death induced by α -santalol in prostate cancer cells. 105th annual AACR conference, Sandiego (April 7th 2014).
14. KM Brown, TD Aungst, C Castro, **A Bommareddy**, AL VanWert and DF McCune. Alpha-1 adrenergic subtype specific activation of ERK in human primary smooth muscle cells. Experimental Biology conference, San Diego (April 26th 2014).
15. Wolman A, **Bommareddy A**, Gionfriddo M, Witkowski S, Heindel G, Mukhija P, VanWert A. Organic Anion Transporter 3 (Oat3) Interacts Selectively with Lipophilic β -Lactam Antibiotics. AAPS J, 2013.
16. **Ajay Bommareddy**, William Eggelston, Stacy Prelewicz, Andrea Antal, Adam L. Van Wert, Hiral Patel, Aleona Chinikaylo, Linda S. Gutierrez, Sreevidya Santha and Chandradhar Dwivedi.

- Chemoprevention of prostate carcinogenesis in TRAMP mice by α -santalol by causing cell cycle arrest and induction of apoptosis. 104th annual AACR conference, Washington, D.C (April 9th 2013).
17. **Ajay Bommarreddy**, Brittny Rule, Adam L. VanWert, Sreevidya Santha, Chandradhar Dwivedi. Alpha-santalol, a chemopreventive agent induces apoptosis in human prostate cancer cells by causing caspase-3 activation. 103rd annual AACR conference, Chicago, IL (April 2012).
 18. Sreevidya Santha, **Ajay Bommarreddy**, Brittny Rule, Ruth Guillermo, Radhey S. Kaushik, Alan Young, Chandradhar Dwivedi. α -santalol induces caspase-dependent apoptosis and G2/M phase cell cycle arrest in human breast cancer cells. 103rd annual AACR conference, Chicago, IL (April 2012)
 19. Hiral Patel, Aleona Chinikaylo, Michelle Wakeley, Brittany Lippert, Valerie Kalter, Brittny Rule, Bethany Eiche, Zenaida Lopez-Dee, **Ajay Bommarreddy**, Linda Gutierrez. Evidence for a mechanistic link between thrombospondin 1 and Lgr5 in a model of colitis-associated carcinogenesis. Crohn's and colitis foundation's clinical and research conference, Hollywood, FL (December 2011).
 20. **Ajay Bommarreddy**, Brittny Rule, Bethany Sharpless, Lauren Machell, Lindsey Coval, Sreevidya Santha, Chandradhar Dwivedi. Anticancer effects of alpha-santalol on prostate cancer development. Annual AACP conference, San Antonio, TX (July 2011).
 21. **Ajay Bommarreddy**, Su-Hyeong Kim and Shivendra V. Singh. Garlic Constituent Diallyl Trisulfide Suppresses X-Linked Inhibitor of Apoptosis Protein in Prostate Cancer Cells in Culture and *In Vivo*. 102nd annual AACR conference, Orlando, FL (April 2011).
 22. Dong Xiao, **Ajay Bommarreddy** and Shivendra V. Singh. Benzyl isothiocyanate causes FOXO1-mediated autophagic death in cultured and human breast cancer cells. 102nd annual AACR conference, Orlando, FL (April 2011).
 23. Anna A. Powolny, **Ajay Bommarreddy**, Eun-Ryeong Hahm, Daniel P Normolle, Jane H Beumer, Joel B Nelson, Shivendra V Singh. Phenethyl isothiocyanate-mediated inhibition of prostate cancer development in TRAMP mice is associated with induction of autophagy and suppression of plasma clusterin. 102nd annual AACR conference, Orlando, FL (April 2011).
 24. **Ajay Bommarreddy**, Renaud Warin, Dong Xiao, Julie A. Arlotti, Shivendra V. Singh. Benzyl isothiocyanate-mediated growth inhibition of MDA-MB-231 human breast cancer xenograft is associated with reduced cell proliferation, inhibition of angiogenesis, and induction of autophagy. 101st annual AACR conference, Washington D.C (April 2010).
 25. Anna A. Powolny, Dong Xiao, Michelle Barbi de Moura, **Ajay Bommarreddy**, Eun-Ryeong Hahm, Bennett Van Houten, Shivendra V. Singh. Phenethyl isothiocyanate inhibits oxidative phosphorylation to initiate reactive oxygen species-mediated death of human prostate cancer cells. 101st annual AACR conference, Washington D.C (April 2010).
 26. **Ajay Bommarreddy**, Hahm ER, Xiao D, Powolny AA, Fisher A, Jiang Y, and Singh SV. ATG5 Regulates phenethyl isothiocyanate-induced autophagic and apoptotic cell death in human prostate cancer cells. 21st Annual University of Pittsburgh Cancer Institute Scientific Retreat, Greensburg, PA (June 2009).
 27. Eun-Ryeong Hahm, Dong Xiao, Jędrzej Antosiewicz, Anna A. Powolny, **Ajay Bommarreddy**, Yan Zeng, Shivendra V. Singh. Cellular responses to cancer chemopreventive agent D,L-sulforaphane in human prostate cancer cells are initiated by the mitochondria-derived reactive oxygen species. 100th annual AACR conference, Denver, CO (April 2009).
 28. Anna A. Powolny, Renaud Warin, Dong Xiao, Silvia D. Stan, Julie A. Arlotti, Yan Zeng, Eun-Ryeong Hahm, Stanley W. Marynowski, **Ajay Bommarreddy**, Dhimant Desai, Shantu Amin, William H. Chambers, Shivendra V. Singh. Sulforaphane inhibits prostate carcinogenesis and pulmonary

metastasis in TRAMP mice in association with reduced cell proliferation and increased apoptosis. 100th annual AACR conference, Denver, CO (April 2009).

29. Shivendra V. Singh, Anna A. Powolny, Silvia D. Stan, Dong Xiao, Julie A. Arlotti, Renaud Warin, Eun-Ryeong Hahm, Stanley W. Marynowski, **Ajay Bommareddy**, Douglas M. Potter, Rajiv Dhir. Oral administration of diallyl trisulfide inhibits development of poorly-differentiated prostate cancer and pulmonary metastasis in TRAMP mice. 100th annual AACR conference, Denver, CO (April 2009).
30. Renaud Warin, William H. Chambers, Douglas M. Potter, Julie A. Arlotti, **Ajay Bommareddy**, Kenneth S. McCarty, Shivendra V. Singh. Dietary administration of benzyl isothiocyanate inhibits mammary hyperplasia/carcinoma incidence and/or burden in MMTV-neu mice. 100th annual AACR conference, Denver, CO (April 2009).
31. **Ajay Bommareddy** and Shivendra V Singh. Phenethyl Isothiocyanate, a Cancer Chemopreventive Constituent of Cruciferous Vegetables, Causes Type II Autophagic Cell Death in Human Prostate Cancer Cells. 20th Annual University of Pittsburgh Cancer Institute Scientific Retreat, Greensburg, PA (June 2008).
32. **Ajay Bommareddy** and Shivendra V Singh. Phenethyl Isothiocyanate, a Cancer Chemopreventive Constituent of Cruciferous Vegetables, Causes Type II Autophagic Cell Death in Human Prostate Cancer Cells. 99th annual AACR conference, San Diego, CA (April 2008).
33. **Ajay Bommareddy**, Zhang X, Schrader D, Kaushik R, Zeman D, Mathees DP and Dwivedi C. Effects of Dietary Flaxseed on Intestinal Tumorigenesis in ApcMin Mice. April 16th 2008 at 99th annual AACR, San Diego, CA (April 2008).
34. Zhang X, **Ajay Bommareddy**, Kundoor V, Fahmy H, and Dwivedi C. Chemopreventive effects of sarcophine-diol on UVB-induced skin tumor development in SKH-1 hairless mice. 99th annual AACR conference, San Diego, CA (April 2008).
35. **Ajay Bommareddy**, Zhang, X., Schrader, D., Kaushik, R and Dwivedi C. Inhibition of cell proliferation and induction of apoptosis in human colon cancer, CaCO-2 cells by alpha-linolenic acid and lignans present in flaxseed. 98th annual AACR conference, Los Angeles, CA (April, 2007).
36. Zhang X, Schrader D, **Ajay Bommareddy**, Kaushik R, Fahmy H and Dwivedi C. Effects of sarcophine-diol on cell proliferation and apoptosis in human epidermal carcinoma A431 cells. 98th annual AACR conference, Los Angeles, CA (April 2007).
37. **Ajay Bommareddy**, Arasada BL, Mathees DP and Dwivedi C. Chemopreventive effects of Flaxseed Meal on colon tumor development in Male Fischer rats. 97th annual AACR conference, Anaheim, CA (April, 2005).
38. Dwivedi C, Arasada BL and **Ajay Bommareddy**. Chemopreventive effects of α -santalol on skin tumor development. AAPS, Nashville, TN (November, 2005).
39. **Ajay Bommareddy**, Arasada BL, Mathees DP and Dwivedi C. Chemopreventive effects of Flaxseed Meal on colon tumor development SD EPSCOR, Pierre, SD (February, 2005).
40. **Ajay Bommareddy**, B. Arasada, Chandradhar Dwivedi & Duane P Mathees. Chemopreventive effects of Flaxseed Meal colon tumor development in Male Fischer rats. Annual Poster Presentation College of Pharmacy, SDSU, Brookings, SD (Rho Chi Honor society), (October, 2004).
41. **Ajay Bommareddy**, B. Arasada, Chandradhar Dwivedi & Duane P Mathees: Chemopreventive effects of Flaxseed Meal on colon tumor development in Male Fischer rats. SDEPSCoR conference Poster Session, Rapid City, SD (September, 2004).

BOOK CHAPTERS

1. Neema Kumari, Shailaja Allani, Anna Knapinska and **Ajay Bommarreddy**. Microbiome-based diagnostics and biomarkers: The search for mechanistic connections. Chapter 10. The microbiome and cancer treatment: Overcoming resistance and enhanced efficacy. Elsevier (accepted for publication).
2. Neema Kumari, Ana Cebular, **Ajay Bommarreddy**, Shailaja Allani and Jayachandran Venkatesan. Myricetin as a promising Anticancer agent: Targeting PI3K/Akt/mTOR, MAPK/ERK, Wnt/ β -Catenin, NF- κ B, JAK/STAT, and p53 Signaling Pathways. (Submitted), Springer Nature.
3. Kaityln Blankenhorn, Abigayle Keating, James Oschal, Daniel Maldonado and **Ajay Bommarreddy**. Cancer-Preventive and Antitumor effects of Sandalwood oil and Alpha-Santalol. Chapter 27, India Sandalwood, A compendium, Springer, pages 407 - 421, 2022.
4. **Ajay Bommarreddy**, John Oberlin, Jason Pepe and Adam VanWert. Role of Sandalwood Oil and Alpha-Santalol in the Prevention and Development of Human Malignancies, "Essential guide to plant oils", Nova Science publishers, Chapter 5, 95 - 122, 2020.
5. Danielle McGlynn, Kayla Broschious, Alexandra Ruth and **Ajay Bommarreddy**. Medicinal Benefits of Lemon, Lavender and Peppermint Essential Oils, "What to know about essential oils". Nova Science publishers, Chapter 5, 167 - 198, 2020.
6. **Ajay Bommarreddy**, Adam L Vanwert, Dan F McCune, Sarah L Brozena, Zbigniew Witczak and Shivendra V. Singh. The role of organosulfur compounds derived from allium vegetables in cancer prevention and therapy. Springer International, Critical dietary factors in cancer chemoprevention. 111-152, 2016.
7. Witczak ZJ, **Bommarreddy A**, VanWert AL. Pederin, Psymberin and the Structurally Related Mycalamides: Synthetic Aspects and Biological Activities. In: Kim SK, editor. *Handbook of Anticancer Drugs from Marine Origin*. Springer; 683-700, ISBN: 978-3-319-07145-9 (online), 2015.
8. Anna A Powolny, **Ajay Bommarreddy**, Shivendra V. Singh. Slow but Steady Progress in Cancer Chemoprevention with Phenethyl Isothiocyanate: Fulfilled Promises and Translational Challenges. Springer Link; Nutraceuticals and Cancer: Chapter 12, 231-258, 2012.

INVITED ORAL PRESENTATIONS

1. **Ajay Bommarreddy**. Chemopreventive properties of herbal products in Cancer – Alpha-santalol, a case study. AICTE sponsored International e-conference on Pharmacy practice and Therapeutics, Nirmala College of Pharmacy, AP, India.
2. **Ajay Bommarreddy**. Anticancer effects of α -santalol, a component of sandalwood oil on Prostate Cancer Development. Wilkes University Cancer Research seminar series (November 30th 2016).
3. **Ajay Bommarreddy**. Phytochemicals, Wilkes University's CE program for pharmacists and nurses, Wilkes University, Wilkes-Barre, PA (May 2nd 2016).
4. **Ajay Bommarreddy**. Chemopreventive effects of α -santalol, a component of sandalwood oil on Prostate Cancer Development. Becton College school of Pharmacy, Fairleigh Dickinson University, Madison, NJ (January 6th 2014).
5. **Ajay Bommarreddy**. Chemoprevention of prostate cancer by naturally occurring phytochemicals. Wilkes University Faculty Forum presentation, Wilkes University, Wilkes-Barre, PA (March 16th 2012).
6. **Ajay Bommarreddy**. Atg5 regulates phenethyl isothiocyanate-induced autophagic and apoptotic cell death in human prostate cancer cells. 27th annual retreat, Department of Pharmacology & Chemical Biology, University of Pittsburgh School of Medicine, Pittsburgh, PA (July 24th, 2009).
7. **Ajay Bommarreddy**. Chemopreventive effects of Phenethyl Isothiocyanate on prostate cancer development. Nesbitt College of Pharmacy, Wilkes University, Wilkes-Barre, PA (June 4th, 2009).

8. **Ajay Bommarreddy**, Eun-Ryeong Hahm, Dong Xiao, Anna A. Powolny, Alfred Fisher, Yu Jiang, Shivendra V. Singh. Atg5 regulates phenethyl isothiocyanate-induced autophagic and apoptotic cell death in human prostate cancer cells. 100th annual AACR conference, Denver, CO (April 21st 2009).
9. **Ajay Bommarreddy**, Duane P Matthees and Chandradhar Dwivedi. Chemopreventive effects of dietary flaxseed on colon tumor development. Sigma Xi research paper competition, South Dakota State University, Brookings, SD (April, 2006).
10. **Ajay Bommarreddy** and Chandradhar Dwivedi. Effects of dietary flaxseed meal on colon tumor development in male Fischer rats. Sigma Xi research proposal competition, South Dakota State University, Brookings, SD (April, 2005).

RESEARCH EXPERTISE AND TECHNICAL SKILLS

- **Areas of Expertise:** Autophagy, Apoptosis, signal transduction pathways
- **In vivo studies:** Animal handling both normal and transgenic models
- **In vitro studies:** **Mammalian** cell culture techniques with Human prostate cancer cells, breast cancer cells, mouse embryonic fibroblasts, colon cancer cells and human epidermoid skin A431 cells
- **Molecular Biology techniques** Western Blot analysis, Fluorescence studies, protein assays, protein extraction, Flow cytometry (FACS analysis)
- **Plasmid and SiRNA transfection studies**
- **Immunohistological and Immunocytological studies**
- **RTPCR techniques**
- **Live animal imaging techniques**
- **Analytical techniques** GC-FID, GC-Mass spectroscopy, HPLC
- Other skills include usage of Microsoft Office (MS Word, Excel and Power Point) and Graph pad prism statistical software

GRANTS & FUNDING:

Internal:

- 2025: \$ 4000; OURI Summer Undergraduate Research Fellowship, FAU
- 2024 – 25: \$ 500; Office of Undergraduate Research and Inquiry (OURI) grant to mentor freshman student through F-LEARN initiative, FAU
- 2023 - 2024: \$ 8, 500: Educational scholarship grant to attend Harvard Macy Program for Educators: PI: Ajay Bommarreddy.
- 2023 - 25: \$ 200,000; Co -PI, Charles E. Schmidt College of Science inaugural postdoc jumpstart program, FAU,
- 2022: \$10,000; College of Medicine, FAU start-up funds
- 2022: Wilkes University, Awarded “Bessler scholarship award” for summer research, \$ 4,500
- 2022 (summer): Wilkes University Mentoring grant. \$ 9161
- 2020 -21: Wilkes University Type I research grant(\$4,200)
- 2020 (summer): Wilkes University Mentoring grant, \$4,000.00
- 2019 (summer): Wilkes University Mentoring grant. \$ 9158.60
- 2018-19: Wilkes University Type II (\$ 2,000) travel grant
- 2017-18: Wilkes University Type II (\$ 2,000) travel grant
- 2018 (summer): Wilkes University Mentoring grant, \$ 8,500
- 2017 (summer): Wilkes University Mentoring grant, \$ 8,500
- 2016-17: Wilkes-University Type II (\$ 2,000) travel grant
- 2016-2018: Wilkes University Provost Research & Scholarship grant (\$ 20,000)

- 2015 – 2016 Wilkes University Type II (\$ 2,000) & III (\$800) travel grants
- 2015 (summer): Wilkes University Mentoring grant, \$6,500
- 2014-2015: Wilkes University Type I grant (faculty development committee), \$ 3,400.00 for Research funding
- 2014 (summer): Wilkes University Mentoring grant, \$8,500
- 2013: Wilkes University Type III travel grant, \$ 800.00 for attending 105th AACR annual conference at San Diego, CA
- 2013 (summer): Wilkes University Mentoring grant, \$9,000
- 2012: Wilkes University Type III travel grant, \$ 800.00 for attending 104th AACR annual conference at Washington D.C
- 2012-2013: Wilkes University Type I grant (faculty development committee), \$ 3,000.00 for Research funding
- 2012: Wilkes University Type II travel grant, \$ 1,000.00 for attending 103rd AACR conference at Chicago, IL, 2012
- 2011 (summer): Wilkes University Mentoring grant, \$5,000
- 2011: AACP travel grant, \$ 1,000.00 for attending annual AACP conference at SanAntonio, TX
- 2011: Wilkes University Type II travel grant, \$ 1,300.00 for attending 102nd AACR conference at Orlando, FL, 2011
- 2010-2011: American Association of Colleges (AACP) New Faculty Research Award, \$ 10,000
- 2010 (summer): Wilkes University Mentoring grant, \$5,000
- 2010: Wilkes University Type III travel grant, \$ 700.00 for attending 101st AACR annual conference at Washington D.C
- 2010-2011: Wilkes University Type I grant (faculty development committee), \$ 3,961.81 for Research funding
- 2005: Graduate school travel award, \$ 500 for poster presentation at American Association for Cancer Research, Anaheim, CA. Graduate school, South Dakota State University, Brookings, SD

External:

- 2024
 - Florida Department of Health (under review)
 - DOD (not funded), received a score of 2.1 (scored from 1 – 5)
 - RO3, NCI/NIH (not funded), received a score of 61
- 2023: RO3, NCI/NIH (not funded), received a score of 65
- 2021: Applied for AFPE graduate Fellowship along with P1 student - \$ 5,000
- 2019: “REAP grant/R15”, NCI/NIH, \$397,500 (not funded), received a score of 65: Chemoprevention of prostate cancer by alpha-santalol
- 2019: Applied for AFPE graduate Fellowship along with P1 student - \$ 5,000
- 2017: “AREA grant/R15”, NCI/NIH, \$399,600 (not funded), not scored
- 2015: “AREA grant/R15”, NCI/NIH, \$399,650 (not funded), received a score of 39
- 2013: California Table Grape Commission: \$ 30,000 for 1 year: “Chemoprevention of prostate cancer by freeze-dried grape powder”
- 2012: Research grant “RO3” to National Cancer Institute: \$ 123,889 for two years: “Chemoprevention of prostate cancer by alpha-santalol” (not funded)
- 2012: California Table Grape Commission: \$ 30,000 for 1 year: “Chemoprevention of prostate cancer by freeze-dried grape powder” (not funded)
- 2010-2011: American Association of Colleges (AACP) New Faculty Research Award, \$ 10,000
- 2011: AACP travel grant, \$ 1,000.00 for attending annual AACP conference at SanAntonio, TX

PROFESSIONAL ACTIVITIES

Membership in Professional organizations

PLS Pharmacy Leadership Society	2020-present
American Association of Colleges of Pharmacy (AACP)	2009-2023
American Association for Cancer Research (AACR)	2005- present
Rho Chi Honor society	2005-present
Sigma Xi Research Society	2004-present
American Association of Pharmaceutical Scientists (AAPS)	2005-2007
American Association for Advancement of science (AAAS)	2005-2007

Mentoring & Research Training

Several undergraduate and graduate students were trained and supervised with research techniques and protocols:

FAU

1. Ana Cebular (2025 -
2. Victoria Cescato (2025 -
3. Annalisa Tran (2024 – 25)
4. Noah Lieb (2024 – 25)
5. Martha Torres (2024 – 25)
6. Julianna Marques, postdoc research associate (2023 – present)
7. Ritesh Chandrasekaran, MD student (2022 – present)
8. Jason Wild, MD student (2022 – 2023)

Wilkes University

1. Matthew Schwarztrauber M (2021 - 22)
2. Nathaniel Edwards (2021 -22)
3. James Hiryak (2021 – 22)
4. Jason Pepe, Pharm. D (2019 – 2021)
5. Kaitlyn Blankenhorn, Pharm. D (2018 - 2021)
6. Ryan Stewart, Pharm.D (virtually, summer, 2020)
7. Cole Wenner, Pharm.D (virtually, summer 2020)
8. Abigail McCabe, Pharm. D (virtually, Summer, 2020)
9. John Oberlin, Pharm. D (2018 - 2020)
10. Marissa Lewis, Pharm.D (Summer, 2019)
11. Danielle McGlynn, Pharm. D (Summer, 2019)
12. Erica Mabry, Pharm. D (2018 – 2021)
13. Aaron Knopp, Pharm. D (summer, 2018)
14. Sarah Hughes, Pharm. D (Summer, 2018)
15. Kacey Knapp, Pharm. D (2017 – 2019)
16. Abigail Nemeth, Pharm. D (2017 – 2019)
17. Karryn Crisamore, Pharm. D (2015 - 2016)
18. Terra Landis, Pharm. D (2015 – 2016)
19. James steigervalt, Pharm. D (2015-2016)
20. Sarah Brozena, Pharm.D (2014 – 2016)
21. Sarah Fillman, Pharm.D (2014 – 2015)
22. Lauren Lockus, Pharm.D (summer 2013)
23. Jonathan Seward, Pharm.D (summer 2013)
24. Andrea Antal, Pharm.D (2012- 2013)
25. Stacy Prelewicz, Pharm.D (2011- 2013)

26. William Eggleston, Pharm.D (2011- 2013)
27. Brittny Rule, Pharm.D (2010-2012)
28. Lindsey Coval, Pharm.D (2011 spring semester)
29. Lauren Machell Pharm.D (2011 spring semester)
30. Bethany Sharpless, Pharm.D (2011 spring semester)
31. Ricky Rampulla, Pharm.D (2009-2010)

University of Pittsburgh

32. Ashwin Shinde, Pre-Medicine student (summer 2009, University of Pittsburgh Cancer Institute, Pittsburgh, PA)

South Dakota State University

33. Dustin Schrader, Pharm.D (summer 2006, College of Pharmacy, SDSU, Brookings)
34. Kristen Remund, Pharm.D (summer 2006, College of Pharmacy, SDSU, Brookings)
35. Kristie Schmidt, Biology Major (summer 2006, College of Pharmacy, SDSU, Brookings)
36. Kathyryn Bremmon, Pharm.D (summer 2005, College of Pharmacy, SDSU, Brookings)
37. Rebecca Meyers, Pharm.D (summer 2005, College of Pharmacy, SDSU, Brookings)
38. Justin Hora, Pharm.D (2003-2004, College of Pharmacy, SDSU, Brookings)
39. Bruce Cornish, Pharm.D (summer 2003, College of Pharmacy, SDSU, Brookings)

Graduate thesis committee

- **FAU**
 - Alina Drips (Ph.D dissertation committee member)
 - Kayleigh Biegler (Ph.D dissertation committee member)
 - Anna Kingham, MS 2024 (Master's thesis committee member)
 - Mohamed, MS 2023 (Master's thesis committee member)

Teaching:

Florida Atlantic University, Schmidt College of Medicine

- **Courses taught:**
 - FBS course, Principles of Pharmacology, Microbiology – Co-director
 - NSB – Pharmacology of psychiatric and neurological agents Neuroscience & Behavior
 - PT modules
 - PT I Pharmacology of gastrointestinal agents
 - PT II Pharmacology of Cardiovascular & Pulmonary agents
 - PT III Pharmacology of Diabetes, Thyroid & reproductive agents
 - PT IV Pharmacology of Cancer chemotherapeutic agents

Wilkes University, Nesbitt School of Pharmacy:

- Courses taught:
 - PHA 331 & 332, Human Anatomy and Physiology
 - PHA 327 & H, Medical Microbiology
 - PHA 398, Introduction to Pharmacology (elective)
 - PHA 435, Pharmacogenomics (team-taught elective)
 - PHA 556, Role of phytochemicals in health & disease (elective)
 - Pharmacotherapeutics modules
 - PHA 421, Principles of Pharmacology & Medicinal chemistry
 - PHA 425, Self-care & Dermatology
 - PHA 521, Pulmonary disorders
 - PHA 525, Renal disorders
 - PHA 526, endocrine disorders

- PHA 528, Oncology
- PHA 530, CNS disorders

South Dakota State University:

- Courses taught:
 - Introduction to Human Biology labs **Bio 101L, Bio 103L** and
 - **Mammalian Physiology 325 L** for undergraduate students
 - **Pharmacology** and **Principles of Drug Action** labs for professional Pharm.D students

Professional service

- 2021 – 22: Member, programming committee, Biological Sciences section, AACP
- 2021 – 22: Member, mentoring committee, Biological Sciences section, AACP
- 2019 – 21: Secretary of knowledge management, Biological Sciences section, AACP
- 2019 – 20: Chair, Teaching Excellence sub-committee, Biological Sciences section, AACP
- 2017 – 19: Member, programming committee, Biological Sciences section, AACP
- 2020 – 22: Co-faculty advisor, Rho Chi honor society, Nesbitt School of Pharmacy, Wilkes University
- 2016 – 22: Mentor to new faculty members, Wilkes University
- 2016 – 22: Judge, Pennsylvania Junior Academy of Sciences

Associate Editor:

- Pharmacology of Anti-cancer drugs, Frontiers in Pharmacology
- Precision Oncology, MDPI journal

Review editor:

- Ethnopharmacology, Frontiers in Pharmacology

Scientific Reviewer:

- Journal of Experimental & Clinical Cancer Research
- Clinical Cancer Research
- Cancer Research
- Phytomedicine
- Journal of Molecular Medicine
- BioMed Central Research Notes
- International Journal of Nanomedicine
- Cancer Cell International
- Molecular Carcinogenesis
- Natural Products Research

Grant Reviewer:

- American Association of Colleges of Pharmacy (AACP) – 2012 - 2022

Institutional activities:

Current:

- 2022 - : member, curricular committee, Schmidt College of Medicine, FAU
- 2023 – : member, MSPPSC (Medical students' progression and professionalism committee), FAU
- 2023 - : interviewer, Medical students admissions committee, FAU
- 2024 – : member, Graduate admissions committee, FAU
- Summer 2024; FAU undergraduate scholarships review committee

Completed:

- 2021 – 2022: member, Tenure & Promotion committee, Wilkes University
- 2015 – 2022: member, University mentoring committee, Wilkes University
- 2021 – 2022: chair, student affairs committee, Nesbitt school of Pharmacy
- 2018 - 2022: member, Examsoft super user committee, Wilkes University
- 2019 – 2021: member, University library committee, Wilkes University
- 2014 – 2021: Chair, IACUC, Wilkes University
- 2018 - 2020: member, ACPE accreditation steering committee, Nesbitt School of Pharmacy
- 2019 – 2021, member, Assessment committee, Nesbitt school of Pharmacy
- 2016 – 2018: Strategic committee (Chair: 2018), Nesbitt School of Pharmacy
- 2015 – 2017: member, University IRB committee, Wilkes University
- 2010 - 2016: member, University IT committee, Wilkes University
- 2013 - 2014: Member & Type I awards coordinator, Faculty Development Committee, Wilkes University
- 2011 -2013: Secretary & Member, Curriculum committee, Nesbitt school of Pharmacy,
- 2010 - 2012: Student affairs committee (Chair: 2011), Nesbitt school of Pharmacy
- 2010-2012: Student affairs representative on Assessment committee, Nesbitt school of Pharmacy
- 2005 - 2006: Member, Science Fair Judging committee, Department of Biology & Microbiology, South Dakota State University, Brookings, SD
- 2005 - 2006: Chair, Newsletter committee, American Association of Pharmaceutical Scientists (AAPS) student chapter, College of Pharmacy, South Dakota State University, Brookings, SD

COMMUNITY SERVICE & CIVIC ENGAGEMENT

- FAU College of Medicine, Whites coats for care fundraising event
- FAU College of Medicine, Hurricane relief donation drive
- FAU College of Medicine Blood donation drive, 10/31/23; 03/26/24; 10/22/24; 03/25/25
- FAU College of Medicine Marshall for summer graduation commencement ceremony, 08/08/23
- Volunteered for “Need Help Just Ask” campaign geared towards assisting in-coming freshmen, FAU, Fall 2023, 2024
- Bridge to Medicine – Research presentation to high school students, FAU, 2023, 2024
- Participated in “Opioid Awareness Walk” April 13th, 2022
- Participated in Wilkes accepted student’s day and gave a presentation on the topic “Pharmacology, too fast, too slow, oh! Medications, where did you go?”. March 19th, 2022.
- Contributed to the backpack project and Ukraine relief donation drive.
- Served as a preceptor to patient-centered SD-IPPE activities through PPAG (reviewed over 20 different topics and made sure the information conveyed is accurate and up to date)
- Participated in Wilkes accepted student’s day and gave a presentation on the topic “Pharmacology, too fast, too slow, oh! Medications, where did you go?”. April 10th, 2021.
- Participated in the alcohol awareness walk held on October 22nd, 2019
- Participated in Colonels connect program
- Served as a preceptor to SD-IPPE activities performed by students at local elementary schools
- Participated in Career Day, Rice Elementary School, Mountain Top PA, November 15th, 2019
- Participated in Luzerne County Senior Expo, Wyoming Valley Mall, Wilkes-Barre, PA, October 3rd, 2019
- Volunteered at the CEO food bank program, December 2018
- Participated in Alcohol Awareness Walk, Wilkes-University, Wilkes-Barre, PA, October 23rd, 2018

- Participated in Luzerne County Senior Expo, Kingston, PA, October 15th, 2015
- Participated in Luzerne County Senior Expo, Kingston, PA, October 16th, 2014
- Participated in “Relay for life”, cancer awareness walk, Wilkes University, Wilkes-Barre, PA, April 12th, 2014
- Participated in Wear RED 5K Run (heart health Awareness), Wilkes –Barre, PA March 23rd, 2014
- Participated in Luzerne County Senior Expo, Kingston, PA, October 18th, 2013
- Volunteered for Wilkes University “Backpack project” for the homeless: December 2012
- Volunteered for 4th annual Endure: An American Cancer Society endure 4 run and ride event at Wilkes University, Wilkes-Barre, PA: August 11th, 2012
- Team building activity with first- and second-year pharmacy students: Camp Kresgie, PA, April 14-15, 2012
- YMCA Christmas party for underprivileged kids. Wilkes-Barre, PA 2011
- Volunteered for 3rd annual Endure: An American Cancer Society Bike-a-thon event at Wilkes University, Wilkes-Barre, PA: August 7th, 2011
- Volunteered for 2nd annual IPEC conference, Kings’ College, Wilkes-Barre, PA: March 2011
- Volunteered for Wilkes University “Backpack project” for the homeless: December 2010
- Lupus awareness 5K walk, Kirby Park, Kingston, PA: September 2010
- Volunteered for 2nd annual “Endure for a cure”, cancer awareness bike race sponsored by American Cancer Society, Wilkes-Barre, PA: August 8th, 2010
- Camp site for blind kids: Exeter, PA: July 2010
- YMCA Christmas party for kids, Wilkes-Barre, PA: December 2009
- Alzheimer’s awareness walk, Kirby Park, Kingston, PA : September 2009

KEY RESEARCH & PROFESSIONAL ACCOMPLISHMENTS

- Served as a self-study member of South Dakota State University’s Graduate program and contributed to the evaluation of the program
- Developed two elective courses, “Introduction to Pharmacology” and “Role of Phytochemicals in health & disease”
- Developed Pharmacogenomics elective along with two other colleagues in the Nesbitt School of Pharmacy
- Founding member of the team involved in MS in Pharmacology & Medicinal Chemistry program approval in the Nesbitt School of Pharmacy, Wilkes University
- Established cancer research facility and developed Western Blot analysis technique for analyzing the expression of proteins involved in cell signaling pathways at the department of pharmaceutical Sciences at Wilkes University.
- Developed cell culture facility for investigating antitumor properties of naturally occurring compounds at the department of pharmaceutical Sciences, Wilkes University.
- Along with other colleagues at University of Pittsburgh Cancer Institute, identified an important biomarker, clusterin, in the plasma of TRAMP mice used to assess the biological effects of an important chemopreventive agent: phenethyl isothiocyanate.
- Investigated the role of dietary agents in cruciferous vegetables on the development of prostate and breast cancer.
- Investigated the chemopreventive properties of dietary flaxseed on colon tumor development in both normal and transgenic animal models and identified the role of omega-3 fatty acids, phytochemicals and COX-2 enzyme on colon tumor development. Omega-3 fatty acids and lignans

present in dietary flaxseed play a crucial role in lowering the development of tumors in both colon and small intestine.

- Developed the cell culture facility in the Biochemoprevention laboratory at Department of Pharmaceutical Sciences, College of Pharmacy, South Dakota State University, Brookings, SD.
- Developed modified analytical technique using Gas Chromatography- Mass Spectroscopy for analyzing phytochemicals in Biological samples.

Curriculum Vitae

Dr. Lisa Ann Brennan **Research Professor**

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Education/Employment History

Education

- 1993-1996 **School of Biomedical Sciences, University of Ulster, Northern Ireland**
D.Phil. (Biomedical Sciences) awarded November 1996. Thesis title: The effect of antioxidant supplementation on the oxidant-induced stress response in human lymphocytes.
- 1988-1992 **University of Ulster, Northern Ireland**
B.Sc. (Hons.) Biomedical Sciences – Upper Second Class. Diploma in industrial Studies: Haematology and Blood Transfusion Lab, West Middlesex University Hospital, Isleworth, London, UK.
- 1986-1988 **Dundalk Institute of Technology, Co Louth, Ireland**
National Certificate in Science (Applied Biology) with Credit.

Employment

- 2024 - Present **Research Professor** - Kantorow Laboratory, FAU.
- 2007 - 2024 **Research Associate Professor** - Kantorow Laboratory, FAU.
- 2006 - 2007 **Research Associate** - Northern Ireland Centre for Diet and health Research (NICHE).
- 2001 - 2006 **R&D Scientist** - Randox Laboratories Ltd, Crumlin, Co Antrim.
- 2000 - 2001 **Postdoctoral Fellow** - Division of Neonatology, Northwestern University Feinberg School of Medicine, Chicago, USA.
- 1998-2000 **Postdoctoral Research Officer** - LRF Differentiation Unit, University of Wales College of Medicine, Heath Park, Cardiff, UK.
- 1996-1998 **Postdoctoral Research Officer** - Cancer and Ageing Research group, School of Biomedical Sciences, University of Ulster, Coleraine.
- 1992-1996 **Post Graduate Research Studentship** - Thesis title: The effect Antioxidant supplementation on the oxidant-induced stress response in human lymphocytes. Cancer and Ageing Research group, School of Biomedical Sciences, University of Ulster, Coleraine.

Scholarship/Research/Creative Activity

Publications in Print

Refereed Journal Articles

1. **Brennan L**, Disatham J, Kantorow M. Hypoxia-Driven Histone Modifications Govern Gene Regulation for Mature Eye Lens Formation. Invest Ophthalmol Vis Sci. 2025 Oct 1;66(13):2. doi: 10.1167/iovs.66.13.2. PMID: 41031740
2. Lalman C, Stabler KR, Disatham J, **Brennan LA**, Kantorow M, Walker JL. Distinct transcriptional regulation of the Wnt and TGF β signaling families associated with wound healing and fibrotic outcomes to lens injury. Exp Eye Res. 2025 Sep 12;261:110628. doi: 10.1016/j.exer.2025.110628. Online ahead of print. PMID: 40946957.
3. **Brennan L**, Disatham J, Menko, A S and Kantorow M. Multiomic analysis reveals a novel role for FOXO4 in genetic regulation of chick lens fiber cell differentiation. Developmental Biology 2023, 504:25-37. DOI: 10.1016/j.ydbio.2023.09.005
4. Disatham J, **Brennan L**, Cvekl, A and Kantorow M. Multiomics Analysis Reveals Novel Genetic Determinants for Lens Differentiation, Structure, and Transparency. Biomolecules 2023, 13(4), 693; <https://doi.org/10.3390/biom13040693> Review

5. **Brennan L**, Costello MJ, Hejtmancik JF, Menko AS, Riazuddin SA, Shiels A, and Kantorow M. Autophagy Requirements for Eye Lens Differentiation and Transparency. *Cells* 2023, 12(3), 475; <https://doi.org/10.3390/cells12030475> Review
6. Taylor A, Gu G, Chang, ML, Yang, W, Francisco S, Rowan S, Bejarano E, Pruitt S, Zhu L, Weiss G, **Brennan L**, Kantorow M, and Whitcomb EA. Repurposing a Cyclin-Dependent Kinase 1 (CDK1) Mitotic Regulatory Network to Complete Terminal Differentiation in Lens Fiber Cells. *Investigative Ophthalmology & Visual Science*. February 2023, Vol.64, 6. doi: <https://doi.org/10.1167/iovs.64.2.6>
7. Ma Z, Chauss D, Disatham J, Jiao X, **Brennan LA**, Menko AS, Kantorow M, Hejtmancik JF. Patterns of Crystallin Gene Expression in Differentiation State Specific Regions of the Embryonic Chicken Lens *Investigative Ophthalmology & Visual Science*. 2022 Apr 1;63(4):8. doi: 10.1167/iovs.63.4.8. PMID: 35412582
8. Disatham J, **Brennan L**, Jiao X, Ma Z, Hejtmancik JF, Kantorow M. Changes in DNA methylation hallmark alterations in chromatin accessibility and gene expression for eye lens differentiation. *Epigenetics and Chromatin*. 2022 Mar 5;15(1):8. doi: 10.1186/s13072-022-00440-z. PMID: 35246225.
9. Disatham J, **Brennan L**, Chauss D, Kantorow J, Afzali B, Kantorow M. A functional map of genomic HIF1 α -DNA complexes in the eye lens revealed through multiomics analysis. *BMC Genomics*. 2021 Jul 3;22(1):497. doi: 10.1186/s12864-021-07795-9. PMID: 34215186
10. **Brennan L**, Disatham J, Kantorow M. Mechanisms of organelle elimination for lens development and differentiation. *Experimental Eye Research*. 2021 Jun 30;209:108682. doi: 10.1016/j.exer.2021.108682. Online ahead of print. PMID: 34214522. **Review**
11. Costello MJ, Gilliland KO, Mohamed A, Schey KL, Johnsen S, **Brennan LA**, Kantorow M. Novel mitochondrial derived Nuclear Excisosome degrades nuclei during differentiation of prosimian Galago (bush baby) monkey lenses. *PLoS One*. 2020 Nov 12;15(11):e0241631. doi: 10.1371/journal.pone.0241631. eCollection 2020. PMID: 33180800
12. **Brennan L**, Disatham J, Kantorow M. Hypoxia regulates the degradation of non-nuclear organelles during lens differentiation through activation of HIF1 α . *Experimental Eye Research*. 2020 Sep;198:108129. doi: 10.1016/j.exer.2020.108129. Epub 2020 Jul 3.
13. Disatham J, Chauss D, Gheyas R, **Brennan L**, Blanco D, Daley L, Menko AS, Kantorow M. Lens differentiation is characterized by stage-specific changes in chromatin accessibility correlating with differentiation state-specific gene expression. *Development Biology*. 2019 Sep 1;453(1):86-104. doi: 10.1016/j.ydbio.2019.04.020.
14. **Brennan LA**, McGreal-Estrada R, Logan CM, Cvekl A, Menko AS, Kantorow M. BNIP3L/NIX is required for elimination of mitochondria, endoplasmic reticulum and Golgi apparatus during eye lens organelle-free zone formation. *Experimental Eye Research*. 2018 Sep;174:173-184. doi: 10.1016/j.exer.2018.06.003.
15. **Brennan L**, Khoury J, Kantorow M. Parkin elimination of mitochondria is important for maintenance of lens epithelial cell ROS levels and survival upon oxidative stress exposure. *Biochimica et Biophysica Acta*. 2017 Jan;1863(1):21-32. doi: 10.1016/j.bbadis.2016.09.020.
16. Costello MJ, **Brennan LA**, Mohamed A, Gilliland KO, Johnsen S, Kantorow M. Identification and Ultrastructural Characterization of a Novel Nuclear Degradation Complex in Differentiating Lens Fiber Cells. *PLoS One*. 2016 Aug 18;11(8). doi: 10.1371/journal.pone.0160785.
17. Shuying He, Saima Limi, Rebecca S. McGreal, Qing Xie, **Lisa Ann Brennan**, Wanda Kantorow, Juraj Kokavec, Romit Majumdar, Harry Hou, Winfried Edelmann, Wei Liu, Ruth Ashery-Padan, Jiri Zavadil, Marc Kantorow, Arthur Skoultchi, Tomas Stopka, Ales Cvekl. Chromatin remodeling enzyme Snf2h/Smarca5 regulates embryonic lens differentiation and denucleation. *Development*. 2016. *Development*. 2016 Jun 1;143(11):1937-47. doi: 10.1242/dev.135285. PMID: 27246713
18. Klionsky et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*. 2016. 12(1):1-222. doi: 10.1080/15548627.2015.1100356.
19. **Brennan LA**, Chauss D, Bakina O, Kantorow M. Integrin α V β 5-mediated Removal of Apoptotic Cell Debris by the Eye Lens and Its Inhibition by UV Light Exposure. *Journal of Biological Chemistry*. 2015 Dec 18;290(51):30253-66. doi: 10.1074/jbc.M115.688390.
20. Chauss D, Basu S, Rajakaruna S, Ma Z, Gau V, Anastas S, **Brennan LA**, Hejtmancik JF, Menko AS, Kantorow M. Differentiation state-specific mitochondrial dynamic regulatory networks are revealed by global transcriptional analysis of the developing chicken lens. *Genes, Genomes and Genetics (G3) (Bethesda)*. 2014 Jun 13;4(8):1515-27. doi: 10.1534/g3.114.012120.
21. Costello MJ, **Brennan LA**, Basu S, Chauss D, Mohamed A, Gilliland KO, Johnsen S, Menko AS, Kantorow M. Autophagy and mitophagy participate in ocular lens organelle degradation. *Experimental Eye Research*. 2013 Nov;116:141-50. doi: 10.1016/j.exer.2013.08.017.

22. **Brennan LA**, McGreal RS, Lee Kantorow W, Wilcox, JD, Wei J, Chauss DC, Kantorow M. Chaperone-independent mitochondrial translocation and protection by α B-crystallin in RPE cells. *Experimental Eye Research*. 2013 110:10-7. doi: 10.1016/j.exer.2013.02.016.
23. **Brennan LA**, Kantorow WL, Chauss D, McGreal RS, He S, Matucci L, Wei J, Riazuddin SA, Cvekl A, Hejtmancik JF, Kantorow, M. Spatial expression patterns of autophagy genes in the eye lens and induction of autophagy in lens cells. *Molecular Vision* 2012; 18:1773-1786. PMID: 22815631.
24. McGreal RS, Lee Kantorow W, Chauss DC, Wei J, **Brennan LA**, Kantorow M. α B-crystallin/sHSP protects cytochrome c and mitochondrial function against oxidative stress in lens and retinal cells. *Biochimica et Biophysica Acta*. 2012 Jul; 1820(7):921-30. doi: 10.1016/j.bbagen.2012.04.004.
25. **Brennan LA**, McGreal RS, Kantorow M. Oxidative stress defense and repair systems of the ocular lens. *Frontiers in Bioscience (Elite Ed)*. 2012 Jan 1; 4:141-55. doi: 10.2741/365. **Review**
26. Yang C, Yang Y, **Brennan L**, Bouhassira EE, Kantorow M, Cvekl A. Efficient generation of lens progenitor cells and lentoid bodies from human embryonic stem cells in chemically defined conditions. *FASEB Journal*. 2010 Sep; 24(9):3274-83. doi: 10.1096/fj.10-157255.
27. **Brennan LA**, Lee W, Kantorow M. TXNL6 is a novel oxidative stress-induced reducing system for methionine sulfoxide reductase a repair of α -crystallin and cytochrome C in the eye lens. *PLoS One*. 2010 Nov 4; 5(11):e15421. doi: 10.1371/journal.pone.0015421.
28. **Brennan LA**, Lee W, Giblin FJ, David LL, Kantorow M. Methionine sulfoxide reductase A (MsrA) restores alpha-crystallin chaperone activity lost upon methionine oxidation. *Biochimica Biophysica Acta*. 2009 Dec; 1790(12):1665-72. doi: 10.1016/j.bbagen.2009.08.011.
29. **Brennan LA**, Lee W, Giblin F and Kantorow M. Deletion of mouse MsrA results in HBO-induced cataract: MsrA repairs mitochondrial cytochrome c. *Molecular Vision*. 2009 15:985-999. PMID: 19461988.
30. **Brennan LA**, Kantorow M. Mitochondrial function and redox control in the aging eye: The role of MsrA and other repair systems in cataract and macular degenerations. *Experimental Eye Research*. 2009 Feb; 88(2):195-203. doi: 10.1016/j.exer.2008.05.018. **Review**
31. Dizon, MLV, **Brennan LA**, Black SM. Ethanol Induces Cytotoxic Oxidative Stress in PC12 Cells: Protection by Reactive Oxygen Species Scavengers. *Journal of Pharmacology and Toxicology* 2006; 1 (5): 418-428.
32. Wedgwood S, Steinhorn RH, Bunderson M, Wilham J, Lakshiminsushimha S, **Brennan LA** and Black SM. Increased hydrogen peroxide downregulates soluble guanylate cyclase in the lungs of lambs with persistent pulmonary hypertension of the newborn. *American Journal of Physiology-lung Cellular and Molecular Physiology*. 2005 Oct; 289(4):L660-6. doi: 10.1152/ajplung.00369.2004.
33. Ravi, K., **Brennan, LA**, Levic, S, Ross, PA and Black SM. S-nitrosylation of endothelial nitric oxide synthase is associated with monomerization and decreased enzyme activity. *Proceeding of the National Academy of Science. U.S.A.* 2004 Feb 24; 101(8):2619-24. doi: 10.1073/pnas.0300464101.
34. Wainwright MS, **Brennan LA**, Dizon ML, Black SM. p21ras activation following hypoxia-ischemia in the newborn rat brain is dependent on nitric oxide synthase activity but p21ras does not contribute to neurologic injury. *Developmental Brain Research*. 2003 Dec 19; 146(1-2):79-85. doi: 10.1016/j.devbrainres.2003.09.012.
35. **Brennan LA**, Wedgwood S, Bekker JM, Black SM. Nitric oxide activates p21ras and leads to the inhibition of endothelial NO synthase by protein nitration. *DNA and Cell Biology*. 2003 May; 22(5):317-28. doi: 10.1089/104454903322216662.
36. **Brennan LA**, Steinhorn RH, Wedgwood S, Mata-Greenwood E, Roark EA, Russell JA, Black SM. Increased superoxide generation is associated with pulmonary hypertension in fetal lambs: a role for NADPH oxidase. *Circulation Research*. 2003 Apr 4; 92(6):683-91. doi: 10.1161/01.RES.0000063424.28903.BB.
37. **Brennan LA**, Wedgwood S, Black SM. The overexpression of catalase reduces NO-mediated inhibition of endothelial NO synthase. *IUBMB Life*. 2002 Nov; 54(5):261-5. doi: 10.1080/15216540215679.
38. **Brennan LA**, Wedgwood S, Bekker JM, Black SM. The overexpression of copper-zinc superoxide dismutase protects NOS III from nitric oxide-mediated inhibition. *DNA and Cell Biol*. 2002 Nov; 21(11):827-38. doi: 10.1089/104454902320908478.
39. **Brennan, LA**, Morris, GM., Wasson, GR, Hannigan, BM and Barnett, YA. The effect of vitamin C or vitamin E supplementation on basal and H₂O₂-induced DNA damage in human lymphocytes. *British Journal of Nutrition*. 2000 84(2):195-202. doi: 10.1017/s0007114500001422.
40. **Brennan, LA**, Hannigan, BM and Barnett, YA. The Effect of Antioxidant Supplementation on the Oxidant-Induced Stress Response in Human Lymphocytes. *Biochemical Society Transactions*. 1996 24 (1): S75. doi: 10.1042/bst024075s.

41. O'Farrell, F, **Brennan, LA**, Barnett, YA and Hannigan, BM. An Investigation of the Oxidative Stress Response in Human Lymphoid Cells. *British Journal of Radiobiology*. 1995 68 (809): 559.
42. Barnett, YA, **Brennan, LA**, O'Farrell, F. and Hannigan, BM. The Oxidant Induced Stress Response in Lymphoid Cells. *Biochemistry and Molecular Biology International*. 1995 37 (2): 273-281. PMID: 8673010.

Refereed Presentations and Proceedings

International Presentations

XXV International Congress for Eye Research. Invited Platform Presentation: Title - Hypoxia regulation of the epigenetic landscape of differentiating lens cells. **Lisa Brennan**, Joshua Disatham, Marc Kantorow. Feb 2023. Gold Coast, Australia. *Presented*.

XXIII International Congress for Eye Research. Invited Platform Presentation: Title - Hypoxia regulation of lens structure and function. **Lisa Brennan**, Joshua Disatham, Marc Kantorow. Sept 2018. Belfast, UK. *Presented*.

XXI International Congress for Eye Research. Invited Platform Presentation: Title - Parkin-Directed Mitophagy Governs Lens Epithelial Cell Mitochondrial Degradation Under Oxidative Stress Conditions. **Lisa Brennan**, Dan Chauss, Marc Kantorow. July 2014. San Francisco, USA. *Presented*.

XX International Congress for Eye Research. Invited Platform Presentation: Title - Repair of alpha-crystallin chaperone activity by MsrA and protection of lens mitochondria. **Lisa Brennan**, R.S. McGreal, W. Lee Kantorow, D. Chauss, M. Kantorow. July 2012. Berlin, Germany. *Presented*.

International Poster Presentations

The role of FYCO1 in lens and retinal autophagy. W. Lee Kantorow, **L. Brennan**, D. Chauss, L. Walsh, S. He, A. Cvekl, S.A. Riazuddin, J.F. Hejtmancik, M. Kantorow. XX International Congress for Eye research, Berlin, July 2012. *Presented Dr. Wanda Lee Kantorow*.

Thioredoxin-like protein 6 (TXNL6) is an H₂O₂ inducible reducing system for methionine sulfoxide reductase A (MsrA) repair of oxidized proteins whose expression increases upon aging in the human lens. W. Lee, **L. Brennan**, R. McGreal, and M. Kantorow. EVER 2010. Crete, Greece. Presented by *Dr. Wanda Lee Kantorow*.

Alpha crystallin and cytochrome c form mitochondrial complexes with MsrA in lens and heart cells. R. McGreal, W. Lee, **L. Brennan** and M. Kantorow. XIX International Conference on Eye Research. 2010. Montreal, Canada. *Presented by PhD Student Rebecca McGreal*.

TXNL6 is expressed by aging human lens and can serve as a reducing system for MsrA. W Lee, **L Brennan**, R McGreal and M Kantorow. ICER 2010. Montreal, Canada. Presented by *Dr. Wanda Lee Kantorow*.

TXNL6 is expressed by the aging human lens and can serve as a lens reducing system for MsrA. W. Lee, **L. Brennan**, R. McGreal, and M. Kantorow XIX International Conference on Eye Research. 2010. Montreal, Canada. Presented by *Dr. Wanda Lee Kantorow*.

MsrA repair and restoration of alpha-crystallin function in the lens. **L. Brennan**, W. Lee, and M. Kantorow. XVIII International Conference on Eye Research, 2008. Beijing, China. Presented Poster

Methionine sulfoxide reductase A is a lens redox sensor acting through Cyt c repair. W. Lee, **L. Brennan**, A. Sur, and M. Kantorow. XVIII International Conference on Eye Research, 2008. Beijing, China. *Presented by PhD Student Wanda Lee*

National Presentations

Hypoxia-regulated epigenetic programming governs lens fiber cell differentiation. **Lisa Brennan**, Joshua Disatham, Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Seattle, May 2024. *Presented*.

Epigenetic programming regulates lens fiber cell gene expression to achieve lens fiber cell form and function and is dependent on the hypoxic environment of differentiating lens fiber cells. **Lisa Brennan**, Joshua Disatham, Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting New Orleans, April 2023. *Presented*.

Multiomic identification of genome-wide DNA binding sites and target genes identifies HIF1 α as a hypoxia-dependent master regulator of lens gene expression. Joshua Disatham, **Lisa A. Brennan**, Daniel Chauss, Jason Kantorow, Behdad Afzali, Marc Kantorow. Abstract/Platform presentation - Association for Research in Vision and Ophthalmology meeting, Virtual meeting, 2021. *Presented by PhD Student Joshua Disatham*.

Control of lens fiber cell denucleation by CDK1 regulation in mouse and chick. Elizabeth A. Whitcomb¹, Yumei Gu¹, Min-Lee Chang¹, Wenxin Yang¹, Sarah G Francisco¹, Marc Kantorow², **Lisa A. Brennan**², Steven Pruitt³, Liang Zhu⁴, Allen Taylor¹. Abstract/Platform presentation - Association for Research in Vision and Ophthalmology meeting, Virtual meeting, 2021. *Presented by Dr. Elizabeth Whitcomb*.

Elimination of Mitochondria, Endoplasmic Reticulum and Golgi during lens cell differentiation to form the lens organelle-free zone requires the mitophagy protein BNIP3L and is regulated by the transcription factor HIF1 α . **Lisa Brennan**, A. Rebecca McGreal, Caitlin Logan, Ales Cvekl, Sue Menko, and Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Baltimore, May 2017. *Presented*.

Mitochondrial and Nuclear Translocation by α -Crystallin and Protection of Lens Cells against UV-light and Oxidative Exposures. **Lisa Brennan**, A. Rebecca McGreal, Dan Chauss, Josef Khoury, Larry David, Sue Menko and Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Seattle, May 2016. *Presented*.

BNIP3L/Nix is required for mitochondrial elimination through mitophagy and the subsequent elimination of endoplasmic reticulum during the lens fiber cell differentiation program. **Lisa Brennan**, Karem Aktan, Suren Rajakaruna, Rebecca McGreal, Daniel Chauss, Ales Cvekl, A. Sue Menko, Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Denver, May 2015. *Presented*.

Parkin regulates mitochondrial quality control in oxidative stress-treated lens epithelial cells through mitophagy. **Lisa Brennan**, Dan Chauss, Subhasee Basu, Sue Menko and Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Orlando, May 2014. *Presented*.

TXNL6 (RdCVF) is a novel lens reducing system required for MsrA repair of α -crystallin and cytochrome c. **Lisa A Brennan**, Wanda Lee, Rebecca McGreal, Larry David and Marc Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Fort Lauderdale, May 2010. *Presented*.

Restoration of cytochrome c and alpha crystallin function by MsrA suggests an important role for methionine oxidation in lens epithelium function and cataract. **Lisa A. Brennan**, W Lee, M Markosian, M Demos, F Giblin and M Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting Fort Lauderdale, May 2009. *Presented*.

Critical role of MsrA repair of oxidized cytochrome c for mitochondrial function and apoptosis in the lens. **Lisa A. Brennan**, W Lee, A Sur, T Cowell, F Giblin and M Kantorow. Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale May 2008. *Presented*.

Nitric oxide mediated activation of p21^{ras} results in increased superoxide formation in endothelial cells and leads to NOS inactivation. **Lisa A. Brennan**, Stephen Wedgwood, Janine Bekker and Stephen M. Black. The Society of Pediatric Research, Baltimore April 28-May 1st 2001. *Presented*.

The Effect of Antioxidant Supplementation on the DNA damage in Human Lymphocytes. **Lisa A. Brennan**, Bernie M. Hannigan and Yvonne A. Barnett. Ulster Immunology Group meeting, Queens University Belfast, Nov. 1997. *As presenter*.

The Effect of Antioxidant Supplementation on the Oxidant-Induced Stress Response in Human Lymphocytes. **Lisa A. Brennan**, Bernie M. Hannigan and Yvonne A. Barnett. 656th Joint British and Irish Sections of The Biochemical Society Meeting, Dublin, September 1995. *Presented*.

An Investigation into the Oxidant-Induced Stress Response in Lymphoid Cells. Frank O'Farrell, **Lisa A. Brennan**, Bernie M Hannigan and Yvonne A Barnett. British Institute of Radiology meeting, London November 18th 1994. *As co-presenter with Frank O'Farrell.*

National Poster Presentations

The transcriptional landscape of the hypoxia-driven lens differentiation pathway. Oze Elimelech, Lisa Brennan and Marc Kantorow. Poster - Association for Research in Vision and Ophthalmology meeting, Seattle, WA. 2024. *Presented by MS student Oze Elimelech.*

Genome-wide chromatin mapping and transcriptome analysis reveals chromatin regulation as a novel mechanism for controlling gene expression during lens differentiation. Joshua Disatham, D. Chauss, R. Gheyas, **L. A. Brennan**, D. Blanco, L. Daley, A. Menko, M. Kantorow. Poster - Association for Research in Vision and Ophthalmology meeting, Vancouver, BC. 2019. *Presented by PhD student Joshua Disatham.*

Phosphoinositide-3-kinase-interacting protein 1 (PIK3IP1) Inhibition of Phosphoinositide-3-kinase (PI3K) Signaling is Crucial for Induction of Autophagy to Form the Lens Organelle Free Zone (OFZ). Rifah Gheyas, **Lisa A. Brennan**, Marc Kantorow, and A. Sue Menko. Poster - Association for Research in Vision and Ophthalmology meeting, Baltimore, MD. 2017. *Presented by PhD student Rifah Gheyas.*

Parkin-directed mitophagy is required for lens cell survival upon exposure to cataract-associated environmental insults. Marc Kantorow, Karem Aktan, Daniel Chauss, **Lisa A. Brennan**. Poster - Association for Research in Vision and Ophthalmology, 2015, Denver, CO. *Presented by Dr. Marc Kantorow*

Chaperone-independent mitochondrial translocation, oxidative stress protection and prevention of apoptosis by α B-crystallin. Bettina Teng, Rebecca S. McGreal, Daniel Chauss, **Lisa A. Brennan** and Marc Kantorow. Association for Research in Vision and Ophthalmology 2014, Orlando, FL. *Presented by UG researcher Bettina Tang.*

α B-crystallin protects lens and retinal cell mitochondrial function under oxidative stress conditions. Rebecca S. McGreal, Daniel C. Chauss, Wanda Lee, Jianning Wei, **Lisa A. Brennan**, Marc Kantorow. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL. *Presented by PhD Student Rebecca McGreal.*

The Characterization of FYCO1 Expression and Function in Lens and Retinal Cells. Wanda Lee, **Lisa A. Brennan**, Daniel Chauss, Shuying He, Amer Riazuddin, Ales Cvekl, James F. Hejtmancik, Marc Kantorow. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL. *Presented by Dr. Wanda Lee.*

TXNL6 is a novel oxidative stress-inducible activator of MsrA repair in lens and retina. Wanda Lee, **Lisa A. Brennan**, Marc Kantorow. Association for Research in Vision and Ophthalmology 2011, Ft. Lauderdale, FL. *Presented by Dr. Wanda Lee.*

α -Crystallin and Cytochrome C Form a Mitochondrial Complex with MsrA in Lens Cells. R. McGreal, W. Lee, M. Demos, **L. Brennan**, M. Kantorow. 2010 Association for Research in Vision and Ophthalmology 2010. Ft. Lauderdale, Florida. *Presented by PhD Student Rebecca McGreal.*

Expression and Localization of a Novel Lens Reducing System Called Thioredoxin-Like Protein 6 (TXNL6) in Human Lens and Retina. W. Lee, M. Demos, R. McGreal, **L. Brennan**, M. Kantorow. 2010. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida. *Presented by Dr. Wanda Lee.*

Biphasic effects of nitric oxide on fetal pulmonary arterial smooth muscle cell growth. S Wedgwood, **LA Brennan**, J Lu, T Jilling, SM Black. The Society of Pediatric Research, Baltimore April 29-May 2nd 2002. *Presented by Dr. Stephen Wedgwood.*

Ethanol induces cytotoxic oxidative stress in PC12 cells: Protection by reactive oxygen species Maria L.V. Dizon, **Lisa A. Brennan** and Stephen M. Black. The Society of Pediatric Research, Baltimore April 28-May 1st 2001. *Presented by Dr. Maria Dizon.*

Lipopolysaccharide (LPS) affects in vitro response of vascular cell adhesion molecule V-CAM1 to mechanical stretch. David M. Steinhorn, **Lisa A. Brennan**, Lisa Forquer and Stephen M. Black. The Society of Pediatric Research, Baltimore April 28-May 1st 2001. *Presented by Dr. David Steinhorn*

Reactive oxygen species cause a monomer-dimer shift in endothelial NO synthase: A novel inhibitory mechanism. **Lisa A. Brennan**, Everett A Roark and Stephen M. Black. The second International Conference on Oxidative Stress and Ageing in Hawaii; U.S.A. April 2nd-5th 2001. *Presented.*

Oxidant-Induced Stress Response in Lymphoid Cells. Yvonne A Barnett, **Lisa A Brennan**, Frank J O'Farrell and Bernie M Hannigan. The first International Conference on Oxidative Stress and Ageing in Hawaii; U.S.A. March 22-26th 1994. *Presented by Dr. Yvonne Barnett.*

Grant funding

R01 EY026478-01 Role: Co-Investigator with Dr. Marc Kantorow.

Grant Title: Hypoxia regulation of the lens.

The goal of this study is to determine the role of hypoxia in lens cell differentiation and function.

Budget: \$1.73M

Project period: 8/01/19 – 12/31/2029

R01 EY026478-01 Role: Co-Investigator with Dr. Marc Kantorow and Dr. Sue Menko (Thomas Jefferson University, Philadelphia).

Grant Title: Regulatory role of PI3K signalling pathway in lens differentiation and function.

The goal of this study is to determine cellular differentiation signaling mechanisms using the lens as a model system.

Budget: \$1.02M

Project period: 12/01/2015 – 02/28/2025

Teaching

Spring 2024 – present Course Director for PCB 6667 Integrating genomics into predictive health. 3 credit classroom course developed by me in 2024.

Fall 2018 - present Course Director for PCB 6933 Biomedical Science Core Technologies Laboratory taught in Fall. This course (3 credits) was developed in 2018 with Dr. Wen Shen as Co-Instructor.

March 2009, 2011, 2013 – Invited Lecturer – Graduate course in Molecular and Cellular Biology, School of Biomedical Sciences, FAU.

Teaching at the University of Ulster, Coleraine, Northern Ireland.

1999 - 2000 Lecturer in Biomedical Sciences (Part-Time), School of Biomedical Science, University of Ulster, Coleraine (UUC).

1997 - 1998 Assistant Lecturer in Haematology, School of Biomedical Science, UUC.

1997 - Assistant Lecturer in Immunology, School of Biomedical Science, UUC.

1996 - Assistant Lecturer in Biochemistry, School of Biomedical Science, UUC.

1996 - Assistant Lecturer in Physiology, School of Biomedical Science, UUC.

Service

College Committees

College Non Tenure Track Promotions committee – Chair

Graduate Program Committee – admissions and studentship awards - Chair

Graduate Strategic Planning Committee

College Research Committee

Core facilities manager – Chromium 10x

Imaging core facilities manager

Service to my field

Peer reviewer

Scientific Reports

Investigative Ophthalmology and Visual Science

Genes and Disease

Experimental Eye Research

Current Eye Research

Biochimica et Biophysica Acta

Cell Biology and Toxicology

International Journal of Biological Sciences

Molecular Vision

PloS One

BMC Pharmacology and Toxicology

International Journal of Radiation Biology

Cellular Signaling

Cell communication and signaling

Grant Reviewer

Auckland Medical Research Foundation 2022

The Marsden Fund, New Zealand, 2014

Awards

NFER Cataract researcher of the year - 2022

Professional Memberships

Association of Research in Vision and Ophthalmology (ARVO) – 2007 - Present

International Society of Eye Research (ISER) – 2008 - Present

Thesis Committees/Student Supervision

Oze Elimelech - PhD thesis committee - current

Melissa Campo – PhD thesis committee - current

Jamie Moubarak - MS - Thesis committee - current

Judy Yang – MS Thesis Committee Chair. Graduated Spring 2023

Rachel Zabizhin – MS Thesis committee - Chair Graduated Fall 2022

Adedamola Adele - MS Thesis committee - Graduated Spring 2023

Joshua Disatham – PhD - Thesis committee – Graduated Summer 2022

Patrice Cherubin – MS Thesis committee

Angie Posada – MS Thesis committee

Lauren Daly – 2018 - Medical Student supervisor

Daniel Chauss – PhD – 2015 - Thesis committee

Steven Freeland – 2014-2015 - Medical Student supervisor

Daniel Daros – 2014-2015 - Medical Student supervisor

Sara Anastas – 2013-2014 - Medical Student supervisor

Vicky Gau – 2013-2014 - Medical Student supervisor

Erica Wheeler – 2014 - Medical Student supervisor

Rebecca McGreal – PhD - 2012 - Thesis Committee

Karem Aktan MS – 2014 - Student supervisor and Thesis committee

Olga Bakina - 2014 Fullbright Scholar MSc - Student supervisor

Alex Loumakis - MS - 2014 -Thesis Committee

Lyndzie Matucci - MS – 2013 – Student supervisor and Thesis committee

JD Wilcox - 2011-2012 - Medical Student supervisor

Daniel Chauss – MS - 2012 - Thesis Committee and Thesis committee

Aaron Weiss - 2010 - Medical Student supervisor

Michael Demos - 2008-2009 - Medical Student supervisor

Tracey Cowell PhD - 2008 - Thesis Committee

Wanda Lee PhD - 2009 - Thesis Committee

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

CURRICULUM VITAE
Lawrence Howard Brickman, M.D., F.A.C.S.
August, 2022

Date of Birth: June 17, 1943

Place of Birth: New York, New York

Marital Status: Married, 3 children

Military Service: Major, U.S. Army Reserve
May 1973 - May 1979
Commanding Officer, 309th Medical Detachment
Fort Totten, New York
Honorable Discharge, June 1979

Universities Attended: Michigan State University
East Lansing, Michigan
1961 - 1965
Degree: Bachelor of Science

Fairleigh Dickinson University Graduate School
Teaneck, New Jersey
February 1966 - June 1966
Graduate School - Biophysics

University of Brussels School of Medicine
Brussels, Belgium
1966 - 1972
Degree: Doctor of Medicine

Degrees: Bachelor of Science 1965
Michigan State University
Major: Zoology - Biological Sciences

Doctor of Medicine, June 1972
Free University of Brussels School of Medicine
Brussels, Belgium

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Professional Training:

Externships:

Medicine and Surgery
Long Beach Memorial Hospital
Long Beach, New York
Summers, 1968, 1969

General Surgery
Nassau County Medical Center
East Meadow, New York
Summer, 1970

Internships:

Rotating (Medicine, Pediatrics, OB-GYN, Surgery)
St. Peter's Hospital, Brussels, Belgium
July 1971 - June 1972

Dual Internship/Residency
Straight Surgery
Nassau County Medical Center, East Meadow, New York
July 1972 - June 1973

Residency:

General Surgery (including chest, vascular, pediatric, Trauma)
Nassau County Medical Center, East Meadow, New York
July 1972 (dual) - June 1976

Hospital/Teaching Affiliations:

Clinical Associate Professor of Surgery
New York Medical College
Valhalla, New York

Clinical Instructor in Surgery
State University of New York at Stony Brook
School of Medicine
Stony Brook, New York

Chief, Department of General Surgery
Huntington Hospital
Huntington, New York
2000 - 2005

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General Surgery Attending
St. Vincent's Hospital Center
General Surgery Residency Program 1999-2001

Director and Founder of
General Surgery Physicians Assistance Program
Huntington Hospital, Huntington, N.Y. Oct. 2003-2005

Clinical Associate Professor of Biomedical Science
Charles E. Schmidt College of Medicine
Florida Atlantic University

Clinical Instructor in Trauma
Florida Atlantic University
Trauma Simulation Center for First Responders

Certified in Advanced Trauma Life Support, by the Committee on
Trauma
American College of Surgeons

INSTRUCTOR for Advanced Trauma Life Support for the
Committee on Trauma
American College of Surgeons

FACULTY INSTRUCTOR for Combat Casualty Care Course,
Department of Defense
DMRTI
Fort Sam Houston
San Antonio, Texas

Director, Third Year Clinical Clerkships
Charles E. Schmidt College of Medicine
Florida Atlantic University

Director, Clinical Surgical Clerkship
Charles E. Schmidt College of Medicine
Florida Atlantic University

Director of Clinical Education in Surgery
Charles E. Schmidt College of Medicine

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Florida Atlantic University

Hospital Staff Appointments:

Senior Attending - General Surgery
Huntington Hospital, Huntington, New York
Chairman - Credentials Committee - Huntington Hospital
1998 - 2005

Attending - Department of Surgery
North Shore University Hospital
Manhasset, New York

Attending - Department of Surgery
Nassau University Medical Center
East Meadow, New York

Medical Staff (Faculty Staff)
Boca Raton Regional Hospital
Boca Raton, Florida

Medical Staff
Bethesda Memorial Hospital
Boynton Beach, Florida

Medical Staff (Faculty Staff)
Delray Medical Center
Delray Beach, Florida

Director, Integrated Clinical Clerkship
Charles E. Schmidt College of Medicine
Florida Atlantic University
Boca Raton, Florida

Director, Clinical Surgical Clerkship
Charles E. Schmidt College of Medicine
Boca Raton Regional Hospital
West Boca Medical Center
Delray Medical Center
Bethesda Memorial Hospital
Hollywood Memorial Regional Hospital
Joe DiMaggio Children's Hospital

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Cleveland Clinic Florida, Weston, Florida

Member of **Committee on applicants, American College of Surgeons**
Long Island, New York 1995 to 2005

Florida Atlantic University General Surgery Residency
Residency Admissions Committee

Society Affiliations:

Fellow, American College of Surgeons

Fellow, International College of Surgeons

Fellow, American College of General Surgeons

\

The Medical Society of the State of New York

The Suffolk County Medical Society

American Society of Breast Surgeons

New York Metropolitan Breast Cancer Group

Palm Beach County Medical Society

State Licenses: New York, Florida

Board Certification: American Board of Surgery
November 9, 1977

Re-Certification:
American Board of Surgery
October 23, 1986

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Re-Certifications
American Board of Surgery
1986 and 1996

Papers, Publications and Presentations:

Self-Expanding Knitted Polypropylene Mesh Facilitates Laparoscopic Inguinal
Herniorrhaphy. S. Steinberg, D. Mayer, **L. Brickman**, M. Wallack.

Journal of Laparoendoscopic & Advanced Surgical Techniques, Vol.
9, No. 4, 1999.

Block Allograft Transplantation of Both Lungs with Pulmonary Trunk and Left Atrium
in Dogs. P. Vanderhoeft, A. Dubois, N. Lauvau, P. DeFranquen, P.
Rocmans, R. Nelson, S. Kaufman, **L. Brickman**, A. Gyhra and P. Ectors.

Thorax, July 1972, Vol. 27, No. 4, P. 415.

Anatomical Basis of Transmediastinal Surgery on Both Lungs. P. Vanderhoeft, P.
DeFranquen, A. Dubois, N. Lauvau, P. Rocmans, F. Willems, S.
Kaufman, **L. Brickman**, and R. Nelson.

Acta Chirurgica Belgica, 69, 149; 1970.

Radical Transplant of the Lungs. A Study of Different Experimental Procedures..
P. Vanderhoeft, F. Veith, P. Rocmans, **L. Brickman**, S. Kaufman, R.
Nelson, A. Dubois, N. Lauvau

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Proceedings of the **Societe Europaea Physiologica Clinicae
Respiratoriae**, Berlin, November, 1970.

Diaphragmatic Cyst of Bronchial Origin.

Lawrence H. Brickman, M.D., F.A.C.S.

Anthony DiBenedetto, M.D., F.A.C.S.

Errol Warner, M.D., F.A.C.S.

Diaphragmatic Cyst of Bronchial Origin

New York State Journal of Medicine, August, 1982; Volo. 82, No. 9
p. 1359-1363

Scientific Exhibitor: American College of Surgeons, Clinical Congress,
San Francisco, California 1999 (See No. 1)

A Hybrid Longitudinal Clerkship Model: Blending In-Patient and Out-
Patient experiences

S. Wood, M.D., **Larry Brickman, M.D.**, J. Drowos, DO, MPH, MBA, L.
Hensen, M.D., PhD

RUQ Pain at 34 Weeks of Pregnancy; An Unusual Presentation of Acute
Cecal Volvulus

Finnegan, T., Anderson, K., Jackson, J., Castaneda, M., **Brickman, L.**

**Right Upper Quadrant Pain at 34 weeks pregnancy: Unusual
Presentation of Acute Cecal Volvulus**

Finnegan, T.; Anderson, K.; Jackson, J.; Castaneda, M.; **Brickman, L.**

**Meckel's Diverticulum in an Adult with Intussusception and
Diverticulitis**

Any Goldstein, Bradley Robinson, Miguel Lopez-Viego, MD,
Lawrence Brickman, MD

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Analyzing the trends of Women obtaining Graduate Health Degrees
Carma Goldstein, Anya Goldstein, **Lawrence Brickman, MD**

A Case Report of Perianal Granular-cell Tumor, Case report and Literature Review

Emily Fell Kelly, Jose Yaguez, MD,
Lawrence Brickman, MD

Poster competition at the American Medical Women's Association's Annual Meeting

A Large Adrenocortical Carcinoma Causing Cushing's Syndrome and Virilization

Henry Schmidt, MS3, Florida Atlantic University College of Medicine, **Larry Brickman, M.D., F.A.C.S.**, Forest Dodson, M.D., F.A.C.S.

Pediatric Pheochromocytoma Presenting with Cardiomyopathy

Dalbir Bahga MS3, Marshall Stone, M.D., **Lawrence Brickman, M.D., F.A.C.S.**,

St. Mary's Medical Center Pediatric Surgery & Florida Atlantic University Department of Surgery

Transforming Didactic Lectures into Student-Directed Small group Learning Sessions to Improve Student Satisfaction and Exam Scores

Jennifer Foster, Randi Sperling, Peter Holland, Minda Neimark, **Larry Brickman**, Joanna Drowos, Mandi Sehgal, George Luck, Mario Jacomino, Elizabeth Gunderson, Darin Trelka, Parvathi Perumareddi, Kari Sutter, Adam Wyatt, Sarah Wood

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Updated August 2022

Giant Cell Arteritis Characterized by Sore Throat

Kiera Brigh Turner, Jonathan Wideroff, MD, F.A.C.S., **Lawrence Brickman, MD, F.A.C.S.**

Analyzing the Trends of Women Obtaining Graduate Health Degrees

Carma Goldstein, Anya Goldstein, **Lawrence Brickman, MD, FACS**

Self-Expanding Knitted Polypropylene Mesh Facilitates Laparoscopic Inguinal Hernia Repair

Scott D, Steinberg, David Mayer, MD, Mark Wallack, MD, **Lawrence Brickman, MD**

**Journal of Laparoscopic& Advanced Surgical Techniques; Vol. 9, No. 4
Published 30 January 2009**

Metachronous Parathyroid adenoma Characterized by Recurring Nephrolithiasis

Kiera Brigh Turner, Jonathan Wideroff, MD, FACS, **Lawrence Brickman,MD, FACS**

References:

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Daniel Lichtstein, M.D.
Professor of Clinical Medicine
Dean of Regional Campus of University of Miami Miller School of
Medicine
JFK Medical Center
Atlantis, Florida\

Andrew Ross, M.D.
670 Glades Road
Suite 300
Boca Raton, Florida 33431

Miguel Lopez-Viego, M.D.
2800 South Seacrest Blvd
Suite 200
Boynton Beach, Florida 33435

Reagan L. Ross, M.D.
2800 South Seacrest Blvd
Suite 200
Boynton Beach, Florida 33435

Stanton Forest Dodson, M.D.
670 Glades Road
Boca Raton, Florida 33431

Eddy H. Carrillo, M.D.
1150 North 35th Avenue
Hollywood, Florida 33021

Brett Cohen, M.D.
4651 Sheridan Street
Hollywood, Florida 33021

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

Larry Lottenberg, M.D.
Department of Surgery
Charles E. Schmidt College of Medicine
777 Glades Road
Boca Raton, Florida 33431

Lawrence Brickman, M.D., F.A.C.S.
Updated August 2022

CaputiMASSIMO CAPUTI Ph.D.

Professor
Biomedical Science Department
Charles E. Schmidt College of Medicine
Florida Atlantic University
777 Glades Rd., Boca Raton, FL 33431
email mcaputi@health.fau.edu, maxcaputi@earthlink.net
Office: +1 (561) 297-0627
Cell: +1 (443) 622-8096

PROFESSIONAL EXPERIENCE

For over two decades my research has focused on characterizing the complex mechanisms that lead to the expression the human and viral genomes. I have characterized several key cellular factors required in viral replication. I have pioneered novel technologies to study RNA-RNA binding proteins interactions and worked at the characterization of key cellular RNA-RNA binding protein complexes. For the past 5 years I have engaged in fruitful collaborations with interdisciplinary groups across the nation with the aim to develop novel clinical diagnostic tools for the detection of several viruses (e.g. HIV, HCV, DENV, ZIKV, YFV, SARS-Cov2) in point of care settings and resource scarce environments..

EMPLOYMENT

Florida Atlantic University, Charles E. Schmidt College of Medicine, Boca Raton (FL)

Associate Director Institute for Human Health & Disease Intervention (I-HEALTH) (2022-present)

Associate Professor (2010-present)

Associate Professor (2007-2010)

Assistant Professor (2003-2007)

Florida Atlantic University, Institute for Human Health & Disease Intervention, Boca Raton (FL)

Associate director (2021-present)

George Mason University, Manassas (VA), School of Systems Biology

Affiliate Faculty (2022-present)

University of Miami, Miami School of Medicine, Microbiology Department Miami (FL)

Adjunct Assistant Professor (January 2004-2011)

Florida Atlantic University, Chemistry and Biochemistry Department, Boca Raton (FL)

Adjunct Assistant Professor (April 2005-present)

Johns Hopkins University, Baltimore (MD)

Associate Research Scientist (December 2001-October 2003)

Visiting Scientist (October 2001)

Center for the Molecular Biology of RNA, University of California Santa Cruz, (CA)

Postdoctoral fellow (1996 -2001)

EDUCATION

Ph.D. in Molecular Genetics. International School for Advanced Studies, Trieste (Italy). 1996.
Degree in Biological Science. University of Trieste, Italy (magna cum laude). 1992.

FELLOWSHIPS AND AWARDS

Human Frontier Science Program, long term fellow (1997-1999).
Postdoctoral fellowship from the Lucille P. Markey Charitable Trust (1996).
ISAS predoctoral fellowship (1992-1995).
Award of the Italian Society for Biochemistry and Molecular Biology, best experimental thesis among Italian universities graduates. (1992).
Graduated Magna cum Laude in Molecular Biology (University of Trieste, Italy)
European Economic Union, Erasmus fellowship (1990).

RESEARCH SUPPORT

Grants active

NIH/NIAID R21 AI170177 10/1/22-9/30/25

PI Massimo Caputi

Total cost awarded: \$ 450,000

Title: Functions of circular RNAs generated from backsplicing of the HIV-1 primary transcript

The major goal of this study is the characterization of the functions of circular RNAs generated by the HIV-1 primary transcript.

NIH/NIAID R61/R33AI154643 01/01/2022 - 12/31/2027

Co-PI Massimo Caputi, PI Asghar, Waseem

Total cost to be awarded: \$ 2,700,000

Title: Development of an automated HIV self-testing assay

The major goals of the project is the development of novel HIV diagnostics for self diagnostics, based on microfluidics microchips and loop mediated isothermal amplification.

The Dorothy Mangurian Legacy Fund.
4/1/2027

10/1/2022-

Role: Co-PI

Total Award Amount: \$2,000,000

Title: New Frontiers in the Prevention of Dementia

Miami CFAR Pilot grant program 2/1/2025 – 7/31/2025

Co-PI Massimo Caputi

Total Award Amount: \$10,000

Title: Development of high sensitivity and specificity assays for the detection of HIV-1 in circRNAs

Grants expired

NIH/NIAID: R37(Merit award) AI147907 4/01/2020 – 3/31/2025

Co-PI Massimo Caputi; PI O'Doherty, Una

Total cost to be awarded: \$ 2,722,000

Title: "Determinants of reservoir contraction and expansion in vivo, ex vivo, and in vitro".

The major goals of the project is the study of the HIV reservoir in quiescent T cells.

Campbell foundation 10/21/2021 – 10/20/2022

PI Massimo Caputi

Total cost to be awarded: \$ 80,000

Title: Functions of HIV-1 generated circular RNAs in viral replication and latency

The major goal of the project is the characterization of circular RNAs generated by the HIV-1 primary transcript.

NIH/NIAID: R56 AI138659 05/24/2019 – 04/30/2021

Co-PI Massimo Caputi, Massimo; PI Asghar, Waseem

Total cost to be awarded: \$ 373,750

Title: "Highly Sensitive HIV Viral Load Assay for Point-of-Care Settings".

NSF RAPID 5/1/2020-4/30/2021

CO-PI Massimo Caputi, PI Xingquan Zhu

COVID-19 Coronavirus Testbed and Knowledge Base Construction and Personalized Risk Evaluation

Total cost to be awarded: \$ 100,000

Florida Blue Foundation 06/01/2020-5/31/2021
Co-PI Massimo Caputi, PI: Janet Robishow
Title: Developing Predictive Algorithms for COVID-19 Infection in FAU Health Care Workers
Total cost to be awarded: \$ 50,000

Florida Department of Health 5/01/2017 –4/30/2018
Co-PI Caputi, Massimo; PI Asghar, Waseem
Total cost: \$ 220,000
Rapid Detection of Zika Virus as Point of Care Settings

NIH/NIAID: R15 AI122975 06/202016 –5/31/2019
Co-PI Caputi, Massimo; PI Asghar, Waseem
Total cost to be awarded: \$ 447,000
Development of disposable and refrigeration-free microchip technology for CD4+ T cell counting at point-of-care settings

NIH/NIAID: R15 AI120882 09/01/2015 – 08/31/2018
PI: Massimo Caputi Ph.D.
Total cost awarded: \$ 447,000
Inhibition of HIV-1 replication by delivery of the SRSF1 RNA Recognition Motifs
The major goal of the project is to transduce primary T cells with recombinant SRSF1 protein to inhibit HIV replication.

NIH/NIAID: R15 AI093229. 03/01/2011 – 02/28/2015
PI: Massimo Caputi Ph.D.
Title: hnRNP A1 inhibition of HIV-1 replication
Total cost awarded: \$ 433,000
The Major goal of this grant is to characterize the mechanism by which hnRNPA1 inhibits HIV-1 replication.

NIH/NIAID: R01 AI052820. 12/01/02 – 11/30/09
PI: Massimo Caputi Ph.D.
Title: Regulation of HIV-1 RNA Processing
Total cost awarded: \$1,412,000
The Major goal of this grant is to identify and characterize cellular factors that regulate HIV-1 RNA processing.

NIH/NIAID: R01 AI052820-02S1 09/01/04 - 11/30/07
PI: Massimo Caputi Ph.D.
Competitive Research grant supplements for minorities for Ron Faugue
Title: Regulation of HIV-1 replication by the hnRNP H protein family
Total award: \$ 147,087

NIH/NIAID: R01 AI052820-02S1 09/01/04 - 11/30/07
PI: Massimo Caputi Ph.D.
Competitive Research grant supplements for minorities for Sean Devanney
Title: Effect of the regulatory sequences characterized in exon 6D and *tat* exon 2 on HIV-1 RNA processing *in vivo*.
Total award: \$ 134,675

National Science Foundation 8/1/05 – 7/31/08
Multiple PI grant
PI for the project title: Human Genome, 5 projects constitute the grant proposal
Title: "MRI: Acquisition of a NUMA-based Supercluster for High Performance Computing.
Total award: 450,000

University of California University wide AIDS Research Program (R99-SC-085) 6/1/99-6/1/01
Co-PI: Massimo Caputi
Title: Cellular factor downregulating HIV-1 splicing
Total award: \$ 120,000

Human Frontier long term Fellow Award (4/5/97-4/5/99)
Title: Regulation of alternative splicing in human immunodeficiency virus type 1
Total award: \$ 70,000

Other support:

Dare Foundation. Grant to support research in novel HIV therapeutics. 06/18/2015
Total donation: \$ 18,000

Campbell Foundation. South Florida grant to support research in HIV replication. 08/27/2015
Total Donation: \$ 30,000

PUBLICATIONS

bibliography with links: <https://www.ncbi.nlm.nih.gov/myncbi/massimo.caputi.1/bibliography/public/>

Sean Paz, Janet D. Robishaw and **Massimo Caputi**. An RNA biomarker panel for the diagnosis of Alzheimer's disease from whole blood. (2025) **medRxiv**; doi: <https://doi.org/10.1101/2025.08.04.25332553>

Chris Mauer, Sean Paz and **Massimo Caputi**. Backsplicing of the HIV-1 transcript generates multiple circRNAs to promote viral replication. (2025) **npj Viruses** 3, 21.

Sandhya Sharma, **Massimo Caputi** and Waseem Asghar. Development of a Diagnostic Microfluidic Chip for SARS-CoV-2 Detection in Saliva and Nasopharyngeal Samples. (2024). **Viruses**, 16, 1190.

Amy Makler-Disatham, **Massimo Caputi** and Waseem Asghar W. Development of a LAMP-Based Diagnostic for the Detection of Multiple HIV-1 Strains. (2024) **Biosensors** (Basel). Mar 27;14(4).

Sandhya Sharma, Emmanuel Thomas, **Massimo Caputi** and Waseem Asghar. RT-LAMP based molecular diagnostic set-up for rapid Hepatitis C virus testing. (2022). **Biosensors**. 5;12(5):298.

Farhang Alem, Adeyemi A. Olanrewaju, Samson Omole, Heather E. Hobbs, Noor Ahsan, Graham Matulis, Christine A. Brantner, Weidong Zhou, Emanuel F. Petricoin, Lance A. Liotta, **Massimo Caputi**, Sina Bavari, Yuntao Wu, Fatah Kashanchi and Ramin M. Hakami. Exosomes originating from infection with the cytoplasmic single-stranded RNA virus Rift Valley fever virus (RVFV) protect recipient cells by inducing RIG-I mediated IFN-B response that leads to activation of autophagy. (2021). **Cell & Bioscience**. 11:220.

Mazhar Sher, Benjamin Coleman, **Massimo Caputi** and Waseem Asghar. Development of a point-of-care assay for HIV-1 viral load using higher refractive index antibody-coated microbeads. (2021) **Sensors**. 21:1819.

Sean Paz, Anastasia Ritchie, Christopher Mauer, **Massimo Caputi**. The RNA binding protein SRSF1 is a master switch of gene expression and regulation in the immune system. (2021). **Cytokine Growth Factor Rev**. 57:19-26

Sean Paz, Christopher Mauer, Anastasia Ritchie, Janet D. Robishaw, **Massimo Caputi**. (2020). A simplified SARS-CoV-2 detection protocol for research laboratories. **PLoS One**.15(12).

Md Alamgir Kabir, Ruben Soto-Acosta, Sandhya Sharma, Shelton Bradrick, Mariano A. Garcia-Blanco **Massimo Caputi**[‡] and Waseem Asghar[‡]. (2020). An antibody panel for highly specific detection and differentiation of Zika virus. **Scientific Reports**. 10, 11906

[‡] Corresponding author

Md Alamgir Kabira, Hussein Zilouchian, **Massimo Caputi** and Waseem Asghar. Advances in HIV diagnosis and monitoring. (2020) **Critical Rev. Biotechnology**. 40(5):623-638.

Yi-Fan Xu, Xiaohui Xu, Amy Gin, Jean D. Nshimiyimana, Blaine H.M. Mooers, **Massimo Caputi**, Bethany N. Hannafon, Wei-Qun Ding. (2020). SRSF1 Regulates Exosome microRNA Enrichment in Human Cancer Cells. **Cell Commun. Signal**. 18(1):130

Catherine DeMarino, Michelle L. Pleet, Maria Cowen, Robert A. Barclay, Yao Akpamagbo, James Erickson, Nicaise Ndembe, Manhattan Charurat, Jibreel Jumare, Sunday Bwala, Peter Alabi, Max Hogan, Archana Gupta, Nicole Noren Hooten, Michele K. Evans, Benjamin Lepene, Weidong Zhou, **Massimo Caputi**, Fabio Romerio, Walter Royal 3rd, Nazira El-Hage, Lance A. Liotta & Fatah Kashanchi. (2018) Antiretroviral Drugs Alter the Content of Extracellular Vesicles from HIV-1-Infected Cells. **Scientific Reports**. 8, 7653.

Evan Clark, Brenda Nava and **Massimo Caputi**. (2017) Tat is a multifunctional viral protein that modulates cellular gene expression and functions. **Oncotarget**. 8(16):27569-27581.

Sean Paz and **Massimo Caputi**. (2015) SRSF1 inhibition of HIV-1 gene expression. **Oncotarget**.

6(23):19362-63.

Sean Paz, Michael L. Lu, Hiroshi Takata, Lydie Trautmann and **Massimo Caputi**. (2015) The SRSF1 RNA Recognition Motifs of are strong inhibitors of HIV-1 replication. **J. Virology**. 89(12):6275-86.

Sean Paz, Adrian R. Krainer and **Massimo Caputi**. (2014) HIV-1 transcription is regulated by splicing factor SRSF1. **Nucleic Acids Res.** 42:13812-13823

Jacques Jean-Philippe, Sean Paz, Michael L. Lu and **Massimo Caputi**. (2014) A truncated hnRNP A1 isoform, lacking the RGG-box RNA binding domain, can efficiently regulate HIV-1 splicing and replication. **BBA-Gene Regul. Mech.** 1839(4):251-8

Jacques Jean-Philippe, Sean Paz and **Massimo Caputi** (2013) hnRNP A1: the Swiss Army Knife of Gene Expression. **Int. J. Mol. Sci.** 14, 18999-19024

Damiano Panelli; Francesca P Lorusso; Francesco Papa ; Patrizio Panelli; Alessandro Stella; **Massimo Caputi**; Anna M Sardanelli; Sergio Papa. (2012) The mechanism of alternative splicing of the X-linked NDUFB11 gene of the respiratory chain complex I, impact of rotenone treatment in neuroblastoma cells. **BBA-Gene Regul. Mech.** 1829(2), 211-218

Narayanan A, Sampey G, Van Duyne R, Guendel I, Kehn-Hall K, Roman J, Currer R, Galons H, Oumata N, Joseph B, Meijer L, **Caputi M**, Nekhai S, Kashanchi F. (2012) Use of ATP analogs to inhibit HIV-1 transcription. **Virology** 432(1), 219-31

Massimo Caputi (2011) The regulation of HIV-1 mRNA biogenesis. **RNA Processing**. InTech. 79-100.

Joseph A. Jablonski, Antonio A. Amelio, Mauro Giacca and **Massimo Caputi** (2010) The transcriptional transactivator Tat regulates viral splicing. **Nucleic Acids Res.** 38(4), 1249-60

Martina Huranová, Joseph A. Jablonski, Aleš Benda, Martin Hof, David Staněk and **Massimo Caputi** (2009) In vivo detection of RNA-binding protein interactions with cognate RNA sequences by fluorescence resonance energy transfer. **RNA**. 15, 2063-71.

Antonio A. Amelio, **Massimo Caputi**, and Michael D. Conkright (2009) Bipartite Functions of the CREB Coactivators Selectively Direct Alternative Splicing or Transcriptional Activation. **EMBO J.** 28, 2733-47.

Joseph A. Jablonski and **Massimo Caputi**. (2009). Role of cellular RNA processing factors in human immunodeficiency virus type 1 mRNA metabolism, replication, and infectivity. **J. Virology** 83, 981-992.

Joseph A. Jablonski, Emanuele Buratti, Cristiana Stuaní and **Massimo Caputi**. (2008) The secondary structure of the HIV-1 transcript modulates viral splicing and infectivity. **J. Virology**. 82, 8038-50.

Michael Schaub, Suzette L. Lopez and **Massimo Caputi**. (2007) Members of the heterogeneous nuclear ribonucleoprotein (hnRNP) H family activate splicing of an HIV-1 splicing substrate by promoting formation of ATP-dependent spliceosomal complexes. **J. Biol. Chem.** 282, 13617-26.

Jeremy E. Wilusz, Sean C. Devanney and **Massimo Caputi**. (2005) Chimeric peptide nucleic acid compounds modulate splicing of the *bcl-x* gene *in vitro* and *in vivo*. **Nucleic Acids res.** 33(20): 6547-54.

Caputi,M., Freund,M. Kammler,S, and Schaal,H. (2004). A bidirectional SR protein dependent exonic splicing enhancer regulates splice site-dependent Rev-mediated HIV-1 env gene expression. **J. Virology**. 78, 6517-6526.

Zahler,A.M, Damgaard,C.K., Kjems,J. and **Caputi,M.** (2004). SC35 and hnRNPs A/B binding to a juxtaposed ESE/ESS element regulates HIV-1 tat exon 2 splicing. **J. Biol. Chem.**, 279, 10077-10084.

Giles,K.E., **Caputi,M.** and Beemon,K.L. (2004). Packaging and reverse transcription of snRNAs by retroviruses may generate pseudogenes. **RNA**. 10, 299-307.

Caputi,M.†, Kendzior,R.J. and Beemon,L.K. (2002). A nonsense mutation in the fibrillin-1 gene of a Marfan syndrome patient induces NMD and disrupts an exonic splicing enhancer. **Genes & Dev.** 16, 1754-1759.

† Corresponding author

Caputi,M. and Zahler,A.M (2002) SR proteins and hnRNP H family members regulate the splicing of the HIV-1 *tev*-specific exon 6D. **EMBO J.**, 21, 845-855.

Caputi,M. and Zahler,A.M. (2001) Determination of the RNA Binding Specificity of the Heterogeneous Nuclear Ribonucleoprotein (hnRNP) H/H'/F/2H9 Family. **J. Biol. Chem.**, 276, 43850-43859.

Caputi,M., Mayeda,A., Krayner,A.R. and Zahler,A.M. (1999) hnRNP A/B proteins are required for inhibition of HIV-1 pre-mRNA splicing. **EMBO J.**, 18, 4060-67.

*Muro,F.A., ***Caputi,M.**, *Pariyarath,R., Pagani,F., Buratti,E. and Baralle,F.E. (1999) Fibronectin EDA exon recognition requires a hairpin-loop structure that exposes the polypurinic enhancer. **Mol. Cell. Biol.** 19, 2657-71.

*M.F.A, M.C. and P.R. contributed equally to the manuscript and should be considered joint first authors.

Caputi,M., Baralle,F.E. and Melo,C.A. (1995) Analysis of the linkage between FN alternative spliced sites during aging in rat tissues. **Biochim. Biophys. Act.**, 1263, 53-59.

Caputi,M., Melo,C.A., and Baralle,F.E. (1995) Regulation of Fibronectin expression in rat regenerating liver. **Nucleic Acid. Res.**, 23, 238-243.

Caputi,M., Casari,G., Guenzi,S., Tagliabue,R., Sidoli,A., Melo,C.A. and Baralle,F.E. (1994) A novel bipartite splicing enhancer modulates the differential processing of the human FN EDA exon. **Nucleic Acid. Res.**, 22, 1018-1022.

(In preparation and submitted)

Sean Paz, Elena Bisotto, Anastasia Ritchie and **Massimo Caputi**. The RNA binding protein SRSF1 is a potent activator of cellular transcription. (Submitted).

Sean Paz, Elena Bisotto, and **Massimo Caputi**. SRSF1 domains have distinct functions in transcription and splicing. (Submitted).

Sean Paz, Anastasia Ritchie and **Massimo Caputi**. The RNA binding protein SRSF1 modulates immune and cancer pathways by regulating MYD88 transcription. (Submitted).

INVITED TALKS

George Mason University (Fairfax, VA), 2025. "RNA circles regulate viral replication".

Johns Hopkins University (Baltimore, MD), 2022. Retroviruses Symposium.

Florida Medical Schools. COVID-19 Research Virtual Symposium. (2020). "COVID-19 Coronavirus Testbed and Knowledge Base Construction and Portable Assay for the Rapid Detection of Novel Coronavirus at Point-of-Care Settings from Saliva Samples".

Johns Hopkins University (Baltimore, MD), 2018 "Of Puppies and Cookie Monsters: How Can A Small Splicing Factor Do So Much?"

Florida International University (Miami, FL), 2017 "The splicing/transcription factor SRSF1 is a strong modulator of HIV replication"

Scripps Research Institute (Jupiter, FL) 2012 "Control of HIV-1 RNA Processing"

VGTI (Pt St Lucie, FL) 2011 "Control of HIV-1 gene expression"

FAU-VGTI Symposium (Boca Raton, FL) 2011 "Coupling of transcriptional and RNA processing events in HIV-1"

Scripps Research Institute (Jupiter, FL) 2010. Co-regulation of RNA processing in HIV-1.

FAU Chemistry department February 2010. Cross Talk Between Splicing and Transcription mechanisms in HIV-1

University of Ave Maria (Naples, FL) 2009. Regulation of HIV-1 mRNA processing.

Meeting "Post-transcriptional regulation of viral gene expression" (Syria, VA) 2008. Coordinated control of splicing and mRNA processing in HIV-1.

EMBO meeting: mis-splicing and disease (Cortina, Italy). 2007. Control of HIV-1 mRNA processing.

University of Heidelberg, (Germany). 2006 mRNA processing control in HIV-1.

Scripps Research Institute (Jupiter, FL). 2006. Post-transcriptional gene regulation in HIV-1.

Microbiology and Immunology department. University of Miami Medical Schools. (Miami, FL) 2005. Regulation of expression of the bcl-x gene: a case study for novel cancer therapeutics and mRNA biogenesis.

Symposium ICGEB Alumni, (Trieste Italy) 2004. HIV-1 Splicing Regulation: a key mechanism in retroviral replication.

International Center for Genetic Engineering and Biotechnology (Trieste, Italy) 2003. Spliced, Unspliced or Alternatively Spliced: Obtaining a Million New Flavors from the Same Old Genome.

Microbiology Department, Case Western University, (Cleveland, OH) 2003. Regulation of HIV-1 replication.

University of Bari (Bari, Italy) 2003. Spliced, Unspliced or Alternatively Spliced: Obtaining a Million New Flavors from the Same Old Genome.

University of Missouri (Columbia, Missouri) 2003. Spliced, Unspliced or Alternatively Spliced: Obtaining a Million New Flavors from the Same Old Genome.

Finch University (Chicago, IL) 2003. Spliced, Unspliced or Alternatively Spliced: Obtaining a million new flavors from the same old genome.

Florida Atlantic University (Boca Raton, FL) 2003. Spliced, Unspliced or Alternatively Spliced: Obtaining a million new flavors from the same old genome.

NIH (Bethesda, Maryland). 2003. A nonsense mutation in the fibrillin-1 gene of a Marfan syndrome patient induces NMD and disrupts an exonic splicing enhancer.

The Johns Hopkins University (Baltimore, MD) 2001. Alternative splicing regulation of HIV-1.

Somagenics Inc. (Santa Cruz, CA) 2001. Alternative splicing regulation of HIV-1.

University of Virginia (Charlottesville Virginia) 2000. Mechanisms of Splicing Regulation in HIV-1.

University of California San Francisco (Santa Cruz, CA) 1998. A novel regulatory mechanism of HIV-1 splicing.

CNRS (Montpellier, France). 1996 Alternative Splicing In Fibronectin: Regulation And Basic Mechanism.

University of California, Santa Cruz (Santa Cruz, CA). 1995. A novel bipartite splicing enhancer modulates the differential processing of the human fibronectin EDA exon.

PLATFORM PRESENTATIONS AT INTERNATIONAL MEETING

RNA processing meeting (Cold Spring Harbor Laboratory NY) 2011. “The cross talk between splicing and transcriptional mechanisms in HIV-1”

Retroviruses Meeting (Cold Spring Harbor, NY) 2006. Dhir, N., Ron M. Faugue, R.M. and Caputi, M. Members of the hnRNP H protein family interact with the HIV-1 rev responsive element and are required for *env* gene expression.

Retroviruses Meeting (Cold Spring Harbor, NY) 2002. (Caputi M.) HnRNP H protein family members regulate HIV-1 RNA processing.

RNA processing Meeting (Cold Spring Harbor, NY) 2001 (Caputi M. and Zahler A.M.) A naturally arising HIV-1 point mutation activates a complex exonic splicing enhancer that interacts with SR proteins and hnRNP H family members to promote viral splicing.

RNA Society Meeting (Banff, Canada) 2001. (Caputi M. and Zahler A.M.) Analysis of a naturally arising HIV-1 mutation that alters splicing.

UAARP Meeting (San Francisco, CA) 2000. (Caputi M. and Zahler A.M.) hnRNP A/B proteins are required for inhibition of HIV-1 pre-mRNA splicing.

Retroviruses Meeting (Cold Spring Harbor, NY) 2000. (Caputi M. and Zahler A.M.) Mechanism of splicing inhibition of HIV-1.

RNA Society Meeting (Madison, WI) 2000. (Caputi M. and Zahler A.M.) Mechanism of splicing inhibition of HIV-1.

RNA processing Meeting (Cold Spring Harbor, NY) 1999. (Caputi M. and Zahler A.M.) Mechanism of splicing inhibition in HIV-1.

RNA Society Meeting (Edinburgh, UK) 1999. (Caputi M. and Zahler A.M.) Mechanism of splicing inhibition in HIV-1.

POSTER PRESENTATIONS AT INTERNATIONAL MEETING

RNA Processing Meeting (Cold Spring Harbor, NY) 2025. Christopher Mauer, Sean Paz and Massimo Caputi. HIV-1 generates circRNAs to promote viral replication.

RNA Processing Meeting (Cold Spring Harbor, NY) 2025. Elena Bisotto, Sean Paz, and Massimo Caputi, Characterization of SRSF1's Functions.

RNA Processing Meeting (Cold Spring Harbor, NY) 2023. Christopher Mauer and Massimo Caputi. Circular RNAs generated from the HIV-1 transcript functionally interact with cellular miRNAs.

RNA Processing Meeting (Cold Spring Harbor, NY) 2023. Elena Bisotto, Sean Paz, and Massimo Caputi, Characterization of SRSF1's protein domains functions in transcription and splicing.

Post-transcriptional Regulation” Gordon Conference (Maine) 2022. Sean Paz, Anastasia Ritchie and Massimo Caputi. The transcriptional activity of the RNA binding protein SRSF1.

RNA Processing Meeting (Cold Spring Harbor, NY) 2021. Christopher Mauer and Massimo Caputi. Circular RNAs (circRNAs) Are Formed from the HIV-1 Transcript Through Backsplicing.

Mechanisms of Eukaryotic Transcription (Cold Spring Harbor, NY) 2021. Sean Paz, Anastasia Ritchie, and Massimo Caputi. The transcriptional activity of the RNA binding protein SRSF1.

Mechanisms of Eukaryotic Transcription (Cold Spring Harbor, NY) 2019. Sean Paz, Anastasia Ritchie and Massimo Caputi. The RNA binding protein SRSF1 modulates immune and cancer pathways by regulating MYD88 transcription.

Post-transcriptional Regulation” Gordon Conference (Maine) 2018. Sean Paz, Evan Clark and Massimo Caputi. “SRSF1 modulates immune pathways”

World Congress on Biosensors (Miami, FL) 2018. M. Kabir, M. Caputi, W. Asghar. “Zika Virus Sero-cross-reactivity With Other Flaviviruses Using Envelope Protein Antibodies”.

RNA Processing Meeting (Cold Spring Harbor, NY) 2017. Sean Paz, Evan Clark and Massimo Caputi. The HIV-1 protein Tat and SRSF1 regulate the transcription of a subset of cellular genes.

RNA Processing Meeting (Cold Spring Harbor, NY) 2013. Jacques Jean-Philippe, Sean Paz and Massimo Caputi. SF2/ASF down-regulates the activity of the viral transcriptional activator Tat.

Post-transcriptional Regulation” Gordon Conference (Newport RI) 2012. Jacques Jean-Philippe, Sean Paz and Massimo Caputi. hnRNPA1 sub domains regulate HIV-1 transcription and splicing.

RNA Processing Meeting (Cold Spring Harbor, NY) 2011. Joe Jablonski and Massimo Caputi. The cross talk between splicing and transcriptional mechanisms in HIV-1.

RNA Processing Meeting (Cold Spring Harbor, NY) 2007. Sean Devanney and Massimo Caputi. Promoter effects on splicing regulation and mRNA export of the bcl-x gene.

RNA Processing Meeting (Seattle, WA) 2006. Lopez,S., Fague,R.M., Dhr,N., Schaal,H. and Caputi,M. Members of the hnRNP H Protein Family Interact with the HIV-1 Rev Responsive Element and are Required for *env* Gene Expression.

RNA Processing Meeting (Seattle, WA) 2006. Michael,M., Lopez,S. and Caputi,M. Characterization and Splicing Regulatory Functions of the Optimal Binding Site for 5 Members of the hnRNP H Protein Family.

RNA Processing Meeting (Seattle, WA) 2006. Fague,R.M., Ward,A.M., Devanney,S.C. and Caputi,M. A Conserved Sequence Within the HIV-1 *env* gene interacts with Members of the hnRNP H Family and is Essential for HIV-1 mRNA Processing and Replication.

RNA Processing Meeting (Seattle, WA) 2006. Devanney,S.C., Wilusz,J. and Caputi,M. *In-vivo* regulation of expression of the *bcl-x* gene.

RNA Processing Meeting (Seattle, WA) 2006. Sawlani,N., Jablonski,J.A. and Caputi,M. The MotifFinder and the RNA Processing Protein Database, Two New Tools to Predict Short Sequences Involved in mRNA Processing.

Retroviruses Meeting (Cold Spring Harbor, NY) 2006. Fague,R.M., Ward,A.M., Devanney,S.C. and Caputi,M. A conserved sequence within the HIV-1 *env* gene interacts with a set of cellular proteins and is essential for HIV-1 mRNA processing and replication

Gordon Conference (New Hampshire) 2004. (Caputi M.) Molecular characterization of the juxtaposed ESE/ESS element regulating HIV-1 tat expression.

RNA society Meeting (Madison WI) 2004. (Caputi M. Kjems J. and Zahler A.M.) SC35 and hnRNP A/B proteins bind to a juxtaposed ESE/ESS element to regulate HIV-1 tat exon 2 splicing.

RNA Processing Meeting (Cold Spring Harbor, NY) 2003. (Schaal H., Asang C. and Caputi M.) A bidirectional SR protein-dependent exonic splicing enhancer regulates HIV-1 rev, env, vpu and nef gene expression.

RNA Society Meeting (Vienna, Austria) 2003. (Schaal H., Asang C. and Caputi M.) A bidirectional SR protein-dependent exonic splicing enhancer regulates Rev-mediated HIV-1 env gene expression.

RNA-protein interaction Meeting (Austin Texas) 2002. (Caputi M. and Zahler A.M.) Binding specificity of hnRNP H and its relatives hnRNP F and 2H9 .

RNA Society Meeting (Madison, WI) 2002. (Caputi M. and Beemon K.) A point mutation in the FBN1 gene causes NMD and disrupts an SC35 dependent splicing enhancer in a Marfan syndrome patient.

RNA Society Meeting (Cold Spring Harbor, NY) 1995. (Caputi M. and Baralle F.E.) Regulation of Fibronectin exon EDA splicing.

RNA Meeting (Spetses, Greece) 1994. (Caputi M. and Baralle F.E.) Regulation of human Fibronectin alternative splicing.

PATENTS

Patent filed:

PCT Application Filed

Title: COMPOSITIONS FOR INHIBITING VIRAL REPLICATION AND METHODS OF USE AND PRODUCTION THEREOF

Filed: April 22, 2016

Application No.: PCT/US16/28910

Inventor: Massimo Caputi

TEACHING EXPERIENCE

Florida Atlantic University Charles E. Schmidt College of Medicine 2011 - present

2022 Facilitator of 8 problem based learning clinical and basic science cases.
2021 Facilitator of 8 problem based learning clinical and basic science cases.
2020 Facilitator of 8 problem based learning clinical and basic science cases.
2019 Facilitator of 8 problem based learning clinical and basic science cases.
2019 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2018 Facilitator of 12 problem based learning clinical and basic science cases.
2018 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2017 Facilitator of 12 problem based learning clinical and basic science cases.
2017 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2016 Facilitator of 6 problem based learning Neuroscience and Behavior cases.
2015 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2014 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2014 Facilitator of 6 problem based learning clinical and basic science cases.
2013 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2013 Facilitator of 6 problem based learning clinical and basic science cases.
2012 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2012 Facilitator of 6 problem based learning clinical and basic science cases.
2011 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2011 Facilitator of 6 problem based learning clinical and basic science cases.

University of Miami School of Medicine at Florida Atlantic University (UMSM@FAU) 2004-2010

2010 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2010 Facilitator of 6 problem based learning clinical and basic science cases.
2009 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2009 Facilitator of 6 problem based learning clinical and basic science cases.
2008 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2008 Facilitator of 6 problem based learning clinical and basic science cases.
2007 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2007 Facilitator of 4 problem based learning clinical and basic science cases.
2006 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2005 Host Defenses and Pathogens Course. Course instructor for the Virology section.
2004 Host Defenses and Pathogens Course. Course instructor for the Virology section.

Florida Atlantic University, Biomedical Sciences Department 2004-present.

Spring 2021: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2021: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2020: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2019: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2016: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2013: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2014: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2011: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2009: BSC 6396 Molecular basis of disease and therapy (3 credits)
Spring 2008: BSC 6391-002 Integrative Biology 2 (3 credits)
Spring 2007: BSC 6391-002 Integrative Biology 2 (3 credits)
Spring 2007: BSC 6936-005, -008, -009 Integrative Biology 2 (3 credits)
Spring 2006: organized and developed the two joint courses:

BSC 6936-005, -008, -009 Integrative Biology 2 (3 credits)

PCB 6933-004 Topics in Biomedical Science II (3 credits)

Fall 2005 Biomedical Sciences Topics I – Lecture on Novel cancer therapeutics

Fall 2004 Biomedical Sciences Topics I – Lecture on Modified oligonucleotides

Fall 2004 Current issues in Biomedicine – Lecture on HIV-1 replication

The Johns Hopkins University, Biology Department 2002-2003.

Course Principles of Virology, 3 lectures on the molecular biology of DNA and RNA viruses.

Core Graduate Course, 2 lectures on regulation of gene expression and the human genome.

STUDENTS MENTORED

PhD Thesis

Jinhua Wu (2005-2010) (Committee member)
Sophia Banton (2008-2009) (Committee member)
Chad Coarsey (2016-2018) (Committee member)
Mazhar Sher (2017-2021) (Committee member)
Md Alamgir Kabir (2017-2022) (Committee member)
Sulochan Malla (2014- 2019) (Committee member)
Marina Rebecca Alexander (University of Melbourne, external committee member) (2012-2013)
Chaterine DeMarino (2017-2019) (George Mason University external Committee member)
Mazhar Sher (2017-2020) (Thesis Co-advisor)
Sean Paz (2017-2022) (Thesis Advisor)
Alamgir Kabir (2017-present) (Thesis Co-advisor)
Sandhya Sharma (2018-2022) (Committee member)
Amy Makler (2018-2024) (Thesis Co-Advisor)
Samson Omole (2020-2024) (George Mason University external Committee member)
Maggie Elkin (2020-2025) (Committee member)
Sian Lum (2023-2025) (George Mason University external Committee member)
Sheikh Muhammad Asher Iqbal (2023-present) (Committee member)
Omair Faqah (2023-present) (Committee member)
Elena Bisotto (2021-Present) (Thesis Advisor)

Master Students:

Naresh Sawlany (2003-2004)
Michael Schaub (2004- 2006)
Gayatry Kollipara (2005-2007)
Maureen lalonde (204-2006)
Sean Devanney (2004-2007)
Ron Faugue (2004-2007)
Michelle Cavallo (2006-2007)
Neetika Dhr (2004-2007)
Shevanie Saith (2007-2008)
Nick Gilloni (2008 – 2009)
Edwin Meagher (2010-2011)
Jacques Kepler Jean-Philippe (2010-2013)
Sean Rath (2012-2014)
Michael Cartwright (2014-2016)
Evan Clark (2015-1017)
Sean Paz (2016-17)
Brenda Nava (2017-2019)
Suzanne Mousaffar (2017-2020)
Anastasia Ritchie (2018-2020)
Christopher Mauer (2019-2023)
Jennifer Mendonca (2021-2023)
Justin Evanguelidi (2022-present)

Undergraduate Students

Dimitar Pyuskylev (2004-2005)
Joe Jablonski (2005-2006)
Valerie Devanney (2005-2008)

Samantha Hardwicke (2011-2012)
Ana Santiago (2012-2013)
Andrew Bent (2014 – 2015)
Brenda Nava (2014 – 16)
Evan Clark (2015 – 16)
Jordan Vancel (2016-17)
Maha Naim (2016-17)
Cristopher Mauer (2017-2019)
Chelsea Brown (2018-2020)
Rebeca Soto Caballero (2020-Present) NSF-Learn Research Mentor
Elijah Ortiz (2020-present)
Joaquin Palacios (2024-present)
Giulia Nuernberger (2024-present)
Enzo Barrella (2025-present)

EDITORIAL RESPONSIBILITIES AND SERVICE

Editorial Board :

Journal of Virology (2013 – present)
PLOS ONE (2013 - present)
Journal Biological Science (2004 - 2007)
Ad-hoc reviewer for the following international journal:
New England Journal of Medicine
PLOS Biology
PLOS Pathogens
Nucleic Acids Research
Journal Biological Chemistry
RNA
Journal of Virology
Journal of General Virology
Virus Research
Virology
AIDS Research and Retroviruses
International Journal of Cancer Research
Experimental Cell Research
Biochemical Biophysical Acta
Future Oncology
mBio
PLOS One
Pharmacology
Retrovirology
Biochemical Society Transactions

Grants reviewer for the following institutions

NIH/NIAID ZRG1 IIDB-X (02) (2024)
UK Research and Innovation (2023)
DFG Germany (2021)
NIH/NIAID study section ZRG1 AARR-P (2019)
ZDA1 SXM-M (2017)
NIH/NIAID ZRG1 AARR-P (2017)

NIH/NIGMS R01 NCSD (2016)
NIH/NHGRI P01 (2015)
NIH/NIAID R01- ZRG1 AARR-M (2015)
NIH/NIGMS R01-ZGM1 (2014)
NIH/NIAID R15-ZRG1 (2013)
NIH/NIAID R01-US-China Biomedical Collaborative research (2012)
Danish Council for Independent Research – DFF Mobilex grant (2015)
Agency for Science, Technology and Research's (A*STAR) Biomedical Research Council (BMRC), Singapore. (2010)
AIDS FONDS. Grant Applications (The Netherlands) (2011-2013)
ACS IRG (Florida) (2008-2010)

Memberships

American Society for Biochemistry and Molecular Biology. (2004-1011)
AAAS (2005-2013)
RNA Society (2005-2010)

University service committee at FAU

University graduate program committee (2020-2022)
University Promotion and Tenure committee (2018-2020)
University Research Committee (2013-2016)
Integrative Biology PhD program admissions committee (2003 – 2018)
Integrative Biology PhD program curriculum committee (2006 – 2008)
University Faculty/Researcher HPC governance committee (2012- 2015)
University TRAC Committee (2011 – present)
University Graduate Council (2007 – 2012)
Due process committee (2007 – 2012)
College faculty computing committee (2004 – 2010)
Biotech Signature Theme Work Group (2012 – 2013)

College of Medicine and Department of Biomedical Sciences at FAU Service Committee

Sustained Performance Evaluation committee (2020-present)
FAU promotion and tenure committee (2018-20)
College of Medicine promotion and tenure committee (2012- 2020) (Chair 2018-2020)
College of Medicine Graduate education Committee (2012 – present)
College of Medicine Research committee (2004 – present), Chair (2013 - 2016)
College of Medicine admission committee (2011 – 2012)
Biomedical Science Department Chair search committee (2012-2013)
Medical Education Curriculum committee 2006-2011
LCME facilities study committee (2012-2013)
Basic Science Department Faculty search 2006 – 2011
Senior faculty, Schmidt Fellow search committee 2005
Committee for the promotion and tenure guidelines 2005
Merit Raise Committee 2005-2010
Annual Evaluation Committee guidelines 2004 – 2005

Andrea Cippitelli, Ph.D.

Position Assistant Professor

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Email acippitelli@health.fau.edu; cippitelli.andrea2@gmail.com

Education

May 2006: PhD in Pharmaceutical Sciences, University of Camerino, Italy

Jul 2001: BS in Pharmaceutical Chemistry and Technology, University of Camerino, Italy

Employment History

From April 15th 2024 Tenure track appointment with fast track to tenure as Assistant Professor at the Department of Biomedical Science at the Charles E. Schmidt College of Medicine, Boca Raton, FL.

Jan 2023-Apr 2024 Research Associate Professor, Biomedical Science Department, Charles E. Schmidt College of Medicine, Stiles-Nicholson Brain Institute, Florida Atlantic University, Jupiter, FL.

June 2022-Dec 2022 Research Associate Professor, Biomedical Science Department, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL.

April 2018-May 2022 Research Assistant Professor, Biomedical Science Department, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL.

Sep 2015-April 2018 Senior Scientist, Department of Neuropharmacology, Torrey Pines Institute for Molecular Studies, Port St. Lucie, FL.

Aug 2012-Aug 2015 Post-doctoral Fellow, Department of Neuropharmacology, Torrey Pines Institute for Molecular Studies, Port St. Lucie, FL.

Apr 2010-Jul 2012 Researcher, School of Pharmacy, University of Camerino, Camerino, Italy.

Aug 2006-Mar 2010 Post-doctoral Fellow, National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health, Bethesda, MD.

Sep 2004-Aug 2006 PhD student, Dept. of Experimental Medicine and Public Health, University of Camerino, Italy.

Jan 2002- Aug 2004 Lab Technician/Visiting Fellow, Department of Psychobiology, Complutense University of Madrid, Spain.

Professional membership

From 2023	PASA Scientific Collaborator (https://pasa-research.org/scientific-collaborators)
From 2021	Scientific Advisor of "Galea Therapeutics"
2016-2023	International Narcotic research Conference (INRC) member
2018-present	FAU Brain Institute Member (https://www.fau.edu/brain/brain-synapses-members/)
2013-2015	Society for Neuroscience Member

Honors and Awards

2025	FAU Researcher of the year award (Assistant Professor level)
2024	Promotion to tenure track (fast track to tenure) Assistant Professor at the Department of Biomedical Science at the Charles E. Schmidt College of Medicine.
2022	Promotion to the rank of Research Associate Professor of Biomedical Science Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL.
2018	Travel Award (from NIH/NIDA) to attend INRC conference, San Diego, CA.
2017	Travel Award (from NIH/NIAAA) to attend conference on "Alcoholism and Stress: A Framework for Future Treatment Strategies", Volterra, Italy.
2016	Travel Award to attend INRC conference, Bath, UK.
2015	Promotion to the rank of Senior Scientist at the Torrey Pines Institute for Molecular Studies, Port St. Lucie, FL.
2014	National Scientific Qualification for Associate Professorship in Italy , Ministry for Instruction, University and Research (MIUR).
2014	Travel Award (from NIAAA/NIH) to attend conference on "Alcoholism and Stress: A Framework for Future Treatment Strategies", Volterra, Italy.
2005	Pharmacist License, University of Camerino, Italy.
2002	Scholarship "Research Activities Abroad", University of Camerino, Italy.

Research Experience:

Publications (65; 5005 citations, h-index: 37 according to Google Scholar, as of Oct 15th, 2025)

- **Refereed Journal Articles (64)**

1. Sophia Draughon; Ali Idriss; Kylie Kealoha; Meira Gildin; Michael Lauber; Benjamin Carper; Lawrence Toll; Kelly M. Standifer; **Andrea Cippitelli**. Testing the effect of the non-selective opioid PPL-138 in a model of alcohol relapse in the context of PTSD. **Neuropharmacology** **2025 Sep 3**;280:110675. doi: 10.1016/j.neuropharm.2025.110675. Online ahead of print.
2. **Andrea Cippitelli**, Yong Zhang, Kylie Kealoha, Ali Idriss, Panini Patankar, Benjamin Carper, Lawrence Toll, Kelly M. Standifer. The opioid partial agonist PPL-138 reduces alcohol self-administration in rats susceptible to post-traumatic stress disorder. **Br J Pharmacol.** **2025 Aug 9**. doi: 10.1111/bph.70151. Online ahead of print.
3. Gerda E. Breitwieser, **Andrea Cippitelli**, Yingcai Wang, Oliver Pelletier, Ridge Dershem, Jianning Wei, Lawrence Toll, Bianca Fakhoury, Gloria Brunori, Raghu Metpally, David J. Carey, the Regeneron Genetics Center and Janet Robishaw. Rare GPR37L1 variants reveal potential association between GPR37L1 and disorders of anxiety and migraine. **J Neurosci.** **2024 Apr 3**:e1226232024. doi: 10.1523/JNEUROSCI.1226-23.2024
4. Lisa E Rusali, Ana M Lopez-Hernandez, Kyle M Kremiller, Gauri C Kulkarni, Abhishek Gour, Carolyn J Straub, Malaika D Argade, Christian J Peters, Abhishek Sharma, Lawrence Toll, **Andrea Cippitelli**, Andrew P Riley. Synthesis of $\alpha 3\beta 4$ Nicotinic Acetylcholine Receptor Modulators Derived from Aristosquinoline That Reduce Reinstatement of Cocaine-Seeking Behavior. **J Med. Chem.** **2024, 67, 1, 529–542**. doi: 10.1021/acs.jmedchem.3c01758.
5. Giordano de Guglielmo, Marsida Kallupi, **Andrea Cippitelli**, Daniele Caprioli and Kabirullah Lutfy. Editorial: Opioids and opioid-use disorders. **Frontiers in Pharmacology**, **2023 Jun 15**;14:1227174. doi: 10.3389/fphar.2023.1227174. eCollection 2023.
6. Chiara Sturaro, Bianca Fakhoury, Katarzyna M. Targowska-Duda, Gilles Zribi, Jennifer Schoch, Chiara Ruzza, Girolamo Calò, Lawrence Toll, **Andrea Cippitelli**. Preclinical effects of cannabidiol in an experimental model of migraine. **Pain**, **2023 Jun 9**. doi: 10.1097/j.pain.0000000000002960. Online ahead of print. PMID: 37310430.
7. **Andrea Cippitelli**, Gilles Zribi, Lawrence Toll. PPL-103: A mixed opioid partial agonist with desirable anti-cocaine properties. **Progress in Neuropharmacology and Biological Psychiatry**. 2022 Dec 20;119:110599. doi: 10.1016/j.pnpbp.2022.110599.
8. **Andrea Cippitelli**, Madeline Martinez, Gilles Zribi, Gerta Cami-Kobeci, Stephen M. Husbands, Lawrence Toll. PPL-138 (BU10038): A bifunctional mu-NOP partial agonist that reduces cocaine self-administration in rats. **Neuropharmacology**. **2022 Apr 1**; **211:109045**. doi: 10.1016/j.neuropharm.2022.109045.
9. Lawrence Toll, **Andrea Cippitelli**, Akihiko Ozawa. The NOP Receptor System in Neurological and Psychiatric Disorders: Discrepancies, Peculiarities and Clinical Progress in Developing Targeted Therapies. **CNS Drugs**. **2021 May 31**. doi: 10.1007/s40263-021-00821-0.

10. Katarzyna M. Targowska-Duda, Akihiko Ozawa, Zachariah Bertels, **Andrea Cippitelli**, Jason L. Marcus, Hanna K. Mielke-Maday, Gilles Zribi, Amanda N. Rainey, Brigitte L. Kieffer, Aymynah A. Pradhan, Lawrence Toll. NOP receptor agonist attenuates nitroglycerin-induced migraine-like symptoms in mice. ***Neuropharmacology*, 2020 Jun 15;170:108029.** doi: 10.1016/j.neuropharm.2020.108029.
11. **Andrea Cippitelli**, Megan Barnes, Nurulain T. Zaveri, Lawrence Toll. Potent and selective NOP receptor activation reduces cocaine self-administration in rats by lowering hedonic set point. ***Addiction Biology*, 2020 Nov 25(6):e12844.** <https://doi.org/10.1111/adb.12844>.
12. Gloria Brunori, Michelle Weger, Jennifer Schoch, Katarzyna Targowska-Duda, Megan Barnes, Anna Maria Borruto, Linda M. Rorick-Kehn, Nurulain T. Zaveri, John E. Pintar, Roberto Ciccocioppo, Lawrence Toll, and **Andrea Cippitelli**. NOP receptor antagonists decrease alcohol drinking in the dark in C57BL/6J mice. ***Alcoholism: Clinical Experimental Research*, 2019 Oct;43(10):2167-2178.** doi: 10.1111/acer.14165.
13. Angelo Bifone, Andrea Gozzi, **Andrea Cippitelli**, Alessandra Matzeu, Esi Domi, Hongwu Li, Giulia Scuppa, Nazzareno Cannella, Massimo Ubaldi, Friedbert Weiss, Roberto Ciccocioppo. pHMRI, neurochemical and behavioral responses to psychostimulants distinguishing genetically selected alcohol-preferring from genetically heterogeneous rats. ***Addiction Biology*, 2019 Sep;24(5):981-993.** doi: 10.1111/adb.12671.
14. Francisco Alen, Juan Decara, Gloria Brunori, Zhi-Bing You, Kora-Mareen Bühler, Jose Antonio López-Moreno, **Andrea Cippitelli**, Francisco Javier Pavon, Juan Suárez, Eliot L. Gardner, Rafael de la Torre, Roberto Ciccocioppo, Antonia Serrano, Fernando Rodríguez de Fonseca. PPAR α /CB1 receptor dual ligands as a novel therapy for alcohol use disorder: evaluation of a novel oleic acid conjugate in preclinical rat models. ***Biochemical Pharmacology*, 2018 Nov;157:235-243.** doi: 10.1016/j.bcp.2018.09.008.
15. Gloria Brunori, Jennifer Schoch, Daniela Mercatelli, Akihiko Ozawa, Lawrence Toll, **Andrea Cippitelli**. The influence of neuropathic pain on nAChR plasticity and behavioral responses to nicotine in rats. ***Pain*, 2018 Nov;159(11):2179-2191.** doi: 10.1097/j.pain.0000000000001318.
16. Akihiko Ozawa, Gloria Brunori, **Andrea Cippitelli**, Nicholas Toll, Jennifer Schoch, Brigitte L. Kieffer, Lawrence Toll. Analysis of the distribution of spinal NOP receptors in a chronic pain model using NOP-eGFP knock-in mice. ***British Journal of Pharmacology*, 2018 Jul;175(13):2662-2675.** doi: 10.1111/bph.14225.
17. **Andrea Cippitelli**, Gloria Brunori, Jennifer Schoch, Christopher J. Armishaw, Jinhua Wu, Nurulain T. Zaveri, Marc A. Giulianotti, Gregory S. Welmaker, Lawrence Toll. Differential regulation of alcohol taking and seeking by antagonism at $\alpha 4\beta 2$ and $\alpha 3\beta 4$ nAChRs. ***Psychopharmacology (Berl)*, 2018 Jun;235(6):1745-1757.** doi: 10.1007/s00213-018-4883-y.

18. Jinhua Wu, **Andrea Cippitelli**, Yaohong Zhang, Ginamarie Debevec, Jennifer Schoch, Akihiko Ozawa, Yongping Yu, Huan Liu, Wenteng Chen, Richard A. Houghten, Gregory S. Welmaker, Marc A. Giulianotti, and Lawrence Toll. Highly selective and potent $\alpha 4\beta 2$ nAChR antagonist inhibits nicotine self-administration and reinstatement in rats. ***Journal of Medicinal Chemistry*, 2017, 60, 10092-10104.** doi: 10.1021/acs.jmedchem.7b01250.
19. **Andrea Cippitelli**, Esi Domi, Massimo Ubaldi, James C. Douglas, Hong Wu Li, Gregory Demopoulos, George Gaitanaris, Marisa Roberto, Paul D. Drew, Cynthia J.M. Kane, Roberto Ciccocioppo. Protection against alcohol-induced neuronal and cognitive damage by the PPAR γ receptor agonist pioglitazone. ***Brain Behavior and Immunity*, 2017 Aug;64:320-329.** doi: 10.1016/j.bbi.2017.02.001.
20. Taline V. Khroyan, **Andrea Cippitelli**, Nicholas Toll, John A. Lawson, William Crossman, Willma E. Polgar and Lawrence Toll. In Vitro And In Vivo Profile Of PPL-101 And PPL-103: Mixed Opioid Partial Agonist Analgesics with Low Abuse Potential. ***Frontiers in Psychiatry*, 2017 Apr 12;8:52.** doi: 10.3389/fpsy.2017.00052.
21. Ainhoa Bilbao, Antonia Serrano, **Andrea Cippitelli**, Francisco J. Pavón, Andrea Giuffrida, Juan Suárez, Nuria García-Marchena, Elena Baixeras, Raquel Gómez de Heras, Laura Orio, Francisco Alén, Roberto Ciccocioppo, Benjamin F. Cravatt, Loren H. Parsons, Daniele Piomelli & Fernando Rodríguez de Fonseca. Role of the Satiety Factor Oleoylethanolamide in Alcoholism. ***Addiction Biology*, 2016 Jul;21(4):859-72.** doi: 10.1111/adb.12276.
22. Fernanda L. Galesi, Lydia O. Ayanwuyi, Miriam Garcia Mijares, **Andrea Cippitelli**, Nazzareno Cannella, Roberto Ciccocioppo, Massimo Ubaldi. Role of Hypothalamic-Pituitary-Adrenal axis and corticotropin-releasing factor stress system on cue-induced relapse to alcohol seeking. ***European Journal of Pharmacology*, 2016 Jun 15;788:84-89.** doi: 10.1016/j.ejphar.2016.06.020.
23. **Andrea Cippitelli**, Jennifer Schoch, Ginamarie Debevec, Gloria Brunori, Nurulain T. Zaveri, Lawrence Toll. A key role for the N/OFQ-NOP receptor system in modulating nicotine taking in a model of nicotine and alcohol co-administration. ***Scientific Reports*, 2016 May 20;6:26594.** doi: 10.1038/srep26594.
24. Lydia O. Ayanwuyi, Serena Stopponi, Massimo Ubaldi, **Andrea Cippitelli**, Cinzia Nasuti, Ruslan Damadzic, Markus Heilig, Jesse R. Schank, Kejun Cheng, Kenner C. Rice, Roberto Ciccocioppo. Neurokinin 1 Receptor Blockade in the Medial Amygdala Attenuates Alcohol Drinking in Rats with Innate Anxiety but not in Wistar Rats. ***British Journal of Pharmacology*, 2015 Nov;172(21):5136-46.** doi: 10.1111/bph.13280.
25. Giulia Scuppa, **Andrea Cippitelli**, Lawrence Toll, Roberto Ciccocioppo, Massimo Ubaldi. Varenicline decreases nicotine but not alcohol self-administration in genetically selected

- Marchigian Sardinian alcohol-preferring (msP) rats. *Drug and Alcohol Dependence*, 2015 Nov 1;156:126-32. doi: 10.1016/j.drugalcdep.2015.09.002.
26. Akihiko Ozawa, Gloria Brunori, Daniela Mercatelli, Jinhua Wu, **Andrea Cippitelli**, Bende Zou, Xinmin (Simon) Xie, Melissa Williams, Nurulain T. Zaveri, Sarah Low, Gregory Scherrer, Brigitte L. Kieffer, Lawrence Toll. Knock-in Mice with NOP-eGFP Receptors Identify Receptor Cellular and Regional Localization. *Journal of Neuroscience*, Aug 19, 2015; 35(33):11682–11693. doi: 10.1523/JNEUROSCI.5122-14.2015.
27. **Andrea Cippitelli**, Gloria Brunori, Kelly A. Gaiolini, Nurulain T. Zaveri, Lawrence Toll. Pharmacological stress is required for the anti-alcohol effect of the $\alpha 3\beta 4^*$ nAChR partial agonist AT-1001. *Neuropharmacology*, 2015 Jun; 93: 229-36. doi: 10.1016/j.neuropharm.2015.02.005.
28. **Andrea Cippitelli**, Jinhua Wu, Kelly A. Gaiolini, Daniela Mercatelli, Jennifer Schoch, Michelle Gorman, Alejandra Ramirez, Roberto Ciccocioppo, Taline V. Khroyan, Dennis Yasuda, Nurulain T. Zaveri, Conrado Pascual, Xinmin (Simon) Xie and Lawrence Toll. AT-1001: A High Affinity $\alpha 3\beta 4$ nAChR Ligand with Novel Nicotine-Suppressive Pharmacology. *British Journal of Pharmacology*, 2015 Apr;172(7):1834-45. doi: 10.1111/bph.13034.
29. Giordano de Guglielmo, Miriam Melis, Maria Antonietta De Luca, Marsida Kallupi, Hong Wu Li, Kevin Niswender, Antonio Giordano, Martina Senzacqua, Lorenzo Somaini, **Andrea Cippitelli**, George Gaitanaris, Gregory Demopoulos, Ruslan Damadzic, Jenica Tapocik, Markus Heilig and Roberto Ciccocioppo. PPAR γ activation attenuates opioid consumption and modulates mesolimbic dopamine transmission. *Neuropsychopharmacology*, 2015 Mar;40(4):927-937. doi: 10.1038/npp.2014.268.
30. **Andrea Cippitelli**, Lydia O. Ayanwuyi, Estelle Barbier, Esi Domi, Jose M. Lerma-Cabrera, Francisca Carvajal, Giulia Scuppa, Hongwu Li, Massimo Ubaldi, Markus Heilig, Marisa Roberto, Roberto Ciccocioppo. Polymorphism in the corticotropin-releasing factor receptor 1 (CRF1-R) gene plays a role in shaping the high anxious phenotype of Marchigian Sardinian alcohol-preferring (msP) rats. *Psychopharmacology (Berl)*, 2015 Mar;232(6):1083-93. doi: 10.1007/s00213-014-3743-7.
31. Serena Stopponi, Laura Soverchia, Massimo Ubaldi, **Andrea Cippitelli**, Giovanni Serpelloni, Roberto Ciccocioppo. Chronic THC during adolescence increases the vulnerability to stress-induced relapse to heroin seeking in adult rats. *European Neuropsychopharmacology*, 2014 Jul;24(7):1037-45. doi: 10.1016/j.euroneuro.2013.12.012.
32. **Andrea Cippitelli**, Ruslan Damadzic, Carol Hamelink, Michael Brunnquell, Annika Thorsell, Markus Heilig, Robert L. Eskay. Binge-Like Ethanol Consumption Increases Corticosterone Levels and Neurodegeneration whereas occupancy of Type II Glucocorticoid Receptors with Mifepristone is Neuroprotective. *Addiction Biology*, 2014 Jan;19(1):27-36. doi: 10.1111/j.1369-1600.2012.00451. x.

33. Lydia O. Ayanwuyi, Francisca Carvajal, Jose M. Lerma-Cabrera, Esi Domi, Karl Björk, Massimo Ubaldi, Markus Heilig, Marisa Roberto, Roberto Ciccocioppo and **Andrea Cippitelli**. Role of a genetic polymorphism in the corticotropin-releasing factor receptor 1 gene in alcohol drinking and seeking behaviors of Marchigian Sardinian alcohol-preferring (msP) rats. **Frontiers in Psychiatry**, 2013, 4:23. doi: 10.3389/fpsy.2013.00023.
34. Giordano De Guglielmo, **Andrea Cippitelli**, Lorenzo Somaini, Gilberto Gerra, Hongwu Li, Serena Stopponi, Massimo Ubaldi, Marsida Kallupi, Roberto Ciccocioppo. Pregabalin reduces cocaine self-administration and relapse to cocaine-seeking in the rat. **Addiction Biology**, 2013 Jul;18(4):644-53. doi: 10.1111/j.1369-1600.2012.00468. x.
35. Serena Stopponi S, Giordano de Guglielmo, Lorenzo Somaini, **Andrea Cippitelli**, Nazzareno Cannella, Marsida Kallupi, Massimo Ubaldi, Markus Heilig, Gregory Demopoulos, George Gaitanaris, Roberto Ciccocioppo. Activation of PPAR γ by pioglitazone potentiates the effects of naltrexone on alcohol drinking and relapse in msP rats. **Alcoholism: Clinical and Experimental Research**, 2013 Mar 29. doi: 10.1111/acer.12091.
36. Camilla Karlsson, Michelle Zook, Roberto Ciccocioppo, Donald R. Gehlert, Annika Thorsell, Markus Heilig, **Andrea Cippitelli**. Melanin-concentrating hormone receptor 1 (MCH1-R) antagonism: Reduced appetite for calories and suppression of addictive-like behaviors. **Pharmacology Biochemistry and Behavior**, 2012 Jun 15;102(3):400-406. doi: 10.1016/j.pbb.2012.06.010.
37. Serena Stopponi, Lorenzo Somaini, **Andrea Cippitelli**, Giordano de Guglielmo, Marsida Kallupi, Nazzareno Cannella, Gilberto Gerra, Maurizio Massi, Roberto Ciccocioppo. Pregabalin reduces alcohol drinking and relapse to alcohol seeking in the rat. **Psychopharmacology (Berl)**, 2012 Mar;220(1):87-96. doi:10.1007/s00213-011-2457-3.
38. **Andrea Cippitelli**, Ruslan Damadzic, Erick Singley, Annika Thorsell, Roberto Ciccocioppo, Robert L. Eskay, Markus Heilig. Pharmacological blockade of corticotropin-releasing hormone receptor 1 (CRH1R) reduces voluntary consumption of high alcohol concentrations in non-dependent Wistar rats. **Pharmacology Biochemistry and Behavior**, 2012 Jan;100(3):522-529. doi: 10.1016/j.pbb.2011.10.016.
39. **Andrea Cippitelli**, Giuseppe Astarita, Andrea Duranti, Giovanni Caprioli, Massimo Ubaldi, Serena Stopponi, Marsida Kallupi, Gianni Sagratini, Fernando Rodriguez de Fonseca, Daniele Piomelli, Roberto Ciccocioppo. Endocannabinoid regulation of acute and protracted nicotine withdrawal: Effect of FAAH inhibition. **PLoS One**, 2011;6(11):e28142. doi:10.1371/journal.pone.0028142.
40. **Andrea Cippitelli**, Amir H. Rezvani, J. Elliott Robinson, Lindsay Eisenberg, Edward D. Levin, Pascal Bonaventure, S. Timothy Motley, Timothy W. Lovenberg, Markus Heilig, Annika Thorsell. The novel, selective, brain penetrant NPY Y2 receptor antagonist, JNJ-31020028,

tested in animal models of alcohol consumption, relapse and anxiety. ***Alcohol*, 2011 Sep;45(6):567-76.** doi:10.1016/j.alcohol.2010.09.003.

41. Serena Stopponi, Lorenzo Somaini, **Andrea Cippitelli**, Nazzareno Cannella, Simone Braconi, Marsida Kallupi, Barbara Ruggeri, Markus Heilig, Gregory Demopoulos, George Gaitanaris, Maurizio Massi, and Roberto Ciccocioppo. Activation of nuclear PPAR γ receptors by the antidiabetic agent pioglitazone suppresses alcohol drinking and relapse to alcohol seeking. ***Biological Psychiatry*, 2011 Apr 1;69(7):642-9.** doi:10.1016/j.biopsych.2010.12.010.
42. Daina Economidou, **Andrea Cippitelli**, Serena Stopponi, Simone Braconi, Stefano Clementi, Remi Martin-Fardon, Friedbert Weiss, Maurizio Massi, Roberto Ciccocioppo. Activation of brain NOP receptors attenuates alcohol withdrawal symptoms in the rat. ***Alcoholism: Clinical and Experimental Research*, 2011 Apr;35(4):747-55.** doi:10.1111/j.1530-0277.2010.01392.x.
43. Lorenzo Leggio, Giovanni Addolorato, **Andrea Cippitelli**, Elisabet Jerlhag, Alexei B. Kampov-Polevoy, and Robert M. Swift. Role of feeding-related pathways in alcohol dependence: a focus on sweet preference, NPY and Ghrelin. ***Alcoholism: Clinical and Experimental Research*, 2011 Feb;35(2):194-202. Review.** doi: 10.1111/j.1530-0277.2010.01334. x.
44. **Andrea Cippitelli**, Michelle Zook, Lauren Bell, Ruslan Damadzic, Robert L. Eskay, Melanie Schwandt, Markus Heilig. Reversibility of object recognition but not spatial memory impairment following binge-like alcohol exposure in rats. ***Neurobiology of Learning and Memory*, 2010 Nov;94(4):538-46.** doi: 10.1016/j.nlm.2010.09.006.
45. **Andrea Cippitelli**, Camilla Karlsson C, Janice L. Shaw, Annika Thorsell, Donald R. Gehlert, Markus Heilig. Suppression of alcohol self-administration and reinstatement of alcohol seeking by melanin-concentrating hormone receptor 1 (MCH1-R) antagonism in Wistar rats. ***Psychopharmacology (Berl)*, 2010 Sep;211(4):367-75.** doi: 10.1007/s00213-010-1891-y.
46. **Andrea Cippitelli**, Ruslan Damadzic, Kate Frankola, Andrea Goldstein, Annika Thorsell, Erick Singley, Robert L. Eskay, and Markus Heilig. Alcohol-induced neurodegeneration, suppression of transforming growth factor- β , and cognitive impairment in rat: Prevention by mGlu $_{2/3}$ receptor activation. ***Biological Psychiatry*, 2010 May 1;67(9):823-30.** doi: 10.1016/j.biopsych.2009.12.018.
47. **Andrea Cippitelli**, Ruslan Damadzic, Anita C. Hansson, Erick Singley, Wolfgang H. Sommer, Robert Eskay, Annika Thorsell, Markus Heilig. Neuropeptide Y (NPY) suppresses yohimbine-induced reinstatement of alcohol seeking. ***Psychopharmacology (Berl)*, 2010 Feb;208(3):417-26.** doi: 10.1007/s00213-009-1741-y.
48. Gilberto Gerra, Amir Zaimovic, Maria L. Gerra, Roberto Ciccocioppo, **Andrea Cippitelli**, Giovanni Serpelloni and Lorenzo Somaini. Pharmacology and toxicology of Cannabis

- derivatives and endocannabinoid agonists. **Recent Patents in CNS Drug Discovery**, 2010 Jan;5(1):46-52. Review. doi:10.2174/157488910789753521.
49. Roberto Ciccocioppo, Donald R. Gehlert, Andrey Ryabinin, Simranjit Kaur, **Andrea Cippitelli**, Annika Thorsell, Anh D. Le, Philip A. Hipskind, Chafiq Hamdouchi, Jianliang Lu, Erik J. Hembre, Jeffrey Cramer, Min Song, David McKinzie, Michelle Morin, Daina Economidou, Serena Stopponi, Nazzareno Cannella, Simone Braconi, Marsida Kallupi, Giordano de Guglielmo, Maurizio Massi, David T. George, Jody Gilman, Jacqueline Hersh, Johannes T. Tauscher, Stephen P. Hunt, Daniel Hommer, Markus Heilig. Stress-related neuropeptides and alcoholism: CRH, NPY, and beyond. **Alcohol**, 2009 Nov;43(7):491-8. Review. doi:10.1016/j.alcohol.2009.08.003.
50. Daina Economidou, Anita C. Hansson, Friedbert Weiss, Anton Terasmaa, Wolfgang H. Sommer, **Andrea Cippitelli**, Amalia Fedeli, Remi Martin-Fardon, Maurizio Massi, Roberto Ciccocioppo, Markus Heilig. Dysregulation of Nociceptin/Orphanin FQ Activity in the Amygdala Is Linked to Excessive Alcohol Drinking in the Rat. **Biological Psychiatry**, 2008 Aug 1;64(3):211-8. doi:10.1016/j.biopsych.2008.02.004.
51. **Andrea Cippitelli**, Nazzareno Cannella, Simone Braconi, Andrea Duranti, Andrea Tontini, Ainhoa Bilbao, Fernando Rodríguez de Fonseca, Daniele Piomelli, Roberto Ciccocioppo. Increase of brain endocannabinoid anandamide levels by FAAH inhibition and alcohol abuse behaviours in the rat. **Psychopharmacology (Berl)**, 2008 Jul;198(4):449-60. doi:10.1007/s00213-008-1104-0.
52. **Andrea Cippitelli**, Ainhoa Bilbao, Miguel Angel Gorriti, Miguel Navarro, Maurizio Massi, Daniele Piomelli, Roberto Ciccocioppo and Fernando Rodríguez de Fonseca. The Anandamide transport inhibitor AM 404 reduces ethanol self-administration. **European Journal of Neuroscience**, 2007 Jul; 26(2):476-86. doi:10.1111/j.1460-9568.2007.05665.x.
53. Donald R. Gehlert, **Andrea Cippitelli**, Annika Thorsell, Anh Dzung Lê, Philip A. Hipskind, Chafiq Hamdouchi, Jianliang Lu, Erik J. Hembre, Jeffrey Cramer, Min Song, David McKinzie, Michelle Morin, Roberto Ciccocioppo, and Markus Heilig. MTIP: a novel brain penetrant, orally available corticotropin-releasing hormone receptor 1 (CRH-R1) antagonist for treatment of alcoholism. **Journal of Neuroscience**, 2007 Mar 7; 27(10):2718-26. doi:10.1523/JNEUROSCI.4985-06.2007.
54. Anita C. Hansson, **Andrea Cippitelli**, Wolfgang H. Sommer, Amalia Fedeli, Roberto Ciccocioppo and Markus Heilig. Region-specific down regulation of Crhr1 gene expression in alcohol preferring msP rats following ad lib access to alcohol. **Addiction Biology**, 2007 Mar; 12(1):30-4. doi:10.1111/j.1369-1600.2007.00050.x.
55. Amalia Fedeli, Federica Policani, Massimo Ubaldi, **Andrea Cippitelli**, Maurizio Massi, Roberto Ciccocioppo. Activation of the Nociceptin/Orphanin FQ system is unable to reverse CRF 2

receptor mediated anorexia in the rat. *Peptides*, 2006 Dec; 27(12):3284-91.
doi:10.1016/j.peptides.2006.09.001.

56. Anita C. Hansson, **Andrea Cippitelli**, Wolfgang. H. Sommer, Amalia Fedeli, Karl Björk, Laura Soverchia, Anton Terasmaa, Maurizio Massi, Markus Heilig, and Roberto Ciccocioppo. Variation at the rat Crhr1 locus and sensitivity to relapse into alcohol seeking induced by environmental stress. *Proceedings of the National Academy of Science U S A*, 2006 Oct 10;103(41):15236-41.8. doi:10.1073/pnas.0604419103.
57. Roberto Ciccocioppo, Daina Economidou, **Andrea Cippitelli**, Marino Cucculelli, Massimo Ubaldi, Laura Soverchia, Anbarasu Lourdasamy, Maurizio Massi. Genetically selected Marchigian Sardinian alcohol-preferring (msP) rats: an animal model to study the neurobiology of alcoholism. *Addiction Biology*, 11(3-4):339-55, 2006. Review. doi:10.1111/j.1369-1600.2006.00032.x.
58. Francisco Javier Pavón, Ainhoa Bilbao, Laura Hernandez-Folgado, **Andrea Cippitelli**, Nadine Jagerovic, Gumersindo Abellan, M Isabel Rodriguez-Franco, Antonia Serrano, Manuel Macias, Raquel Gomez, Miguel Navarro, Pilar Goya, Fernando Rodríguez de Fonseca. Antiobesity effects of the novel in vivo neutral cannabinoid receptor antagonist 5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-3-hexyl-1H-1,2,4-triazole--LH 21. *Neuropharmacology*, 2006; 51(2):358-66. doi:10.1016/j.neuropharm.2006.03.029.
59. Ainhoa Bilbao, **Andrea Cippitelli**, Ana B. Martín, Noelia Granado, Oscar Ortiz, Erwan Bezaud, Jiang-Fan Chen, Miguel Navarro, Fernando Rodríguez de Fonseca, Rosario Moratalla. Absence of quasi-morphine withdrawal syndrome in adenosine A2A receptor knockout mice. *Psychopharmacology (Berl)*, 2006, Feb 10; 1-9. doi:10.1007/s00213-005-0284-0.
60. **Andrea Cippitelli**, Ainhoa Bilbao, Anita C. Hansson, Ignacio del Arco, Wolfgang Sommer, Markus Heilig, Maurizio Massi, Francisco Javier Bermudez-Silva, Miguel Navarro, Roberto Ciccocioppo and Fernando Rodríguez de Fonseca; The European TARGALC Consortium. Cannabinoid CB1 receptor antagonism reduces conditioned reinstatement of ethanol-seeking behavior in rats. *European Journal of Neuroscience*, 2005 Apr; 21(8):2243-51. doi:10.1111/j.1460-9568.2005.04056.x.
61. Fernando Rodríguez de Fonseca, Ignacio Del Arco, Francisco Javier Bermudez-Silva, Ainhoa Bilbao, **Andrea Cippitelli**, Miguel Navarro. The endocannabinoid system: physiology and pharmacology. *Alcohol and Alcoholism*, 2005 Jan-Feb;40(1):2-14. Review. doi:10.1093/alcalc/agh110.
62. Roberto Ciccocioppo, **Andrea Cippitelli**, Daina Economidou, Amalia Fedeli, Maurizio Massi. Nociceptin/orphanin FQ acts as a functional antagonist of corticotropin-releasing factor to inhibit its anorectic effect. *Physiology and Behavior*, 2004 Aug;82(1):63-8. Review. doi:10.1016/j.physbeh.2004.04.035.

63. Marina Perfumi, Manuela Santoni, **Andrea Cippitelli**, Roberto Ciccocioppo, Rino Frolidi, Maurizio Massi. Hypericum perforatum CO₂ extract and opioid receptor antagonists act synergistically to reduce ethanol intake in alcohol-preferring rats. ***Alcoholism: Clinical and Experimental Research*, 2003 Oct;27(10):1554-62.**
doi:10.1097/01.ALC.0000092062.60924.56.
64. Raquel Gomez, Miguel Navarro, Belen Ferrer, Jose M. Trigo, Ainhoa Bilbao, Ignacio Del Arco, **Andrea Cippitelli**, Felice Nava, Daniele Piomelli, and Fernando Rodríguez de Fonseca. A peripheral mechanism for CB1 cannabinoid receptor-dependent modulation of feeding. ***Journal of Neuroscience*, 2002 Nov 1; 22(21):9612-7.** doi: 10.1523/JNEUROSCI.22-21-09612.2002.

- **Book Chapters (1)**

1. Lawrence Toll, Akihiko Ozawa, **Andrea Cippitelli**. NOP-related mechanisms in pain and analgesia. Title of book: The Nociceptin/Orphanin FQ Peptide Receptor. ***Handbook of Experimental Pharmacology*, 2019 May 22.** doi: 10.1007/164_2019_214.

- **Non-Refereed Journal Articles (4)**

1. Lisa E Rusali, Ana M Lopez-Hernandez, Kyle M Kremiller, Gauri C Kulkarni, Abhishek Gour, Carolyn J Straub, Malaika D Argade, Christian J Peters, Abhishek Sharma, Lawrence Toll, **Andrea Cippitelli**, Andrew P Riley. Synthesis of $\alpha 3\beta 4$ Nicotinic Acetylcholine Receptor Modulators Derived from Aristosquinoline that Reduce Reinstatement of Cocaine-Seeking Behavior. ***ChemRxiv*. 2023 September 22.** doi: 10.26434/chemrxiv-2023-0pdt6. Preprint.
2. Breitwieser GE, Cippitelli A, Wang Y, Pelletier O, Dershem R, Wei J, Toll L, Fakhoury B, Brunori G, Metpally R, Carey DJ; Regeneron Genetics Center; Robishaw J. Rare GPR37L1 variants reveal potential roles in anxiety and migraine disorders. ***BioRxiv*. 2023 Jul 7:2023.07.05.547546.** doi: 10.1101/2023.07.05.547546. Preprint.
3. Gloria Brunori, **Andrea Cippitelli**, Giovanni Serpelloni, Roberto Ciccocioppo. La Neurobiologia del gioco d'azzardo patologico. ***Italian Journal on Addiction (Italian)*, 2013 Vol 3; N°1.**
4. Serena Stopponi, Massimo Ubaldi, **Andrea Cippitelli**, Lorenzo Somaini, Esi Domi, Giovanni Serpelloni, Roberto Ciccocioppo. L'esposizione cronica al THC in età adolescenziale ha azione ansiogenica e causa alterazioni di espressione genica a livello della corteccia prefrontale: Uno studio preclinico. ***Italian Journal on Addiction (Italian)*, 2011 Vol 1; N°1-2.**

- **Media Exposure**

1. **Press release: Business Wire Thu, Sept 14, 2023.**
<https://finance.yahoo.com/news/phoenix-pharmalabs-lead-compound-ppl-121000239.html>
2. **Florida Atlantic Stiles-Nicholson Brain Institute. Masterminds 2025. Decoding drug abuse disorders.**
<https://www.fau.edu/brain/masterminds/2025/decoding-drug-abuse-disorders/>
3. **Research Highlights 2025. Alcohol and Substance Use Disorders Highlights. CDMRP-Funded Research Investigates Potential Treatment for the Co-Occurrence of PTSD and Alcohol Use Disorder.**
https://cdmrp.health.mil/asudrp/research_highlights/25PASA_highlight
4. **News Release 24-Sep-2025.**
FAU study pinpoints single drug therapy for PTSD, pain, and alcohol misuse.
<https://www.eurekalert.org/news-releases/1099491>; <https://www.news-medical.net/news/20250924/FAU-study-explores-how-a-new-drug-may-help-treat-PTSD-and-its-common-companions.aspx>; <https://bioengineer.org/fau-study-identifies-single-drug-treatment-targeting-ptsd-pain-and-alcohol-misuse/>

Non-written Presentations

- **Invited/Selected Oral Presentations in National & International Scientific Meetings.**

Cippitelli A. Modeling CNS disorders in laboratory animals. Florida Atlantic University Research Renewal 2025. 4/23/2025. Boca Raton, FL. (**Oral presentation**).

Cippitelli A, K Kealoha, Y Zhang, A Idriss, P Patankar, B Carper, L Toll, K Standifer. PPL-138 (BU10038) as a promising treatment for PTSD-like symptoms and excessive alcohol consumption in the context of PTSD. Research Society on Alcoholism (RSA) meeting. Minneapolis, Minnesota June 22-26, 2024. (**Oral presentation**).

Cippitelli A. Evaluation of PPL-138, a NOP/mu partial agonist, for treatment of alcohol abuse in the context of PTSD (update). Pharmacotherapies for Alcohol and Substance Use Disorders Alliance (PASA) Annual Investigators Meeting. Miami Beach, FL May 31, 2024. (**Oral presentation**).

Cippitelli A. Evaluation of PPL-138, a NOP/mu partial agonist, for treatment of alcohol abuse in the context of PTSD. Pharmacotherapies for Alcohol and Substance Use Disorders Alliance (PASA) Annual Investigators Meeting. Miami Beach, FL June 2, 2023. (**Oral presentation**).

Chiara Sturaro, Bianca Fakhoury, Katarzyna Targowska-Duda, Gilles Zribi, Jennifer Schoch, Lawrence Toll, **Andrea Cippitelli**. Effects of the non-psychoactive cannabinoid cannabidiol in

acute and chronic migraine-like states. Cannabis Clinical Outcomes Research Conference (CCORC) May 19-20, 2022. Orlando, FL. **(Oral presentation)**.

Cippitelli A, Wu J, Debevec G, Armishaw C, Welmaker GS, Giulianotti M, Toll L. Involvement of $\alpha 4\beta 2$ and $\alpha 3\beta 4$ nicotinic receptor subtypes in alcohol taking and seeking. Alcoholism and Stress Conference, **Volterra Conference 2017, Volterra, Italy**. *Alcohol* 100 (60), 209-210 **(Oral presentation)**.

Cippitelli A. Upregulation of extra-hypothalamic corticotrophin-releasing hormone (CRH) system: A hallmark of increased drinking, relapse vulnerability and anxiety-like disorders. **Alcoholism and stress: A framework for future treatment strategies. May 3-6, 2011. Volterra, Italy**. *Alcohol*, 45(3) May 2011 S13 **(Oral presentation)**.

Cippitelli A, Schwandt M, Zook M, Bell L, Thorsell A, Heilig M. Binge-like alcohol exposure produces short-term object recognition impairment as well as long-term spatial memory damage in rats. **33rd Annual Scientific Meeting of the Research Society on Alcoholism. Jun. 26-30, San Antonio, Texas**. *Alcoholism: Clinical and Experimental Research*, Suppl. to Jun. 2010 vol. 34 no 6 **(Oral presentation)**.

Cippitelli A, Damadzic R, Hansson AC, Singley E, Sommer WH, Thorsell A, Heilig M. Neuropeptide Y (NPY) system on relapse-like behavior in rats. **32nd Annual Scientific Meeting of the Research Society on Alcoholism. Jun. 20-24, 2009. San Diego, California**. *Alcoholism: Clinical and Experimental Research*, Supplement to June 2009 vol. 33, n 6 pag. 317A **(Oral presentation)**.

Cippitelli A. Foot-shock stress-induced reinstatement to alcohol-seeking behaviour in genetically selected alcohol-preferring rats and nonselected Wistar. "IX Seminario Nazionale per dottorandi in farmacologia e scienze affini", Sep. 20-23, 2005-Certosa di Pontignano, Italy **(Oral presentation)**.

- **Doctoral Dissertation.**

Cippitelli A, Ciccocioppo R, Rodriguez de Fonseca F. Role of the endocannabinoid system in the control of alcohol abuse mechanisms. University of Camerino, Italy. May 2006.

- **Poster Presentations/Abstracts in National & International Scientific Meetings.**

Lauber M, Gildin M, Righi T, Rodriguez de Fonseca, F, **Cippitelli A**. Effects of oleoylethanolamide and N-oleoylsulfamide in a model of alcohol relapse in the context of PTSD. CCORC Meeting 29-30 May 2025, Orlando, FL **(Poster presentation)**.

Zhang Y, Carper B, Patankar PS, Toll L, **Cippitelli A**, and Standifer KM. PPL-138, a mixed NOP/OPIOID receptor modulator, reduces pain sensitivity and anxiety-like behavior in a

preclinical model of post-traumatic stress disorder (PTSD). MHSRS meeting 26-29 Aug 2024, Kissimmee, FL (**Poster presentation**).

Lisa E. Rusali, Ana M. Lopez-Hernandez, Kyle M. Kremiller, Carolyn J. Straub, Malaika D. Argade, Lawrence Toll, **Andrea Cippitelli**, Andrew P. Riley: $\alpha\beta\gamma$ Nicotinic Acetylcholine Receptors as a Target for Cocaine Use Disorder. Chemistry and Pharmacology of Drug Abuse (CPDA) Conference. August 1-2, 2024, Boston, MA. (**Poster presentation**).

Gilles Zribi, Stefania Volpe, Lawrence Toll, **Andrea Cippitelli**. Bifunctional partial opioid compound effective against MUD in rodents. International Narcotics Research Conference (INRC), Ann Arbor, MI, July 9-12, 2024 (**Poster presentation**).

Stefania Volpe, Gilles Zribi, **Andrea Cippitelli**, Lawrence Toll. The Therapeutic Potential of PPL-138 as an Agent for Managing Addiction and Chronic Pain. International Narcotics Research Conference (INRC), Ann Arbor, MI, July 9-12, 2024 (**Poster presentation**).

Lawrence Toll, Ariana Perez, Akihiko Ozawa, Andrea Cippitelli, Katarzyna Targowska, Akanksha Mudgal. NOP Receptor Involvement in Migraine Circuitry. International Narcotics Research Conference (INRC), Ann Arbor, MI, July 9-12, 2024 (**Poster presentation**).

Ana M. Lopez-Hernandez, Lisa E. Rusali, Kylie M. Kremiller, Lawrence Toll, **Andrea Cippitelli**, Andrew P. Riley. Development of $\alpha\beta\gamma$ nicotinic acetylcholine receptor-targeted *Aristolelia* alkaloid derivatives for substance use disorder treatment. ACS Meeting Spring, New Orleans, LA, March 17-21, 2024. (**Poster presentation**).

Ariana Perez, Bianca Fakhoury, George Tarantino, Kylie Kealoha, Lawrence Toll, **Andrea Cippitelli**. NOP Receptor Agonist Attenuates CGRP Induced Acute and Chronic Migraine-Like States. International Narcotics Research Conference (INRC), Atlanta, GA, July 9-12, 2023 (**Poster presentation**).

Kylie Kealoha, Ali Idriss, Yong Zhang, Benjamin Carper, Panini Patankar, Lawrence Toll, Kelly Standifer, **Andrea Cippitelli**. Effects of the non-selective opioid ligand PPL-138 on an animal model of comorbid PTSD-AUD. International Narcotics Research Conference (INRC), Atlanta, GA, July 9-12, 2023 (**Poster presentation**).

Gilles Zribi, Kylie Kealoha, Lawrence Toll, **Andrea Cippitelli**. Impact of Partial Agonist Opioid Ligands on Methamphetamine Use Disorder in Rodent Models. International Narcotics Research Conference (INRC), Atlanta, GA, July 9-12, 2023 (**Poster presentation**).

Stefania Volpe, Gilles Zribi, **Andrea Cippitelli**, Lawrence Toll. The Therapeutic Potential of PPL-138 as an Agent for Managing Addiction and Chronic Pain. International Narcotics Research Conference (INRC), Atlanta, GA, July 9-12, 2023 (**Poster presentation**).

Chiara Sturaro, Bianca Fakhoury, Chiara Ruzza, Girolamo Calò, Lawrence Toll, **Andrea Cippitelli**. Anti-headache effects of cannabidiol in acute and chronic migraine-like conditions. The 41st Conference of the Italian Society of Pharmacology (SIF) "Il valore scientifico e l'uso appropriato del farmaco" Rome, 16-19 November 2022 (**Poster presentation**).

Cippitelli A, Targowska-Duda Katarzyna M., Zribi G, Barnes M, Toll L. Effects of the non-psychoactive cannabinoid cannabidiol in a mouse model of migraine. 2021 Cannabis Clinical Outcomes Research Conference (CCORC). April 8-9, 2021. Virtual Conference. Abstract Book, Page 20 (**Poster presentation**).

Cippitelli A, Barnes M, Lawson JA, Toll L. PPL-103: A kappa partial agonist approach that potently reduces compulsive cocaine taking and prime-induced cocaine seeking. Abstract T22, Abstract Book INRC 2019 New York, NY. (**Poster presentation**).

Cippitelli A, Brunori G, Schoch J, Ozawa A, Toll N. Neuroadaptations at nicotinic acetylcholine receptors and behavioral responses to nicotine in neuropathic rats. Division of Research Showcase 2018, Florida Atlantic University, Boca Raton, FL. (**Poster presentation**).

Cippitelli A, Brunori G, Schoch J, Ozawa A, Toll N. Neuroadaptations at nicotinic acetylcholine receptors and behavioral responses to nicotine in neuropathic rats. Abstract 15. Abstract Book INRC 2018 San Diego, CA. (**Poster presentation**).

Cippitelli A, Schoch J, Debevec G, Brunori G, Zaveri NT, Toll L. Antagonism at the nociception/orphanin FQ opioid peptide receptor decreases nicotine taking in a rat model of nicotine and alcohol co-administration. The International Narcotics Research Conference 2016 Bath, UK, July 10-14, 2016. Abstract book (**Poster presentation**).

Cippitelli A, Brunori G, Zaveri NT, Wu J, Giulianotti M, Armishaw C, Toll L. Effect of $\alpha 4\beta 2$ and $\alpha 3\beta 4$ nAChR-directed compounds on nicotine and alcohol co-addiction. SFN, Chicago, IL. Oct. 17-21, 2015 (**Poster presentation**).

Cippitelli A, Wu J, Gaiolini K, Mercatelli D, Schoch J, Brunori G, Ciccocioppo R, Zaveri NT, Toll L. Nicotine-suppressive properties of the high affinity $\alpha 3\beta 4$ nAChR ligand AT-1001 are different than those of varenicline. Society for Neuroscience, Nov. 15-19, 2014-Washington, DC. "Sunday" Book, Poster V14 #231.12 (**Poster Presentation**).

Cippitelli A, Domi E, Ciccocioppo R, Soverchia L, Stopponi S, Ubaldi M. Activation of PPAR γ receptors prevents alcohol-induced neurodegeneration and impaired cognitive flexibility in rats. Alcoholism and Stress Conference. *Alcohol*, 48 (2), 183-184, Abstract (P96), 2014 (**Poster Presentation**).

Cippitelli A, Schoch J, Mercatelli D, Wu J, Gaiolini K, Toll L. Neuropathic pain alters nicotine self-administration in rats. Society for Neuroscience, Nov. 9-13, 2013-San Diego, CA. "Tuesday" Book, Poster MM1 #545.17 (**Poster Presentation**).

Cippitelli A, Karlsson S, Shaw JL, Thorsell A, Gehlert DR, Heilig M. Suppression of alcohol self-administration and reinstatement to alcohol seeking by melanin-concentrating hormone receptor 1 (MCH1-R) antagonism. "33rd Annual Scientific Meeting of the Research Society on

Alcoholism". Jun. 26-30-San Antonio, Texas. *Alcoholism: Clinical and Experimental Research*, Suppl. to Jun. 2010 vol. 34 no 6 (**Poster presentation**).

Cippitelli A, Schwandt M, Zook M, Bell L, Thorsell A, Heilig M. Binge-like alcohol exposure produces short-term object recognition impairment as well as long-term spatial memory damage in rats. "33rd Annual Scientific Meeting of the Research Society on Alcoholism". Jun. 26-30-San Antonio, Texas. *Alcoholism: Clinical and Experimental Research*, Suppl. to Jun. 2010 vol. 34 no 6 (**Poster presentation**).

Cippitelli A, Damadzic R, Singley E, Thorsell A, Eskay R, Heilig M. Mglu_{2/3} receptor activation prevents alcohol-induced neurodegeneration, suppression of TGF- β , and cognitive impairment. "48th Annual Meeting of the American College of Neuropsychopharmacology (ACNP)". Dec. 6-10, 2009-Hollywood, Florida. *Neuropsychopharmacology*, 2009 (**Poster presentation**).

Cippitelli A, Damadzic R, Eskay R, Singley E, Thorsell A, Ciccocioppo R, Heilig M. A role for Corticotrophin Releasing Hormone (CRH) in high voluntary ethanol consumption: pharmacological evidence. Poster session III, abstract book, NIH Research Festival, Oct. 14-17, 2008, Bethesda, Maryland (**Poster presentation**).

Cippitelli A, Damadzic R, Hansson AC, Sommer WH, Thorsell A, Heilig M. Role of Neuropeptide Y (NPY) in relapse to alcohol-seeking. RSA/ISBRA conference Jun. 27-Jul. 2, 2008-Washington, DC. *Alcoholism: Clinical and Experimental Research*, Supplement to Jun 2008, vol. 32(6), Abstract P 270 (**Poster presentation**).

Cippitelli A, Damadzic R, Hansson AC, Sommer WH, Thorsell A, Heilig M. Role of Neuropeptide Y (NPY) in relapse to alcohol-seeking. May 6-8, 2008-Volterra, Italy. *Alcohol* P102 (**Poster presentation**).

Cippitelli A, Soverchia L, Massi M, Ciccocioppo R. Footshock stress-induced alcohol relapse: comparison between genetically selected alcohol-preferring rats and nonselected Wistars. 11th biennial EBPS meeting Sep. 2005-Barcelona, Spain. *Behavioural Pharmacology* A131 (**Poster presentation**).

Cippitelli A, Soverchia L, Massi M, Ciccocioppo R. Different response to foot-shock stress-induced reinstatement of alcohol-seeking behaviour in genetically selected alcohol-preferring rats compared to Wistar rats. "32th Congresso Nazionale della Società Italiana di Farmacologia (SIF)", Jun.1-4, 2005-Napoli, Italy. Abstract Book 2005 (**Poster presentation**).

Ciccocioppo R, **Cippitelli A**, Soverchia L, Ubaldi M, Heilig M, Sommer W, Arlinde C, Hansson AC, Hyytia P, Rodriguez de Fonseca F, Massi M. Functional genomics for target gene identification in animal models of alcohol abuse: the role of CB1 receptor system. "EBPS Workshop on Neurobehavioural Plasticity", Sep. 2-4, 2004-Rome, Italy. *Behavioural Pharmacology*, 15 n°5&6; A15, 2004 (**Poster presentation**).

- **Other Local, National and International Abstract Publications/Presentations.**

Sophia Draughon, **Andrea Cippitelli**. Effect of the non-selective opioid PPL-138 on alcohol relapse in a model of PTSD and alcohol use disorder comorbidity. Research and Scholarship Day. February 21 2025.

Ali Idriss, Kylie Kealoha, Benjamin Carper, Lawrence Toll, **Andrea Cippitelli**. Evaluation of non-selective opioid ligand (PPL-138) for treatment of excessive alcohol consumption in the context of PTSD. Florida Atlantic University Research Renewal. April 20, 2024, Stiles Nicholson Brain Institute, Jupiter, FL

Kealoha K, Toll L, **Cippitelli A**. Effects of Partial Agonist Opioid Ligands on Drug Taking and Seeking in Rodent Model. Neuroscience Research Day, December 9th 2022, University of Miami Miller School of Medicine.

Tarantino G, Fakhoury B, Kealoha K, **Cippitelli A**, Toll L. Effect of NOP Receptor Activation on Cephalic Allodynia as a Prominent Symptom of Migraine. 2022 The Art and Science of Pain Management Conference – Addiction. What you can do to help. October 29th 2022, Osher Lifelong Learning Institute, Florida Atlantic University.

Kealoha K, Toll L, **Cippitelli A**. Effects of Multitarget Opioid Ligand on Drug Taking and Seeking in Animal Model. 2022 The Art and Science of Pain Management Conference – Addiction. What you can do to help. October 29th 2022, Osher Lifelong Learning Institute, Florida Atlantic University.

Fakhoury B, Sturaro C, Tarantino G, Toll L, **Cippitelli A**. Pre-Clinical Effects of the Non-Intoxicating Cannabinoid Cannabidiol on an Experimental Migraine Model. 2022 The Art and Science of Pain Management Conference – Addiction. What you can do to help. October 29th 2022, Osher Lifelong Learning Institute, Florida Atlantic University.

Padron DF, Fakhoury B, Sturaro C, Toll L, **Cippitelli A**. Effects of cannabidiol (CBD) in acute and chronic migraine-like state. 12th Annual UG Research Symposium, April 8th 2022. Florida Atlantic University.

Martinez M, **Cippitelli A**, Zribi G, Cami-Kobeci G, Husbands S.M. Toll L. A bifunctional NOP/mu partial agonist that reduces cocaine self-administration in rats. Graduate Student Research Day, April 1st 2022, FAU Schmidt College of Medicine, Florida Atlantic University.

Cippitelli A, Martinez M, Zribi G, Cami-Kobeci G, Husbands S.M. Toll L. PPL-138 (BU10038): a bifunctional mu-NOP partial agonist that reduces cocaine taking and does not maintain self-administration behavior. Control/Tracking Number: 2021-S-3414-SfN. Society for Neuroscience, Annual Meeting 2021: November 13 – 17, Chicago, IL.

Toll L, Ozawa A, **Cippitelli A**. Involvement of NOP receptors, the fourth opioid receptor, on pain and drug abuse. The 10th IBRO World Congress of Neuroscience. Sept. 21-25, 2019. Daegu, Republic of Korea.

Toll L, **Cippitelli A**, Toll N, Crossman W, Khroyan T, Polgar WE, Lawson JA. In Vitro And In Vivo Profile Of PPL-103: A Mixed Opioid Partial Agonist Analgesic or Drug Abuse Medication. Assay Guidance Manual Symposium-The Opioid Crisis and the Future of Addiction and Pain Therapeutics: Opportunities, Tools, and Technologies. February 7-8, 2019. Natcher Auditorium, NIH Campus, Bethesda, MD.

Ozawa A, Brunori G, **Cippitelli A**, Toll N, Schoch J, Kieffer BL, Toll L. Spinal pain regulation of the N/OFQ-NOP receptor system in a spinal nerve injury mouse model. The International Narcotics Research Conference 2017 Chicago, IL, July 9-14, 2017. Abstract book.

Toll L, **Cippitelli A**, Toll N, Lawson JA, Crossman W, Khroyan T, Polgar WE. In vitro and in vivo profile of PPL-101 and PPL-103: mixed opioid partial agonist analgesics with low abuse potential. The International Narcotics Research Conference 2017 Chicago, IL, July 9-14, 2017. Abstract book.

Mercatelli D, Rimessi A, Bolognesi P, **Cippitelli A**, Kieffer BL, Toll L, Morari M. Nociceptin/orphanin FQ and dopamine receptors co-localization in the mouse basal ganglia. Society for Neuroscience, Nov. 12-16, 2016-San Diego, CA.

Brunori G, Scuppa G, **Cippitelli A**, Gorman M, Zaveri NT, Calò G, Toll L, Ciccocioppo R. NOP receptor antagonism decreases alcohol consumption: a preclinical evidence. The International Narcotics Research Conference 2016 Bath, UK, July 10-14, 2016. Abstract book.

Toll L, **Cippitelli A**, Toll N, Khroyan TK, Lawson J. PPL-101 and PPL-103 high affinity kappa partial agonists are potent analgesics with low abuse potential but without dysphoria. The International Narcotics Research Conference 2016 Bath, UK, July 10-14, 2016. Abstract book.

Wu J, Schoch J, Weger M, **Cippitelli A**, Toll L. A novel functional assay for both mu-opioid receptor and nociception receptor. SFN, Chicago, IL. Oct. 17-21, 2015.

Brunori G, **Cippitelli A**, Gorman M, McLaughlin JP, Ciccocioppo R, Toll L. NOP receptor selective antagonism decreases binge-like alcohol drinking in mice. "37° Congresso Nazionale della Società Italiana di Farmacologia", Napoli, Oct 27-30, 2015.

Brunori G, **Cippitelli A**, Gorman M, Toll L. The NOP receptor antagonist SB612111 but not the agonist AT-202 blocks ethanol drinking in mice. International Narcotics Research Conference, Jun 15-19, 2015. Phoenix, AZ.

Toll L, **Cippitelli A**, Brunori G, Gaiolini KA, Zaveri NT, Wu J, Giulianotti M, Armishaw C. Effect of $\alpha 4\beta 2$ and $\alpha 3\beta 4$ nAChR-directed compounds on co-self-administration of nicotine and alcohol. CRAN Workshop, NCI Shady Grove, Rockville, MD, May 12-13, 2015.

Toll L, **Cippitelli A**, Gaiolini K, Lawson J. PPL-101 a high affinity kappa partial agonist is a potent analgesic with low abuse potential but without dysphoria. Kappa Therapeutic Conference, Chapel Hill, NC, April 20th-24th, 2015.

Brunori G, **Cippitelli A**, Ozawa A, Schoch J, Gorman M, Gaiolini K, Zaveri NT, Ciccocioppo R, Toll L. N/OFQ system selective antagonism decreases binge-like alcohol drinking in mice. Society for Neuroscience, Nov. 15-19, 2014-Washington, DC. "Monday" Book, Poster BB10 #428.01.

Domi E, Ayanwuyi LO, **Cippitelli A**, Ubaldi M, Ciccocioppo R. Influence of a corticotropin-releasing factor receptor 1 gene polymorphism on anxiety-like behaviours of marchigian sardinian alcohol-preferring rats. Alcoholism and Stress Conference. *Alcohol*, 48 (2), 184-185, Abstract (P100), 2014.

Ciccocioppo R, de Guglielmo G, Melis M, De Luca M, Li H, **Cippitelli A**, Kallupi M, Stopponi S, Gaitanaris G, Demopulos G. Activation of PPARgamma by the anti-diabetic agent pioglitazone reduces opiate reinforcement and opiate-induced activation of the mesolimbic dopamine system. Society for neuroscience meeting. Oct. 13-18, 2012-New Orleans, Louisiana. 2012-S-8558-SfN. *Citations: 3*.

Ciccocioppo R, Stopponi S, de Guglielmo G, Kallupi M, **Cippitelli A**, Somaini L. PPARgamma receptor agonists: antidiabetic drugs with promising anti-alcohol properties in both animal models and humans. *Alcoholism: Clinical and Experimental Research*, Sep. 2012, vol. 36, Special Issue, Suppl. 2, Pag. 80A.

Stopponi S, Domi E, **Cippitelli A**, Ayanwuyi L, Brunori G, Kallupi M, de Guglielmo G, and Ciccocioppo R. Pioglitazone decreases nicotine self-administration and yohimbine-induced reinstatement of nicotine-seeking in Wistar rats. "16° Seminario Nazionale SIF, Dottorandi ed Assegnisti di Ricerca". Sep. 16-19, 2012-Rimini, Italy.

Ayanwuyi L, **Cippitelli A**, Stopponi S, Kallupi M, Roberto M, and Ciccocioppo R. Dysregulation of the extrahypothalamic corticotropin releasing factor (CRF) system and its role in anxiety- and relapse-like behaviours in Marchigian Sardinian alcohol preferring (msP) rats. "16° Seminario Nazionale SIF, Dottorandi ed Assegnisti di Ricerca". Sep. 16-19, 2012-Rimini, Italy.

de Guglielmo G, Li H, Stopponi S, **Cippitelli A**, Ubaldi M and Ciccocioppo R. Agonism at the PPAR γ receptors prevents the development of opiate addiction. "16° Seminario Nazionale SIF, Dottorandi ed Assegnisti di Ricerca". Sep. 16-19, 2012-Rimini, Italy.

Domi E, Stopponi S, Ubaldi M, **Cippitelli A**, Soverchia L, Li H, Ciccocioppo R. Chronic exposure to THC in adolescent male rats enhances stress-induced relapse to heroin seeking in adulthood.

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treatment of alcoholism. "Alcohol and Stress: A framework for future treatment strategies". May 6-8, 2008-Volterra, Italy. *Alcohol* S13.

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Heilig M, Hansson AC, **Cippitelli A**, Sommer WH, Fedeli A, Massi M, Ciccocioppo R. Validation of CRH1 receptors as a treatment target in alcohol dependence using alcohol preferring msP rats. 29th annual meeting of the Research Society on Alcoholism. Jun. 23-29, 2006-Baltimore, Maryland. *Alcoholism: Clinical and Experimental Research*, Abstract S78.

Hansson AC, **Cippitelli A**, Sommer WH, Bjork K, Terasmaa A, Fedeli A, Massi M, Heilig M, Ciccocioppo R. Interaction between corticotrophin-releasing hormone 1 receptor gene polymorphism and expression with environmental stress in release to alcohol seeking behaviour by rats selected for high ethanol preference. 29th annual meeting of the Research Society on Alcoholism Jun. 23-29, 2006-Baltimore, Maryland. *Alcoholism: Clinical and Experimental Research*, Abstract P482.

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Ciccocioppo R, Policani F, Fedeli A, Economidou D, **Cippitelli A**, Massi M. Reversal of Urocortin II induced anorexia by the nociceptin/orphanin FQ analogue Ro 64-6198. "33th Annual Meeting Society for Neuroscience" Nov. 8-12, 2003-New Orleans, Louisiana. Abstract Viewer/Itinerary Planner, CD-ROM.

Fedeli A, Policani F, Economidou D, **Cippitelli A**, Ciccocioppo R, Wichmann J, Massi M. Blockade of stress-, CRF- and Urocortin II-induced anorexia by the NOP receptor agonist Ro 64-6198. "VIII Convegno Monotematico SIF" Sep. 15, 2003-Camerino (MC), Italy. Abstract Book 2003.

Fedeli A, Economidou D, Policani F, **Cippitelli A**, Ciccocioppo R, Massi M. Nociceptin/orphanin FQ reduces ethanol self-administration in genetically selected marchigian sardinian alcohol-preferring rats, but not in heterogeneous Wistars. "VIII Convegno Monotematico SIF", Sep. 15, 2003-Camerino (MC), Italy. Abstract Book (pp17) 2003.

Ciccocioppo R, Economidou D, Fedeli A, **Cippitelli A**, Weiss F, Massi M. The role of different opioid receptor subtypes in the control of ethanol-seeking behavior and relapse. Scientific Meeting of the ESBRA, Sep. 11-14, 2003-Prague, Czech Republic; *Alcohol and Alcoholism*. 38 n°5; S09-04 pp 472, 2003.

Grants

- **Funded**

K01, PHS – NIH/NIAAA (\$901,530 total costs) Peripheral effectors in alcohol-induced stress-susceptibility and blood-brain barrier permeability. 12/1/2025 -11/30/2030.

Role: Co-Investigator (PD/PI L. Parise)

1R21NS136077-01, NIH/NINDS. (\$419,375 x 2 years). The involvement of GPR37L1 on a chronic migraine-like state. 07/10/2024-06/30/2026.

Role: PD/PI, mPIs: A. Cippitelli/J. Robishaw

1R01DA057961-01A1 NIH/NIDA (\$216,272/year x 5 years). Selective Targeting of Nicotinic Acetylcholine Receptor Subtypes for Cocaine Use Disorder. 03/01/24-12/31/28.

Role: Co-Investigator (PD/PI A. Riley)

1R41DA057430-01, NIH/NIDA (\$319,983), 05/15/2023-05/14/2024. (NCE until 05/14/2025) "Identification of Mixed NOP/mu partial agonists as lead compounds for treatment of methamphetamine use disorder".

Role: PD/PI, mPIs: A. Cippitelli/L. Toll

Award on behalf of the Pharmacotherapies for Alcohol and Substance Use Disorders Alliance (PASA), funded by the Congressionally Directed Medical Research Programs, Department of Defense (\$595,000), 01/01/2023-06/30/2024 (NCE until 12/31/24). Title "Evaluation of PPL-138, a NOP/mu partial agonist, for treatment of alcohol abuse in the context of PTSD".

Role: PI

2021 FAU Stiles-Nicholson Brain Institute Pilot Grant (\$20,000), 10/1/2021-6/30/2022. Title: "Epigenetic consequences of intermittent cocaine exposure in rats".

Role: PI

2021 Research Grant Award, Consortium for Medical Marijuana Clinical Outcomes Research (\$67,500), 7/1/2021-9/30/2022. Title "Investigating cannabidiol anti-headache actions through PPAR signaling".

Role: PI

USAMRAA (PR200224), Department of Defense (\$1,594,560 total costs), 06/01/2021-05/31/2024 (NCE until 05/31/25). Title "Investigation into NOP Receptor Agonists for the Treatment of Chronic Migraine".

Role: Co-Investigator

2019 Research Grant Award, Consortium for Medical Marijuana Clinical Outcomes Research (\$71,250), 12/1/2019-12/31/2020. Title "Cannabidiol: A potential treatment for migraine-like pain, negative emotion and photophobia".

Role: PI

R41DA044894, NIH/NIDA, 06/01/2018-01/31/2021, \$130,724. Title: The Kappa Partial Agonist PPL-103 as a Potential Cocaine Abuse Pharmacotherapy.

Role: Consortium PI

2018 Neuroscience Pilot Award Program, FAU Brain Institute (\$10,000), 05/30/2018-09/30/2019. Title "The Role of Nicotinic Receptors in the Dorsal Root Ganglia in a Model of Neuropathic Pain".

Role: PI

R01DA023281, NIH/NIDA, 09/01/17-6/30/22, \$380,310/year. Title: Mixed NOP/Mu compounds and the involvement of their receptors in analgesia.

Role: Co-Investigator

R01DA040882, NIH/NIDA (\$406,867/year); 07/01/16-06/30/20. Title "NPQ/Spexin the Endogenous Ligand for the Galanin Receptor 3".

Role: Co-Investigator

R44DA036968, NIH/NIDA; 09/30/15-09/29/17; Title "Novel selective alpha4beta2 nicotinic receptor antagonists for smoking cessation"

Role: Co-Investigator

R41AA025298, NIH/NIAAA (\$124,140); 09/28/16-09/27/17; Title "Discovery of alpha4beta2 Nicotinic Receptor Antagonists as Alcohol Abuse Medications".

Role: Consortium PI

- Not funded

1R01DA023281, NIH/NIDA (Total costs: \$3,852,623.85). Mixed NOP/mu Compounds and the Involvement of their Receptors in Analgesia. 2024-2029

Role: Co-I

1 R41 AA029886-01A1, NIAAA/NIH (\$259,613). Title "Dual ligands as an integrated therapy for alcohol use disorder". 09/01/2022-08/31/2023.

Role: PD/PI

1 R21 DA053423-01A1, NIH/NIDA (\$275,000); 04/01/2021-03/31/2023; Title "PPL-103: A Mixed Opioid Partial Agonist for Treatment of Methamphetamine Use Disorder".

Role: PI

Brain & Behavior Research Foundation, 2020 Young Investigator Grant Application:

“Chromatin Accessibility and Gene Expression Alterations in Chronic Pain-induced Anxiety- and Depression-like Phenotypes”, Submitted 03/18/2020. \$70,000 (2 years).

Role: PI.

2R42DA044894-02, NIH/NIDA, \$1,710,350. Title “The Kappa Partial Agonist PPL-103 as a Potential Cocaine Abuse Pharmacotherapy”.

Role: PI

Patents (1)

1. Toll L, **Cippitelli A**, Kelly S. 2023. Methods of Treating Post-traumatic Stress Disorder and Alcohol Use Disorder. Application No. 63/502,950, filed May/18/2023. Provisional Patent

Teaching/Mentoring

Spring	Neuroscience and Behavior (NSB 6020) Problem-Based Learning (PBL) Block 1 Back-up Facilitator
Fall 2024	Fundamentals of Biomedical Science (FBS 6031) Problem-Based Learning (PBL) Block 2 Facilitator
Spring 2024	Instructor for the course of Pharmacology (Course # GMS 6513-002; CRN 16328 – Pharmacology; Co-Instructor: Ajay Bommareddy)
Fall 2023	Co-Instructor for the course of Biomedical Concepts and Translational Applications (Course # GMS 6841-001; CRN 14662; Instructor: Jenny Wei)
Spring 2023	Co-Instructor for the Course of Human Genetics (Course #; PCB 6665; Instructor: Marc Kantorow)
2018-present	FAU mentoring: The applicant has been mentor or is currently mentoring various lab technicians (Gilles Zribi, Jennifer Schoch, Bianca Fakhoury, Ali Idriss, Ariana Perez), pre-doctoral fellows (Madeline Martinez, Kylie Kealoha, Stefania Volpe), one visiting fellow (Chiara Sturaro) and two undergraduate medical students (Daniel Padron, Matteo Virgili). This lab personnel are involved in drug self-administration and migraine studies. The applicant has supervised the research activity of Marco Ceraudo , a visiting fellow from the University of Camerino, Italy, who spent 6 months at FAU (07/01/2019-12/31/2019) as a volunteer, Megan Barnes , a lab tech who worked with Dr. Cippitelli for a 1.5-year period (2019-2020) and Katarzyna Targowska-Duda , a post-doctoral fellow from Poland. Katarzyna was hired for a period of 4 months in 2020 to contribute to the 2019 Research Grant Award funded by the Consortium for Medical Marijuana Clinical Outcomes Research.
2012-2018	Torrey Pines Institute mentoring: Supervision of the research activity of several undergraduate, graduate students, lab tech and other lab personnel including post docs (e.g., Drs. Brunori and Mercatelli).

- 2010-2012 **Lectures and Seminars** for the course **Pharmacological Methods**, Faculty of Pharmacy, University of Camerino, Italy.
- 2006-2010 **NIAAA mentoring:** Supervision of many post-baccalaureate students attending the NIH Intramural Research Training Award (IRTA) Program and master students in Pharmacy. Supervision of the research activity of several undergraduate and graduate students.

Service

- May 6-7
2025 Grant reviewer: NIDA Special Emphasis Panel ZDA1 SKM-S (M1). Omnibus Solicitation of the NIH, CDC and FDA for Small Business Innovation Research Grant Applications
- Jan 2025 External Evaluator: Doctoral Thesis of Michela Argentieri (University of Ferrara) "NLRP3 inflammasome as a new target for migraine treatment: a genetic and pharmacological study in mice".
- 2024 Evaluator of Master Thesis: Jamie Moubarak (FAU) "Fetal Microchimerism of the Eye Lens".
- Jun 2022 Co-Editor of the research topic "Opioids and Opioid Use Disorders" for *Frontiers in Pharmacology*.
- Apr 8 & 22,
2022 Attendance at "Entering Mentoring & Enhancing Cultural Awareness Training", a workshop developed at the University of Wisconsin Madison, designed to help becoming a more effective research mentor.
- 2021 Abstract Reviewer Cannabis Clinical Outcomes Research Conference (CCORC), Virtual Conference.
- 2015-present The applicant is on the Editorial Board of the journal *Frontiers in Psychiatry* since 2015 and is frequently reviewing papers for several neuroscience journals including *Addiction Biology*, *Neuropsychopharmacology*, *Pharmacology Biochemistry and Behavior*, *Behavioral Brain Research*, *Brain Research Bulletin*, *Brain Sciences*, *CNS Drugs*, *Cannabis and Cannabinoid Research*, *Science Advances*, *Frontiers in Behavioral Neuroscience*, *Genes Brain & Behavior*, *Pharmacological Research*, *British journal of pharmacology*
- 2014 International review member, National Commission for Scientific and Technological Research (CONICYT), Chile.
- 2011 External Evaluator: Doctoral Thesis of Maria Francisca Carvajal Ruiz (University of Almeria, Spain) entitled "Study of the effects of acute administration of organophosphate chlorpyrifos on neurobiological and behavioural responses to ethanol".

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Education

Doctor of Philosophy (August, 2009)
Purdue University, West Lafayette, IN
Major Emphasis: Health Communication
Minor Emphasis: Organizational Communication
Advisor: Susan E. Morgan, Ph.D.

Master of Arts in Education (May, 2001)
Seton Hall University, South Orange, NJ
Concentration: Instructional Design and Technology
Advisor: Rosemary Skeele, Ed.D.

Bachelor of Science in Occupational Therapy (May, 1986)
Kean College of New Jersey, Union, NJ
Major Emphasis: Psychosocial Rehabilitation
Secondary Emphasis: Physical Disabilities Rehabilitation

Academic Experience

Florida Atlantic University, Boca Raton, FL (2015-present)

Charles E. Schmidt College of Medicine

Department of Women's and Children's Health (2015-present)

- Associate Dean for Educational Affairs and Admissions (2023-present)
- Assistant Dean for Medical Education (2018-2023)
- Assistant Dean for Academic Affairs (2015-2018)
- Associate Professor of Obstetrics & Gynecology (2015-present)
- Interpersonal and Communication Skills Competency Director (2016-present)
- GME Ombudsperson (2017 – present)
- Liaison Committee on Medical Education (LCME) Faculty Accreditation Lead (2018-2020)

Indiana University School of Medicine, Indianapolis, IN (2009- 2015)

Department of Obstetrics and Gynecology (2009- 2015)

- Vice Chair for Education (2009-2015)
- Assistant Professor of Obstetrics & Gynecology (2009-2015)
- Acting Clerkship Director (December 2010-June 2012)
- Acting Director of Medical Student Education (May 2011- December 2011)
- Co-Investigator (2014-2016) Indiana University Health Values Fund for Education Grant: Patient Communication Skills Training Module for High School Health and Wellness (\$56,153, Kenneth H. Lazarus, MD- PI)
- Co-Investigator (2012-2013) Association of Professors of Gynecology and Obstetrics Grant: Development and Evaluation of a Clinical Reasoning Examination (\$9,950, Roger Smith, MD- PI)
- Co-Investigator (2009 – 2010) Behavioral and Social Science Integrated Curriculum Grant (1 K07 AR053812-01, \$1,250,000, Debra Litzleman, MD - PI)

Indiana University-Purdue University (IUPUI), Indianapolis, IN

Department of Communication Studies (2011-2015)

- Affiliate Faculty Member, Doctorate in Health Communication Program
- Taught: *Health Communication- 300-Level Capstone Course*

Purdue University, West Lafayette, IN (2005 - 2008)

Department of Communication

- Teaching Assistant: Introduction to Organizational Communication
- Research Assistant (Spring 2007 – Fall 2008) Show Us Your Heart: Point of Decision Grassroots and Media Campaign (D71HS08577-01-00, \$825,000, Tyler R. Harrison – PI)
- Research Assistant (Spring 2006 – Fall 2008) The Drive for Life: The Use of Just-in-Time Information Public Education and DMV Clerk Training on Donor Registrations and Family Notifications (R39OT07652-01-00, \$1,050,000, Susan E. Morgan - PI)
- Research Assistant (Fall 2004 – Fall 2007) The New Jersey Workplace for Life (R39OT03410-01-00, \$1,700,000, Susan E. Morgan – PI)
- Research Associate with the Regenstrief Center for Healthcare Engineering at Purdue (2006)
- Co-wrote \$1,000,000 grant application to the Department of Transplantation (DOT) for funeral director and organ donation study and campaign (April, 2006; not funded)

Kean University, Union, NJ (2001 - 2004)

Department of Communication

- Adjunct Faculty
- Developed and Taught: *Business & Technical Presentations*
Health Communication
- Taught: *Speech Communication as Critical Citizenship*

Seton Hall University, South Orange, NJ (2000 - 2002)

Department of Graduate Medical Education; Occupational Therapy Program

- Adjunct Faculty
- Level II Fieldwork Resource Advisor
- Developed and Taught: *Psychosocial Studies and Group Process I*
- Taught: *Clinical Integration Seminar I*

Union County College, Cranford, NJ (1995 to 2000)

Occupational Therapy Assistant Program

- Adjunct Faculty
 - Taught: *Adult Years*, Psychosocial section

Honors and Awards

Michael L. Friedland, MD Educational Leadership Award (2024)

- Given annually by the Charles E. Schmidt College of Medicine at Florida Atlantic University to a faculty member who epitomizes the attributes of Dr. Friedland, namely Integrity, Vision, Leadership and Dedication to Teaching.

Outstanding PBL Facilitator (2023)

- Nominated and selected by the Medical Student Awards Committee of the Charles E. Schmidt College of Medicine at Florida Atlantic University.

Bruce Rendina Professional Hero (2022)

- Palm Beach County Medical Society Services Heroes in Medicine award to a non-direct care provider, whose profession is an integral part of the health care system, who uses their knowledge and abilities to improve the health of local, national, or global communities in a tangible way

Visiting Professor (2018, September 26-27)

- PennState College of Medicine, PennState Health Milton S. Hershey Medical Center, Department of Obstetrics and Gynecology and Department of Medicine

Outstanding Associate Editor Award (2017)

- MedEdPORTAL: The Association of American Medical College Journal of Teaching and Learning Resources

Faculty Fellow (2017-2018)

- Liaison Committee on Medical Education (LCME)

Krieger Visiting Professor (2016, January 11-15)

- University of Hawaii, Department of Obstetrics and Gynecology and Women's Health, Honolulu, Hawaii

Outstanding Service Award (2015)

- The Indiana University School of Medicine award in recognition of outstanding service to the Office for Medical Student Affairs

National Communication Association (NCA) Film Festival Honorable Mention (2015)

- Awarded at the 101st Annual Convention for "The PACE-talk Module: Patient Communication Skills Training for High School Health and Wellness Classes."

Trustee Teaching Award (2014)

- The Indiana University Board of Trustees award to recognize outstanding teaching of a medical educator with a dedication to humanism and science in training medical students and residents.

Indy Pride Gary Brackett Volunteer of the Year Award (2013)

- In recognition for promoting the mission of Indy Pride, Inc. through service and dedication to educate, honor the history of the LGBT communities and celebrate the diversity of and create unity, in and between, the Lesbian, Gay, Bisexual, Transgender and Straight communities

IUPUI 2011-2012 Three Star Organization (2012)

- The Office of Student Involvement recognized Advocates for Sexual Equality for their Student Organization Leadership Development (SOLD)

Robert A. Munsick Scholar (2010 – 2011)

- Department of Obstetrics and Gynecology, Indiana University School of Medicine

Bilsland Dissertation Fellowship (2008-2009)

- College of Liberal Arts, Purdue University

Top Paper Award (2007)

- Health Communication Division of the National Communication Association Annual Meeting, for “The workplace partnership for life: The effectiveness of high- and low-intensity worksite campaigns to promote organ donation.”

Top Paper Award (2006)

- Health Communication Division of the National Communication Association Annual Conference Meeting, for “Entertainment (mis)education: The framing of organ donation in entertainment television.”

Interactive Media Format Award (2006)

- Scholar to Scholar Session of the National Communication Association Annual Meeting, for “Entertainment (mis)education: The framing of organ donation in entertainment television.”

Rose Young Award (August 19, 1999)

- Presented for the contributions helping to further Muhlenberg Regional Medical Center’s mission of contributing to the health of our community.

The Mental Health Association Award (May 19, 1999)

- Presented for extraordinary service to persons with mental illness in Union County, NJ.

Publications

Collamore, G., **DiCorcia, M.J.**, Nagpal, Y., Fiedler, L., Garone, M.A., DeMets, D.L., Maki, D.G., & Hennekens, C.H. (2024). Guidance for healthcare providers on newest guideline for over-the-counter drug treatment of mild symptoms of COVID-19. *The American Journal of Medicine*, 137(6), 490-493.

Mejia, M.C., Mitchell, J., Dumpa, M. Maki, D.G., **DiCorcia, M.**, Levine, R.S. & Hennekens, H. (2024). Emerging data in COVID-19 create urgent challengers for health providers: Updates on COVID-19 vaccine and Paxlovid. *Journal of the National Medical Association*, 116(2), 174-179.

Rubenstein, A., Wood, S.K., Jhumkhawala, V., **DiCorcia, M.J.**, Maki, Dennis, G., & Hennekens, C.H. (2023). Newest guidance and evidence for health care providers: COVID-19 and other vaccines. *The American Journal of Medicine*, 136(1), 3-5.

Tucker Edmonds, B., Hoffman, S.M., Laitano, T., McKenzie, F., Panoch, J., Litwiller, A., & **DiCorcia, M.J.** (2022). Evaluating shared decision-making in postpartum contraceptive counseling using objective structured clinical examinations. *Women’s Health Reports*, 3(1), 1029-1036.

Blanco, M., Prunuske, J, **Di Corcia, M.**, Learman, L., Mutcherson, R., & Huang, G. (2022). The DoCTRINE Guidelines: Defined Criteria To Report INnovations in Education. *Academic Medicine*, 97(5), 689-695.

Wood, S.K. & **Di Corcia, M.** (2020). Charles E. Schmidt College of Medicine at Florida Atlantic University. *Academic Medicine*, 95(9S), S99-S102.

- Tucker-Edmonds, B., Hoffman, S.M., Laitano, T., McKenzie, F., Panoch, J., Litwiller, A., & **Di Corcia, M.** (2020). Evaluating shared decision-making in trial of labor after cesarean counseling using objective structured clinical examinations. *MedEdPORTAL*, 16: 10891. https://doi.org/10.15766/mep_2374-8265.10891
- Tucker-Edmonds, B., McKenzie, F., Panoch, J., Litwiller, A., & **Di Corcia, M.** (2019). Evaluating shared decision-making in periviable counseling using objective structured clinical examinations. *Journal of Perinatology*, 39, 857-865.
- Litzelman, M. A., **Di Corcia, M. J.**, Cottingham, A. H., & Inui, T. S. (2019). Beyond the traditional curricula: Education for competencies in the social and behavioral sciences. In M.D. Feldman & J. F. Christiansen (Eds.), *Behavioral medicine: A guide for clinical practice* (5th ed.). Illinois: McGraw-Hill.
- Caceres, J.W., & **Di Corcia, M.J.** (2018). The impact of technology on the development of core entrustable professional activities (EPAs). *Medical Science Educator*, 28, 247-249.
- Pierson, R., Schnee, M. D., **Di Corcia, M.**, & Litwiller, A. (2016). Development of a medical student online case study curriculum: Cases in obstetrics and gynecology (COGs). *Obstetrics and Gynecology*, 128 Supplement, 44S.
- Drowos, J., Jacomino, M., **Di Corcia, M. J.**, & Learman, L. A. (2016, August). Using a donor-centered development model to engage community preceptors. *Society of Teachers of Family Medicine Messenger*. Retrieved September 5, 2016, from <http://www.stfm.org/NewsJournals/EducationColumns/August2016EducationColumn>
- Di Corcia, M. J.** & Learman, L. A. (2016). Changing the educational environment to better support professional identity formation. In R. L. Cruess, S. R. Cruess & Y. Steinert (Eds.), *Teaching medical professionalism: Supporting the development of a Professional Identity* (2nd ed.). New York: Cambridge University Press.
- Litzelman, M. A., **Di Corcia, M. J.**, Cottingham, A. H., & Inui, T. S. (2014). Beyond the traditional curricula: Education for competencies in the social and behavioral sciences. In M.D. Feldman & J. F. Christiansen (Eds.), *Behavioral medicine: A guide for clinical practice* (4th ed.). Illinois: McGraw-Hill. ISBN # 9780071767705.
- Petronio, S., **Di Corcia, M.**, & Duggan, A. (2012). Navigating ethics of physician-patient confidentiality: A communication privacy management analysis. *The Permanente Journal*, 16, 41-45.
- Harrison, T. R., Morgan, S. E., Chewning, L. V., Williams, E. A., Barbour, J. B., **Di Corcia, M. J.**, & Davis, L. A. (2011). Revisiting the worksite health campaigns: Evidence from a multi-site organ donation campaign, *Journal of Communication*, 61, 535-555.
- Morgan, S. E., Harrison, T. R., Chewning, L. V., **Di Corcia, M. J.**, & Davis, L. A. (2010, October). Worksite organ donation campaigns that work. *Communication Currents*, 5(5). Retrieved November 9, 2010, from <http://www.natcom.org/CommCurrentsArticle.aspx?id=2147483755>
- Morgan, S.E., Harrison, T. R., Chewning, L. V., **Di Corcia, M.**, & Davis, L. A. (2010). The Workplace Partnership for Life: The effectiveness of high- and low-intensity worksite campaigns to promote organ donation. *Communication Monographs*, 77, 341-356.

- Harrison, T. R., Morgan, S. E., King, A.J., **Di Corcia, M. J.**, Williams, E.A., Ivic, R.K., & Hopeck, P. (2010). Promoting the Michigan organ donor registry: Evaluating the impact of a multi-faceted intervention utilizing media priming and communication design. *Health Communication, 25*, 700-708.
- Harrison, T. R., Morgan, S. E., & **Di Corcia, M. J.** (2008). Effects of information, education, and communication training about organ donation for gatekeepers: Clerks at the Department of Motor Vehicles and organ donor registries. *Progress in Transplantation, 18*, 301-309.
- Morgan, S. E., Harrison, T. R., Chewning, L., Davis, L., **Di Corcia, M.** (2007). Entertainment (mis)education: The framing of organ donation in entertainment television. *Health Communication, 22*, 143-151.
- Floyd, K., Sargent, J. E., & **Di Corcia, M.** (2004). Human affection exchange: VI. Further tests of reproductive probability as a predictor of men's affection with their adult sons. *Journal of Social Psychology, 144*, 191-206.
- Sargent, J., & **Di Corcia, M.** (2002). Would you like to meet in person: Gay men's compliance-gaining strategies in Internet chatrooms. *Journal of the Illinois Speech and Theatre Association, LXXI*, 36-45.

Conference Presentations

- Collamore, G., Nagpal, Y., Fiedler, L., Garone, M.A., DeMets, D.L., Maki, D.G., Hennekens, C.H., & **DiCorcia, M.J.** (2023, July). Updates for health care providers on benefits and risks of acetaminophen and various anti-inflammatory drugs for COVID-19. Poster presented to the Florida Medical Association, Orlando, FL.
- Huang, G., Blanco, M., Prunuske, J., **Di Corcia, M.**, Mutcheson, B., & Learman, L. (2021, August). The process of developing a reporting checklist for curricular innovations. Presentation to The Association for Medical Education in Europe 2021 Virtual Conference.
- Wood, S., Louda, D., Lizotte-Waniewski, M., **Di Corcia, M.**, Goldman, S., & Schwartz, M. (2019, March). Enhancing student preparation for clerkships through student-led problem-based learning in the pre-clinical years. Poster presented to the Southern Group on Educational Affairs Annual Meeting, Orlando, FL.
- Di Corcia, M.** (2018, November). Moving beyond honors: Should all medical schools adopt pass/fail grading for the clinical years? Focused Discussion Lunch facilitated at Learn Serve Lead 2018: The Association of American Medical Colleges Annual Meeting, Austin, TX.
- Wood, S., Lizotte-Waniewski, M., **Di Corcia, M.**, Goldman, S., Schwartz, M., & Louda, D. (2017, November). A developmental competency-informed approach to problem-based learning. Poster presented to the Association of American Medical Colleges Annual Meeting, Boston, MA.

- Taylor, C., Lee, K., **Di Corcia, M.**, Alston, W., Pierson, R., & Kasper, K. (2017, September). Improving the hysterectomy discussion: A pilot study. Poster presented to the American Congress of Obstetricians and Gynecologists District V, VIII & IX Annual Meeting, Anaheim, CA.
- LaSota, E., **Di Corcia, M.**, & Daggy, J. (2017, May). Obstetrician/gynecologists' attitudes, knowledge and caring of lesbian, bisexual, and transgender patients. Poster presented to the American Congress of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting, San Diego, CA
- Di Corcia, M. J.**, Lizotte-Waniewski, M., Caceres, J. W., Markowitz, S. L., & Wood, S. K. (2017, April). A holistic approach to student success: Early identification and remediation of competency-based issues in "at risk" students. Poster presented at the 2017 Joint SGEA/SGSA/SOSR Regional Meeting, Charlottesville, VA.
- Tucker-Edmonds, B, McKenzie, F., Austgen, M., Panoch, J., Litwiller, A., & **Di Corcia, M.** (2016, October). Evaluating shared decision-making in trial of labor after cesarean counseling using objective structured clinical examinations. Poster presented to the 38th Annual North American Society for Medical Decision Making, Vancouver, Canada.
- LaSota, E., **Di Corcia, M.**, & Daggy, J. (2016, August). Obstetrician/gynecologists' attitudes, knowledge and caring of lesbian, bisexual and transgender patients. Poster presented to the American Congress of Obstetricians and Gynecologists Annual Joint District I, V, VI Meeting, Toronto, Canada.
- Pierson, R.C., Schnee, D.M., **Di Corcia, M.J.**, & Litwiller, A.R. (2016, March). Development of a medical student online case study curriculum: Cases in obstetrics and gynecology (COGs). Abstract presented to the Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, New Orleans, LA.
- Panoch, J., Cegala, D.J., Lazarus, K., Bute, J.J., **Di Corcia, M.**, McKenzie, F., Wieczorek, S.M., & Anderson, P. (2015, November). The PACE-talk module: Patient communication skills training for high school health and wellness classes. Film presented to the National Communication Association, Las Vegas, NV. (**Honorable Mention**)
- Petronio, S., **Di Corcia, M. J.**, Sargent, J. E., Steuber, K. R., Bute, J. J., Caughlin, J. P., Child, J. T., Duggan, A. P., & Hammonds, J. R. (2014, November). Communication privacy management preconference "workshop" research ideas: Bringing the past forward. Preconference presented to the National Communication Association, Chicago, IL.
- Fisher, T., **Di Corcia, M.**, Cook, N., DeJulio, B., Garvilovic, S., & Kurasch, J. (2014, April). Leadership in Occupational Therapy. Paper presented to the American Occupational Therapy Association, Baltimore, MD.
- Smith, R., **Di Corcia, M.**, Litwiller, A., & Learman, L. L. (2014, February). APGO Medical Endowment Fund grant: A new way to evaluate clinical reasoning. Breakout session presented to the Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, Atlanta, GA.

- Di Corcia, M.**, Reynolds, R., Cahill, E., Bylund, C., Sargent, J., & Bute, J. J. (2013, November). Connecting health communication and medical education scholarship: Opportunities abound at the Association of American Medical Colleges' MedEdPORTAL. Panel presented to the National Communication Association, Washington, DC.
- Morgan, S. E., **Di Corcia, M.**, Harrison, T. R., & Zhou, Q. (2013, November). Funeral directors' attitudes and knowledge about organ donation. Paper to be presented to the National Communication Association, Washington, DC.
- Smith, R. P., **Di Corcia, M.**, & Litwiller, A. (2013, March). Clinical reasoning evaluation on a dime: OSCE, script concordance, or something new. Breakout session presented to the Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, Phoenix, AZ.
- Abernathy, M. P., & **Di Corcia, M.** (2013, March). Using communication OSCEs to assess resident competency and guide program curriculum. Poster presented to the Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, Phoenix, AZ.
- Di Corcia, M. J.**, Sargent, J. E., & Child, J. T. (2012, November). Resistance privacy rule control: Who's in the driver's seat? Paper presented to the National Communication Association, Orlando, FL.
- Holley, M., **Di Corcia, M. J.**, & Little, J. T. (2012, October). LGBT mini-grant program: Queering the campus. Poster presented to the Professional and Organizational Development Network in Higher Education Association Annual Meeting, Seattle, WA.
- Petronio, S., Duggan, A., **Di Corcia, M.**, Sargent, J., Child, J., Bute, J., & Bach, B. (2012, September). Medical students' first look at managing disclosure and confidentiality. Paper presented to the European Association for Communication in Healthcare International Conference on Communication in Healthcare, St. Andrews, Scotland.
- Petronio, S., Duggan, A., **Di Corcia, M.**, & Bach, B. (2012, September). Navigating physician-patient confidentiality: Ethics of stakeholder disclosure challenges. Paper presented to the European Association for Communication in Healthcare International Conference on Communication in Healthcare, St. Andrews, Scotland.
- Di Corcia, M.** (2012, July). Advancing applications of the Communication Privacy Management perspective: My way or the highway: Is resistance futile? Symposia presentation presented to the International Association of Relationship Research Conference, Chicago, IL.
- Abernathy, M. P., & **Di Corcia, M. J.** (2012, March). Creating an annual OSCE/OSATS (objective structured clinical exam/objective structured assessment of technical skills) to assess competency in interpersonal and communication skills, patient care and professionalism. Round table presented to the Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, Orlando, FL.

- Kasper, K. M., **Di Corcia, M. J.**, & Abernathy, M. P. (2012, March). The angry patient: Objectively evaluating obstetrics and gynecology residents' perceptions of communication competency and professionalism. Poster presented to Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics, Orlando, FL.
- Litzelman, D. K., Cottingham, A. H., **Di Corcia, M. J.**, & Inui, T. S. (2011, November). Impact of interactive mini-curriculum in family violence. Poster presented to Association of American Medical Colleges Annual Meeting, Denver, CO.
- Di Corcia, M. J.**, Holley, M., & Elkins, J. (2011, October). Best Practices in Lesbian, Gay, Bisexual and Transgender Admission. Breakout session presented to Indiana Association for College Admissions Counseling Annual Meeting, Indianapolis, IN.
- Petronio, S., Duggan, A., & **Di Corcia, M. J.** (2011, April). Recognizing challenges in patient disclosure about disability: An examination of medical students' reflection about interactions with patients with visibly-apparent disabilities. Paper presented to DC-Area Health Communication Conference, Fairfax, VA.
- Di Corcia, M. J.**, & Abernathy, M. P. (2011, March). Co-constructing reality: Interpreting student behavior and providing feedback. Breakout session presented to Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics Annual Meeting, San Antonio, TX.
- Mikhail, L. M., **Di Corcia, M. J.**, & Marcus, P. S. (2011, March). Priming the pump: Teaching the learner how to learn. Breakout session presented to Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics Annual Meeting, San Antonio, TX.
- Di Corcia, M.** (2011, January). Impression management: The foundation of professionalism from medical school through residency. Round table presented to Association of Professors of Gynecology and Obstetrics Faculty Development Seminar, Amelia Island, FL.
- Afifi, T., Petronio, S., Koerner, A., Dailey, R., Basden-Arnold, L., & **Di Corcia, M.** (2009, November). Let's talk about sex: Methodological and theoretical issues in the field of family sexual communication. Panel presented to National Communication Association, Chicago, IL.
- Di Corcia, M.**, & Morgan, S. (2009, November). What shapes funeral directors' knowledge and attitudes toward organ donation? A pragmatic and philosophical conflict over promoting donation. Paper presented to National Communication Association, Chicago, IL.
- Harrison, T., Morgan, S., Chewning, L., Williams, L., Barbour, J., **Di Corcia, M.**, & Davis, L. (2009, November). Revisiting the worksite in worksite health campaigns: Evidence from a multi-site organ donation campaign. Paper presented to National Communication Association, Chicago, IL.

- Harrison, T., Morgan, S., King, A., **Di Corcia, M.**, Williams, E., Ivic, R., & Hopek, P. (2009, November). Utilizing media priming and design perspectives to promote joining the Michigan Organ Donor Registry: Evaluating the impact of a multi-faceted intervention. Paper presented to National Communication Association, Chicago, IL.
- Di Corcia, M.** (2008, September 28). The potential power of identification in promoting condom use: Assessing the effect of imprinting condoms with organizationally significant symbols on the behavioral intention of fraternity-identified males to use condoms. Paper presented to the Organizational Communication-Mini Conference, West Lafayette, IN.
- Morgan, S. E., Harrison, T. R., Chewning, L. V., **Di Corcia, M. J.**, & Davis, L. A. (2007, November). The workplace partnership for life: The effectiveness of high- and low-intensity worksite campaigns to promote organ donation. Paper presented to National Communication Association, Chicago, IL. (**Top Paper**).
- Harrison, T. R., Chewning, L. V., & **Di Corcia, M. J.** (2007, November). What goes up, must come down: Organizational turmoil and organizational commitment. Paper presented to National Communication Association, Chicago, IL.
- Di Corcia, M.** (2006, November). Inducing relationship fears and examining the role of identity in fear campaigns targeting college-age young adults to promote condom use and compliance: Enhancing susceptibility and efficacy. Paper presented to National Communication Association, San Antonio, TX.
- Morgan, S. E., Harrison, T. R., Chewning, L., Davis, L., & **Di Corcia, M.** (2006, November). Entertainment (mis)education: The framing of organ donation in entertainment television. Scholar to Scholar Session presented to National Communication Association, San Antonio, TX. (**Top Paper Award & Interactive Media Format Award**).
- Di Corcia, M.** (2006, April). Collaborating and grant writing in health communication. Panel presented to Central States Communication Association, Indianapolis, IN.
- Sargent, J., & **Di Corcia, M.** (2004, November). Disclosure as strategic compliance gaining: Chatroom use by gay men and meeting satisfaction. Paper presented to National Communication Association, Chicago, IL.
- Sargent, J., Bryant, L., Petronio, S., **Di Corcia, M.**, & Cole, T. (2004, July). Paradox: Management of requests for private information from family members. Poster presented to International Association of Relationship Research, Madison, WI
- Sargent, J., & **Di Corcia, M.** (2002, April). Who's driving the bus in the basic speech communication course? Technology or content. Panel presented to Eastern States Communication Association, New York, NY.
- Sargent, J., & **Di Corcia, M.** (2002, March). Would you like to meet in person? Gay men's compliance gaining strategies in Internet chatrooms. Paper presented to Western States Communication Association, Long Beach, CA.
- Di Corcia, M. (1996, October). The model of self-esteem and addictions recovery. Paper presented to the New Jersey Occupational Therapy Association 23rd Annual Conference Committee, Edison, NJ.

Invited Presentations

Di Corcia, M. (2023, October). Building a strong MedEdPORTAL submission: Best practices and common pitfalls. Virtual Faculty Development Event presented at the request of Dr. Jeannine Nonailada, Assistant Dean for Faculty Development and Mentoring, NYU Grossman Long Island School of Medicine, Virtual.

Di Corcia, M., Jones, M. & Van der Put, E. (2021, September). Realizing institutional values of equity and inclusion: Integrating a DEI plan in alignment with the institution's strategic plan. Presentation presented at the request of the National Association of College and University Business Officers 2021 Planning & Budgeting Forum, Virtual.

Di Corcia, M. J. (2021, May). Creating a clinical learning environment that promotes professionalism/role recognition: It's all about communication! Virtual Grand Rounds presented at the request of Dr. Abigail Litwiller, Associate Dean for Graduate Medical Education/Designated Institutional Officer, University of Illinois at Chicago, IL.

Di Corcia, M. J. (2021, March). Creating a clinical learning environment that promotes professionalism/role recognition: It's all about communication! Virtual Grand Rounds presented at the request of Dr. Bonny L. Dickinson, Associate Dean for Faculty Affairs, Mercer University School of Medicine, GA.

Di Corcia, M. J. (2021, February). Diversity in Higher Education in 2021: A Virtual Town Hall Discussion. Panelist at the request of Dr. Michael J.L. Smith, FAU Chapter of the Student National Medical Association, Charles E. Schmidt College of Medicine at Florida Atlantic University, Boca Raton, FL.

Di Corcia, M. J. (2018, May). The Anatomy of Anger: De-Escalating the Angry Patient. Grand Rounds presented at the request of Dr. Mary Stephenson, Theresa S. Falcon-Cullinan Professor and Head, Department of Obstetrics and Gynecology, University of Illinois at Chicago, IL.

Di Corcia, M. J. (2017, April). Creating a clinical learning environment that promotes professionalism/role recognition: It's all about communication! Grand Rounds presented at the request of Dr. Mary Stephenson, Theresa S. Falcon-Cullinan Professor and Head, Department of Obstetrics and Gynecology, University of Illinois at Chicago, IL.

Di Corcia, M. J. (2017, April). Impression management: The link between behavior, professionalism/role recognition and clinical success (it's all about communication!) Intercession presented at the request of Dr. Suzanne Minor, Director of Clinical Faculty Development, Florida International University Herbert Wertheim College of Medicine, Miami, FL.

Di Corcia, M. J. (2017, March). Medical education: The intersection of art, science, politics and the beliefs of society. Presented to the Medical Education Clerkship Coordinators (MECCOG), Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics (CREOG/APGO) Annual Meeting, Orlando, FL, at the request of Lisa Kellett, University of Hawaii.

- Di Corcia, M. J. (2017, February). Medical education: The intersection of art, science, politics and the beliefs of society. Continuing Medical Education presented at the request of Memorial Health Care System, Hollywood, FL.
- Di Corcia, M. (2016, February). Clinical educator 2016: Creating a clinical learning environment that promotes, utilizes and embraces feedback. Continuing Medical Education presented at the request of Memorial Health Care System, Hollywood, FL.
- Di Corcia, M. (2016, 2015 & 2014, June). Impression management: The key to interpreting learner behavior & promoting professionalism/role recognition (*It's all about communication*). Intercession presented at the request of Dr. Robert W. Neel, Chair M3/4 Curriculum Committee, University of Cincinnati College of Medicine, Cincinnati, OH.
- Di Corcia, M., Kathman, K., & Carpenter, D. L. (2015, 2014, 2013, 2012 & 2011, April). Occupational therapy management in today's health and community systems. Round Table presented at the request of Corie Chaplin, Department of Occupational Therapy, Indiana University School of Health and Rehabilitation Sciences, Indianapolis, IN.
- Di Corcia, M. (2015, March). Medical education: The intersection of art, science, politics and the beliefs of society. Presented at the request of Dr. Thomas Fisher, Department of Occupational Therapy, Indiana University School of Health and Rehabilitation Sciences, Indianapolis, IN.
- Di Corcia, M. J. (2015, March). Impression management: The philosophical key to promoting professionalism/role recognition in medical students and communication skills training in giving/accepting feedback. Presented to the Medical Education Clerkship Coordinators (MECCOG), Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics (CREOG/APGO) Annual Meeting, San Antonio, TX, at the request of Lisa Kellett, University of Hawaii.
- Di Corcia, M. (2014, November). Creating a learning environment that promotes, utilizes and embraces feedback through theory-based communication skills training on how to give and accept feedback. Grand Rounds presented at the request of Dawn Kelly, M.Ed., Education Specialist, Good Samaritan Hospital/TriHealth, Cincinnati, OH.
- Di Corcia, M. (2014, March). Part 1: Impression management: The key to interpreting learner behavior and promoting professionalism. Part 2: Impression management and communication skills training: Learning to give feedback and training learners to accept it. Grand Rounds presented at the request of Dr. Amy Thompson, Department of Obstetrics and Gynecology, University of Cincinnati College of Medicine, Cincinnati, OH.
- Di Corcia, M. (2014, March). My way or the highway: Is resistance futile? Resistance privacy rule control. Communication Week Panel: The Language of Privacy Management presented at the request of Dr. Kim White-Mills, Department of Communication Studies, Indiana University- Purdue University Indianapolis, IN.
- Di Corcia, M. (2014 & 2012, March). Patient-provider communication skills training. Presented at the request of Dr. Elizabeth Williams, Communication Studies, Colorado State University, Fort Collins, CO.

- Di Corcia, M. & Powell, K. (2014, February). Medical school expansion: Exploring the trials and best-practices for training an increased number of medical students. Presented to the Medical Education Clerkship Coordinators (MECCOG), 2014 Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics (CREOG/APGO) Annual Meeting, Atlanta Georgia, at the request of Dr. Peter Marcus, Yale New Haven Health, Bridgeport, CT.
- Di Corcia, M. (2013, April). Provider communication with patients and families. Health Communication and Family Dynamics: Beyond the Provider-Patient Relationship Mini-Conference presented at the request of Dr. Steve R. Wilson, Brian Lamb School of Communication, Purdue University, West Lafayette, IN.
- Di Corcia, M. (2012, September). Medical education in the 21st century: Evaluating and training medical students, residents and physicians in communication. Presented at the request of Dr. Susan E. Morgan, Department of Communication, Purdue University, West Lafayette, IN.
- Di Corcia, M. (2012, March). Medical education training in communication philosophy and theory. Anatomy- Education Track Doctoral Journal Club presented at the request Dr. Patricia Ann Wade, Department of Anatomy and Cell Biology, Indiana University School of Medicine, Indianapolis, IN.
- Di Corcia, M. (2012, February). Impression Management: The key to interpreting learner behavior, providing feedback and training learners to accept feedback. Grand Rounds presented at the request of Dr. Jeff Peipert, Department of Obstetrics and Gynecology, Washington University School of Medicine, St. Louis, MO.
- Di Corcia, M. (2012, February). Co-construction of reality: How communication really shapes our perceptions of the world around us. Resident didactic presented at the request of Dr. Tammy Sonn, Department of Obstetrics and Gynecology, Washington University School of Medicine, St. Louis, MO.
- Di Corcia, M. (2011, June). The disengaged learner. Presented at the request of Dr. Eric Strand, Department of Obstetrics and Gynecology, St. Vincent's Hospital, Indianapolis, IN.
- Di Corcia, M. (2010, October). Theoretical framework, programmatic considerations and points of intervention: Recommendations for treating prenatal and postnatal substance abuse in women. Presented at the request of Marsha Glass, Indiana State Department of Health, Indianapolis, IN.
- Di Corcia, M., & Petronio, S. (2010, August 5-6). Faculty development workshop: Communication in occupational therapy. Presented at the request of Dr. Thomas Fisher, Department of Occupational Therapy, Indiana University School of Health and Rehabilitation Sciences, Indianapolis, IN.
- Di Corcia, M. (2010, May). A model of self-esteem and three fears in addiction: Treating addiction in pregnancy. Presented at the request of Marsh Glass, Prenatal Substance Use Prevention Program Directors, Indianapolis, IN.
- Bird, J., Morrical, D. G., **Di Corcia, M.**, & O'Hara, L. L. S. (2010, February). Communicating with colleagues about professionalism: A panel discussion. Presented at the request Linda Daniel, Ball Memorial Hospital, Muncie, IN.

- Appelgate, J. L., **Di Corcia, M.**, & Bergman, A. (2010, January). Alternate career tracks for communication Ph.D.s. Presented at the request of Dr. Howard Sypher, Department of Communication, Purdue University, West Lafayette, IN.
- Di Corcia, M. (2007, June). Persuasion: Theory to practice. Presented at the request of Dr. Jack E. Sargent, Department of Communication, Kean University, Union, NJ.
- Di Corcia, M. (2006, February). An untold story? Doing funded qualitative research. Presented at the request of Dr. Donna Enersen, Education Department of Curriculum and Instruction, Purdue University, West Lafayette, IN.
- Di Corcia, M. (2004, December). Advocating safe sex in college: Examining campaign strategy and Psychological Reactance Theory. Presented at the request of Health Education Services, Rutgers, The State University of New Jersey, New Brunswick, NJ.
- Di Corcia, M. (2004, June). Substance abuse: From addiction to recovery. Presented at the request of Seton Hall University's Occupational Therapy Program, South Orange, NJ.
- Di Corcia, M. (2004, April). Substance abuse and the cognitive-behavioral perspective. Presented at the request of The University of Scranton's Occupational Therapy Program, Scranton, PA.
- Di Corcia, M. (2003, May; 2002, March). Substance abuse and the analytic perspective. Presented at the request of The Valley Hospital's National Registry Paramedic Refresher Program, Ridgewood, NJ.
- Di Corcia, M. (2002, April). Computer mediated communication: The influence and role of CMC in the delivery of health care services and the recovery process. Presented at the request of Seton Hall University's Conference on Technology, So. Orange, NJ.
- Di Corcia, M. (2002, March). Stress management and the health care provider. Presented at the request of Muhlenberg Regional Medical Center's National Registry Paramedic Refresher Program, Plainfield, NJ.
- Di Corcia, M. (1995-1999). Assertiveness training, Occupational Therapy Assistant Program, Union County College.
- Di Corcia, M., & Swarbrick, P. (1999, May). Group process and conflict resolution. Presented at the request of the Federal Department of Substance Abuse and Mental Health Grants, Bethesda, MD.
- Di Corcia, M. (1999, February). The model of self-esteem and addictions recovery. Presented at the request of the New Jersey Nursing Students, Inc. 47th Annual Conference, Atlantic City, NJ.
- Di Corcia, M. (1999, February). The heart of occupational therapy. Presented at the request of the Student Occupational Therapy Association of Dominican College, Orangeburg, NY.
- Di Corcia, M. (1998, February). Resolving office conflict: The manager's role. Presented at the request of Post-Anesthesia Nurse Manager Association, Plainfield, NJ.
- Di Corcia, M. (1997, September/October). Resolving office conflict: OSHA presentation on work place violence. Presented at the request of Muhlenberg Regional Medical Center, Plainfield, NJ.

- Di Corcia, M., Swarbrick, P., Tewfik, D. (1997, June/September). Occupational therapy's role in contemporary psychiatric practice. Presented at the request of Dominican College, Occupational Therapy Program, Orangeburg, NY.
- Di Corcia, M. (1997, April). An overview of the mental health system. Presented at the request of the Health Care Systems course, Trenton State College, Ewing, NJ.
- Di Corcia, M. (1997, February). The model of self esteem and three fears. Presented at the request of the Student Occupational Therapy Association of Kean College of New Jersey, Union, NJ.
- Di Corcia, M. (1995, May). Resolving office conflict: Dynamics and resolution. Presented at the request of PAHCOM: Professional Association of Health Care Office Managers, Plainfield, NJ.
- Di Corcia, M. (1993, February/April/September; 1992, May/June/September; 1991, July/October). Behavior modification and weight loss. Presented at the request of Muhlenberg Regional Medical Center's Weight Loss Program, Plainfield, NJ.

Invited Lectures

Impression Management

- Indiana University School of Medicine, Global Longitudinal Intercession Curriculum (2015, 2014, 2013, 2012, 2011, & 2010, June)

Sexual Interviewing: Managing and Eliciting Private Information

- Indiana University School of Medicine, MSII (2015, April, 2014, March, 2013, March, 2012, March, 2011, November; 2010, November; 2009, December)

Theories of Persuasion and Social Influence

- Indiana University School of Medicine, Department of Obstetrics & Gynecology Residency Program (2014, August; 2013, October; 2011, March; 2011, February)

De-Escalating the Angry Patient

- Indiana University School of Medicine, Department of Obstetrics & Gynecology Clerkship (2010-2015)

Social Construction of Reality, Impression Management and Accepting Feedback

- Indiana University School of Medicine, Obstetrics & Gynecology Clerkship (2010-2015)

Work/Life Balance

- Di Corcia, M. J., & Bell, M. A., Indiana University School of Medicine, Global Longitudinal Intercession Curriculum (2013, October)
- Di Corcia, M. J., Indiana University School of Medicine, Global Longitudinal Intercession Curriculum (2012, October)
- Di Corcia, M. J. & Schellinger, M., Indiana University School of Medicine, Global Longitudinal Intercession Curriculum (2011, October)
- Mikhail, L. M., & **Di Corcia, M. J.**, Indiana University School of Medicine, Global Longitudinal Intercession Curriculum (2010, October)

Qualitative Research: A Systematic Empirical Inquiry into Meaning

- Indiana University School of Medicine, Department of Obstetrics & Gynecology Residency Program (2011, October)

AIDET Communication Skills Training

- Indiana University School of Medicine, Department of Obstetrics & Gynecology Residency Program (2011, June)

Substance Abuse and Pregnancy

- Nocon, J. J., & **Di Corcia, M. J.**, Indiana University School of Medicine, Department of Obstetrics & Gynecology Residency Program (2011, January)

A Model of Self-Esteem: From Disease to Recovery

- Dominican College, Occupational Therapy Program (2002, June; 2001, February; 2000, June/ September; 1999, June/ September/ October)
- Seton Hall University, Occupational Therapy Program (2002, March; 2001, March; 2000, March; 1999, February; 1998, February)
- New York University, Occupational Therapy Program (1997, November; 1996, December; 1995, December)
- Union County College, Occupational Therapy Assistant Program (1994, November)
- Muhlenberg Regional Medical Center's School of Nursing (1993 - 2004, February/ October)

The Analytic Use of Art

- Seton Hall University, Occupational Therapy Program (2001, March)
- Dominican College, Occupational Therapy Program (2001, February; 2000, October; 1999, June/ September/ October)
- Muhlenberg Regional Medical Center, School of Nursing (1996, January/ October)

Behavior Management Techniques for the Assaultive Patient

- Union County College, Occupational Therapy Assistant Program (1995-1999)
- Muhlenberg Regional Medical Center, Mobile Intensive Care Team (1995, March)
- Muhlenberg Regional Medical Center, In-Patient Psychiatric Unit (1993-2004)

Assertiveness Training

- Union County College, Occupational Therapy Assistant Program (1995 -1999)

Stress Management

- Urban Women's Center, YWCA, Plainfield, New Jersey (1997, May)
- Muhlenberg Regional Medical Center, Pulmonary Rehabilitation (1995, November)
- Professional Association of Health Care Office Managers (1994, May)
- Muhlenberg Regional Medical Center, Diabetes Center (1994, February)
- Muhlenberg Area Rescue Squad Council Recertification Program (1992, August)
- The Caregivers-Aging Issues Support Group, Plainfield, New Jersey (1991 to 2000, April/ September/ November)

Professional Service

- Editorial Board, *MedEdPORTAL*, Association of American Medical Colleges (2025)
- Medical Education Endowment Fund Grant Program Review Task Force Chair, Association of Professors of Gynecology and Obstetrics (2023)
- Awards Selection Committee, Association of Professors of Gynecology and Obstetrics (2021-2026)
- Evaluation Task Force, *MedEdPORTAL*, Association of American Medical Colleges (2021)
- Manuscript Reviewer, *Women's Health Reports* (2021 – present)
- Manuscript Reviewer, *Academic Medicine* (2019 – present)
- Professionalism Multidisciplinary Milestones Group, Accreditation Council for Graduate Medical Education and American Board of Medical Specialties (2016 – 2017)
- Manuscript Reviewer, *Journal of General Internal Medicine* (2013-present)
- Editorial Board, *MedEdPORTAL*, Association of American Medical Colleges (2013-2016)
- Manuscript Reviewer, *The Permanente Journal* (2012-present)
- Special Issue Editorial Board, “Families and Communication Privacy Management”, *Journal of Family Communication* (2012).
- Associate Editor, *MedEdPORTAL*, Association of American Medical Colleges (2011-2025).
- Manuscript Reviewer, *MedEdPORTAL*, Association of American Medical Colleges (2011-present).
- Manuscript Reviewer, *Journal of Health Communication International Perspective* (2011-present).
- Distinguished Book Award Committee, National Communication Association, Health Communication Division (2010).
- Distinguished Article/Chapter Award Committee, National Communication Association, Health Communication Division (2010).
- Annual Conference Proposal Reviewer, National Communication Association, Health Communication Division (2010 - 2015).
- Manuscript Reviewer, *Health Communication* (2009 – present)
- Health Communication Board Graduate Student Representative for National Communication Association's Health Communication Division (2007-2008)
- Panel Chair. (2005, July). The type and effect of confidentiality training experiences on physician's practice. International Association of Relationship Research, Indianapolis, IN.
- Panel Chair. (2004, November). The role of sex differences in cognitive processes. Panel presented to National Communication Association, Chicago, IL.
- Annual Conference Committee Program Co-Chair (1997-1999), New Jersey Occupational Therapy Association

University and Departmental Service

- American Muslim Medical Student Association Faculty Advisor, Charles E. Schmidt College of Medicine at Florida Atlantic University (2024-present)
- Medical Students for Choice Student Interest Group Faculty Advisor, Charles E. Schmidt College of Medicine at Florida Atlantic University (2022-present)
- Obstetrics & Gynecology Student Interest Group Co-Advisor, Charles E. Schmidt College of Medicine at Florida Atlantic University (2022-present)
- American College of Obstetrics & Gynecology District XII Medical Student Achievement Awards Committee Chair, Charles E. Schmidt College of Medicine at Florida Atlantic University (2020-present)

- Student Competency Review Committee Chair, Charles E. Schmidt College of Medicine at Florida Atlantic University (2020-2023), Member (2016-present)
- Diversity Action Strategic Plan Co-Chair, Charles E. Schmidt College of Medicine, Florida Atlantic University (2020-2021)
- Pipeline Programs Review Task Force Member, Charles E. Schmidt College of Medicine, Florida Atlantic University (2020-2021)
- Substance Use Disorder Advisory Council Member, Charles E. Schmidt College of Medicine, Florida Atlantic University (2020-2021)
- Faculty Development Advisory Group Facilitator, Charles E. Schmidt College of Medicine, Florida Atlantic University (2017-2019)
- Strategic Planning Steering Committee Member, Charles E. Schmidt College of Medicine, Florida Atlantic University (2017-2018)
- Faculty Recognition and Faculty Development Planning Committee Co-Chair, Charles E. Schmidt College of Medicine, Florida Atlantic University (2017-present)
- Michael L. Friedland, MD Educational Leadership Award Committee Chair, Charles E. Schmidt College of Medicine, Florida Atlantic University (2017-present)
- Interpersonal and Communication Skills Competency Director, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- M1/M2 Subcommittee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- M3/M4 Subcommittee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- Clerkship Directors Group Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- College of Medicine Curriculum Committee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- Curriculum Integration and Program Evaluation Committee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- Extended Executive Leadership Team Committee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- Psychiatry Clerkship Grading Committee Member, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-2020)
- Research Day Judge, Charles E. Schmidt College of Medicine at Florida Atlantic University (2016-present)
- University Obstetrics and Gynecology, Inc. Board Member (2015)
- Indiana University School of Medicine Graduate Medical Education Committee (2014-2015)
- Indiana University School of Medicine Graduate Medical Education Under Represented Minority Mentor/Mentee Steering Committee (2014-2015)
- Indiana University School of Medicine Graduate Medical Education Special Review Subcommittee (2014-2015)
- Department of Obstetrics and Gynecology Residency Program Evaluation Committee, Indiana University School of Medicine, Indianapolis (2014-2015)
- Josiah Macy Fellowship Program Reviewer, Indiana University School of Medicine, Indianapolis (2014 & 2011)
- Department of Occupational Therapy Admission Committee, Indiana University School of Health and Rehabilitation Science, Indianapolis (2013-2015)
- Indiana University School of Medicine Faculty Steering Committee, Student Promotions Committee Representative (2012-2014)
- Department of Obstetrics and Gynecology Search Committee Chair, Residency Director, Indiana University School of Medicine, Indianapolis (2012)

- Department of Occupational Therapy Non-Thesis Research Group Advisor, Indiana University School of Health and Rehabilitation Science, Indianapolis (2012-2013)
- Indiana University School of Medicine Student Promotions Committee (2011-2015)
- Dean's Office of Educational Affairs Co-Chair Behavioral and Social Science Curricular Reform team, Indiana University School of Medicine, Indianapolis (2011-2012)
- Indiana University School of Medicine Clerkship Directors Focus Group (2011-2015)
- Department of Obstetrics and Gynecology Resident Research Team Mentor, Indiana University School of Medicine, Indianapolis (2011-2015)
- Department of Obstetrics and Gynecology Faculty Retreat Planning Committee Co-Chair, Indiana University School of Medicine, Indianapolis (2011-2013)
- Undergraduate Medical Education Student Assessment Specialist Search Committee, Indiana University School of Medicine, Indianapolis (2011)
- Dean's Office of Educational Affairs Search Committee for Associate Dean for Continuing Medical Education, Indiana University School of Medicine, Indianapolis (2011)
- Department of Communication Studies Junior and Senior-Level Search Committee, Indiana University-Purdue University Indianapolis (2011),
- Dean's Office of Educational Affairs Co-Chair Professionalism/Self-Awareness Curricular Reform Team, Indiana University School of Medicine, Indianapolis (2010-2011)
- Department of Obstetrics and Gynecology Search Committee Chair, Director of Medical Student Education, Indiana University School of Medicine, Indianapolis (2010)
- Advocates for Sexual Equality, Faculty Advisor, Indiana University-Purdue University Indianapolis (2010-2013)
- Indiana University – Purdue University Indianapolis Faculty Council At-Large Representative (2011-2013)
- Curriculum Council Clinical Component Subcommittee, Indiana University School of Medicine, Indianapolis (2011-2015)
- Curriculum Council Clinical Component Elective Subcommittee, Indiana University School of Medicine, Indianapolis (2010-2011)
- Center for Teaching and Learning Advisory Board, Indiana University-Purdue University Indianapolis (2010-2013)
- Center for Teaching and Learning Course Enhancement Grant (CEG) Reviewer, Indiana University-Purdue University Indianapolis (2010-2013)
- Department of Occupational Therapy Professional Advisory Council, Indiana University School of Health and Rehabilitation Science, Indianapolis (2010 – 2015)
- Department of Obstetrics and Gynecology *Special Delivery* Newsletter Co-Editor, Indiana University School of Medicine, Indianapolis (2009-2013)
- Lesbian, Gay, Bisexual and Transgender Faculty Staff Council Executive Board, Indiana University-Purdue University Indianapolis (2009-2013)
- Vice President, Graduate Relations for the Communication Graduate Student Association, Purdue University (2006 - 2008)
- Department of Communication Advisory Board, Kean University (2004 -2005)
- Department of Occupational Therapy Professional Advisory Council, Seton Hall University (2000-2005)
- Occupational Therapy Accreditation Advisory Council, Seton Hall University (1999)

Guided Research

Advisor

Completed:

Emily LaSota, MD. "Obstetrician/ Gynecologists' Attitudes, Knowledge and Caring of Lesbian, Bisexual and Transgender (LBT) Patients: How are we doing?" (2016, June)

***Third Place: Resident Research Day, Department of Obstetrics and Gynecology, IUSM**

Jenkins, Kristen. "Revamping a Health Campaign: Empowering Women through Sexual Education and Human Papillomavirus" (2014, April)

***Top Undergraduate Research Paper: IUPUI Department of Communication Studies**

Kourtney Morris, M.D. "A Cross Cultural Study of Patients' Knowledge and Attitudes Concerning Alcohol, Tobacco, and Marijuana Use in Pregnancy" (2013, June)

Clinical Experience

Muhlenberg Regional Medical Center, Plainfield, NJ (1989-2004)

- Manager of Behavioral Health and Psychiatry (2001-2004)
- Senior Occupational Therapist-Behavioral Health and Steps Recovery Unit (1989-2001)
- Per Diem Occupational Therapist-Homecare Department (1990-1992)

United Cerebral Palsy Association, New York, NY (1989-1990)

- Per Diem Occupational Therapist-Group Homes

St. Vincent's North Richmond Community Mental Health Center, Staten Island, NY (1987-1989)

- Staff Occupational Therapist-Department of Psychiatry

Muhlenberg Regional Medical Center, Plainfield, NJ (1986-1987)

- Staff Occupational Therapist-Department of Rehabilitation

Children's Psychiatric Center Mental Health Services, Eatontown, NJ (1986-1987)

- Residential Relief Staff-Group Homes for Developmental Disabilities

Certification, Licensure & Specialty Board Status

Florida Department of Health, Division of Medical Quality Assurance (2015 - present)

Occupational Therapist

License No. OT17444

Seton Hall University (December, 2000)

Certificate in Technology

National Board for Certification in Occupational Therapy (1986 - present)

Occupational Therapist, Registered

Certification No. AA642082

Professional Memberships

Florida Occupational Therapy Association (2015 - present)

Association of Professors of Gynecology and Obstetrics (2010 - present)

Allison H. Ferris, MD, FACP

920 SW 2nd St
Boca Raton, FL 33486
267-496-0601
ferrisa@health.fau.edu

Education

Residency, Drexel University College of Medicine/Hahnemann University Hospital, Philadelphia, PA	6/2005-6/2008
M.D., Drexel University College of Medicine, Philadelphia, PA	5/2005
B.S. in Biology (summa cum laude), Elmira College, Elmira, NY	6/2001

Current Position

Program Director, Internal Medicine Residency Program Charles E. Schmidt College of Medicine Florida Atlantic University, Boca Raton, FL	7/2020-present
Chair, Department of Medicine Charles E. Schmidt College of Medicine Florida Atlantic University, Boca Raton, FL	1/2022-present
Assistant Dean for Faculty Development Charles E. Schmidt College of Medicine Florida Atlantic University, Boca Raton, FL	6/2023-present

Professional Experience

Associate Program Director, Internal Medicine Residency Program Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL	1/2018-6/2020
Associate Program Director, Internal Medicine Residency, Drexel University College of Medicine, Philadelphia, PA	1/2011-12/2017
Chief Resident (PGY4), Internal Medicine Residency Program Department of Medicine, Drexel University College of Medicine, Philadelphia, PA	7/2008-6/2009

Academic Appointments

Professor Department of Medicine Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, FL	7/2025-present
Associate Professor Department of Medicine (formerly known as Integrated Medical Sciences Dept) Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, FL	1/2018-6/2025
Associate Professor Department of Medicine Drexel University College of Medicine Philadelphia, PA	6/2017-12/2017
Assistant Professor Department of Medicine	7/2009-6/2017

Drexel University College of Medicine
 Philadelphia, PA

Hospital Appointments

Bethesda Health East Hospital Boynton Beach, FL	1/2018-present
Boca Raton Regional Hospital Boca Raton, FL	11/2017-present
Hahnemann University Hospital Philadelphia, Pennsylvania	5/2007-5/2019

Other Positions and Employment

Baptist Health Medical Group, North (formerly Bethesda Health Physicians Group) Bethesda Community Health Center Boynton Beach, FL	8/2019-present
Genesis Community Health Boynton Beach, FL	1/2018-7/2019
Patient Note Rater for USMLE Step 2 CS, Educational Commission for Foreign Medical Graduates, Philadelphia, PA	2/2010-6/2020
Moonlighter for night/weekend coverage of cardiology nurse practitioner patients, neurosurgery patients, and urology patients, Hahnemann University Hospital, Philadelphia, PA	5/2007-6/2009

Certification and Licensure

Diplomat, American Board of Internal Medicine <i>Participating in MOC</i>	2008; recert 2018, 2020, now LKA
PA State Medical License (inactive)	2007-2018
DEA license (active)	2008-present
FL State Medical License (active)	2017-present
ACLS/BLS certification	updated 8/2023

Professional Development

Association of American Medical Colleges (AAMC) Organizational Leadership in Academic Medicine for New Associate Deans and Department Chairs. October 10-12, 2023, Fort Lauderdale, FL.

Harvard Macy Institute, Program for Educators in Health Professions, 2022-23 (virtual)

Association of American Medical Colleges (AAMC) Early Career Women Faculty Professional Development Seminar, July 9-12 2016, Englewood, CO.

ACGME Conference "Developing Faculty Competencies in Assessment: A Course to Help Achieve the Goals of Competency-Based Medical Education". May 15-20, 2016, Chicago, IL.

Professional Memberships and Activities

Member, Florida Medical Association	2022-present
Member, Palm Beach County Medical Society	2018-present
Member, AAMC Group on Women in Medicine and Science	2016-present
Member, Association of Program Directors in Internal Medicine	2011-present
Fellow, American College of Physicians	2011-present
Member, Clerkship Directors in Internal Medicine	2009-2017
Member, American College of Physicians	2008-2011

Member, American Medical Women's Association	2004-05, 2020-present
Member, American Medical Student Association	2001-2005

Peer Review Activities

BMC Medical Education (Peer reviewer)	2023
MKSAP 19 Virtual Diagnosis in General Internal Medicine, American College of Physicians (Peer reviewer)	2022
Journal of General Internal Medicine (Peer reviewer)	2021-present
Annals of Internal Medicine (Peer reviewer)	2019
Cureus (Peer reviewer)	2018-present

Committee Assignments and Administrative Services

Institutional:

FAU Charles E. Schmidt College of Medicine:

GME Special Review of Vascular Surgery Fellowship Program, Chair	2025
GME Special Review of Neurology Residency Program, Chair	2023
WIMS (Women in Medicine and Science) Committee, Member.	2022-2023
Council of Chairs	2022-present
Medical Student Appeals Committee, Chair	2022
Dean Search Committee, Member	2021
Faculty Senate, COM representative	2020-2021
GME Outcomes and Monitoring Subcommittee, Member	2020-2022
GME Special Review of Surgery Program, Member	2020
GME Committee, Member	2020-present
GME Performance Dispute Resolution Committee, Member	2020
Promotions and Tenure Committee, Member, Integrated Medical Sciences Department	2020-2021
Search Committee for Bethesda Clinic Co-Director, Chair	2019-2020
Executive Academic & Professionalism Committee, Chair	2019
Opioid Task Force (part of DCF SAMH Grant work)	2019-2020
GME Subcommittee on QIPS, Co-Chair	2019-2022
Search Committee for DIO, Member	2019
Teaching Academy Reflective Panel	2019
AOA Selection Committee	2019-present
Poster Judge, Medical Student Research and Scholarship Day (annual)	2019-present
Clinical Competency Committee, Internal Medicine Residency Chair, December 2018-June 2020	2018-present
Curriculum Committee, Internal Medicine Residency	2018-present
FAU Medicine Clinical Practice Steering Committee	2018

Drexel University College of Medicine:

4 th year/Ambulatory Experience Planning Subcommittee	2016-2017
Search Committee for the Associate Dean for Clinical Education	2016
Learning Environment Working Group, a task force named by the Educational Coordinating Committee	2016
Drexel's Diabetes/Prediabetes Quality Initiative	2016
Wellness Committee, Drexel/Hahnemann GME subcommittee	2016-2017
Gold Humanism Honor Society Selection Committee	2015-2017
"Curriculum 21" Blueprint Committee (redesign of medical school curriculum)	2015
Business Development and Marketing Committee, Drexel University Physicians	2014-2017
Primary Care V11 Note Improvement Committee, Allscripts working group	2013
Women in Academic Medicine and Science Committee Chair, 2016-17 and 2017-18	2013-2017
Drexel Med Simulation Grants Initiative review committee	2013-2015
Evaluation and Quality Improvement Committee, a Subcommittee of the Educational Coordinating Committee	2012-2014
LCME Self-study Committee on Assessment	2012
Chair, Professionalism and Clinical Competency Committee, Internal Medicine Residency Program	2011-2017
Educational Leadership Committee, Department of Medicine	2009-2017
Year 3/4 Subcommittee of the Educational Coordinating Committee	2009-2012

Evaluation Form Redesign Task Force (2010-2011)	
Year 3/4 Promotions Committee	2009-2012
Course Director, Medicine Sub-internship	2009-2012
Women in Academic Medicine Committee, Housestaff Representative	2008-2009
Medical Records Committee, Housestaff Representative	2008-2009
Graduate Medical Education Committee, Housestaff Representative	2006-2008
Internal Medicine Residency Education Committee	2005-2007
IFM Curriculum Steering Committee, Student representative	2002-2003
<i>Extramural:</i>	
<i>National:</i>	
Abstract Reviewer, Alliance for Academic Internal Medicine Week 2025.	2024
Poster Judge, Alliance for Academic Internal Medicine Week 2024, Columbus OH.	2024
Poster Judge, Alliance for Academic Internal Medicine Week 2023, Austin TX.	2023
Member, Learner Handoff Task Force, Alliance for Academic Internal Medicine	2021-2022
Member, Medical Education Learner Transition Improvement Task Force, Alliance for Academic Internal Medicine	2020-2021
Abstract Reviewer, Resident research national competition. American College of Physicians, national meeting	2013-present (annually)
Medical Student to Resident Interface Committee (previously named the Sub-internship task force, Alliance for Academic Internal Medicine, previously a task force under the Clerkship Directors in Internal Medicine/Association of Program Directors in Internal Medicine).	2011-2020
Sub-committee to develop a position paper outlining the redesign the 4th year Medicine Sub-internship, September 2012-2015.	
<i>Regional:</i>	
Delegate, Florida Medical Association annual meeting, Orlando, FL	2022-present
Member, Fall 2022 Meeting Planning Committee, Florida Chapter of American College of Physicians	2022
Abstract and Virtual poster judge, Florida Chapter American College of Physicians meeting	2021-present
Co-chair, American College of Physicians Southeast (PA) Regional Meeting	2014-2016
- Coordinate agenda for meeting. - Communicate with all participants. - Organize and run the event. - Coordinate and oversee the abstract competition. - Help coordinate the Medical Jeopardy competition - Hosted meeting at our institution in 2015 and 2016	
Resident research competition, Abstract Reviewer and Poster Judge, American College of Physicians, Southeastern PA Chapter Annual Fall Meeting	2009-2013
<i>Local:</i>	
Member, Member Services Committee, Palm Beach County Medical Society	2023-2024
Member, Medical Education Committee, Palm Beach County Medical Society	2022-present
Member, Patient Experience Council, Boca Raton Regional Hospital	2020-present
Member, CME Committee, Boca Raton Regional Hospital	2020-present
Member, Code Blue Committee, Boca Raton Regional Hospital	2020-present
Member, Medical Executive Committee, Bethesda Health East	7/2019-present
Chief of Staff (<i>elected</i>)	7/2025-present
Vice Chief of Staff (<i>elected</i>)	7/2023-6/2025
Poster Judge, Palm Beach County Medical Society Poster Symposium	2019, 2020, 2023, 2024
Performance Improvement Committee, Bethesda Health East	2018-present
Committee Chair	7/2019-6/2023
Member, Diversity and Inclusion Committee (formerly the Improving LGBTQ Care Committee), Boca Raton Regional Hospital	2018-present
Faculty Champion for DUCOM Internal Medicine Resident Participation, oversee resident participation in various events sponsored by American College of Physicians, Southeastern PA Chapter	2009-2017

Clinical Activities

Inpatient hospital coverage with Internal Medicine Residents, Boca Raton Regional Hospital and Bethesda Hospital East. Up to 6 weeks per year.	2018-present
Outpatient continuity clinic preceptor, Internal Medicine Residency clinic at Bethesda. Minimum 2 sessions per week.	2018-present

Quality Improvement Activities

Quality Improvement Project: Improving clinic volume by better capturing hospital discharges. (Project with internal medicine residents Luisa Barrueto, DO and Ikrammumul Nibir, DO)	2023-2024
Quality Improvement Project: Improving flu shot vaccination rates in our residency clinics (<i>Raise the Rates</i>). Bethesda Community Health Center and Boca Raton Internal Medicine Residency Clinic. (Project with Touqir Zahra, MD, Henry Haire, MD, and internal medicine residents: Priya Patel, MD, Eno Okpokpo, DO, and Michael Mamone, MD)	2021-2022
Quality Improvement Project: Improving the safety of benzodiazepine use in hospitals. Bethesda Health East. (Interdisciplinary effort with pharmacy, Denise Elia/Javi Kourtis, and internal medicine residents, Eric Chacko/Sharmin Akhter/Jordy Godinez).	2020-2021
Quality Improvement Project: Reviewing, studying, and revising the allocation of resources policy for Baptist Health South Florida. (Project with George Luck, MD and internal medicine residents Jared Kelly and Jordy Godinez)	2020

Educational Activities

Florida Atlantic University:

PGY1 Simulation Session: PE with decompensation and Unstable Afib as SIM cases; Small group sessions (Patient Safety Escape Room, Foley Catheters, Identifying Surgical Devices, Understanding Medication Devices in Clinic)	2025 (May)
PGY2/3 Simulation Session: status asthmaticus, hemorrhagic shock, pericardial tamponade, Internal Medicine Residency	2025 (April/May)
Altered Esophageal Structure and Function, PT1 (M1 student lecture)	2025 (March)
Infection Prevention, Internal Medicine Academic Half Day	2025 (Jan)
Hypertensive Emergencies, PT2 (M2 student lecture)	2024 (August)
Intern Bootcamp, Internal Medicine Residency	2024 (June)
Intern Transition to PGY2 Day, Qualities of Good and Bad Residents	2024 (May)
Board Review, Dermatology. Internal Medicine Residency	2024 (May)
PGY 2/3 Simulation Session: RVMI and Stroke. Internal Medicine Residency	2024 (Mar/Apr)
Opioid Education for Interns. Internal Medicine Academic Half Day.	2024 (March)
Altered Esophageal Structure and Function, PT1 (M1 student lecture)	2024 (March)
Non-stigmatizing Communication: A Case Review. Internal Medicine Academic Half Day	2024 (Feb)
PGY1 Simulation Session: PE with decompensation and Unstable Afib; Mr. Payne; Heart Sounds. Internal Medicine Residency	2024 (Jan/Feb)
Fellowship Personal Statements. Internal Medicine Academic Half Day	2024 (Jan)
Catching some Zzzzz's. Internal Medicine Academic Half Day	2023 (Dec)
PGY 2/3 Simulation Session: Septic Shock and Status Epilepticus. Internal Medicine Residency	2023 (Sept/Oct)
Hypertensive Emergencies, PT2 (M2 student lecture)	2023 (August)
Intern Bootcamp, Internal Medicine Residency	2023 (June)
Intern Transition to PGY2 Day, Qualities of Good and Bad Residents	2023 (May)
Board Review, Dermatology. Internal Medicine Residency	2023 (May)
PGY2/3 Simulation Session: status asthmaticus, hemorrhagic shock, pericardial tamponade, Internal Medicine Residency	2023 (April)
Altered Esophageal Structure and Function, PT1 (M1 student lecture)	2023 (March)
PGY2/3 Simulation Session: Respiratory Failure and Hypotension, Internal Medicine Residency	2022 (October)

Hypertensive Emergencies, PT2 (M2 student lecture)	2022 (August)
Intern Bootcamp, Internal Medicine Residency	2022 (June)
Intern Transition to PGY2 Day, Qualities of Good and Bad Residents	2022 (May)
Board Review, Dermatology. Internal Medicine Residency	2022 (May)
PGY1 Simulation Session: PE with decompensation and Unstable Afib. Internal Medicine Residency	2022 (May)
PGY 2/3 Simulation Session: Septic Shock and Status Epilepticus. Internal Medicine Residency	2022 (April/May)
Altered Esophageal Structure and Function, PT1 (M1 student lecture)	2022 (March)
Pain Management Basics, Internal Medicine Academic Half Day	2022 (March)
PGY 2/3 Simulation Session: RVMI and Stroke. Procedures Practice using task trainers. Internal Medicine Residency	2021 (Oct/Nov)
Intern Bootcamp, Internal Medicine Residency	2021 (June)
Communicating with Patients who have Substance Use Disorder, Internal Medicine Academic Half Day	2021 (April)
Multiple Sclerosis. Internal Medicine Academic Half Day	2021 (January)
PGY 2/3 Simulation Session: status asthmaticus, hemorrhagic shock, pericardial tamponade. Internal Medicine Residency	2021 (Feb/Mar)
PGY2/3 Simulation Session: PE, unstable Afib, and beta-blocker overdose. Internal Medicine Residency	2020 (Sept/Oct)
Diagnostic Reasoning Rounds faculty facilitator, Diabetes, M3 student academic half day (repeated x3)	2020-21
Perioperative Medicine. Internal Medicine Academic Half Day	2020 (August)
Non-stigmatizing Communication and Harm Reduction in Patients with Opioid Use Disorders. Internal Medicine Academic Half Day	2020 (May)
High-Value Care. Internal Medicine Academic Half Day	2020 (May)
Rheumatoid Arthritis. Internal Medicine Academic Half Day	2020 (April)
Treatment of Pain and the Opioid Crisis, M4 student Transitions to Residency Course	2020, 2021 (March)
Opioid Cases, Small-group activity, M4 student Transitions to Residency Course	2020 (March)
Professionalism – Challenging conversations. Ambulatory Didactics	2019/20 (Dec/Jan)
Osteoporosis. Ambulatory Didactics	2019 (Nov/Dec)
PGY2/3 Simulation Session: Stroke and RVMI with shock, Internal Medicine Residency	2019 (Oct/Nov)
Intern Simulation –Baseline Session, Internal Medicine Residency EKG quiz, Heart Sounds quiz (with feedback), Discharging a patient who requests an opioid prescription, Initial evaluation of a patient with altered mental status.	2019-2022 (annually in Aug-Oct)
Sodium Disorders for Interns, Intern Didactics, Internal Medicine Residency	2019 (July)
How to Write Personal Statements Fellowship Guidance Series	2019 (June)
PGY 1/2 Simulation Session: Septic Shock and Status Epilepticus. Internal Medicine Residency	2019 (May/June)
Systems Based Practice, The World of Insurance & Medicare. Ambulatory Didactics	2019 (March/April)
Shock Simulation and Debriefing Session during the M4 student Transitions to Residency Course	2019 (March)
M&M/QI conference—Medication Reconciliation. Internal Medicine Residency Academic Half Day	2019 (February)
PGY2 Simulation Session: Rapid Response situations (Unstable Afib and PE with decompensation), Internal Medicine Residency	2019 (Jan/Feb)
Asthma Management, Ambulatory Didactics, Internal Medicine Residency	2018 (Nov/Dec)
Pneumonia. Intern Didactics, Internal Medicine Residency	2018 (November)
Immunizations. Ambulatory Didactics, Internal Medicine Residency	2018 (Oct/Nov)
Intern Simulation –Baseline Session, Internal Medicine Residency Developed 4 activities for all interns to do at the Simulation center: EKG quiz, Heart Sounds quiz (with feedback), Discharging a patient who requests an opioid prescription, Initial evaluation of a patient with altered mental status.	2018 (July/August)
Notes and Billing. Ambulatory Didactics, Internal Medicine Residency	2018 (April)
Intern to Resident Transition Event, Internal Medicine Residency	2018 (April)

Developed agenda for event, invited speakers, facilitated interactive discussion of "Qualities of a Good and Bad Resident", gave lecture on "Leading by Example"	
Simulation exercise, developed and implemented 2 cases of Rapid Response situations (Unstable Afib and PE with decompensation), Internal Medicine Residency	2018 (April/May)
Anticoagulation for the outpatient doc. Internal Medicine Residency, Academic Half-Day	2018 (March)
Facilitate morning report at Boca Raton Regional Hospital and Bethesda Health East, 1-4 times per month (varies)	2018-present
<i>Drexel University College of Medicine:</i>	
Internal Medicine Resident Noon Conference, "Gout and Hyperuricemia". Department of Medicine	2017
OB-Gyn Resident Core Curriculum Lecture, "Blood Pressure, Cholesterol, and Heart Disease...oh my!" Department of Obstetrics and Gynecology	2017
Precept interns/residents in outpatient clinic, 1-3 sessions per week.	2009-2017
Course Director, Ambulatory Medicine elective for M4 students	2009-2017
Course Director, Medicine Sub-internship (required course for all M4s)	2009-2012
Clinical Preceptor, Introduction to Ambulatory Medicine (2 nd year PIL course).	2014-15, 2016-17
Site director for Medicine Sub-internship at Hahnemann University Hospital	2012-2014
Intercession 1, small group facilitator for DxR cases/order writing and large group facilitator on SBAR Communication Techniques	2011, 2012, 2014
Also helped develop the video vignettes used in the SBAR sessions. (Videos have been used yearly since 2011)	
Resident Noon Conference, a two-part series on Creating the Optimal Learning Climate, with Dennis Novack, MD	2011
Board Review Presentation, "Adolescent Medicine". Drexel University College of Medicine's Internal Medicine Board Review Course.	2011
Faculty Facilitator, Medicine Sub-internship Case Conference Series, "Respiratory Distress"	2010-2015
Co-creator/co-facilitator, Transdisciplinary Education in Clinical Simulation, a joint effort of the Drexel University College of Nursing and Health Professions and Drexel University College of Medicine.	2010
Preceptor for Acute Care Nurse Practitioner Program, Drexel University College of Nursing and Health Professions.	2010-2012
Board Review Presentation, "Adolescent Medicine". Drexel University College of Medicine's Internal Medicine Board Review Course.	2010
Intercession 2, facilitator for ACLS Code Simulation workshops.	2010-2017
Doctoring Curriculum, PGY2 Internal Medicine Residents, facilitator for small group sessions	2009
Third Year Medicine Clerkship Lecture Series (monthly lectures)	2009-2012
Thyroid disease	
Chest pain	
Pneumonia	
ICM Physical Diagnosis Course, small group faculty facilitator	2008-2017
Physician and Patient Course, faculty facilitator	2008-2014
MiniMed School	2004-2017
4 th year medical student co-facilitator, Inaugural Fall Session 2004	
Presentation of Welcoming Remarks and Introduction of Keynote Speaker, Channel 6's Anita Brickman, "Graduation Night", Fall 2004	
Resident co-facilitator for small group session, Diabetes night, Spring 2006	
Resident presenter, "From SATs to MCATs; How I got Here", Spring 2006	
Resident co-facilitator, Summer Camp, 2007 and 2008	
Resident facilitator, Lunchtime case presentations, Summer Camp 2007 and 2008	
Faculty preceptor for ambulatory medicine, Summer Camp, 2009-2013, 2016, 2017	

"Life as a general internist", 1-hr presentation for participants, 2015, 2016, 2017 ICM Physical Diagnosis Course, small group 4th year medical student co-facilitator	2004-2005
<i>Educational materials created:</i> Interprofessional Clinical Education for Community Preceptors Canvas site created with College of Nursing colleagues to help orient clinical preceptors and provide various faculty development videos and materials. Videos I created: <i>Giving Feedback</i> <i>Preparing for the Learner</i>	2023-present
Diversity Equity and Inclusion Curriculum for Residents, Internal Medicine Residency, Florida Atlantic University Implicit Bias Best Care of Diverse Patient Populations LGBTQ+ Health Issues Facing Women in Medicine Vaccination hesitancy "Difficult" patients	2021-2022
Redesigned the evaluation forms used in the FAU internal medicine residency program including a method to auto-populate the ACGME milestones reports for semi-annual reviews.	2022
Simulation cases developed for the Internal Medicine Residency, Florida Atlantic University. Mr. Payne (discharge med rec, pain/opioids) Mr. Patel (PE) Mr. Schwartz (rapid Afib with decompensation) Mr. Charles (status asthmaticus)	2018-present
Redesigned the evaluation forms used in the internal medicine residency program, basing them on milestones and using competency-based language, Internal Medicine Residency, Drexel University College of Medicine	2013
Developed new Clerkship/Clinical rotation evaluation forms to be used across 3rd/4th year clinical rotations as part of the "Evaluation Form Redesign Task Force", of the Educational Coordination Committee, Drexel University College of Medicine	2010-2011
<i>Mentoring:</i> Adrienne Willard, MD, Associate Professor of Medicine, Drexel University College of Medicine. Mentored through early career as well as promotion process to Associate Professor. Have provided further mentoring on projects including DUCOM Faculty LEAD project and application to AAMC Mid-Career Women's conference.	2012-present
Touqir Zahra, MD, Assistant Professor of Medicine, Florida Atlantic University Schmidt College of Medicine. Mentor her in her role as Chair of the Clinical Competency Committee. Providing mentoring on organization and time management. Mentoring her on path towards promotion process to Associate Professor.	2020-present
Anneka Hutton, MD, Florida Atlantic University Internal Medicine Resident, "Implementation of a Mentorship Program to Combat Impostor	2020-2021

Phenomenon in Medical Residents" (IRB approved project, ongoing)	
Polina Gaisinskaya, MD, Florida Atlantic University Internal Medicine Resident, "Implementation of a Mentorship Program to Combat Impostor Phenomenon in Medical Residents" (IRB approved, ongoing)	2021-2022
Ralph Palumbo, MD, Clinical Affiliate Professor of Medicine, Florida Atlantic University.	2022-present
Mentored him through process of applying for Pulmonary Critical Care Medicine fellowship (successfully approved by ACGME for 2024 start)	
Provide mentoring on the planning and preparation for the fellowship program (recruitment/interview season plans, scheduling, didactic planning, coordination with the WPB VA)	
Hac-Tu (Jackie) Chung, DO, Florida Atlantic University Internal Medicine Resident, "Implementation of a Mentorship Program to Combat Impostor Phenomenon in Medical Residents" (IRB approved)	2023-2024
Clebert Isma, MD and Pooja Patel, MD, Florida Atlantic University Internal Medicine Residents, "Prevalence of Hyponatremia in patients 65 and older admitted for fracture secondary to fall at BRRH between July 1, 2017 and June 30, 2023." (IRB approved, in progress)	2023-2025
Talwinder Nagi, MD, Florida Atlantic University Internal Medicine Resident. Developing a QI project on a GI motility curriculum for internal medicine residents and students. (IRB approved, in progress)	2023-2024
Bibiana Sabates, MD and Luisa Barrueto, DO, Florida Atlantic University Internal Medicine Residents. "Clinical Reasoning Conference" (a Boca Raton Regional Hospital Grand Rounds conference presentation)	May 2024
Provided mentoring on topic development, slide development, script for presentation, learning objectives, and served as panelist for discussion	
Hac-Tu (Jacqueline) Chung, DO and Julie Giurintano, MD, Florida Atlantic University Internal Medicine Residents. "Clinical Reasoning Conference: Expect the Unexpected" (a Boca Raton Regional Hospital Grand Rounds conference presentation)	May 2025
Provided mentoring on topic development, slide development, script for presentation, learning objectives, and served as panelist for discussion	
<i>LORs written for promotions:</i>	
Adam Garber, MD for Professor (Virginia Commonwealth University)	2025
Karen Stenehjem, MD for Associate Professor (University of Colorado School of Medicine)	2025
Chileshe Nkonde-Price, MD for Associate Professor (Kaiser Permanente School of Medicine)	2024
Muhammad Adnan Aziz, MD for Associate Professor (Florida International University Herbert Wertheim College of Medicine)	2024
Sudeep Aulakh, MD for Associate Professor (UMass Chan - Baystate School of Medicine)	2023
Ashley Coleman, DO for Associate Professor (Cooper University School of Medicine)	2022
Amalia Lyons, MD for Associate Professor (Medical College of Wisconsin)	2021
Adrienne Willard, MD for Associate Professor (Drexel University College of Medicine)	2019
Hasan Arif, MD for Associate Professor (Sidney Kimmel Medical College)	2019
Hans Schlecht, MD for Associate Professor (UMass Medical School – Baystate)	2019
Arif Jan, MD for Associate Professor (Drexel University College of Medicine)	2018
David Bernstein, MD for Associate Professor (Drexel University College of Medicine)	2018

Honors and Awards

Phi Eta Sigma, freshman honor society, Elmira College	1998

Omicron Delta Kappa, leadership honor society, Elmira College	1999
Beta Beta Beta, biology honor society, Elmira College	1999
Phi Beta Kappa, Pi of New York Chapter, Elmira College	2001
Alpha Omega Alpha, Delta Zeta Chapter, Drexel University College of Medicine	2005
The Joan Kornblum Memorial Prize for Excellence in Internal Medicine, Drexel University College of Medicine	2005
American Medical Women's Association, Glasgow-Rubin Achievement Citation, Drexel University College of Medicine	2005
Intern of the Month, Drexel University College of Medicine, Internal Medicine Residency	2005 (July)
Intern of the Month, Drexel University College of Medicine, Internal Medicine Residency	2006 (June)
Internal Medicine PGY2 Resident of the Year, Drexel University College of Medicine, Internal Medicine Residency	2006-07
Golden Apple Teaching Award Nominee, Drexel University College of Medicine	2007
Housestaff of the Year, Hahnemann University Hospital	2007
Arnold P. Gold Foundation, Humanism and Excellence in Teaching Award, Drexel University College of Medicine	2009
Professional Enrichment Grant Awardee, Drexel University College of Medicine	2016
Funds used to participate in the ACGME Conference "Developing Faculty Competencies in Assessment: A Course to Help Achieve the Goals of Competency-Based Medical Education". May 15-20, 2016, Chicago, IL.	
Special Recognition Award, Pennsylvania Chapter, American College of Physicians	2016
Castle Connolly "Top Doctors of Philadelphia"	2016, 2017
Castle Connolly "Exceptional Women in Medicine"	2017
Philadelphia Magazine, "Top Doctor" nominee	2018
Honor Your Doctor, Boca Raton Rotary Club	2023, 2024
Castle Connolly, "Top Doctor", Boca Raton, Florida	2023

Grants

ABIM, ABIM Foundation, AAIM, ACP, and Macy Foundation, Building Trust through Diversity, Health Care Equity and Inclusion in Internal Medicine Training Program grant: "Diversity Equity and Inclusion Curriculum for Residents". (\$2,500, funded). PI: Ferris AH . <i>1% effort</i>	2021-23
DCF SAMH Opioid Grant: Opioid Use Disorder (OUD) Training for UME, GME, and Faculty. (\$250,000, funded). co-PIs: Luck GR, Prakash N. Co-investigators: Ferris AH , Howard H, Morales A, Jacomino M. <i>5% effort</i>	2019-20
#ProudToBeGIM Grant, SGIM/ACP. Grant to support activities that stimulate interest in the field of General Internal Medicine. (\$2,000, funded). Martinez L, Ferris A , Foster J, Sherling D.	2018-19

Publications

Peer-reviewed:

1. Vu TR, Aronowitz PB, Angus SV, Levine MA, Carbo A, Whelton S, **Ferris A**, Appelbaum JS, McNeill DB, Ismail NJ, and Elnicki DM. The Internal Medicine Subinternship—Now More Important Than Ever. *Journal of General Internal Medicine*, 2015 Sep, 30(9): 1369-75. doi: 10.1007/s11606-015-3261-2. PMID 26173515.
2. The CACTI Group (CDIM-APDIM Committee on Transitions to Internship) [**Ferris AH**]. "Course Offerings in the Fourth Year of Medical School: How U.S. Medical Schools Are Preparing Students for Internship". *Academic Medicine*. 2015;90(10):1324-1330.
3. Dine CJ, Bellini LM, Diemer G, **Ferris A**, Rana A, Simoncini G, Surkis W, Rothschild C, Asch DA, Shea JA, and Epstein AJ. Assessing Correlations of Physicians' Practice Intensity and Certainty During Residency Training. *Journal of Graduate Medical Education*: December 2015, Vol. 7, No. 4, pp. 603-609.

- doi: 10.4300/JGME-D-15-00092.1. PMID 26692973.
4. Torre DM, **Ferris A**, Daley B, Durning, SJ. Common Evaluation Designs in Medical Education II. *Academic Medicine*. 2016;91(11):1584. PMID 27355779.
5. Torre DM, **Ferris A**, Daley B, Durning, SJ. Common Evaluation Designs in Medical Education III. *Academic Medicine*. 2016;91(12):1707. PMID 27465230.
6. Kannan, L, Wheeler DS, Blumhof S, Gotfried J, **Ferris A**, Mathur A, Hembree E, Moyer D, Rangaswami J. Work Related Post Traumatic Stress Disorder in Medicine Residents. *Academic Psychiatry*. 2019 Apr;43(2):167-170. doi: 10.1007/s40596-018-0911-9. Epub 2018 April 11. PMID 29644602.
7. Vu TR, **Ferris AH**, Sweet ML, Angus SV, Ismail NJ, Stewart E, Appelbaum JS, Kwan B. The New Internal Medicine Subinternship Curriculum Guide: A Report from the Alliance for Academic Internal Medicine. *Journal of General Internal Medicine*. 2019 Jul;34(7):1342-1347. doi: 1525-1497,10.1007/s11606-019-04957-0. PMID 30937669.
8. Garcia J, Ohanian L, Sidley A, **Ferris A**, Luck G, Basich G, Garcia A. (November 08, 2019) Resident Knowledge and Perception of Pain Management. *Cureus* 11(11): e6107. doi:10.7759/cureus.6107. PMID 31886047.
9. Charles C and **Ferris A**. Chronic Kidney Disease. *Primary Care Clinical Office Practice* 47(2020): 585-595. doi: 10.1016/j.pop.2020.08.001. PMID 33121630.
10. Willard A and **Ferris A**. Solving the Problem of Insomnia in Clinical Practice. *Medical Clinics of North America*. 105(2021): 107-116. doi: 10.1016/j.mcna.2020.09.006. PMID 33246513.
11. **Ferris AH**, Pereira AG, Angus SV, Kopelman RI. Compliance with CDIM-APDIM Guidelines for Department of Medicine Letters: an Opportunity to Improve Communication Across the Continuum. *Journal of General Internal Medicine*. 37(1):125-9. doi: 10.1007/s11606-021-06744-2. PMID 33791934. Published online March 31, 2021.
12. DeDonno MA, **Ferris AH**, Molnar A, Haire HM, Sule SS, Hennekens CH, Wood SK. Perceptions, Coping Strategies, and Mental Health of Residents during COVID-19. *South Med J*. 2022 Sep;115(9):717-721. doi: 10.14423/SMJ.0000000000001439. PMID: 36055661; PMCID: PMC9426312.
13. Garber AM, **Ferris AH**, Vu TR. The Importance of Adding Discernment to the Acting Internship - A Necessary Shift in Culture Toward Competency-Based Metrics. *Am J Med*. 2022 Sep;135(9):1137-1141. doi: 10.1016/j.amjmed.2022.05.032. Epub 2022 Jun 7. PMID: 35688261.
14. Ardelljan AD, Fiedler B, Fiedler L, Luck GR, Maki DG, Clayton L, Hennekens CH, **Ferris A**. Naloxone Over the Counter: Increasing Opportunities and Challenges for Health Providers. *Am J Med*. 2023 Jun;136(6):504-506. doi: 10.1016/j.amjmed.2023.01.027. Epub 2023 Feb 5. PMID: 36750143.
15. DiMarino LM, Boppana RC, Pincavage AT, Hemmer P, **Ferris A**, Chandrasekar J, Choe J, Dentino A, Forster R, Masucci N, Carbajal DR, Surkis W, Ward K, O V, Ayyala US. AAIM Recommendations for Undergraduate Medical Education to Graduate Medical Education Transition Curricula in Internal Medicine. *Am J Med*. 2023 May;136(5):489-495. doi: 10.1016/j.amjmed.2023.02.002. Epub 2023 Feb 10. PMID: 36775049.
16. Hernandez OL, Suarez ZK, Nagi T, Vallejo C, **Ferris A**. Dormant Crohn's Disease Reactivated by Clostridioides difficile Infection. *Cureus*. 2023 Apr 3;15(4):e37062. doi: 10.7759/cureus.37062. PMID: 37153283; PMCID: PMC10155633.
17. **Ferris A**, Gaisinskaya P, Nandi N. Approach to Diarrhea. *Prim Care*. 2023 Sep;50(3):447-459. doi: 10.1016/j.pop.2023.03.010. Epub 2023 May 15. PMID: 37516513.
18. Suarez ZK, Finke AC, Hospedales E, Perez E, Sharifzadeh A, Foster J, **Ferris A**. An unusual case of checkpoint-inhibitor-induced pleuropericarditis. *J Oncol Pharm Pract*. 2023 May 30:10781552231179369. doi: 10.1177/10781552231179369. Epub ahead of print. PMID: 37254508.
19. Ghaddar T, **Ferris A**, Mejia MC, Ravi SM, Levine RS, Hennekens CH, Caceres J. Evolving Trends in U.S. Mortality from Opioid Overdose: Heroin and Beyond. *Am J Med*. 2023 Sep 1:S0002-9343(23)00538-7. doi:

- 10.1016/j.amjmed.2023.08.004. Epub ahead of print. PMID: 37660745.
20. Pincavage AT, Gandhi A, Falk E, DiMarino L, Carbajal DR, Ayyala U, Chandrasekar J, Dentino AN, **Ferris AH**, Forster RM, Hemmer PA, Masucci N, Surkis WD, O V, Choe JH. Evaluation of an Individualized Learning Plan Template for the Transition to Residency. *J Grad Med Educ* 1 October 2023; 15(5): 597–601. PMID: 37781434. doi: <https://doi.org/10.4300/JGME-D-23-00040.1>
21. Hennekens CH, Desai AS, Bandi R, Bonthu S, Pfeffer MA, **Ferris AH**. New clinical challenges for health providers in the prescription of statins in the elderly. *Am J Med.* 2023 Dec 2:S0002-9343(23)00735-0. doi: 10.1016/j.amjmed.2023.11.014. Epub ahead of print. PMID: 38049025.
22. Wood SK, Maki DG, Glickman M, Hennekens CH, **Ferris AH**. Guidance for Health Care Providers on the Newest COVID-19 Vaccine. *Am J Med.* 2024 Feb;137(2):79-80. doi: 10.1016/j.amjmed.2023.10.011. Epub 2023 Oct 24. PMID: 37879591.
23. Sherling DH, Hennekens CH, **Ferris AH**. Newest Updates to Health Providers on the Hazards of Ultra-Processed Foods and Proposed Solutions. *Am J Med.* 2024 May;137(5):395-398. doi: 10.1016/j.amjmed.2024.02.001. Epub 2024 Feb 10. PMID: 38342198.
24. Garber AM, Vu TR, Orr A, Adams W, Anderson I, Fitz M, **Ferris A**. Internal Medicine Acting Internship Trends in Rotation Structure and Student Responsibilities: Results from a 2023 National Survey. *J Gen Intern Med.* 2025 Jan;40(1):287-293. doi: 10.1007/s11606-024-08897-2. Epub 2024 Jul 29. PMID: 39075267; PMCID: PMC11780068.
25. Hennekens CH, Sherling DH, Caceres A, Benson K, Rubenstein A, **Ferris AH**, Kitsantas P, Wood SK. Navigating the Global Pandemic in Pediatric Overweight and Obesity: Emerging Challenges and Proposed Solutions. *Matern Child Health J.* 2024 Dec;28(12):2001-2005. doi: 10.1007/s10995-024-04001-6. Epub 2024 Sep 24. PMID: 39316253.
26. Mejia MC, Sacca L, **Ferris AH**, Hennekens CH, Kitsantas P. Trends and variations in admissions for cannabis use disorder among pregnant women in United States. *J Perinat Med.* 2024 Dec 25;53(3):402-406. doi: 10.1515/jpm-2024-0487. PMID: 39716832.
27. Turtz M, **Ferris A**. Potential Impact of Continuing Medical Education Programming on Knowledge About Legislation Impacting Healthcare Professions. *South Florida Journal of Health*, 6(3), e5680. <https://doi.org/10.46981/sfjhv6n3-004>
28. Sajan K, Anthireddy N, Matarazzo A, Furtado C, Hennekens CH, **Ferris A**. Ultra-Processed Foods and Increased High Sensitivity C-reactive Protein. *Am J Med.* 2025 Sep 3:S0002-9343(25)00549-2. doi: 10.1016/j.amjmed.2025.08.016. Epub ahead of print. PMID: 40912444.

Non-peer-reviewed:

29. **Ferris AH**, McAndrew TM, Shearer D, Donnelly GF, Miller HA. Embracing the Convenient Care Concept. *Postgraduate Medicine.* 2010;122(1):7-9. doi: 10.3810/pgm.2010.01.2093. PMID 20107283.
30. **Ferris AH**. Ask the Doctor: New Year's Resolutions You Should Be Making. *Drexel Quarterly*, Winter 2013.
31. **Ferris AH**. Ask the Doctor: Important Resolutions for 2013 (and for life). *Drexel NOW*. January 28, 2013. Online at: <http://www.drexel.edu/now/features/archive/2013/January/2013%20Resolutions/>
32. **Ferris AH**. Ask a Drexel Physician: Show-shoveling Safety. *Drexel Quarterly*, Winter 2016.
33. **Ferris AH**. 5 Reasons You Need a Primary Care Physician. *PhillyMag* online, April 4, 2016. <http://www.phillymag.com/sponsor-content/reasons-primary-care-doctor/>
34. Vu, R (Editor); Appelbaum JS, **Ferris AH**, Ismail NJ, Kwan B, Stewart E, Sweet ML (Assoc Editors). *Internal Medicine Subinternship Curriculum 2.0*. March

2018. <http://www.im.org/p/cm/ld/fid=1828>.

Book Chapters:

1. **Ferris A**, Mamone M. Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (CFS). In Domino FJ, Baldor RA, Barry KA, Golding J, Stephens MB. *The 5-Minute Clinical Consult 2025*. 33rd ed. Philadelphia, PA: Wolters Kluwer; 2025.
2. Foster J, **Ferris A**, Martinez L. Rash. In Domino FJ, Baldor RA, Barry KA, Golding J, Stephens MB. *The 5-Minute Clinical Consult 2025*. 33rd ed. Philadelphia, PA: Wolters Kluwer; 2025.
3. Foster J, Perham Z, **Ferris A**. Cutaneous Drug Reactions. In Domino FJ, Baldor RA, Barry KA, Golding J, Stephens MB. *The 5-Minute Clinical Consult 2026*. 34th ed. Philadelphia, PA: Wolters Kluwer; 2026.
4. **Ferris A**, Khella R. Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (CFS). In Domino FJ, Baldor RA, Barry KA, Golding J, Stephens MB. *The 5-Minute Clinical Consult 2026*. 34th ed. Philadelphia, PA: Wolters Kluwer; 2026.

Abstracts and Presentations

Oral Presentations

National Meetings/Events:

"Working in Harmony with your Chief Residents" Panel Discussion, 2012
APDIM Program Administrators Meeting, Atlanta, GA. April 22-23, 2012.

"Transitioning: Using the Internal Medicine Subinternship to Bridge the Gap from UME to GME". Ismail N, Appelbaum J, **Ferris AH**, Salvit C, Vu RT. Workshop Presentation, Academic Internal Medicine Week, March 20, 2017, Baltimore, MD.

"Preventing a Failure to Communicate: Introducing the New AAIM Subinternship Curriculum". Ismail NJ, **Ferris AH**, Stewart E, Vu TR. Workshop Presentation, Academic Internal Medicine Week, March 20, 2018, San Antonio, TX.

"S.O.S.—Introducing the New CDIM Subinternship Curriculum to Enable Learners to Ask for Help and Maintain Their Well-being". **Ferris AH**, Sweet M, Appelbaum JS, Kwan B. Workshop Presentation, Academic Internal Medicine Week, March 21, 2018, San Antonio, TX.

"Residents as Ranked-Faculty?: Building Faculty Pathways in Academic Medicine". Wyatt ATM, **Ferris A**. Focused Discussion Table Topic. Learn Serve Lead 2023: AAMC Annual Meeting, November 4, 2023, Seattle, WA.

"A Recipe for (Fellowship) Success: Guiding Your Residents to a Delicious Fellowship Match". **Ferris A**, Pargament R, Uqdah H. Workshop Presentation. Alliance for Academic Internal Medicine Week, April 14-17, 2024, Columbus OH.

"Integrate nonjudgmental language and kindness in commonly used methods of feedback in medical education". Fine L, **Ferris A**, Padilla M, Rajput V. Workshop Presentation, Kern National Network, Sept 4-6, 2024, Fort Lauderdale, FL.

Local/Regional Meetings/Events:

Faculty Development Event, "Resident Evaluations". Given 3 times in 2013: July 17, July 26, and August 14. Drexel University College of Medicine, Department of Medicine.

Back to the Future, Alumni Weekend, Drexel University College of Medicine, Simulation Demonstration #2- Megacode. April 3, 2014.

Primary Care Progress group, Drexel University College of Medicine
Panelist: Why to choose primary care as a career, February 26, 2015.
Panelist: Financial Considerations of Choosing Primary Care, April 8, 2015

Intercession II, Panel discussion about Transition into Residency. Drexel University College of Medicine, March 24, 2016.

"Documentation to cover your...program." Presentation for the First Annual Program Manager Retreat, Drexel University College of Medicine, April 29, 2016.

"Professionalism Issues and Remediation in the GME World". 21st Annual Medical Education Faculty Development Day, Drexel University College of Medicine, December 2, 2016.

"Professionalism Remediation Strategies: Lessons Learned from UME and GME". Faculty Development Grand Rounds, Einstein Medical Center, Philadelphia, Pennsylvania. January 4, 2017.

"The Alumni Perspective". Accepted students day, Drexel University College of Medicine, April 8, 2017.

M4 Visioning Night, Florida Atlantic University. January 8, 2019.

M4 Visioning Night, Florida Atlantic University. January 21, 2020.

"Recognizing and Managing Stigma towards Patients with Substance Use Disorders". Luck GL and **Ferris AH**. Grand Rounds, Boca Raton Regional Hospital. September 8, 2020.

"Putting the VALUe back into eVALUations". Florida Atlantic University, Internal Medicine Residency, Faculty Development Event, February 24, 2021.

IM Residency Application Advising Panel, Wake Forest University, virtual event, June 23, 2021

"The Journey". Florida Atlantic University, White Coat Ceremony Keynote Speaker (invited), August 6, 2021.

"Insomnia: Give it a Rest". Grand Rounds, Boca Raton Regional Hospital. August 17, 2021.

"Giving Feedback". Florida Atlantic University, Internal Medicine Residency, Faculty Development Event, March 1, 2022.

"The Push and Pull: Navigating the Issues that Affect Women in Medicine" **Ferris A**, Foster J, Landa-Galindez A. Florida Chapter, American College of Physicians Annual Meeting, Fort Lauderdale, FL, October 23, 2022.

M4 Visioning Night. Florida Atlantic University. January 17, 2023.

"Bedside Teaching: Fear Not!" **Ferris A**, Clayton L. Florida Atlantic University College of Medicine, Faculty Development Brown-bag Lunch Series. February 6, 2023.

Internal Medicine Specialty Rounds, panel member, Florida International University College of Medicine, virtual event, August 9, 2023.

"Bridging the Gap: The Pivotal Role of the IM Subinternship in the UME-

GME Transition". **Ferris A**, Garber A, Anderson I, Vu TR, Readlynn J, Orr A, Linganna A. Webinar Presentation for Alliance for Academic Internal Medicine. November 28, 2023.

"Catching some zzzz's". Grand Rounds, Boca Raton Regional Hospital. January 16, 2024.

M4 Visioning Night. Florida Atlantic University. January 16, 2024.

"Clinical Reasoning Conference" (panelist). Grand Rounds, Boca Raton Regional Hospital, May 28, 2024.

"Clinical Preceptor Development Workshop". **Ferris A**, Palma L, Rubin S, Wiggill S. CME Event hosted jointly by Florida Atlantic University Schmidt College of Medicine and Lynn College of Nursing, September 23, 2024.

"How to Shine in your Medicine Sub-I". Florida Chapter of ACP Webinar. Panelists: Dr. Sottile (UF Jax), Dr. Lezama (USF), **Dr. Ferris** (FAU), Dr. Marcus (UM). October 28, 2024.

Posters

National/International Meetings

Ferris AH. The answer is in the history. Presented at the American College of Physicians National Meeting, Clinical Vignette Competition for Associates, Washington, D.C., May 16, 2008.

Amori R, **Ferris A**, Paluzzi, R, Simon B. Implementation of Computer Based Learning Modules in Diabetes for First Year Internal Medicine Residents: A Review of the First Year of Use. Presented at ENDO 2015, the 97th annual meeting of the Endocrine Society, San Diego, CA, March 5-8, 2015.

Dine CJ, Bellini LM, Diemer G, **Ferris A**, Rana A, Simoncini G, Surkis W, Rothschild C, Asch DA, Shea JA. Assessing Correlates of Physicians' Practice Intensity and Certainty during Residency Training. Presented at Association of Program Directors in Internal Medicine, Research abstract competition, Atlanta, GA, October 2015.

Angus, S, Sweet M, **Ferris A**, Stewart E, Williams C, Kisielewski M, Willett L. The Program Director's Approach to Application Inflation: A National Survey of Program Directors. Presented at Academic Internal Medicine Week, Research abstract competition, San Antonio, TX, March 2018.

Fernandez ES, Sanchez-Artiles A, Thiel S, **Ferris A**, DeDonno MA. #InCtrl: the Impact of Sexual Education on Today's Youth. Presented at American College of Physicians National Meeting, Resident/Fellow Research Competition, Philadelphia, PA, April 11, 2019.

Ferris A, Luck G, Wood S, Bautista A, Parra A. Taking Charge at Discharge When it Comes to Opioids. Presented at the Association of American Medical Colleges Task Force on Opioid Education Meeting, Washington DC, May 2019.

Luck G, **Ferris A**, Ohanian L, Garcia J, Sidley A, Basich G, Garcia A. Resident Knowledge and Perception of Undergraduate Medical School Curriculum Regarding Pain Management: Does Quantity = Quality? Presented at Association of American Medical Colleges Task Force of Opioid Education Meeting, Washington DC, May 2019.

Ferris A, Williams C, Sweet M, Carbo A, Angus S. Do AAIM Guidelines Around Interview Invitations Lessen Applicant Stress? Presented at the

Alliance for Academic Internal Medicine APDIM Fall Meeting, Denver, CO, October 18, 2019.

Williams C, Carbo A, **Ferris A**, Garber A, Angus S. US Census Region and Residency Interview Decision Making. Presented at the Alliance for Academic Internal Medicine APDIM Fall Meeting, Denver CO, October 18, 2019.

Ferris A, Pereira A, Angus S, Kopelman R. Compliance with CDIM-APDIM Guidelines for Department of Medicine Letters: An Opportunity to Improve Communication Across the Continuum. Accepted for presentation at Academic Internal Medicine Week, Tampa FL, April 20, 2020.
(*meeting cancelled due to Covid-19)

Kaur N, Goyal S, **Ferris A**, Gutman D. “I Think, Therefore I.M. - A Unique Internal Medicine Podcast for Residents” Presented virtually at the American Medical Association GME Innovations Summit, Sacramento CA, October 5-7, 2020.

Ferris A, Okpokpo E, Patel P, Kaur N, Waldburg D. “Building a DEI Curriculum for Residents”. Presented at Academic Internal Medicine Week, Charlotte NC, April 11, 2022.

Mamone M, Rubin S, Foster J, **Ferris A**, Martinez LC. Clerkship Transitions: Alleviating stressors of the transition to clinical clerkships. Presented at Society for General Internal Medicine, Aurora CO, May 11, 2023.

Patel H, van de Ridder M, **Ferris A**, Padilla M, Bauckman K, Rajput V. Charting the Course: A Map for Planning, Preparing, and Performing in the Residency Match. Presented at Annual NRMP conference: Transition to Residency: Conversation across the medical education continuum. Boston, MA, October 5-7, 2023.

Chung H, Gordon S, Barrueto L, **Ferris A**. Chylous Ascites as Initial Presentation of Follicular Lymphoma in a Young Female. Presented at American College of Osteopathic Internists Annual Convention, Tampa, FL, October 13, 2023.

Chung H, Barrueto L, **Ferris A**. *Eggerthella lenta* Bacteremia and Sepsis Due to Right-sided Diverticulitis. Presented at American College of Osteopathic Internists Annual Convention, Tampa, FL, October 13, 2023.

Ferris A, Swails J, Melamed D, Angus S. Refining AI-Generated Narrative Feedback in GME: Addressing Identified Deficiencies. Presented at Alliance for Academic Internal Medicine Week, New Orleans, LA, April 7, 2025. ***Winner for Best Research Poster*

Turtz M, **Ferris A**. Potential Impact of Continuing Medical Education Programming on Knowledge About Legislation Impacting Healthcare Professions. Presented at American Association of Continuing Medical Education Annual Meeting “Learn to Thrive”, Chicago, IL, April 23-25, 2025.

Peters D, Isma C, Patel P, Gordon Z, Torres A, Marian S, Joshi A, Perrone C, Eldawy N, Mathew V, Singh D, Zaki A, **Ferris A**. Prevalence of Hyponatremia in the Elderly Admitted For Falls with Fractures. Presented at Annual Scientific Meeting of the American Geriatrics Society, May 2025, Chicago, IL.

Melamed DP, Swails J, **Ferris AH**, Angus S, Nardino R. Bridging the Gap

in Residency Evaluations – Machine-Learned Insights Aligned with ACGME Competencies. Presented at AAMC 2025 Information Technology in Academic Medicine Conference, Minneapolis, MN, May 28-30, 2025.

Local/Regional Meetings

Amori R, **Ferris A**, Paluzzi, R, Simon B. Implementation of Computer Based Learning Modules in Diabetes for First Year Internal Medicine Residents: A Review of the First Year of Use. Presented at Drexel University's Third Annual Showcase of Teaching, May 11, 2015.

Fernandez ES, Sanchez-Artiles A, Thiel S, **Ferris A**, DeDonno MA. #InCtrl: the Impact of Sexual Education on Today's Youth. Presented at Florida Atlantic University Resident Research Day, April 11, 2019.

Ferris A, Luck G, Wood S, Bautista A, Parra A. Taking Charge at Discharge When it Comes to Opioids. Presented at the Baptist Health Scholarship Showcase, August 26, 2019.

Luck G, **Ferris A**, Ohanisian L, Garcia J, Sidley A, Basich G, Garcia A. Resident Knowledge and Perception of Undergraduate Medical School Curriculum Regarding Pain Management: Does Quantity = Quality? Presented at the Baptist Health Scholarship Showcase, August 26, 2019.

Alif R, Goodman S, **Ferris A**. Angioedema: A Rare Initial Presentation of SLE. Presented at Florida Chapter of the ACP, 51st Annual Scientific Meeting, Ft. Lauderdale, FL, September 21, 2019.

Godha K, Chi L, Mansour S, Winslow W, Artiles A, Gonzalez Velez A, Jacomino M, **Ferris A**, Luck G. Residents' Attitudes, Beliefs, and Knowledge of Opioids. Presented at FAU College of Medicine Research Day, Feb 2020.

Giovinazzo V, Winslow W, Conine S, Johnson K, Kelly J, Luck G, **Ferris A**. Up in Smoke: Residents' Attitudes, Beliefs, and Knowledge of Medical Marijuana. Presented at FAU College of Medicine Research Day, Feb 2020.

Wilson M, Daley L, Giovinazzo V, Florio J, Winslow W, Jacomino M, **Ferris A**, Luck G. The Blunt Truth: Medical Students' Attitudes, Beliefs, and Knowledge of Medical Marijuana. Presented at FAU College of Medicine Research Day, Feb 2020.

DeDonno M, Salama L, **Ferris A**. Innovations in Medical Education. From Extrinsic to Intrinsic, Getting Residents to Proactively Engage in Research. Accepted to SGEA Meeting, March 2020, Atlanta. (**cancelled due to Covid-19*)

Chung H, **Ferris A**. Implementation of a Mentorship Program to Combat Imposter Syndrome in Medical Residents. Presented at Palm Beach County Medical Society Medical Education Poster Symposium, Wellington FL, September 23, 2023.

Mejia MC, Kitsantas P, Hennekens C, **Ferris A**. Admissions for Cannabis Use Disorder among Pregnant Women in the United States: Publicly Funded Treatment Facilities from 2000 to 2021. Presented at Cannabis Clinical Outcomes Research Conference (CCORC 2024), Lake Nona, FL, May 30-31, 2024.

Petishnok L, Pastard W, **Ferris A**, Farabaugh D, Willard A. Developing Faculty with Cultural Humility Using Patient-First, Inclusive Language.

Presented at 2025 Northeast Group on Student Affairs (NEGEA)
Conference, New Brunswick, NJ, April 9-11, 2025.

Invited Lectures

International

"Electrolyte Disorders". Health for the World. Broadcast to internal medicine residents in Cameroon. April 26, 2019.

"Syncope". Health for the World. Broadcast to internal medicine residents in Cameroon. July 5, 2019.

National

"Common Electrolyte Disorders for the Primary Care Physician". The VOC. (National osteopathic virtual CME education program, sponsored by the Missouri Association of Osteopathic Physicians and Surgeons and the Osteopathic Physicians and Surgeons of Oregon). February 17, 2024.

"Bedside Teaching: Not As Daunting As You Think". St. Luke's University Health System (Bethlehem, PA). Faculty development presentation for GME faculty. October 3, 2024.

Other Creative Products

doc.com, An Interactive Resource of Healthcare Communication, American Academy on Healthcare Communication and Drexel University College of Medicine (<http://webcampus.drexelmed.edu/doccom>)
acted in video scenarios illustrating advanced communication competencies in Module 39, Talking with Impaired Colleagues.

doc.com, An Interactive Resource of Healthcare Communication, American Academy on Healthcare Communication and Drexel University College of Medicine (<http://webcampus.drexelmed.edu/doccom>)
Landau B, **Ferris A**. Module 40, Giving Effective Feedback: Enhancing the Ratio of Signal to Noise. (acted in scenes for this as well as helping author the material).
***Revised June 2019; I became primary author at this time as well.*

doc.com, An Interactive Resource of Healthcare Communication, American Academy on Healthcare Communication and Drexel University College of Medicine (<http://webcampus.drexelmed.edu/doccom>)
Novack D, **Ferris A**, Landau B, Saizow R. Module 42, Effective Clinical Teaching.

Drexel Medicine: Series of short videos for social media. Spring 2016.
Why You Need a Primary Care Physician.
Do I Need to Take Vitamins?
BMI Numbers: What Do They Mean?
Blood Pressure Readings: What Do They Mean?
Why Should I Choose Drexel Medicine for Primary Care?
Important Health Screenings for Women and Men.

Healthcare Communication Podcast: Effective Techniques for Clinicians.
"Providing Effective Feedback: Pitfalls and Pearls". July 2018.
<https://www.stitcher.com/podcast/barbara-lewis/healthcare-communication-effective-techniques-for-clinicians>

"I Think Therefore I.M." A podcast for the internal medicine residents. Florida Atlantic University. (found on iTunes, Spotify, and SoundCloud, with links from Twitter and Instagram)
Episode 1, Polymyalgia Rheumatica and Giant Cell Arteritis

Episode 21 and 22, Let's Take a Dab into 2019 (Literature Year-In-Review)
Episode 34, Transitioning Through the Years

Professional Community Activities

Volunteer, Marie Sadie Haitians for Breast Cancer 5K Walk and Festival, Medical Screening Tent, October 2019.
Volunteer, Caridad Clinic, Florida Atlantic University Medical Student Clinic, December 2021
Lunch and Learn, educational series for employees/staff, Harbour's Edge, Delray Beach FL.
Mental Health (Grief, Depression, Anxiety). February 24, 2022
Weight Loss. March 24, 2022
Hypertension. July 28, 2022
Cancer Screening. August 25, 2022 (*mentored resident, Natalie Perez-Mendez, MD who gave this presentation*)
Stroke. September 29, 2022.
Healthy Sleep, October 27, 2022 (*mentored resident, Meagan Mayo, DO who gave this presentation*)
Diabetes. February 16, 2023
Heart Disease. March 16, 2023
Stress Reduction. April 20, 2023
Exercise Programs. May 25, 2023
Colon Cancer. August 31, 2023
Alcohol Use. September 28, 2023
Neck and Back Pain. February 28, 2024
Diets. April 25, 2024
Dementia. May 23, 2024
Allergies and Sinus Disease. June 27, 2024
Breast Cancer. October 23, 2024.
Volunteer, Marie Sadie Haitians for Breast Cancer 5K Walk and Festival, Blood glucose and blood pressure screening, October 2023

Community Service

Volunteer, Addison Mizner Elementary School Holiday Workshop December 2018.
Volunteer, Career Day, Addison Mizner Elementary School, January 2019.
Volunteer, Career Day, Addison Mizner Elementary School, January 2020.
Room parent, Mrs. Seidmon's 3rd grade. Addison Mizner Elementary School, 2020-21 school year.
Member, Parent Teacher Association. Addison Mizner School, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25.
Volunteer, Meet Marshal, Boca Raton Swim Team Boca Blossom Invite, May 7, 2021.
Volunteer, Gate/Concessions, Boca Raton Swim Team Winter Invitational, January 27, 2023.
Volunteer, Event Timer, Pinecrest Panther Invitational, February 4, 2023.
Volunteer, 5th Grade Luncheon Committee, Addison Mizner School, May 2023.
Volunteer, Career Day, FAU High School, February 9, 2024.
Volunteer, Career Day, Addison Mizner School, March 5, 2024.
Mock Interviewer, Bridge to Medicine Program, Florida Atlantic University Schmidt College of Medicine, October 12, 2024.
Volunteer, Event Timer, Boca Raton Swim Team Not So Scary Invite, October 26, 2024.
Volunteer, Event Timer, BB Championships, hosted by Boca Raton Swim Team, February 22-23, 2025.
Speaker, Women of Tomorrow (program for high school students), Boca Raton Regional Hospital, March 5, 2025.

KRINIO GIANNIKOU, Ph.D.

Assistant Professor (tenure track), Florida Atlantic University

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RESEARCH INTERESTS

I am a biomedical scientist with extensive expertise in both wet and dry lab. My current research is inter-disciplinary in nature, focusing on:

- Understanding the underpinnings of the pathogenesis of adult and pediatric tumors, including various mTOR dysregulated tumors, germ cell tumors, bladder cancer, prostate cancer, soft tissue sarcomas (i.e., malignant PEComas, leiomyosarcoma)
- Chemoresistance, metastasis and relapse
- Identification of novel biomarkers and effective therapeutic targets by studying clonal heterogeneity/tumor evolution and tumor microenvironment
- Mosaicism in tumor suppressor gene syndromes, germline, and somatic mitochondrial DNA

In my translational work, I apply my extensive expertise in cutting-edge methodologies, specializing in human genetics, molecular biology, cancer genomics, systems biology, bioinformatics, and epigenetics.

EDUCATION

2014 **Ph.D. in Medical Genetics/Neurogenetics**

National and Kapodistrian University of Athens, Medical School, Athens, Greece

Thesis title: “*Investigation of chromosomal aberrations in children with intellectual disability of unknown etiology using array-CGH technology*”

2010 **M.Sc. in Molecular Medicine/Molecular Diagnostics**

National and Kapodistrian University of Athens, Children’s Hospital Aghia Sophia, Medical School, Athens, Greece

Thesis title: “*Genetics analysis of multiple congenital anomalies in children using molecular karyotype/array-CGH*”

2008 **B.Sc. in Biomolecular Sciences and Biotechnology**

University of Crete, Department of Biology, Heraklion, Crete, Greece

Thesis title: “*Cytogenetic analysis of bone marrow derived from mesenchymal stem cells from patients with chromosomal 5q deletion myelodysplastic syndrome*”

WORK EXPERIENCE & ACADEMIC APPOINTMENTS

09/2025 – Present	Assistant Professor , Florida Atlantic University, Boca Raton, FL
07/2025 – 08/2025	Academic Research Scientist , UC San Diego, La Jolla, CA
08/2024 – 07/2025	Academic Program Manager Officer III , UC San Diego, La Jolla, CA
03/2022 – 08/2024	Senior Research Scientist , CHLA, Los Angeles, CA
06/2016 – Present	Affiliated Research Scientist , Broad Institute of MIT and Harvard, Cambridge, MA
09/2020 – 03/2022	Instructor , Harvard Medical School & Brigham and Women’s Hospital (BWH), Boston
11/2017 – 03/2022	Research Fellow , Dana Farber Cancer Institute, Boston, MA
09/2015 – 09/2020	Postdoctoral Fellow , Harvard Medical School & BWH, Boston, MA
03/2015 – 08/2015	Postdoctoral Fellow , Dept. Neurosurgery, Yale University, New Haven, CT
07/2013 – 12/2014	Research Assistant , Dept. Medical Genetics, Children’s Hospital Aghia Sophia, Greece

TRAINING & RESEARCH SKILLS

Massively Parallel Sequencing (MPS; Illumina Platform)

- Targeted panel sequencing; amplicon sequencing, and exome sequencing
- Large scale data analysis using customized programs in R, Python, MATLAB, and TerraBio pipeline

Genomic & Mitochondrial DNA Variant Analysis

- SNPs; indel; copy numbers, loss of heterozygosity
- Data visualization using R packages (i.e., Maftools, co-mut, and lollipop plots)
- Data interpretation using various databases and sources (i.e., IGV; Varsome, cBioportal, Firehose, OncoKB/GGG; HGMD; ClinVar; ClinGen; OMIN; Mitomap; ExAC, and gnomAD)

Spatial Transcriptomics/10X Genomics

- Giotto Suite & STUtility/Semla toolkit, spatialDWLS, STdeconvolve, SpaCET, CARD deconvolution tools,
- IMC (HistoCAT, Cell Profiler), and Akoya Phenocycler

Bulk RNA-Seq and single cell RNA-seq analysis

- DEseq2 analyses; PCA; hierarchical/k-means clustering; heatmaps; volcano and violin plots; GSEA pathway analysis; CaCTS, and WGCNA
- Large scale analyses using The Cancer Genome Atlas (TCGA) and GTEx datasets
- Seurat, InferCNV, NicheNet, LIANA, CibersortX, Ecotyper, ESTIMATE

ChIP-Seq analysis

- Analysis of histone marks (e.g., H3K27ac) and transcription factors
- GREAT, HOMER motif, and Cistrome toolkit analysis, and ENCODE

CRISPR/Cas9 genome editing, human cell cultures, siRNA and shRNA functional assays, IHC, immunofluorescence, and Western blots

Cell free (cf)-DNA genomic analysis

- Tumor cells from liquid (blood) plasma
- Multi-omics analysis (metabolomics, lipidomics, proteomics) of plasma samples

Proliferation assays, FACS sorting, qPCR, RT-qPCR, RNA in situ hybridization Sanger sequencing, gDNA/cDNA/ChIP library construction, FISH, array-CGH, and G-banding

SCHOLARSHIPS

2011 – 2013: Onassis Scholarship for Ph.D. studies, Alexander S. Onassis Foundation, Greece

2008 – 2010: Onassis Scholarship for M.Sc. studies, Alexander S. Onassis Foundation, Greece

2007: Leventis Scholarship for Excellence in Undergraduate Studies, Greece

2003: Minoan Lines Scholarship for Excellence in Undergraduate Studies, Greece

HONORS & AWARDS

2024: Travel Award, Society of Basic Urologic Research (SBUR), Scottsdale, AZ

2021: Excellence in Research Award, BWH, Harvard Medical School, Boston, MA

2018: Best Presentation Award, Dana Farber Cancer Institute, Boston, MA

2017: Excellence in Research Award, BWH, Harvard Medical School, Boston, MA

2016: Best Presentation Award, Rare Lung Diseases Research Conference, Covington, Kentucky

2013: Best Presentation Award, Annual Human Genetics Conference (SIGE), Athens, Greece

2013: ESHG Conference Fellowship (Travel Grant), European Society of Human Genetics, Paris, France

2011: Papastamatis Award (1st placed), Prestigious Medical Award for Young Investigators, Athens, Greece
2007: Haematology Prize (3rd placed), Annual Greek Hematology Congress, Thessaloniki, Greece

RESEARCH FUNDING

2018 – 2023: PI: D. Kwiatkowski “*Molecular pathogenesis of the hamartoma syndromes*”
(NIH, PO1 GRANT#: 1P01CA120964-12) – (\$2.76 M) - **Role: Project leader**

Proposal objectives: (a) Use unbiased and hypothesis-driven approaches to identify new therapeutic targets to selectively kill cells with activated mTORC1, (b) Identify metabolic vulnerabilities and targets in cancers with mutations in hamartoma genes, and (c) Identify transcriptional driver genes and targeting transcription in TSC.

2020 – 2021: **PI: Krinio Giannikou** “*A multi-omics platform to identify novel non-invasive diagnostic and prognostic biomarkers in LAM patients*” (TSC Alliance) – (\$20 K)

Project objective: Discovery of novel non-invasive target molecules of diagnostic and prognostic value for LAM patients, which may be useful to facilitate the clinical diagnosis, monitor disease activity/severity and predict therapeutic response/disease outcome.

2017 – 2020: **PI: Krinio Giannikou** “*Epigenetic Analysis of TSC tumors to Identify Novel Therapeutic Targets*”
Tuberous Sclerosis Complex Research Program (TSCR), U.S. Army Medical Research Acquisition Activity.
(Department of Defense, GRANT#: 12217283) – (\$150 K)

Proposal objective: Study the transcriptomic and epigenetic profile of kidney angiomyolipomas and lung LAM tumors to identify active enhancer/super-enhancers (cis-regulatory regions of open chromatin highly marked by H3K27ac histone mark) and master transcription factors that drive expression of multiple genes and may play a critical role in kidney AML/LAM tumor development and progression.

2017 – 2019: **PI: Krinio Giannikou** “*Comprehensive Genomic Analysis of Malignant Perivascular Epithelioid Cell Tumors (PEComa)*” (Onassis Foundation, GRANT#: R ZN 001-/2017-2019) – (\$22 K)

Proposal objective: Understand PEComa pathogenesis and unravel the mutation landscape, facilitating diagnostic and prognostic biomarker identification, as well as patient management and therapeutic development.

2025: **PI: Krinio Giannikou** “*Harnessing Methylation Patterns in Liquid Biopsy for Non-Invasive Detection of Post-Chemotherapy Teratoma*” (Academic Senate eGrant- UCSD) – (\$15K)

Proposal objective: Develop a robust, high-throughput, cost-effective, non-invasive liquid biopsy assay for post-chemotherapy teratoma diagnosis and identify epigenetic targets that may overcome chemotherapy resistance.

Pending

DoD/Idea Award R21 - PC250451 **Contact PI: Christina Jamieson** 5% effort

Therapeutic development of ULK inhibitors as an adjuvant therapy in bone metastatic prostate cancer.

The specific aims of this project are: Aim 1. Investigate ULK 1/2 inhibitors for treating therapy resistant metastatic prostate cancer in PCa cell culture models and organoids.

Aim 2. Evaluate therapeutic efficacy of ULK1/2 inhibitors in PDX animal models of bone metastatic castration resistant PCa (bmCRPC). Aim 3. Evaluate ULK1/2 and autophagy pathway activation across clinical states of primary PCa and mCRPC including neuroendocrine prostate cancer (NEPC). **Role: Co-I**

ACS Discovery Boost Award **PI: Krinio Giannikou** 13% effort
Elucidating KHDC3L's role in Germ Cell Tumor Biology.

The specific aims of this project are: Aim 1. Investigate *KHDC3L*'s tumorigenic potential and prognostic significance in GCTs. Aim 2. Identify *KHDC3L*-driven vulnerabilities and novel clinically relevant therapeutic

ACS Discovery Boost Award **PI: Aditya Bagrodia**

12% effort

Non-Invasive Detection of Post-Chemotherapy Teratoma.

The specific aims of this project are: Aim 1: To characterize the methylation landscape of patients with teratomas in remission and those with benign/non-teratomatous lesions and identify novel diagnostic and prognostic epigenetic markers to facilitate differential diagnosis and improve clinical management. Aim 2: To evaluate the impact of top, select hyper- and hypomethylated cancer genes in preclinical cellular and ex vivo GCT models, identifying novel and more effective therapeutic targets to overcome drug resistance. **Role: Co-I**

Curebound Discover Award **PI: Krinio Giannikou**

11% effort

Non-Invasive Detection of Post-Chemotherapy Teratoma.

The specific aims of this project are: Aim 1: To characterize the methylation landscape of patients with teratomas in remission and those with benign/non-teratomatous lesions and identify novel diagnostic and prognostic epigenetic markers to facilitate differential diagnosis and improve clinical management. Aim 2: To evaluate the impact of top select hyper- and hypomethylated cancer genes in preclinical cellular and ex vivo GCT models, identifying novel and more effective therapeutic targets to overcome drug resistance.

Curebound Discover Award **PI: Aditya Bagrodia**

11% effort

Elucidating KHDC3L's role in Germ Cell Tumor Biology.

The specific aims of this project are: Aim 1. Investigate *KHDC3L*'s tumorigenic potential and prognostic significance in GCTs. Aim 2. Identify *KHDC3L*-driven vulnerabilities and novel clinically relevant therapeutic. **Role: Co-PI**

Research Project for Early Career Scientists (FRIPO) **PI: Simin Jamaly**

5% effort

Non-invasive diagnosis and prognosis of Lupus Nephritis: A Multicenter Prospective Cohort Study

The specific aims of this project are: Aim 1: Validate the diagnostic and prognostic performance of PSGL-1 in lupus nephritis (LN) through a prospective, multicenter clinical study. Aim 2: Define PSGL-1-associated immune endotypes in pediatric and adult SLE using whole-blood transcriptomics. Aim 3: Determine the disease specificity of PSGL-1 and associated gene signatures across other autoimmune conditions with and without kidney involvement. **Role: External Collaborator**

PEER-REVIEWED PUBLICATIONS (n=43 papers, h-index = 24, Source: Google Scholar)

<https://scholar.google.com/citations?user=uN3rSEAAAAAJ&hl=en>

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3. **Giannikou K**, Klonowska K, Tsuji J, Zhu Z, Probst CK, Lako A, Wu S, Wu CL, Rodig S, Zen Y, Marino-Enriquez A, Kwiatkowski DJ. *TSC2* inactivation, low mutation burden and high macrophage infiltration characterise hepatic angiomyolipomas. *Histopathology*, 2023 Oct; 83(4):569-581, doi:10.1111/his.15005. PMID: 37679051 [Citations: 3, I.F:6.4]
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phenotype analysis of 95 tuberous sclerosis complex patients with mosaicism. *Am J Hum Genet.* 2023 Jun; 110(6):979-988. doi:10.1016/j.ajhg.2023.04.002, PMID: 37141891 [Citations: 30, I.F:12.6]

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7. Chen JL, Miller D, Schmidt LS, Malkin D, Korf BR, Eng C, Kwiatkowski DJ, **Giannikou K**. Mosaicism in tumor suppressor gene syndromes: prevalence, diagnostic strategies, and transmission risk. *Annu Rev Genomics Hum Genet.* 2022 Aug 31;23:331-361. doi:10.1146/annurev-genom-120121-105450. PMID: 36044908 [Citations: 8, I.F:8.7]
8. Klonowska K, Grevelink J, **Giannikou K**, Ogorek B, Hebert Z, Thorner A, Darling T, Moss, J. Kwiatkowski DJ. Ultrasensitive profiling of UV-induced mutation identifies thousands of subclinical facial tumors in tuberous sclerosis complex. *J Clin Invest.* 2022 May 16;132(10):e155858. doi:10.1172/JCI155858. PMID: 35358092 [Citations: 9, I.F: 15.9]
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10. Lambrou GI, Poulou M, **Giannikou K**, Themistokleous M, Zaravinos A, Braoudaki M. Differential and Common Signatures of miRNA Expression and Methylation in Childhood Central Nervous System Malignancies: An Experimental and Computational Approach. *Cancers (Basel).* 2021 Oct 31; 13(21):5491. doi:10.3390/cancers13215491. PMID: 34771655 [Citations: 2; I.F:5.2]
11. Farré X, Espín R, Baiges A, Blommaert E, Kim W, **Giannikou K**, Herranz C, Román A, Sáez B, Tena-Garitaonandia M, Sánchez de Medina F, Mateo F, Molina-Molina M, Won S, Kwiatkowski DJ, de Cid R and Pujana MA. Evidence for shared genetic risk factors between lymphangioleiomyomatosis and pulmonary function. *ERJ Open Res.* 2022 Jan 24;8(1):375- 2021. doi:10.1183/23120541.00375-2021. PMID: 35083324 [Citations: 1; I.F: 4.2]
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14. **Giannikou K**, Zhu Z, Kim J, Winden KD, Tyburczy ME, Marron D, Parker JS, Hebert Z, Bongaarts A, Taing L, Long HW, Pisano WV, Alexandrescu S, Godlewski B, Nellist M, Kotulska K, Jozwiak S,

Roszkowski M, Mander M, Thiele EA, Lidov H, Getz G, Devinsky O, Lawrence MS, Ligon KL, Ellison DW, Sahin M, Aronica E, Meredith DM, Kwiatkowski DJ. Subependymal giant cell astrocytomas are characterized by mTORC1 hyperactivation, a very low somatic mutation rate, and a unique gene expression profile. *Mod Pathol*. 2021 Feb;34(2):264-279. doi:10.1038/s41379-020-00659-9. PMID:33051600 [Citations: 25; I.F:7.5]

15. Zarei M, **Giannikou K**, Du H, Liu HJ, Duarte M, Johnson S, Nassar A, Widlund H, Henske E, Long H, Kwiatkowski DJ. MITF is a driver oncogene and potential therapeutic target in kidney angiomyolipoma tumors through transcriptional regulation of CYR61. *Oncogene* 2021 Jan;40(1):112-126. doi:10.1038/s41388-020-01504-8. PMID: 33082558 [Citations:21, I.F:8.756]
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2. Morales-Grimany R[#], **Giannikou K[#]**, Delgado C, Pandit K, Baky F, Amini A, Yuen K, Gerald T, Badia R, Taylor J, Wang L, Javier-Desloges J, Margulis V, Woldu S, Salmasi A, Millard F, McKay RR, Bagrodia A. Molecular features and actionable gene targets of testicular germ cell tumors in a real-world setting. (*accepted by the International Journal of Molecular Sciences*; # equal co-first)
3. Rojas EJ, **Giannikou K**, Huang B, Cordero M, Cho SJ, Vu L, Derderian S, Sanders S, MacKenzie T, Laird D. An atlas of sacrococcygeal teratomas reveals X-chromosome heterogeneity (*under revision npj Precision Oncology*; also available in BioRxiv).
4. Nuno MM, Murray MJ Lafin JT, Scarpini CG, Wang Z, Gagan J, Jia L, Lewis CM, Murray S, Smitham J, **Giannikou K**, Jamieson C, Margulis V, Woldu SL, Coleman N, Amatruda JF, Klosterkemper L, Frazier AL, Bagrodia A. Droplet-Digital and Reverse Transcription Quantitative PCR Comparison for Circulating miR-371a-3p in Malignant Germ Cell tumors (*submitted to Molecular Diagnostics*)
5. Dabbas M, Morgan K, Pandit K, Chintala S, Riviere P, Meagher M, Puri D, Nelson T, **Giannikou K**, Minarim DS, Millard F, McKay RR, Rose B, Bagrodia A. Alcohol-related Substance Abuse Amongst Testicular Cancer Survivors: Long Term Follow-up of the Veterans Affairs Health System. (*submitted to Journal of Urology*)
6. Probst CK, Losko M, Adib E, Du H, Hirsch M, **Giannikou K[#]**, Kwiatkowski DJ[#]. *TSC1*-mutant bladder cancer is driven by both TFE3 and mTORC1 activation (equal last co-corresponding author, *manuscript in preparation, Target Nature Medicine*)
7. **Giannikou K**, Lafin JT, Sfakianos J, Horowitz A, Hopkins B, Jamieson C, Yu H, Amatruda JF, Bagrodia A. Transcriptomic Landscape of the Tumor Microenvironment in Testicular Seminoma Reveals Novel Molecular Insights into Pathogenesis (*ready for submission*; target journal Cell Reports)
8. Medvedev KE[#], **Giannikou K[#]**, Savelyeva AV, Lafin JT, Jia L, Wang F, Zhang Y, Smitham J, Jamieson C, Horowitz A, Sfakianos J, Xu L, Amatruda JF, Bagrodia A. Molecular characteristics differentiating teratomas at metastatic sites from primary germ cell tumors of testis (# equal co-first, *ready for submission*; target journal Cell Reports)
9. Cortez-Reyes J, Pandit K, Jamieson C, Bagrodia A, **Giannikou K[#]**. Unraveling Teratomas: Advances in Diagnosis, Treatment, and Patient Care for Ovarian and Testicular Tumors (*ready for submission* # corresponding author; target journal Cancers)
10. Cortez-Reyes J, Nuzzo P, Fanelli GN, Spinella MJ, Chavez L, Bagrodia A, **Giannikou K[#]**. Epigenetic Landscapes of Gonadal and Extragonadal Teratomas: Shared Origins, Divergent Pathways, and Therapeutic Implications (*ready for submission* # corresponding author; target journal British Journal of Cancer)
11. Suresh NT, **Giannikou**, Yang J, Broman MM, Lanman NA, Alqahtani S, Bagrodia A, Jamieson C, Ratliff TL. Single Cell Insights on Inflammation-Induced Transitional States in Benign Prostate Hyperplasia. (manuscript in preparation; target journal British Journal of Cancer)

BOOK CHAPTER(S)

Book Chapter in Honor Essay of Professor Dionysiou Kokkinou, Medical School, Athens (in Greek). Entitled study in English: “Submicroscopic Genomic Rearrangements Detected by Microarray Comparative Genomic Hybridization (array-CGH) in Patients with Congenital Heart Disease” (pages 675-684; 2012)

INVITED TALKS

05/2025: “*Genomic and Transcriptomic Aberrations Differentiating Teratomas at Metastatic Sites from Primary Germ Cell Tumors of Testis*”, **2025 MaGIC Conference, May 1-4, 2025, Pacific Grove, CA**

11/2024: “*Transcriptomic Landscape of Tumor Microenvironment in Testicular Seminoma Reveals Novel Molecular Insights into Pathogenesis*”, **Annual SBUR conference, 14-17 November, 2024, Scottsdale, AZ**

10/2024: “*Multi-omics characterization of malignant perivascular epithelioid cell tumors (PEComas)*”
Charles E. Schmidt College of Medicine, Florida Atlantic University, FL

10/2023: “*Unraveling the testicular seminoma tumor microenvironment by single-cell RNA-sequencing*”
MaGIC Annual Meeting, Oral presentation: Edinburgh, Scotland, UK

06/2023: “*Transcriptomic and epigenetic landscape of TSC related tumors*”. **The LAM Foundation Early Career Researcher Network, Virtual bi-monthly meeting, USA**

10/2021: “*Kidney angiomyolipomas are defined by a unique transcriptional profile and H3K27ac chromatin state*”, **International Research Conference on TSC and LAM: Driving Discoveries Beyond Boundaries, (Virtual Conference, USA)**

07/2019: “*Genetics and epigenetics of tuberous sclerosis complex and lymphangioleiomyomatosis*”, **Institute of Genome Medicine, Nationwide Children’s Hospital, Ohio State University, Columbus, OH**

06/2019: “*Genomic landscape of subependymal giant cell astrocytomas: Unique gene expression profile with few somatic events*”, **International Tuberous Sclerosis Complex Research Conference: Changing the Course of TSC, Toronto ON, Canada**

11/2018: “*Low Level Mosaicism in Tuberous Sclerosis Complex: Mutation Prevalence, Clinical Features and Risk of Disease Transmission*”, **Discover Brigham 2018, BWH, Harvard Medical School, Boston, MA**

06/2017: “*Clinical Manifestations and Mutation Spectrum in 30 Low-mosaic Patients with Tuberous Sclerosis Complex (TSC)*”, **International TSC and LAM Research Conference, Washington, DC**

11/2016: “*Whole Exome Sequencing Identifies TSC1/TSC2 Biallelic Loss as the Primary and Sufficient Driver Event for Renal Angiomyolipoma Development*”, **International TSC and LAM conference, Lisbon, Portugal**

CONFERENCE/MEETING PRESENTATIONS

Calendar year 2025

Jamieson CAM, Murtadha J, Etemadfar N, **Giannikou K**, Muldong M, Oh CS, Koutouan E, Yoon Y, Garcia JC, Mohamed MS, Shin TJ, Lang J, Kwon OS, Oh JJ, Kim MS, Willert K, Bagrodia A, Cacalano NA, Jamieson CHM, McKay RR, Kane CJ, Prussak C, Khachatryan Kulidjian AA, Gaasterland T. *Blockade of Wnt5A/ROR1 Signaling Activated the Androgen Response in Metastatic Castration Resistant Prostate Cancer (mCRPC) patient-derived models* (**AUA- 2025 Annual Meeting, April 26 – 29, 2025, Las Vegas, NV**)

Giannikou K[#], Medvedev KE[#], Savelyeva AV[#], Lafin JT, Jia L, Wang F, Zhang Y, Smitham J, Jamieson C, Horowitz A, Sfakianos J, Xu L, Amatruda AF, Bagrodia A. *Genomic and transcriptomic aberrations differentiating teratomas at metastatic sites from primary germ cell tumors of testis* (**2025 MaGIC Annual Meeting, May 2-5, 2025, Pacific Grove, CA, #equal contribution**)

Rakaee M, Waaler PN, Jabar F, **Giannikou K**, Adib E, Andersen S, Paulsen EE, Kilvaer TK, Jarhelle E, Åberg K, Robertsen EM, Schmidt AY, Yde CW, Baudet C, Helland Å, Pøhl M, Busund LTR, Kwiatkowski DJ, Donnem T. *DRAGEN pipeline validation for somatic variant detection in diagnostics using TSO500 panel.* (2025 ASCO annual meeting, May 30-June 3, 2025, Chicago, IL)

Rakaee M, Thunold S, Tafavvoghi M, Öjlert ÅK, **Giannikou K**, Adib E, Mattsson J, Strell C, Micke P, Kwiatkowski D, Helland A, Haakensen V. *Multimomics profiling for prediction of immunotherapy response in advanced pleural mesothelioma: Sub-study of the NIPU trial.* (2025 ASCO annual meeting, May 30-June 3, 2025, Chicago, IL)

Kuo C, **Giannikou K**, Wang N, Warren M, Goodspeed A, Hayashi M, Raredon MS, Amatruda JF. *Spatial transcriptomics of Ewing sarcoma: evolution of tumor associated extracellular matrix from localized to metastasis-associated primary Ewing sarcomas.* (2025 AACR annual meeting, April 25-30, 2025, Chicago, IL)

Calendar year 2024

Probst CK, Losko MJ, Du H, Wiecha K, Adib E, Rajvanshi A, Kudler S, Farhat EB, Hirsch MS, Long H, Henske EP, Widlund H, Wagner A, **Giannikou K[#]**, Kwiatkowski DJ[#]. *TSC1 mutant bladder cancer is driven by both TFE3 and mTORC1 activation.* (Society of Basic Urologic Research/2024 SBUR annual meeting, November 14-17, 2024 Scottsdale, AZ & Society of Urologic Oncology December 4-6, Dallas, TX, #equal senior contribution)

Kuo C, **Giannikou K**, Wang Y, Warren M, Goodspeed AE, Hayashi M, Raredon S, Amatruda J. *Spatial transcriptomics of Ewing sarcoma: Evolution of tumor microenvironment associated extracellular matrix from localized to metastasis-associated primary tumors* (Accepted for Oral presentation; 2024 CTOS Annual Meeting, 13-16 November 2024, San Diego, CA)

Giannikou K[#], Medvedev KE[#], Savelyeva AV[#], Lafin JT, Jia L, Wang F, Zhang Y, Smitham J, Jamieson C, Horowitz A, Sfakianos J, Xu L, Amatruda AF, Bagrodia A. *Genomic and transcriptomic aberrations differentiating teratomas at metastatic sites from primary germ cell tumors of testis* (Society of Basic Urologic Research/2024 SBUR annual meeting, November 14-17, 2024 Scottsdale, AZ & Society of Urologic Oncology December 4-6, Dallas, TX, #equal contribution)

Giannikou K[#], Lafin JT[#], Sfakianos J, Horowitz A, Hopkins B, Yu H, Amatruda JF, Bagrodia A. *Unraveling the Testicular Seminoma Tumor Microenvironment by Single-Cell RNA-sequencing* Society of Basic Urologic Research/2024 SBUR annual meeting, November 14-17, 2024 Scottsdale, AZ & Society of Urologic Oncology December 4-6, Dallas, TX, #equal contribution)

Calendar year 2023

Lee MH, Louault K, **Giannikou K**, Ding X, Yanovsky A, Park J, DeClerck YA, Asgharzadeh S. *Tumor-associated macrophages and mesenchymal stromal cells modulate adrenergic to mesenchymal state transition in neuroblastoma.* (ANR 2023 15-18 May, Amsterdam, NL; and AACR 14-19 April 2023, Orlando, FL)

Losko MJ, Probst CK, Adib E, Du H, Hirsch MS, **Giannikou K**, Kwiatkowski DJ. *TSC1 mutant bladder cancer is characterized by a TSC-associated gene expression signature due to TFE3 transcriptional activity.* (2023 International TSC Research Conference, 7-9 September 2023 Washington, DC & AACR-NCI- EORTC International Conference on Molecular Targets and Cancer Therapeutics, 11-15 October 2023, Boston,

MA)

Giannikou K, Lee J, Hoenack M, Ding X, Kennedy R, Hung L, Pawel B, Goldsmith K, Marachelian A, Asgharzadeh S. *Unraveling the Tumor Microenvironment in Neuroblastoma using High Throughput Spatial Transcriptomics and Imaging Mass Cytometry*. (2023 Science Day, Children's Hospital Los Angeles, 15 June 2023, Los Angeles, CA)

Giannikou K, Labin JT, Sfakianos J, Horowitz A, Hopkins B, Yu H, Amatruda JF, Bagrodia A. *Unraveling the Testicular Seminoma Tumor Microenvironment by Single-Cell RNA-sequencing*. (2023 MaGIC Annual Meeting, 1-4 October 2023, Edinburgh, Scotland, UK)

Calendar year 2022

Losko MJ, Probst CK, Adib E, Du H, Hirsch MS, **Giannikou K**, Kwiatkowski DJ. “*TSC1 mutant bladder cancer is characterized by a distinct TSC-associated expression signature due to nuclear localization of TFE3*”, (2022 Discover Brigham, 1 November 2022 and 2022 Broad Retreat, Boston, MA)

Giannikou K, Azim AA, Adib E, Schaefer IM, Kesten N, Taing L, Zhu Z, Hornick JL, Hirsch MS, Long HW, Andrew J. Wagner AJ, Hemming ML, David J. Kwiatkowski DJ. “*Distinct oncogenic signatures in malignant PEComa and leiomyosarcoma identified by integrative RNA-seq and H3K27ac ChIP-seq analysis*”, (ASCO 2022 Annual Meeting, 3-6 June 2022, Chicago, IL)

Probst CK, Losko MJ, Adib E, Du H, Hirsch MS, **Giannikou K**, Kwiatkowski DJ. “*TSC1 mutant bladder cancer has a distinct phenotype characterized by lysosomal gene expression and nuclear localization of TFE3*”, (ASCO 2022 Annual Meeting, 3-6 June 2022, Chicago, IL)

Klonowska K, Grevelink J, **Giannikou K**, Aronika E, Ogorek BA, Hebert ZT, Thorner AR, Darling TN, Moss J, Kwiatkowski DJ. “*Analysis of second-hit events in Tuberous Sclerosis Complex normal tissues and lesions*.” (ASCO 2022 Annual Meeting, 25-29 October 2022, Los Angeles, CA)

Calendar year 2021

Giannikou K, Martin K, Hougard TR, Tang Y, McKeigan J, Kwiatkowski DJ, Lam HC. “*Spectrum of Germline and Somatic Mitochondrial DNA Variants in Tuberous Sclerosis Complex*” (Virtual International TSC Research Conference 2021 & ASHG 2021 conference)

Giannikou K, Probst CK, Zarei M, Qiu X, Duarte M, Kesten N, Hebert Z, Vadhi R, Font-Tello A, Cejas P, Yoon CH, Wu CL, Brown M, Henske E, Long H, Kwiatkowski DJ. “*Kidney angiomyolipomas are defined by a unique transcriptomic profile and H3K27ac chromatin state*”. (Virtual International TSC Research Conference 2021, 17-19 June 2021)

Klonowska K, Grevelink J, **Giannikou K**, Ogorek B, Kwiatkowski DJ. “*Millions of incipient angiofibromas in TSC facial skin*.” (Virtual International TSC Research Conference 2021, 17-19 June 2021)

Klonowska K, Grevelink J, **Giannikou K**, Tyburczy M, Kwiatkowski DJ. “*90% TSC1/TSC2 mosaicism detection rate in Tuberous Sclerosis Complex patients without mutation identified in commercial lab*.” (Virtual International TSC Research Conference 2021, 17-19 June 2021)

Giannikou K, Azim AA, Tsuji J, Adib E, Zhu Z, Wu CL, Martignetti G, Henske EP, Ha G, Getz G, Hornick J, Wagner AJ, Kwiatkowski DJ. “*Comprehensive genomic and clinicopathologic characterization of advanced PEComa tumors with metastatic potential*.” (Discover Brigham 2021, 3 November 2021, Boston, MA)

Giannikou K, Azim AA, Adib E, Schaefer IM, Kesten N, Taing L, Zhu Z, Hornick JL, Hirsch MS, Long HW, Andrew J. Wagner AJ, Hemming ML, David J. Kwiatkowski DJ. “*Distinct oncogenic signatures in malignant*

PEComa and leiomyosarcoma identified by integrative RNA-seq and H3K27ac ChIP-seq analysis.” (Excellence Research Award, Discover Brigham 2021, 3 November 2021, Boston, MA)

Probst CK, Adib E, Du H, Hirsch MS, **Giannikou K**, Kwiatkowski DJ. “*TSC1 mutant bladder cancer has a distinct phenotype characterized by lysosomal gene expression and nuclear localization of TFE3*”. (Discover Brigham 2021, 3 November 2021, Boston, MA)

Klonowska K, Grevelink J, **Giannikou K**, Tyburczy M, Kwiatkowski DJ. “*90% TSC1/TSC2 mutation detection rate in TSC patients without mutation identified in commercial labs.*” (Excellence Research Award, Discover Brigham 2021, 3 November 2021, Boston, MA)

Calendar year 2020

Giannikou K, Naunmeko S, Hougard TR, Tang Y, Kwiatkowski DJ, Lam HC. “*Spectrum of Germline and Somatic Mitochondrial DNA Variants in Tuberous Sclerosis Complex*”. (I. Discover Brigham, BWH, Boston, MA 12 November 2020 and II. 16th Annual Broad Retreat, Broad Institute of MIT and Harvard, 16 December 2020, Cambridge, MA)

Giannikou K, Probst CK, Zarei M, Qiu X, Duarte M, Kesten N, Hebert Z, Vadhi R, Font-Tello A, Cejas P, Yoon CH, Wu CL, Brown M, Henske E, Long H, Kwiatkowski DJ. “*Kidney angiomyolipomas are defined by a unique transcriptomic profile and H3K27ac chromatin state.*” (I. AACR Epigenetics and Metabolism Conference, 15-16 October 2020; II. Discover Brigham, BWH, Boston, MA; November 2020 and III. 16th Annual Broad Retreat, Broad Institute of MIT and Harvard, 16 December 2020, Cambridge, MA)

Adib E, Klonowska K, **Giannikou K**, Do K, Pruitt-Thompson S, Bhushan K, Milstein M, Hedglin J, Kargus K, Sholl L, Tsuji J, Hyman D, Sisk A, Shapiro G, Vargas H, Harding J, Voss M, Lyer G, and Kwiatkowski DJ. “*Phase II Clinical Trial of Everolimus for Cancer Patients with Inactivating Mutations in TSC1/TSC2: Genomic Alterations and Response in a Pan-cancer Cohort.*” (Excellence Research Award: I. Discover Brigham, BWH, Boston, MA; November 2020. II 16th Annual Broad Retreat, Broad Institute of MIT and Harvard, 16 December 2020, Cambridge, MA)

Calendar year 2019

Giannikou K, Zhu Z, Kim J, Winden KD, Tyburczy ME, Marron D, Parker JS, Hebert J, Bongaarts A, Taing L, Long HW, Pisano WV, Alexandrescu S, Godlewski B, Nellist M, Kotulska K, Jozwiak S, Roszkowski M, Mandra M, Thiele EA, Lidov H, Getz G, Devinsky O, Lawrence MS, Ligon KL, Ellison DW, Sahin M, Aronica E, Meredith DM, Kwiatkowski DJ. “*Genomic landscape of Subependymal giant cell astrocytomas: unique gene expression profile with few somatic events.*” (American Society of Human Genetics 2019, October 2019, Houston, TX)

Giannikou K, Qiu X, Duarte M, Zarei M, Hebert Z, Vadhi R, Yang T, Yoon CH, Du H, Font-Tello A, Alesi N, Bagwe S, Rao P, Cejas P, Brown M, Henske EP, Long H, Kwiatkowski DJ. “*Epigenetic analysis of kidney angiomyolipomas reveals novel therapeutic targets.*” (2019 International Tuberous Sclerosis Complex Research Conference: Changing the Course of TSC, 06/2019, Toronto ON, Canada)

Giannikou K, Lasseter KD, Grevelink JM, Tyburczy ME, Dies K, Zhu Z, Hamieh L, Wollison BM, Thorner A, Ruoss S, Ruoss SJ, Thiele EA, Sahin M, Kwiatkowski DJ. “*Low level mosaicism in TSC: Prevalence, clinical features and transmission risk.*” (2019 International Tuberous Sclerosis Complex Research Conference: Changing the Course of TSC, 06/2019, Toronto ON, Canada)

Giannikou K, Kim J, Zhu Z, Tyburczy ME, Marron D, Parker JS, Hebert Z, Winden KD, Alexandrescu S, Rosenberg D, Bongaarts A, Nellist M, Kotulska K, Jozwiak S, Devinsky O, Mandra M, Lidov H, Tracy A, Lawrence MS, Thiele EA, Sahin M, Aronica E, Ellison DW, Ligon KL, Meredith DM, Kwiatkowski DJ.

“Genomic landscape of Subependymal giant cell astrocytomas: unique gene expression profile with few somatic events.” (15th Annual Broad Retreat 2019, Broad Institute of MIT and Harvard, December 2019, Cambridge, MA)

Calendar year 2018

Giannikou K, Lasseter KD, Grevelink JM, Tyburczy ME, Dies K, Glass J, Hamieh L, Thorner A, Nag A, Krueger D, Ruoss S, Franz DN, Thiele EA, Sahin M, Kwiatkowski DJ. *“Mutation spectrum and clinical manifestations in low-mosaic patients with Tuberous Sclerosis Complex (TSC).” (American Society of Human Genetics 2018, October 2018, San Diego, CA)*

Giannikou K, Qiu X, Duarte M, Zarei M, Vadhi R, Hebert Z, Tang Y, Yoon CH, Du H, Font-Tello A, Alesi N, Bagwe S, Rao P, Cejas P, Brown M, Henske EP, Long H, Kwiatkowski DJ. *“Analysis of the epigenetic landscape of kidney angiomyolipomas/LAM reveals candidate novel driver genes.” (2018 DF/HCC Preclinical Cancer Science Symposium, Dana Farber Cancer Institute, Boston, MA – Best poster presentation Award)*

Calendar year 2017

Giannikou K, Won S, Kim W, Dreier JR, Tyburczy ME, Silverman EK, Radzikowska E, Henske EP, Hunninghake G, Moss J, Pujana M, Kwiatkowski DJ. *“A LAM Genome Wide Association Study (GWAS) implicates NR2F2 in LAM pathogenesis. (2017 Lung Research Center symposium, BWH, April 2017, Boston, MA)*

Giannikou K, Won S, Kim W, Dreier JR, Qiu X, Tyburczy M, Silverman EK, Radzikowska E, Henske EP, Hunninghake G, Rao P, Long H, Moss J, Pujana M, Kwiatkowski DJ. *“A Genome-Wide Association Study (GWAS) implicates NR2F2 in Lymphangioleiomyomatosis Pathogenesis.” (American Society of Human Genetics 2017, October 2017, Orlando, FL)*

Giannikou K, Won S, Kim W, Dreier JR, Qiu X, Tyburczy M, Silverman EK, Radzikowska E, Henske EP, Hunninghake G, Rao P, Long H, Moss J, Pujana M, Kwiatkowski DJ. *“A Genome Wide Association Study (GWAS) Identifies a Novel Susceptibility Locus Related to Risk for Sporadic Lymphangioleiomyomatosis.” (Excellence Research Award – 2017 Brigham Discover, BWH, November 2017, Boston, MA)*

Giannikou K, Won S, Kim W, Dreier JR, Qiu X, Tyburczy M, Silverman EK, Radzikowska E, Henske EP, Hunninghake G, Rao P, Long H, Moss J, Pujana M, Kwiatkowski DJ. *“A Genome Wide Association Study (GWAS) Identifies a Novel Susceptibility Locus Related to Risk for Sporadic Lymphangioleiomyomatosis.” (13th Annual Broad Retreat, Broad Institute of MIT and Harvard, December 2017 Cambridge, MA)*

Calendar year 2016

Giannikou K, Malinowska IA, Pugh TJ, Yan R, Tseng YY, Oh C, Kim J, Tyburczy ME, Chekaluk Y, Liu Y, Alesi N, Finlay GA, Wu CL, Signoretti S, Meyerson M, Getz G, Boehm JS, Henske EP, Kwiatkowski DJ. *“Whole exome sequencing identifies TSC1/TSC2 biallelic loss as the primary and sufficient driver event for renal angiomyolipoma development.” (Best poster presentation in the 2016 International Rare Lung Diseases Research Conference (RLDC 2016), 22-25 September 2016, Cincinnati, OH)*

Giannikou K, Malinowska IA, Pugh TJ, Yan R, Tseng YY, Oh C, Kim J, Tyburczy ME, Chekaluk Y, Liu Y, Alesi N, Finlay GA, Wu CL, Signoretti S, Meyerson M, Getz G, Boehm JS, Henske EP, Kwiatkowski DJ. *“Whole exome sequencing identifies TSC1/TSC2 biallelic loss as the primary and sufficient driver event for renal angiomyolipoma development.” (Invited talk and Travel Award-International TSC and LAM Research Conference, Lisbon, Portugal, 3-5 November 2016, Lisbon, Portugal)*

Calendar year 2014

Tsoutsou E, Tzetis M, **Giannikou K**, Psoni S, Oikonomakis V, Kanavakis E, Fryssira H. “*High resolution array Comparative Genomic Hybridization (array-CGH) in syndromic microcephaly: clinical interpretation and genotype-phenotype correlation.*” (ESHG conference, May 31-June 3, 2014, Milan, Italy)

Calendar year 2013

Syrmou AA, Tzetis M, Kosma A, Oikonomakis V, **Giannikou K**, Fryssira H, Kanavakis E, Kitsiou-Tzelis S. “*Kleefstra syndrome: the rediscovery of an old syndrome through array Comparative Genome Hybridization technology (array-CGH).*” (ESHG conference, 8-11 June 2013, Paris, France)

Giannikou K, Tzetis M, Fryssira H, Kosma K, Oikonomakis V, Syrmou A, Xaidara A, Kitsiou-Tzeli S, Kanavakis E. “*Clinical application of high-resolution array Comparative Genomic Hybridization (array-CGH) in epileptic disorders.*” (ESHG conference, 8-11 June 2013, Paris, France)

Kosma K, Tzetis M, **Giannikou K**, Oikonomakis V, Xaidara A, Dinopoulos A, Youroukos S, Syrmou A, Kitsiou-Tzeli S, Kanavakis E. “*Serious neurologic entity in two unrelated patients with Xq13.1 duplication.*” (ESHG conference, 8-11 June 2013, Paris, France)

Oikonomakis V, Tzetis M, Kosma K, Syrmou A, **Giannikou K**, Fryssira H, Kanavakis E, Kitsiou-Tzeli S. “*Microarray Comparative Genomic Hybridization analysis (array-CGH) as a diagnostic tool for the investigation of patients with autism or autistic spectrum disorders*” (ESHG conference, 8-11 June 2013, Paris, France)

Karagiannidou A, Varela I, Tzetis M, **Giannikou K**, Petrakou E, Theodosaki M, Goussetis E, Kanavakis E. “*Mesenchymal derivatives of genetically unstable human embryonic stem cells (hESCs) also show genetic alterations but undergo senescence in culture as do bone marrow derived mesenchymal stem cells.*” (ESHG conference, 8-11 June 2013, Paris, France)

Calendar year 2012

Giannikou K, Kitsiou-Tzeli S, Fryssira H, Oikonomakis V, Kosma K, Syrmou A, Xaidara A, Kanavakis E, Tzetis M. “*Array-CGH detection of cryptic genomic rearrangements in children with X- Linked Intellectual Disability.*” (ESHG conference, 23-26 June 2012, Nurnberg, Germany)

Tzetis M, Kitsiou-Tzeli S, Fryssira H, **Giannikou K**, Oikonomakis V, Kosma K, Syrmou A, Xaidara A, Kanavakis E. “*Clinical utility of molecular karyotyping using high resolution array comparative genomic hybridization (aCGH).*” (ESHG conference, 23-26 June 2012, Nurnberg, Germany)

Syrmou A, Tzetis M, Kitsiou-Tzeli S, Fryssira G, Kosma K, Oikonomakis V, **Giannikou K**, Kanavakis E. “*Array comparative Genomic Hybridization (array-CGH) as a clinical diagnostic tool in syndromic and nonsyndromic Congenital Heart Defects.*” (ESHG conference, 23-26 June 2012, Nurnberg, Germany)

Calendar year 2011

Kitsiou-Tzeli S, Stefanaki K, Syrmou A, Kosma K, **Giannikou K**, Oikonomakis V, Choulakis M, Kolialexi A, Makrythanasis P, Tzetis M. “*Cat-eye syndrome phenotype and extragonadal mature teratoma: an unusual case of dup 22q11.1q11.21.*” (ESHG conference, 28-31 May 2011, Amsterdam, Netherlands)

Tzetis M, Kitsiou-Tzeli S, Fryssira H, **Giannikou K**, Oikonomakis V, Syrmou A, Kosma K, Kanavakis E. “*Array-CGH (Agilent 244K and 4x140K) analysis in patients with MR/DD/MCA.*” (ESHG conference, 28-31 May 2011, Amsterdam, Netherlands)

Calendar year 2010

Kitsiou-Tzeli S, Tzetis M, Vogiatzakis N, Kekou K, **Giannikou K**, Pampanos A, Dinopoulos A, Kanavakis M. “*High resolution Agilent 244K oligoarray CGH analysis of a patient with DMD and MR.*” (**Molecular basis of Mendelian disorders-P12.058, ESHG conference, 12-15 June 2010, Gothenburg, Sweden**)

Calendar year 2009

Tzetis M, Vrettou C, Kitsiou-Tzeli S, Frysira H, **Giannikou K**, Pampanos A, Kanavakis E. “*High Resolution Agilent 244K oligoarray CGH analysis in patients with MR/MCA/DD.*” (**ESHG conference, 23-26 May 2009, Vienna, Austria**)

MENTORING & TEACHING EXPERIENCE

As a mentor, supervisor, and academic advisor, I have contributed to the academic development of numerous undergraduate and graduate-level students at Harvard Medical School, CHLA and most recently at UCSD. I have led classes, seminars, and workshops focusing on developing conference abstract and presentation preparation skills, thesis/dissertation research guidance, effective communication skills in scientific speaking, and proposal writing for NIH and DoD Grants. I have 10+ years of experience in training students, research fellows, and medical residents.

2016 – 2022: Lead lecturer, E-mentor, and Tutor in the following programs:

- Harvard Graduate Women in Science and Engineering program
- Young Empowered Scientists for Continued Research Engagement (YES for CURE) program, Dana Farber Cancer Institute. *Summer program to introduce high school and undergraduate students to scientific literature through weekly journal club meetings*
- Broad Summer Research Program (BSRP), Broad Institute of MIT and Harvard Medical School *An intensive nine-week research opportunity in biomedical research for underrepresented students*
- Master’s in medical sciences (MAMS) Program Boston University
- Mentoring Circles Program (MCP), BWH, Harvard Medical School

2022 – 2025: Mentor and research advisor of medical students/clinical fellows

- Johnny Lee, Medical Student, Keck School of Medicine, University of Southern California, Los Angeles, CA
- Michael Hoenack, Medical Student, Creighton University, School of Medicine, AZ
- Christopher Kuo, M.D., Clinical Research Fellow PGY-6, CHLA, Los Angeles, CA
- Josue Cortez-Reyes, Medical Student, University of Nevada, Reno, NV

2020– 2021: Co-mentor of junior Research Fellows at BWH (MCP)

- Frederike Kramer, Ph.D.; Lien Nguyen, Ph.D., Hong Yong Peh, Ph.D., Xichi Wang, M.D.,
- Ruihan Tang, Ph.D., M.D., Hengcheng Zhang, Ph.D.

2019– 2020: Co-mentor of junior Research Fellows at BWH (MCP)

- Fillippo Rossignoli, Ph.D.; Andrew W. Russell, Ph.D., Tengteng Wang, Ph.D.,
- Nandita Perumal, Ph.D., Fei Guo, Ph.D., Mian Wang, Ph.D.

2019-2021: Mentor and direct supervisor of graduate students from MAMS, Boston University, MA

- Clemens Probst (now PhD candidate in Neuroscience, University of Vermont)
- Jillian L. Chen, UC Berkeley (now at Boston University School of Medicine)

2016-2025: Mentor and direct supervisor of undergraduate students

- Zachary Zhu, Brown University (2016-2018)
- Ahmad Abdel-Azim, Harvard College (2020-2022)
- Antonios R. Rios, Stanford University (2020) (now PhD candidate in Harvard-MIT HST MEMP)

- Emily Wang, University of Southern California (2022)
- Kim T. Ha, University of Washington (now at UPenn Ph.D. program) (2021)
- Sophie Kudler, Summer trainee, William H. Hall High School, CT (now undergrad at U. Penn) (2020-2022)
- Emma Hunt, University of Wisconsin-Madison (now at Albany Medical College) (2016-2018)
- Karmanmeet Singh, Molecular and Cell Biology UC San Diego (2024-2025)
- Kathleen Anne Evangelista, San Diego Mesa College (transfer to UC Berkeley) (2025)
- Gabriella Manansala, San Diego Mesa College (transfer to UC Irvine) (2025)
- Rafael Morales Grimany, Universidad Central del Caribe, Puerto Rico (2025)
- Theresa Payyappilly, Integrative Human Biology, College of Letters & Sciences, UC Berkeley (2025)

EDITORIAL ACTIVITIES

2023: Editorial Board Member of International Journal of Genetics and Genomics

2022: Guest Editor, Special Issue: “*Epigenetics in the Central Nervous System*” for the journal Genes

2022: Review Editor in *Frontiers in Pediatrics, Frontiers in Oncology, and Frontiers in Genetics* **2021:**

Editorial Board Member, Cell Journal. Role: Proposing hot topics and editing Special Issues

2012 – present: Reviewer in the following journals: Biomedicine, BMC Medical Genetics, Cells, Disease Markers, GENE, Genes, European Journal of Paediatric Neurology, European Journal of Medical Genetics, Frontiers in Oncology, International Journal of Molecular Sciences, Cancers (Basel), Frontiers in Bioscience-Landmark, Frontiers in Molecular Biosciences, Medical Science, npj Precision Oncology, Tumor Biology, PLoS One.

LEADERSHIP EXPERIENCE AND PROFESSIONAL SERVICES

2025: Scientific Panel Reviewer, NIH Common Fund

2024: Scientific Panel Reviewer, Department of Defense, CDMRP RCRP Sarcoma & GBRP

2023: Scientific Panel Reviewer, TSC Alliance Grants

2022 & 2023: Scientific Panel Reviewer, Department of Defense, CDMRP FY22 & FY23 TSCRP

2023: Co-chair, 20th Annual World Congress of Society for Brain Imaging and Therapeutics, Los Angeles, CA,

2022: Invited judge, The Saban Research Institute (TSRI) Science Day: Regenerative Medicine 2022, CHLA, Los Angeles, CA

2020–2022: Elected General Secretary, Hellenic Bioscientific Association of the USA (HBA-USA)

2021: Co-organizer of 2021 Broad Retreat, Broad Institute of MIT and Harvard, Cambridge, MA

2021: Selection Committee, 2021 Broad Summer Research Program, Cambridge MA

2018–2021: Poster Judge, Annual Broad Retreat, Broad Institute of MIT and Harvard, Cambridge, MA

2019: Session co-organizer, 2019 International TSC Research Conference, Toronto ON, Canada

2017: Co-organizer, 2017 International LAM disease/TSC Research Conference Washington, DC

2017: Invited lecturer, School of Science, Kitasato University, Japan (undergraduate program)

2011: Data collection/Analysis Coordinator, National Statistical Service of Greek population Census, Greece

PROFESSIONAL ORGANIZATION MEMBERSHIP

2024 – present: Society of Basic Urological Research

2022 – present: American Society of Clinical Oncology

2020 – present: American Association of Cancer Research

2018 – present: National Postdoctoral Association

2016 – present: American Society of Human Genetics

2015 – present: Tuberous Sclerosis Complex Alliance

2015 – present: International Behavioral and Neural Genetics Society
2015 – present: Hellenic Society for Neuroscience
2015 – present: Federation of European Neuroscience Societies
2015 – present: Hellenic Bioscientific Association of the USA
2015 – present: Yale Postdoctoral Alumni Association

COMPREHENSIVE CURRICULUM VITAE

Name: Patrick A. Grant, Ph.D.

Institutional Affiliation: Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University.

Contact Information: Email: grantp@health.fau.edu

Professional Overview

Administration and Service: I serve as Chair of the Department of Biomedical Science and Senior Associate Dean for Research at Florida Atlantic University (FAU) College of Medicine. As Chair I oversee faculty recruitment, budgeting, development and mentoring initiatives, promotion and tenure review, post-tenure review, performance evaluations, assignments, and approval of grant submissions. Department funding was instrumental in FAU achieving Carnegie R1 status for the first time in 2025. As part of the College Cabinet I have oversight of all College research budgeting and expenditures, research grant submissions, grant management, compliance, and equipment, space and research initiatives. The College of Medicine rose from “unranked” in 2018 and 106th in 2023 to “tier 3” or top 53-87 medical schools in research among the nearly 200 osteopathic and allopathic schools in the country in the latest US News and World Report rankings. Research expenditures rose to \$31.5M, a 31% increase over 5 years. I am a founding executive committee member of the Memorial Healthcare System and FAU Cancer Center and serve as a member of the Institute for Human Health & Disease Intervention and the Stiles-Nicholson Brain Institute. Prior to joining FAU I was the Associate Dean of Graduate & Medical Scientist Programs at the University of Virginia School of Medicine (UVA), which is ranked as a top 30 medical school for research. There I had oversight of the Graduate Programs Office and Biomedical Sciences PhD, MD/PhD and MS programs, recruitment and admissions, visiting and summer research programs, submission and administration of 10 NIH-T32 and 1 NIH-MSTP training grants, and fellowships. I developed a \$14.8M income and expenditures budget for FY21 that included the first increase in student stipends in four years and directed the recruitment of the 2020 Biomedical Sciences (BIMS) class with a record 45% matriculation rate. I also transitioned the BIMS program to remote training due to the COVID-19 pandemic. I have extensive experience with multiple graduate/medical programs, training grant membership, national and international scientific review panels, journal editorial boards, and membership on the American Society for Biochemistry and Molecular Biology’s meeting committee.

Research and Scholarship (h-index 45, i10-index 64, 13,845 citations): I have a research program that has been continually funded for 25 years and investigates the function of histone modifications in health and disease, particularly in the processes of gene transcription and genome integrity. I have specific training in immunology, biochemistry, and epigenetics and a broad background in molecular biology and neuroscience. I was the first to isolate the SAGA histone acetyltransferase complex, and identified numerous other native complexes and characterized their function in transcription. I continued these studies with a Burroughs Wellcome Career Award as a faculty member at the University of Virginia School of Medicine. My research has included studies that addressed the mechanism of epigenetic dysfunction in neurodegenerative disease and has expanded to study the epigenomics of cellular proliferation, histone modifications that mediate resistance to genotoxic cancer chemotherapeutics, the epigenetic basis and therapeutic interventions for disease in SCA7, and NIH-funded projects on the molecular mechanisms underlying substance use disorders. In 2023, I was the first investigator at FAU to ever receive an award from the Florida Department of Health Live Like Bella Foundation. I have also received funding from Burroughs Wellcome, DOD, the NIH NIDDK, NIGMS, NINDS and additionally as a collaborator from NIDA and NCI. This amounts to more than \$14,000,000 in federal funding with an additional 8 internal awards during this period.

Teaching: I have taught, trained and mentored medical, graduate and undergraduate students, developed curricula and teaching/assessment materials, and helped co-direct a graduate course “Emerging Applications in Oncology & Pharmacology” at FAU. I have received teaching awards that include the Jefferson Scholars Foundation Award, the UVA School of Medicine Award for Excellence in Teaching, the UVA medical student-nominated Mullholland Award three times, and the Outstanding PBL facilitator award at FAU.

Education/Employment History

2023-present Chair of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2025-present Senior Associate Dean for Research, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2023-2025 Interim Senior Associate Dean for Research, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2023-present Professor with tenure, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2022-present Member, Stiles-Nicholson Brain Institute, Florida Atlantic University.

2021-present Executive Committee, Memorial Healthcare System and Florida Atlantic University Cancer Center.

2021-2023 Associate Chair of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2020-present Affiliate Associate Professor of Biological Sciences, Charles E. Schmidt College of Science, Florida Atlantic University.

2020-present Member, Institute for Human Health & Disease Intervention, Florida Atlantic University.

2020-2023 Associate Professor with tenure, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University.

2020-2025 Visiting Associate Professor, University of Virginia School of Medicine.

2019-2020 Associate Dean for Graduate and Medical Scientist Programs, University of Virginia School of Medicine.

2013 Visiting Scientist, GlaxoSmithKline, Stevenage, United Kingdom.

2007-2020 Associate Professor with tenure, Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine.

2005-2007 Associate Professor, Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine.

2000-2020 Member, University of Virginia Comprehensive Cancer Center.

2000-2005 Assistant Professor, Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine.

1995-2000 Postdoctoral training, Howard Hughes Medical Institute, Pennsylvania State University. Advisor: Dr. Jerry Workman. Research Area: Epigenetics and Transcriptional Regulation.

1991 Ph.D. training, Brandeis University. Advisor: Dr. Ranjan Sen. Research Area: Molecular Immunology.

1989-95 Ph.D. in Medicine, Karolinska Institute, Stockholm, Sweden. Advisor: Dr. Sven Pettersson. Research Area: Regulation of Immunoglobulin gene expression.

1986-89 B.Sc. Biology and Parasitology (honors), University of Portsmouth, United Kingdom.

Scholarship/Research/Creative Activity

*(Undergraduate students double underlined; graduate student, postdocs or research staff single underlined. *Communicating author)*

Refereed Journal Articles

- 1 Towers, E.B., Shapiro, D.A., Abel, J.M., Bakhti-Suroosh, A., Kupkova, K., Auble, D.T., **Grant, P.A.** and Lynch W.J. (2023) Transcriptional Profile of Exercise-Induced Protection Against Relapse to Cocaine Seeking in a Rat Model. *Biological Psychiatry Global Open Science* 3, 734-745.
- 2 Kupkova, K., Shetty, S.J., Pray-Grant M.G., **Grant, P.A.**, Haque, R., Petri, W.A. Jr, and Auble D.T. (2023) Globally elevated levels of histone H3 lysine 9 trimethylation in early infancy are associated with poor growth trajectory in Bangladeshi children. *Clin Epigenetics* 11;15(1):129.

- 3 Pray-Grant, M.G. and **Grant, P.A.*** (2021) A Device for Ultraviolet Light Sanitization of Face Masks. *Biomed J Sci & Tech Res* 36 (5): 28851-28856.
- 4 Morris, B.B., Wages, N.A. **Grant, P.A.**, Stukenberg, P.T., Gentzler, R.D., Hall, R.D., Akerley, W.L., Varghese, T.K., Arnold, S.M., Williams, T.M., Coppola, V., Jones, D.R., Auble, D.T. and Mayo M.M (2021) MYBL2-Driven Transcriptional Programs Link Replication Stress and Error-prone DNA Repair with Genomic Instability in Lung Adenocarcinoma. *Front Oncol* 10, 585551.
- 5 **Grant P.A.**, Winston F., and Berger S.L. (2021) The biochemical and genetic discovery of the SAGA complex. *Biochim Biophys Acta Gene Regul Mech.*1864(2):194669.
- 6 Pray-Grant, M.G. and **Grant, P.A.*** (2020) Anticipating Change: An Epigenetic Switch in Reprogramming the Social Lives of Ants. *Mol Cell* 77, 205-206.
- 7 Abel, J.M., Nesil, T., Bakhti-Suroosh, A., **Grant, P.A.** and Lynch W.J. (2019) Mechanisms underlying the efficacy of exercise as an intervention for cocaine relapse: a focus on mGluR5 in the dorsal medial prefrontal cortex. *Psychopharm.* 236, 2155-2171.
- 8 Torok, M.S., Pray-Grant, M.G., Grant, B.M., Josephs, M.E and **Grant, P.A.*** (2019) The Novel ReNu (Required for Nucleosomal Acetylation) region of TAF12 regulates Gcn5 nucleosomal acetylation. *J. Mol. Genet.* 2, 1-9.
- 9 Uchiyama, R., Kupkova, K., Shetty, S.J., Linford, A.S., Pray-Grant, M.G., Wagar, L.E., Davis, M.M., Haque, R., Gaultier, A., Mayo, M.W. **Grant, P.A.**, Petri, W.A., Bekiranov, S. and Auble D.T. (2018). Histone H3 lysine 4 methylation signature associated with undernutrition. *Proc Natl Acad Sci U S A.* 115, 11264-11273.
- 10 Lan, X., Evangelia, K., Schibler, A., Chen, Y.C., **Grant P.A.** and Sharon Y. R. Dent, S.Y.R (2015) PolyQ expansions in ATNX7 affect solubility but not activity of the SAGA deubiquitinating module. *Mol. Cell. Biol.* 35, 1777-1787.
- 11 Burke, T.L., Miller, J.L. and **Grant, P.A.*** (2013) Direct inhibition of Gcn5 catalytic activity by polyglutamine-expanded Ataxin-7. *J. Biol Chem* 288, 34266-34275.
- 12 Chen, Y.C., **Grant, P.A.** and Dent, S.R.* (2012) SCA7: Is the rub in the DUB? *Trends in Cell & Molecular Biology* 7, 73-79.
- 13 McCullough, S.D., Xu, X., Dent, S.R., Bekiranov, S., Roeder R.G. and **Grant P.A.*** (2012) Reelin is a target of polyglutamine expanded Ataxin-7 in human spinocerebellar ataxia type 7 (SCA7) astrocytes. *Proc Natl Acad Sci U S A* 109, 21319-21324.
- 14 Chen, Y.C., Lewis, R.W., Zoghbi, H.Y., **Grant, P.A.** and Dent, S.R.* (2012) Gcn5 loss-of-function accelerates cerebellar and retinal degeneration in *polyQ-Atxn7* knockin mice. *Hum Mol Genet.* 21, 394-405.
- 15 Gan, Q., Thiebaud, P., Theze, N., Jin, L., Xu, G., **Grant, P.A.** and Owens, G.K.* (2011) WD repeat-containing protein 5, a ubiquitously expressed histone methyltransferase adaptor protein, regulates smooth muscle cell selective gene activation through interaction with pituitary homeobox 2. *J. Biol Chem* 286, 21853-21864.
- 16 Lee, K.K., Sardi, M.E., Swanson, S., Torok, M.S., **Grant, P.A.**, Florens, L., Workman, J.L., and Washburn, M.P.* (2011) Combinatorial depletion analysis to assemble the network architecture of the SAGA and ADA chromatin remodeling complexes. *Mol Syst Biol* 7, 503.
- 17 Burke, T.L., Bian, C., Xu, C., Ruan, J., Lee, K.K., Tempel, W., Li, J., Wu, M., **Grant, P.A.**, Mer, G., Workman, J.L., Zang, J. and Min, J.* (2011) Structural basis of Sgf29 tandem tudor domain selectively binding methylated histone H3K4 to regulate the enzymatic activity of SAGA complex. *EMBO J.* 30, 2829-2842.
- 18 Stolzenberg, D.S., **Grant, P.A.** and Bekiranov, S*. (2011) Epigenetic methodologies for behavioral scientists. *Horm Behav* 59, 407-416.
- 19 McCullough S.D. and **Grant P.A.*** (2010) Histone acetylation, acetyltransferases and ataxia – alteration of histone acetylation and chromatin dynamics is implicated in the pathogenesis of polyglutamine-expansion disorders. *Adv Protein Chem Struct Biol.* 79,165-203.
- 20 Ding, S-Z., Fischer, W., Kaparakis-Liasko, M., Liechti, G., Merrell, D.S., **Grant, P.A.**, Ferrero, R.L., Crowe, S.E., Haas, R., Hatakeyama, M. and Goldberg J.B.* (2010) *Helicobacter pylori*-Induced Histone Modification, Associated Gene Expression in Gastric Epithelial Cells, and its Implication in Pathogenesis. *PLoS One*, 5, e9875.

- 21 Baker, S.P., Phillips, J.M., Anderson, S., Shabanowitz, J., Yates, J.R., Hunt, D.F. and **Grant, P.A.*** (2010) H3 T45 phosphorylation is a replication-associated post-translational histone modification in *S. cerevisiae*. *Nature Cell Biology* 12, 294-298.
- 22 Tsai, H.W., **Grant, P.A.** and Rissman E.F.*. (2009) Sex differences in histone modifications in the neonatal mouse brain. *Epigenetics*, 4, 47-53.
- 23 Baker, S.P. and **Grant, P.A.*** (2008) The SAGA continues:expanding the cellular role of a transcriptional coactivator. *Oncogene*, 26, 5329-5340.
- 24 Daniel, J.A. and **Grant, P.A.*** (2007) Multi-tasking on chromatin with the SAGA coactivator complexes. *Mutat Res*, 618, 135-148.
- 25 Baker, S.P. and **Grant, P.A.*** (2006) The proteasome: not just degrading anymore. *Cell* 123, 361-363.
- 26 Torok, M.S. and **Grant, P.A.*** (2006) The Generation and Recognition of Histone Methylation. *Results Probl Cell Differ.* 41:25-46.
- 27 Daniel, J.A., Pray-Grant, M.G. and **Grant, P.A.*** (2005) Effector proteins for methylated histones: an expanding family. *Cell Cycle* 4, 136-143.
- 28 McMahon S.J., Pray-Grant M.G., Schieltz D., Yates J.R., **Grant P.A.*** (2005) Polyglutamine-expanded spinocerebellar ataxia-7 protein disrupts normal SAGA and SLIK histone acetyltransferase activity. *Proc Natl Acad Sci U S A* 102:8478-8482.
- 29 Pray-Grant, M.G., Daniel, J.A., Schieltz, D., Yates, J.R. and **Grant, P.A.*** (2005) Chd1 chromodomain links histone H3 methylation with SAGA- and SLIK-dependent acetylation. *Nature* 433 434-438.
- 30 Ramakrishnan, G., Gilchrist, C.A., Torok, M.S., **Grant, P.A.**, Mann, B.J., and Petri, W.A.* (2004) Histone acetyltransferases and deacetylases in *Entamoeba histolytica*. *Mol. Biochem. Parasitol.* 138, 205-216.
- 31 Ramsey, K., Smith, J.J., Dasgupta, A., Maqani, N., **Grant, P.A.** and Auble, D.T.* (2004). The NEF4 complex regulates Rad4 levels and utilizes Snf2/Swi2-related ATPase activity for nucleotide excision repair. *Mol. Cell. Biol.* 24, 6362-6378.
- 32 Thomashevski, A., High, A.A., Drozd, M., Shabinowitz, J., Hunt, D.F., **Grant, P.A.** and Kupfer, G.M.* (2004) The Fanconi anemia core complex forms 4 different sized complexes in different subcellular compartments. *J Biol Chem.* 279, 26201-26209.
- 33 Torok, M.S. and **Grant, P.A.*** (2004) Histone acetyltransferase (HAT) proteins contribute to transcriptional processes at multiple levels. *Adv. Protein. Chem.* 67, 181-199.
- 34 McMahon, S.J., Doyon, Y., Côté J. and **Grant, P.A.*** (2004) Identification and analysis of native HAT complexes. In *Chromatin and Chromatin remodeling enzymes. Methods in Enzymology* 377, 154-167.
- 35 Daniel, J.A., Torok, M.S., Sun, Z.-W., Schieltz, D., Allis, C.D., Yates, J.R. and **Grant, P.A.*** (2004) Deubiquitination of histone H2B by a yeast acetyltransferase complex regulates transcription. *J. Biol. Chem.* 279, 1867-1871.
- 36 Nourani, A., Howe, L., Pray-Grant, M.G., Workman, J.L., **Grant P.A.** and Cote, J.* (2003) Opposite role of yeast ING family members in p53-dependent transcriptional activation. *J. Biol. Chem.* 278, 19171-19175.
- 37 Pray-Grant, M.G., Schieltz, D., McMahon, S.J., Wood, J.M., Kennedy, E.L., Cook, R., Workman, J.L., Yates, J.R. and **Grant, P.A.*** (2002) The novel SLIK histone acetyltransferase complex functions in the yeast retrograde response pathway. *Mol. Cell. Biol.* 22, 8774-8786.
- 38 Bird, A.W., Yu, D.Y., Pray-Grant, M.G., Qiu, Q., Harmon, K.E., Megee, P.C., **Grant, P.A.**, Smith, M.M. and Christman, M.F.* (2002) Acetylation of histone H4 by Esa1 is required for DNA double strand break repair. *Nature* 419, 411-415.
- 39 Flinn, E.M., Wallberg, A.E., Hermann, S., **Grant, P.A.**, Workman, J.L. and Wright, A.P.* (2002) Recruitment of Gcn5-containing complexes during cMyc-dependent gene activation: Structure and function aspects. *J. Biol. Chem.* 277, 23399-23406.
- 40 Pray-Grant, M.G., Balasubramanian, R., Selleck, W., **Grant, P.A.**, Tan, S.* (2002) Role of the Ada2 and Ada3 transcriptional coactivators in histone acetylation. *J. Biol. Chem.* 277, 7989-7995.
- 41 Strahl, B.D., **Grant, P.A.**, Briggs, S.D., Sun, Z.-W., Bone, J.R., Caldwell, J.A., Mollah, S., Cook, R.G., Shabanowitz, J., Hunt, D.F., and Allis, C.D.* (2002) Set2 is a nucleosomal histone H3-selective methyltransferase that mediates transcriptional repression. *Mol. Cell. Biol.* 22, 1298-1306.
- 42 Howe, L., Auston, D., **Grant, P.A.**, John, S., Cook, R.G., Workman, J.L. and Pillus, L.* (2001) Histone H3 specific acetyltransferases are essential for cell cycle progression. *Genes Dev.* 15, 3144-3154.
- 43 **Grant, P.A.*** A tale of histone modifications (2001) *Genome Biol* 2, 0003.1-0003.6.

- 44 Lechner T, Carrozza M.J., Yu Y., **Grant P.A.**, Eberharter A., Vannier D., Brosch G., Stillman D.J., Shore D, Workman J.L.* (2000) Sds3 (Suppressor of Defective Silencing 3) is an integral component of the yeast Sin3/Rpd3 HDAC complex required for histone deacetylase activity. *J. Biol. Chem.* 275, 40961-40966.
- 45 John, S., Howe, L., Tafrov, S.T., **Grant, P.A.**, Sternglanz, R., Workman, J.L.* (2000) The something about silencing protein, SAS3, is the catalytic subunit of NuA3, a yTAF(II)30-containing HAT complex that interacts with the Spt16 subunit of the yeast CP (Cdc68/Pob3)-FACT complex. *Genes Dev* 14, 1196-1208.
- 46 Allard, S., Utley, R.T., Savard, J., Clarke, A., **Grant, P.A.**, Brandl, C.J., Pillus, L., Workman, J.L. and Côté, J.* (1999) NuA4, an essential transcription adaptor/histone H4 acetyltransferase complex containing Esa1p and the ATM-related cofactor Tra1p. *EMBO J.* 18, 5108-5119.
- 47 Wallberg, A.E., Neely, K.E., Gustafsson, J.-Å., Workman, J.L., Wright, A.P.H. and **Grant, P.A.*** (1999) Histone acetyltransferases complexes can mediate transcriptional activation by the major glucocorticoid receptor activation. *Mol. Cell. Biol.* 19, 5952-5959.
- 48 Massari, M.E., **Grant, P.A.**, Pray-Grant, M.G., Berger, S.L., Workman, J.L. and Murre, C.* (1999) A conserved motif present in a class of helix-loop-helix-proteins activates transcription by direct recruitment of the SAGA complex. *Mol. Cell* 4, 63-73.
- 49 **Grant P.A.** and Berger, S.L.* (1999) Histone acetyltransferase complexes. *Semin Cell Dev Biol* 10, 169-177.
- 50 Steger, D.J., Utley, R.T., **Grant, P.A.**, John, S., Eberharter, A., Côté, J., Owen-Hughes, T., Ikeda, K. and Workman, J.L.* (1999) Regulation of transcription by multisubunit complexes that alter nucleosome structure. *Cold Spring Harb Sym* 63, 483-491.
- 51 **Grant, P.A.**, Eberharter, A., John, S., Cook, R.G., Turner, B.M. and Workman, J.L.* (1999) Expanded lysine acetylation specificity of Gcn5 in native complexes. *J. Biol. Chem.* 274, 5895-5900.
- 52 Sterner, D, **Grant, P.A.**, Roberts, S.M., Duggan, L.J., Belotserkovskaya, R., Pacella, L.A., Winston, F., Workman, J.L., and Berger, S.L.* (1999) Functional organization of the yeast SAGA complex: Distinct components involved in structural integrity, nucleosome acetylation and TBP binding. *Mol. Cell. Biol.* 19, 86-98.
- 53 Allard, S., Utley, R.T., Savard, S., Clarke, A., **Grant, P.A.**, Brandl, C.J., Pillus, L., Workman, J.L. and Côté, J.* (1999) The NuA4 transcription activation/histone H4 acetyltransferase complex contains the essential Esa1 protein as the catalytic subunit and the essential ATM-related cofactor Tra1p. *Biochem Cell Biol.* 77, 383.
- 54 Eberharter, A., John, S., **Grant, P.A.**, Utley, R.T. and Workman, J.L.* (1998) Identification and analysis of yeast nucleosomal histone acetyltransferase complexes. *Methods* 15, 315-321.
- 55 **Grant, P.A.**, Schieltz, D., Pray-Grant, M.G., Yates III, J.R., and Workman, J.L.* (1998) The ATM-related Cofactor Tra1 is a Component of the Purified SAGA Complex. *Mol. Cell* 2, 863-867.
- 56 **Grant, P.A.** and Workman, J.L.* (1998) Transcription: A lesson in sharing ? *Nature*, 396, 410-411.
- 57 Steger, D.J., Eberharter, A., John, S., **Grant, P.A.** and Workman J.L.* (1998) Purified histone acetyltransferase complexes stimulate HIV-1 transcription from preassembled nucleosomal arrays. *Proc. Natl. Acad. Sci. USA* 95, 12924-12929.
- 58 Utley, R.T., Ikeda, K., **Grant, P.A.**, Côté, J., Steger, D.J., Eberharter, A., John, S. and Workman, J.L.* (1998) Transcriptional activators target histone acetyltransferase complexes to nucleosomes. *Nature* 394, 498-502.
- 59 **Grant, P.A.**, Sterner, D.E., Duggan, L.J., Workman J.L., and Berger, S.L.* (1998) The SAGA unfolds: convergence of transcription regulators in chromatin-modifying complexes. *Trends Cell Biol.* 8, 193-197.
- 60 **Grant, P.A.**, Schieltz, D., Pray-Grant, M.G., Steger, D.J., Reese, J.C., Yates III, J.R., and Workman, J.L.* (1998) A subset of TAF_{II}s are integral components of the SAGA complex required for nucleosome acetylation and transcriptional stimulation. *Cell* 94, 45-53.
- 61 **Grant, P.A.**, Duggan, L., Côté, J., Roberts, S.M., Brownwell, J., Candau, R., Ohba, R., Owen-Hughes, T., Allis, C.D., Winston, F., Berger, S.L. and Workman, J.L.* (1997) Yeast Gcn5 functions in two multisubunit complexes to acetylate nucleosomal histones: characterization of an Ada complex and the SAGA (Spt/Ada) complex. *Genes Dev.* 11, 1640-1650.
- 62 Thøger Andersen, A.S., Jensen, A.W., **Grant, P.A.**, Arulampalam, V., Pettersson, S. and Junker, S.* (1997) Concomitant downregulation of IgH 3' enhancer activity and c-myc expression in a plasmacytoma x fibroblast environment: implications for dysregulation of translocated c-myc. *Mol. Immunol.* 34, 97-107.

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- 66 **Grant, P.A.**, Thompson, C.B. and Pettersson, S.* (1995) IgM receptor mediated transactivation of the IgH 3' enhancer couples a novel Elf-1-AP-1 protein complex to the developmental control of enhancer function. *EMBO J.* 14, 4501-4513.
- 67 Arulampalam, V., **Grant, P.A.**, Poellinger, L. and Pettersson, S.* (1995) Aberrant Regulation of the Immunoglobulin 3' Enhancer by c-Myc in Plasmacytoma Cells. *Mol. Immunol.* 32, 1369-1375.
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Book Chapters

- 72 Lee, C.Y. and **Grant, P.A.*** (2018) The Role of Histone Acetylation and Acetyltransferases in Gene Regulation. In *Toxicoepigenetics: Core Principles and Applications* 2nd ed., 3-30. McCullough, S.D. and Dolinoy D.C. eds. (Academic Press).
- 73 Miller, J.L. and **Grant, P.A.*** (2012) The Role of DNA Methylation and Histone Modifications in Transcriptional Regulation. In *Epigenetics: Development and Disease, Subcellular Biochemistry* 61, 289-317. T.K. Kundu ed. (Springer Science+Business Media Dordrecht).
- 74 Burke, T.A. and **Grant, P.A.*** (2010) Lysine Acetyltransferases. In *Handbook of Cell Signaling* 2nd ed., 2369-2378. Bradshaw, R.A. and Dennis, E.A. eds. (Elsevier Inc.).
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Works Currently Under Review

- 77 Sendinc, E., Hoang, S.A., Xu, X., Bekiranov, S. and **Grant P.A.*** The replication kinase Cdc7 marks histones to regulate biosynthesis genes. *Under revision.*
- 78 Miller, J.L., Pray-Grant, M.G., Sendinc E., and **Grant, P.A.*** Sas2 Acetylation of H4K16 Regulates Dot1 Methyltransferase Activity through Stimulation of H3K79. *Under revision.*
- 79 Towers E.B., Williams, I., Qillawalla, E.I., Setaro, B., Hsu, K.A., Pray-Grant, M.G., **Grant, P.A.** and Lynch, W.L. CP-AMPA Receptors Drive the Telescoping Effect in Female Rats for the Development of a Cocaine Addiction-Like Phenotype. *Under revision.*

Patents

Grant, P.A. "Apparatus and method for UV-C mask sanitization". Non-Provisional Patent Application PCT/US2021/052383, F1193/20054.

Grant, P.A. "Apparatus and method for UV-C sanitization of contaminated masks in a household or workplace environment". Provisional Patent Application Serial No. 63/087,488.

Grant, P.A. and **McCullough, S.D.** "Compositions and Methods for Treating Spinocerebellar Ataxia Type 7". U.S. Provisional Patent Application Serial No. 61/475,033.

Invited Talks/Seminars (Since 2000)

International

Sep 2014 University of Oxford, United Kingdom.
Jun 2013 Glaxo Smith Kline, United Kingdom.
Apr 2010 London Research Institute, United Kingdom.
May 2006 Gordon Research Conference "Chromatin Structure and Function", Italy.
Nov 2005 Abcam "Chromatin Structure and Function", Nassau, Bahamas.
Jun 2005 IRIS symposium "Molecular host response mechanisms", Stockholm, Sweden.
Nov 2004 Abcam "Chromatin Structure and Function", Cancun, Mexico.
May 2003 Laval University Cancer Research Center, Quebec, Canada.
Dec 1998 Laboratory of Molecular Biology, Medical Research Council, Cambridge, United Kingdom.

National

Sep 2024 Fourth Annual Live Like Bella Pediatric Cancer Research Symposium, Miami, FL.
Jul 2023 American Society of Clinical Oncology Direct Highlights™ 2023 Miami Symposium.
Sep 2019 Cancer Epigenetics Program, University of Miami.
Apr 2019 Chair RNA Regulatory Mechanisms and Disease, ASBMB Annual Meeting, Orlando, FL.
Aug 2018 Stowers Institute for Medical Research, Kansas City, MO.
Apr 2018 Speaker, Session on Chromatin Regulation of Gene Expression, ASBMB Annual Meeting, San Diego, CA.
Sep 2017 Speaker, "The Nucleosome: from factor binding and remodeling to cell signaling and disease". Kansas City, MO.
Apr 2017 Co-Chair Chromatin Modification, Gene Expression & Epigenetic Mutations, ASBMB Annual Meeting, Chicago, IL.
Apr 2017 Chair Chromatin Structure and Epigenetic Regulation, ASBMB Annual Meeting, Chicago, IL.
Apr 2017 Chair Chromatin and Gene Expression, ASBMB Annual Meeting, Chicago, IL.
Apr 2017 Invited Speaker, ASBMB Annual Meeting, Chicago, IL.
July 2016 Plenary Lecture, The Allied Genetics Conference, Orlando, Florida.
July 2015 Penn State University.
Dec 2012 Department of Human and Molecular Genetics, Virginia Commonwealth University.
Jun 2011 FASEB Conference "Histone Deacetylases and Reversible Acetylation Signaling and Disease", Steamboat Springs, Colorado.
Apr 2011 NSF symposium "Epigenetics and Behavior", University of Virginia.
Oct 2008 Atlantic Coast Chromatin Conference, University of North Carolina.
Jun 2008 BioMaPS Summer School "Chromatin Structure and Gene Regulation", Rutgers University
Aug 2007 Scripps Institute, Florida.
Aug 2006 FASEB Conference "Transcription in Cell Growth, Differentiation, and Disease", Saxtons River, Vermont.
Apr 2006 Department of Biochemistry & Mol. Biology, Southern Illinois University School of Medicine.
Mar 2006 National Institute of Aging, NIH, Baltimore.
Feb 2006 Department of Biochemistry and Biophysics, Texas A&M University.
Nov 2005 National Cancer Institute, NIH, Bethesda.
Apr 2005 Second East Coast Chromatin Meeting at NIH.
Nov 2004 Stowers Institute for Medical Research, Kansas City, MO.

Jul 2004 Gordon Research Conference "Chromatin Structure and Function", Tilton NH.
 Apr 2004 Department of Biochemistry and Molecular Biology, Michigan State University.
 Apr 2004 Department of Biochemistry and Molecular Biology, University of Southern California.
 Mar 2003 Plenary speaker at the Keystone Symposium "The Enzymology of Chromatin and Transcription", Sante Fe, NM.
 Apr 2002 Dept of Biochemistry and Molecular Biology, Pennsylvania State University.
 May 2000 National Cancer Institute "Histone Deacetylase Chromatin Remodeling Workshop", Washington DC
 Dec 1998 Department of Biochemistry and Molecular Genetics, University of Virginia.
 Jul 1998 Gordon Research Conference "Chromatin Structure and Function", Tilton NH.

Regional/local

Apr 2024 Florida Atlantic University Neuroscience Seminar Series.
 Oct 2022 Discoveries, Treatments and Strategies: How FAU is Accelerating the Drive Against Cancer
 Oct 2021 Florida Atlantic University Distinguished Lecturer.
 May 2021 Florida Atlantic University Research in Action Series.
 May 2014 Department of Pathology, University of Virginia.
 Aug 2019 Department of Biomedical Science, Florida Atlantic University.
 Sep 2018 Sloane Society Lecture, University of Virginia.
 Jan 2018 Sloane Society Lecture, University of Virginia.
 Nov 2007 Molecular Physiology & Biological Physics, University of Virginia.
 Mar 2007 Neuroscience Graduate Program, University of Virginia.
 Apr 2006 Department of Neuroscience, University of Virginia.
 Mar 2006 Department of Pathology, University of Virginia.

Grants

<u>Title:</u>	<u>Period:</u>
External Funded	
NIH R01 DA024716	9/1/22-8/31/27
Title: <i>Dopaminergic and Glutamatergic Mechanisms of Cocaine Addiction: Sex Differences</i>	
Role: Co-I (25%), Lynch (PI)	
Direct costs per year \$400,000 (total award amount \$3,190,445)	
Florida Department of Health 23L08	4/1/23 – 3/31/25
Title: <i>Identification of epigenetic mechanisms of resistance to chemotherapy in pediatric acute lymphoblastic leukemia</i>	
Role: PI (5%)	
Direct cost/total award \$248,050	
US DOD LCRP LC190551 Concept Award Grant (PI)	8/1/20-7/31/22
Title: <i>A novel epigenetic mechanism conferring resistance to treatment in lung cancer</i>	
Role: PI (15% year 1, 2% year 2)	
Direct costs per year \$100,000 (total award \$149,500)	
Travel Award to John Hensien	6/1/18
Medical Mycological Society of the Americas	
Role: Mentor (0%)	
Direct cost/total award \$500	
Undergraduate Research Fellowship to John Hensien	6/1/17-5/30/18
American Society for Microbiology	
Role: Mentor (0%)	
Direct cost/total award \$4000	

NIH R01 GM111911 Title: <i>Regulation of a novel epigenome of protein biosynthesis genes</i> Role: PI (50%) Direct cost per year \$205,000 (total award \$1,435,000)	6/1/15-12/31/20
NIH R01 DA035202 Title: <i>Exercise as an Intervention Strategy for Cocaine Addiction in Males and Females</i> Role: co-I (9%), Lynch (PI) Direct cost per year \$225,000 (total award \$1,575,000)	4/1/15-3/31/21
RCN NSF 1049849 Title: <i>Research Coordination Network for Epigenetics, Behavior and Reproduction</i> Role: co-I (0%) Total award \$418,340	4/1/11-3/30/15
NIH R56 DK082673-01 Title: <i>Characterization of a novel histone H3 phosphorylation mark in DNA replication</i> Role: PI (25%) Direct cost per year \$175,000 (total award \$1,225,000)	9/30/08 – 8/31/10
NIH R01 GM026108 Title: <i>Replication of Mammalian Chromosomes</i> Role: co-I (10%), Hamlin (PI) Direct cost per year \$281,437 (total award \$1,970,059)	7/1/08-6/30/12
NIH R01 GM055763 Title: <i>Molecular Analysis of a Yeast Transcriptional Regulator</i> Role: co-I (5%), Auble (PI) Direct cost per year \$182,520 (total award \$1,277,640)	3/1/07-2/28/12
NIH R01 NS049065 Grant (PI) Title: <i>Spinocerebellar ataxia 7 protein function</i> Role: PI (25%) Direct cost per year \$247,500 (total award \$1,736,115)	5/1/06-4/30/12
NIH R41 CA105604 Title: <i>Novel Tool Compounds for Chromatin Research</i> Role: co-I (10%), Engel (PI). Direct cost per year \$100,000 (total award \$280,584)	8/1/04-7/31/07
Goodwin clinical trial Title: <i>Role of Histone Acetylation in NER and Identification of HDAC Inhibitors as Therapeutic Agents of Xeroderma Pigmentosum and Skin Cancer</i> Role: PI (0%) Direct cost per year \$40,000 (total award \$59,200)	2/1/04-1/31/05
Virginia Kincaid Charitable Trust Title: <i>Post-translational Modification of Chromatin during Nucleotide Excision Repair</i> Role: co-I (0%), Auble (PI) Direct cost per year \$25,000 (total award \$37,000)	1/25/02-1/24/03
NIH R01 DK58646 Title: <i>Identification and Analysis of HAT/Coactivator Complexes</i> Role: PI (25%) Direct cost per year \$147,000 (total award \$1,081,631)	2/1/01-1/31/07

992837 Grant (PI)
Burroughs Wellcome Foundation Career Development Award
Role: PI (75%)
Direct cost per year \$137,362 (total award \$392,362)

2/1/00-1/31/04

External Pending

NIH R01 (previously scored 10%)
Title: *Targeting Craving Through Exercise: Lasting Protection Against Relapse Through Prefrontal Circuit Modulation*
Role: Co-I (7.5%), Lynch (PI)
Total Award Amount (including Indirect Costs): \$882,735

Florida Department of Health
Title: *Identification of inhibitors of the non-traditional histone tyrosine kinase BAZB1 to overcome resistance to cancer therapy*
Role PI

Internal Funded

Alzheimer's Disease and Related Dementias (ADRD) Mangurian Foundation Pilot Award 4/1/21-3/31/22
Title: *Role of Copper Homeostasis in the Contribution of SWIP-10/MBLAC1 to Alzheimer's Disease*
Role: MPI (0%), Blakely, Hahn, Grant, Zhang (PIs)
Direct cost/total award \$20,000

NIH P30 CA044579-27 NCI Cancer Center Support Grant subaward 12/5/19-10/31/20
Title: *A Novel Epigenetic Mechanism Conferring Platinum Resistance in Lung Cancer*
Role: PI (0%)
Direct cost/total award \$50,000

University of Virginia Brain Institute 7/1/19-6/30/2020
Title: *Identifying Novel Targets for the Treatment of Opioid Use Disorders*
Role: PI (0%) Lynch and Grant (PIs)
Direct cost/total award \$30,000

University of Virginia Brain Institute 7/1/19-6/30/2020
Title: *Epigenetic Consequences of Maternal Oxytocin Treatment in Offspring*
Role: PI (0%) Connelly and Grant (PIs)
Direct cost/total award \$30,000

Harrison Award to Christina Lee 6/1/17-12/31/17
University of Virginia
Role: Mentor (0%)
Direct cost/total award \$4,000

University of Virginia R&D Grant (PI) 7/10/14-7/9/15
Title: *The role of the conserved SAGA and SLIK complexes in aging*
Role: PI (0%)
Direct cost/total award per year \$25,000

University of Virginia R&D Grant (PI) 1/15/14-1/14/15
Title: *Epigenomic regulation of proliferation in cancer cells*
Role: PI (0%)
Direct cost/total award per year \$30,000

P30 CA44579 UVA Cancer Center 5/1/11- 12/31/12

Patients and Friends Fund

Title: *The role of H3-T45 phosphorylation in cellular proliferation and as a novel marker for cancer*

Role: PI (0%)

Direct cost/total award per year \$20,000

Internal Pending

None

Courses Taught at Florida Atlantic University

Medical (2020-present): Pathophysiology and Therapeutics 1 (PT1-IQ).

Foundations of Biomedical Science (FBS2-PBL).

Pathophysiology & Therapeutics 3 Backup (PT3-SLIQ).

Graduate (Spring 2021-2023): Co-director: PCB 6933 Emerging Applications in Oncology & Pharmacogenomics

Supervision of Graduate/Medical Students

Sajeewani Wijetunga (Integrative Biology PhD student)	2021-present
Tyla Azan (MS Biomedical Science DIR student)	2021-2023
Mohamed-Tamar Toussaint (MS Biomedical Science thesis student)	2021-2023
Cachae Alford (Fast Track Medical Student)	2022-2024
Kayleigh Biegler (Neuroscience PhD student)	2023-present
Anna Kingham (MS Biomedical Science thesis student)	2023-2024
Natalie Marrero (MS Biomedical Science DIR student)	2023
Luisana Munoz (MS Biomedical Science DIR student)	2023
Roberto Estevez (MS Biomedical Science DIR student)	2023
Alina Dreps (Neuroscience PhD student)	2024-present
Jayden Hume (MS Biomedical Science thesis student)	2025-present

Advising Activities (thesis committees)

Michael Hamper (MS Biomedical Science thesis student)	Advisor Dr James Hartmann	2022-2023
Sean McLaughlin (Integrative Biology PhD student)	Advisor Dr Lucia Carvelli	2021-2022
Elena Bisotto (Integrative Biology PhD student)	Advisor Dr Max Caputi	2023-present
Michelle Shanefield (Integrative Biology PhD student)	Advisor Dr Claudia Rodrigues	2024-present

Supervision of Undergraduate Student Trainees

Michael Hamper	2021

Courses Taught at the University of Virginia

Medical (2002-2020): Medical Biochemistry, Cells to Society, Integrated Clinical Sciences- Molecular and Cellular Medicine.

Graduate (2001-2020): BIMS 824 Chromatin Structure and Function, BIOC 815 Current literature, BIMS 815 Cell & Molecular Biology: Current literature, BIMS 808 General and Molecular Genetics, BIMS 8041 Advanced Topics in Cancer, BIMS 7100 Research Ethics, NESC 7200 Behavior, Cognition, and Epigenetics, BIMS 6000 Core Course in Integrative Biosciences, BIOC 8012 Chromatin I, BIOC 8014 Chromatin II.

Undergraduate (2016): BIOL/PSYC 3559 Introduction to Epigenetics.

Supervision of Graduate Students and Current Position

Joshua Danof @	2019-2020	
Jaime Miller, M.D., Ph.D.	2008-2013	Physician, University of Pittsburgh
Erdem Sendinc, Ph.D.	2008-2013	Postdoctoral Fellow, Harvard Medical School

Tara Burke, Ph.D.	2006-2012	Vice President, AdvaMed
Paul Bonthius, Ph.D. [§]	2007-2012	Assistant Professor, University of Illinois Urbana-Champaign
Shaun McCullough, Ph.D.	2006-2011	Principal Investigator, U.S. Environmental Protection Agency
Stacy Crum, M.S.	2009-2010	Scientist, Sigma-Aldrich
Stephen Baker, Ph.D. ^{*#}	2005-2010	Research Scientist, Defense Intelligence Agency, US DOD
Yoonah Shin, M.S.	2006-2007	Researcher, National Institutes of Health
Jeremy Daniel, Ph.D. [*]	2002-2006	Associate Professor, University of Copenhagen
Jennifer Phillips, M.S.	2001-2005	Lab Specialist, University of Virginia
Stacey McMahon, Ph.D.	2001-2005	Associate Professor, University of Virginia
Michael Torok, Ph.D.	2001-2005	Vice President, Roche/Genetech
Mohamed-Tamar Toussaint, M.S.	2021-2023	Lab Technician, Organiceil
Tyla Azan, M.S.	2021-2023	Medical Scribe

* Recipient of the Outstanding Graduate Student in Biochemistry, Molecular Biology and Genetics Award (the highest award given to a BMG PhD student in a given year)

Recipient of the Michael J. Peach Outstanding Graduate Student Award (the highest award given to a School of Medicine PhD student in a given year)

§ Co-mentored with Dr Emilie Rissman @ Co-mentored with Dr Jessica Connelly

Supervision of Undergraduate Student Trainees

Siri Fredericksen	2019-2020
Natalia Vega Perez (SRIP)	2019
Ben Grant	2018-2020
Burke Lawlor	2018-2020
Peter King	2018
Tashani Patel	2017-2020
Brittany McVicar	2017
Marianne Trimble	2016-2020
John Hensien	2016-2019
Alexandra Indeglia	2016-2018
Meagan Josephs	2016-2017
John Hardy	2016-2017
Lillian Tan	2016
Nima Said	2016
Kathryn Goodrich	2015-2017
Christina Lee	2015-2018
Alex Grant	2015-2017
Joseph Gonnella	2015-2016
Raquel Martin	2010
Mohammadali Mojarrad	2005-2008
Patience Karikari (SRIP)	2003

Supervision of Professional Research Staff and Postdoctoral Trainees and Current Position:

Jean Abel	2015-2021	Retired
Stephen Baker	2010-2011	Research Scientist, Defense Intelligence Agency
Qiong Gan (co-mentored)	2009-2012	Assistant Professor, Univ. Texas MD Anderson Cancer Center
Woo-Hee Cho	2008-2009	Internal Medicine, Dankook Univ. Coll. of Medicine, Korea
Michael Moore	2008-2011	
Yunhee Kwon Kim	2008-2009	Professor, University of Seoul, Korea
Alpana Naresh	2000-2001	Senior Director, Harpoon Therapeutics
Erin Johnston (Kennedy)	2000-2003	Associate Director at Incyte
Marilyn Pray-Grant	2000-present	Research Associate, FAU

Advising Activities:

Serving member on a total 85 thesis committees.

Additional Thesis Committees in Biochemistry and Molecular Genetics Program (year of graduation).

Heather Raimer, Ph.D.	2023	Advisor Dr Yuh-Hwa Wang
Bri Wilson MD/Ph.D.	2020	Advisor Dr Anindya Dutta
Mouadh Benamar, Ph.D.	2020	Advisor Dr Tarek Abbas
Anne Carlton, Ph.D.	2018	MSTP, Advisors Dr David Wotton and Dr John Bushweller
Magda Wegrzynska, Ph.D.	2017	Advisor Dr Anindya Dutta
Jaclyn M. D'Innocenzi, Ph.D.	2017	Advisor Dr Marty Mayo
Jason True, Ph.D.	2016	Advisor Dr David Auble
Szymon Szymura, Ph.D.	2016	Advisor Dr Marty Mayo
Maggie Wierman, Ph.D.	2015	Advisor Dr Jeff Smith
Kayla Quarterman, Ph.D.	2015	Advisor Dr Emily Rissman
Mondovi Chatterjee, Ph.D.	2014	Advisor Dr Bryce Paschal
Dan Harmon, Ph.D.	2014	Advisor Dr Coleen McNamara
Kunal Poorey, Ph.D.	2013	Advisors Dr David Auble and Dr Stefan Bekiranov
Jake Wamsley, Ph.D.	2013	Advisor Dr Marty Mayo
Stephen Hoang, Ph.D.	2013	Advisor Dr Stefan Bekiranov
Kimberly Cox, Ph.D.	2012	Advisor Dr Emily Rissman
Joseph Johnson, Ph.D.	2012	Advisor Dr Jeff Smith
Woo-Sin Park, M.S.	2011	Advisor Dr David Auble
Andrea De-Santis, Ph.D.	2011	Advisors Dr Patrick Concannon and Donald Hunt
David Allison, Ph.D.	2011	Advisor Dr Marty Mayo
Emily Glidden, Ph.D.	2011	Advisor Dr Marty Mayo
Greg DiMicco, M.S.	2010	Advisor Dr Jeff Smith
Staton Wade, Ph.D.	2009	Advisor Dr David Auble
Anthony Trace, Ph.D.	2009	Advisor Dr Raghu Mirmira
Jacqueline Merrill, Ph.D.	2009	Advisor Dr David Wotton
Anne Knowlton, Ph.D.	2009	Advisor Dr Todd Stukenberg
Brice Keyes, Ph.D.	2009	Advisor Dr Dan Burke
Robert Hontz, Ph.D.	2008	Advisor Dr Jeff Smith
Ashley Snyder, Ph.D.	2008	Advisor Dr Kevin Lynch
Rebekka Sprouse, Ph.D.	2008	Advisor Dr David Auble
Ashley Blair, Ph.D.	2007	Advisor Dr Rong Li
Anne Allison, Ph.D.	2006	Advisor Dr Mitch Smith
Michael Kagey, Ph.D.	2005	Advisor Dr David Wotton
Cynthia Barber, Ph.D.	2004	Advisor Dr C. David Allis
Wang Cheung, MD, Ph.D.	2003	MSTP, Advisor Dr C. David Allis
LeeAnn Swanegan, Ph.D.	2001	Advisor Dr Joel Hockensmith

Additional Thesis Committees within University of Virginia School of Medicine (year of graduation)

Alison Francois		Dept of Microbiology, Advisor Dr Anna Cliffe
Daniel Hess, Ph.D.	2018	MSTP, Mol. Physiology & Biol. Physics Advisor, Dr Gary Owens
Gabriel Falcao Alencar, Ph.D.	2018	Mol. Physiology & Biol. Physics Advisor, Dr Gary Owens
Steven Griffith, Ph.D.	2016	Mol. Physiology & Biol. Physics Advisor, Dr Gary Owens
Aravinda Kuntimaddi, Ph.D.	2015	Mol. Physiology & Biol. Physics, Advisor Dr John Bushweller
Michelle Neveklovska, Ph.D.	2012	Dept of Neuroscience, Advisor Dr Scott Zeitlin
Benjamin Leach, Ph.D.	2011	Mol. Physiology & Biol. Physics, Advisor Dr John Bushweller
Kristin Keck, Ph.D.	2011	Dept of Microbiology, Advisor Dr Lucy Pemberton
Mingda Hang, Ph.D.	2010	Dept of Microbiology, Advisor Dr Mitch Smith
Marcin Walkiewicz, Ph.D.	2010	Dept of Microbiology, Advisor Dr Dan Engel
Gang Zhi, Ph.D.	2009	Dept of Microbiology, Advisor Dr Gary Kupfer
Amanda Duley, Ph.D.	2009	Dept of Microbiology, Advisor Dr Tim Bender
Tye Deering, Ph.D.	2008	Dept of Pharmacology, Advisor Dr Raghu Mirmira
Jeffrey S. Blackwell, Ph.D.	2008	Dept of Microbiology, Advisor Dr Lucy Pemberton

Kurt Jensen, Ph.D.	2008	Dept of Microbiology, Advisor Dr Mitch Smith
Brian Del Rosario, Ph.D.	2007	Dept of Microbiology, Advisor Dr Lucy Pemberton
Peter V. Decker, Ph.D.	2007	Dept of Microbiology, Advisor Dr Mitch Smith
Olga F. Sarmiento, Ph.D.	2007	Dept of Microbiology, Advisor Dr Mitch Smith
David Yu, Ph.D.	2004	Dept of Microbiology, Advisors Drs M. Smith & Mike Christman
Caroline Kulesza, Ph.D.	2001	Dept of Microbiology. Advisor Dr Dan Engel

Additional Thesis Committees University wide (year of graduation)

Joseph Strukl, Ph.D.	2012	Dept of Chemistry, Advisor Dr Donald Hunt
Shaili Shah, Ph.D.	2012	Dept of Biology. Advisor Dr Melissa Henriksen
Edmond Chipumuro, Ph.D.	2011	Dept of Biology. Advisor Dr Melissa Henriksen
Ann English, Ph.D.	2011	Dept of Chemistry, Advisor Dr Donald Hunt
Lauren Buro, Ph.D.	2011	Dept of Biology. Advisor Dr Melissa Henriksen
Joshua Nicklay, Ph.D.	2010	Dept of Chemistry, Advisor Dr Donald Hunt
Hillary Montgomery, Ph.D.	2009	Dept of Chemistry, Advisor Dr Donald Hunt
Beatrix Ueberheide, Ph.D.	2005	Dept of Chemistry, Advisor Dr Donald Hunt

Service and Professional Development

Department service

2023	Chair, Faculty Recruitment Committee, Department of Biomedical Science, Florida Atlantic University.
2021-2023	Co-chair Revisioning Working Group-Faculty Development and Diversity.
2021-2023	Member Revisioning Working Group-Research.
2022-2024	Chair Junior Faculty Mentoring Committee, Drs. Ilknur Telkes and Dawei Li.
2016, 2017	Faculty Recruitment Committee, Department of Biochemistry & Molecular Genetics, UVA.
2015-2020	Junior Faculty Mentoring Committee, Drs. Michael Guertin, Jogi Singh, and Sanchita Bhatnagar.
2015-2018	Organizer Department of Biochemistry & Molecular Genetics Annual Retreat & Poster Session.

College/School Service

2025	Chair, Search Committee for Chair of Population Health, College of Medicine, FAU.
2023-present	Member, Research and Scholarship Committee, College of Medicine, FAU.
2022-present	FAU College of Medicine Appeal Committee.
2021-2022	FAU College of Medicine Dean Recruitment Committee.
2019-2020	University of Virginia Associate Dean of Graduate and Medical Scientist Programs.
2018	Biomedical Science reunion planning committee.
2018	Co-organizer Cancer Genomics and Epigenomics Symposium. May 7-8.
2013	Co-organizer Epigenetics and Disease Symposium. May 7-8.
2011	Co-organizer Cell cycling: braking and entering Symposium. May 16-17.
2006	Co-organizer Replication, Repair, Recombination and Cancer Symposium. June 14-15.
2005	Co-organizer Chromatin and Transcription: Gene Expression, Development and Cancer Symposium. May 9-10.
2004	Co-organizer Nuclear Receptors, Transcription and Cancer Symposium. May 10-11.
2002	Co-organizer Comparative Genomics Symposium. May 23-24.
2001	Co-organizer Chromatin and Chromosomes: Old Words, New Insights Symposium. May 17-18.
2000-2020	University of Virginia: UVA Comprehensive Cancer Center and Cancer Center Genetics Program; Biochemistry and Molecular Genetics Graduate Program; Neuroscience Graduate Program; Microbiology, Immunology and Cancer Graduate Program; Cell and Molecular Biology Training Program; Cancer Training Program;

Neurodevelopment and Behavior Training Program;
Medical Scientist Training Program (MSTP);
Summer Research Internship Program (SRIP).

University Service

2023-present Board Member, SMART Health, College of Engineering, FAU.
2022-present Member, Stiles-Nicholson Brain Institute, Florida Atlantic University.
2022-present FAU Neuroscience Graduate Program.
2021-present Executive Committee Member, Memorial Healthcare System and Florida Atlantic University Cancer Center.
2020-present Member, Institute for Human Health & Disease Intervention, Florida Atlantic University.
2020-present FAU Integrative Biology PhD Program.
2013-2015 University of Virginia Undergraduate Medical Education Curriculum Committee: Committee assigned to develop new undergraduate courses and curriculum in science and medicine.
2006-2012 University of Virginia Internal Review Committee member: Committee evaluates all limited submission research proposals, both internal and external, for the University, Hartwell Foundation, Pew Charitable Trust, Beckman etc.

Service to the Discipline/Profession

Journal Editorial Positions

2015-present Editorial Board, Journal of Biological Chemistry.
2006-2012 Editorial Board, Molecular and Cellular Biology.

Professional Membership and Committees

2016-present American Society for Biochemistry and Molecular Biology Meetings Committee Member.
2016-present Genetics Society of America Member.
2004-present American Society for Biochemistry and Molecular Biology Member.
2000-present American Society for Microbiology Member.

National Scientific Review Panels

Jun 2022 **NIH** Small Business: Cell and Molecular Biology study section.
Mar 2020 **NIH** PAR Panel: Novel Genomic Technology Development study section.
Jan 2019 **NIH** CSR/Social Solutions Anonymization Study.
Dec 2017 **NIH** Director's New Innovator Award study section.
Jun 2017 **NIH** Molecular Genetics A study section.
Mar 2017 **NIH** NIGMS Maximizing Investigators' Research Award (MIRA) for Early-Stage Investigators (R35) ZRG1 CB E50 study section.
Oct 2016 **NIH** Molecular Genetics A study section.
Mar 2016 **NIH** Molecular Genetics A study section.
May 2015 **NIH** Molecular Genetics A study section.
May 2014 MD Anderson Center for Cancer Epigenetics.
Jun 2012 **NIH** Neural Basis of Psychopathology, Addictions and Sleep Disorders study section.
Jun 2011 **NIH** Molecular Genetics B study section.
Oct 2009 **NIH** P01 review panel, CBQ40.
Apr 2009 **NIH** special emphasis panel ZRG1 GGG-M, Epigenomics of Human Health and Disease.
Feb 2009 **NIH** NIDA special emphasis panel ZDA1 GXM-A. Functional Characterization of Genetic Variants and Interactions: The Genes, Environment and Health Initiative.
Aug 2008 **NIH** Molecular, Cellular, and Developmental Neuroscience special emphasis panel ZRG1 MDCN-F02, Transcriptional Repressors.
Jan 2008 **NIH** NIDA special emphasis panel ZDA1 GXM-A, Genes Environment And Health Initiative.
Apr 2007 **AHA** (American Heart Association) Basic Science & Molecular Biology 1 Study Group.
Oct 2006 **AHA** (American Heart Association) Basic Science & Molecular Biology 1 Study Group.

Jun 2005 **NIH** Molecular Genetics A study section.
 Oct 2004 **NIH** Molecular Genetics A study section.
 Jun 2004 **NIH** Genome Institute (NHGRI) special emphasis panel ZHG1 HGR-P, Encyclopedia of DNA Elements (ENCODE).
 Apr 2004 **NSF** Merit Review, Biochemistry of Gene Expression Program.
 Mar 2004 **NSF** Merit Review, Biochemistry of Gene Expression Program.
 Mar 2004 **NIH** (National Institutes of Health) Cell Development and Function (CDF) study section.
 Nov 2003 **NSF** (National Science Foundation) Merit Review, Biochemistry of Gene Expression Program.

International Scientific Review Panels

Jun 2014 French National Research Agency (ANR).
 Mar 2013 French National Research Agency (ANR).
 Jan 2012 Netherlands Organisation for Scientific Research.
 Sep 2010 Wellcome Trust, UK.

National/International Symposia Organization

2022 ASBMB and Experimental Biology Annual Meeting Co-organizer, Philadelphia.
 2021 ASBMB and Experimental Biology Annual Meeting Co-organizer, Virtual.
 2020 ASBMB and Experimental Biology Annual Meeting Co-organizer, San Diego *cancelled due to pandemic.
 2019 ASBMB and Experimental Biology Annual Meeting Co-organizer, Orlando.
 2018 ASBMB and Experimental Biology Annual Meeting Co-organizer, San Diego.
 2017 ASBMB and Experimental Biology Annual Meeting Co-organizer, Chicago.

2000-present **Manuscript/Book reviews:** Nature, Science, Cell, Molecular Cell, Molecular and Cellular Biology, Nature Cell Biology, Nature Structural & Molecular Biology, Nature Reviews Genetics, Cell Research, PNAS, EMBO Journal, EMBO Reports, Epigenetics and Chromatin, Genes and Development, Molecular Biology of the Cell, Nucleic Acids Research, Journal of Biological Chemistry, Journal of Biochemistry, Gene, Genome Biology, Nutrition and Cancer, Biochemistry, PLOS One, Frontiers in Genetics, Chromatin Structure: State-of-the-art.

2018-2021 **Faculty Search Interview Committee (2018, 2020, 2021):** Stowers Institute for Medical Research, Kansas City, MO.

2022 **Utah National Research Mentoring Network (NRMN) Grant-Writing Coaching Groups Study –** Scientific Advisor

Service to Community/Public

National and Local TV and Media Interviews (since 2020 at FAU)

Jan 2025 CBS WPEC 12 TV (West Palm Beach).
 Nov 2021 Boca Raton Tribune.
 Jan 2021 FAU Media.
 Feb 2021 CBS WPEC 12 TV (West Palm Beach).
 Feb 2021 Newsweek.
 Mar 2021 Lead Stories.
 Oct 2021 Scienceline.
 Nov 2020 FOX WSVN 7 TV (Miami/ Ft. Lauderdale/ Boston).
 Nov 2020 CBS WPEC 12 TV (West Palm Beach).
 Nov 2020 ABC WPBF 25 TV (Tequesta/West Palm Beach/ Boca Raton).

Introductory Training and Supervision of Community College and School Students in Research:

Matthew Kim Summer 2019 - UVA Advance Program.
 Matthew Balcells Fall 2017- Albemarle High School (MESA), Charlottesville, VA.

Arghya Shetty	Summer 2017 - Albemarle High School (MESA), Charlottesville, VA.
Zachary Robbins	Spring 2017 - Albemarle High School (MESA), Charlottesville, VA.
Ben Grant	Spring 2017 - Albemarle High School (MESA), Charlottesville, VA.
Brittany McVicar	Summer 2016 – Lewisburg High School, Lewisburg, PA.
Lauren Chamberlain	Summer 2016 – Lewisburg High School, Lewisburg, PA.
Jacob Thomas	Fall 2015/6 – Mills E. Godwin High School, Richmond, VA.
Joseph Gonnella	Spring 2014 - St. Anne's Belfield, Charlottesville, VA.
Michael Glasgow	Fall 2012 – Piedmont Community College, VA.
Sarah Sykes	Fall 2012 – Piedmont Community College, VA.
Jacob Perry	Summer 2011 - Albemarle High School (MESA), Charlottesville, VA.
William Rose	Summer 2006 - Covenant School, Charlottesville, VA.
Brian Allis	Summer 2002 - St. Anne's Belfield, Charlottesville, VA.
Christopher Pray	Summer 2001 - Binghamton High School, NY.

Professional Development (since 2020 at FAU)

2022-2023	College of Medicine Leadership Development Series.
2022	Entering Research Training for Faculty Mentors Workshop. Facilitators Dr Ceylan Isgor and Dr Evelyn Frazier, FAU, NRMN.
2021	Strategies and Tactics for Recruiting to Improve Diversity and Excellence (STRIDE) Workshop.
2021	Preventing and Addressing Discrimination, Harassment, and Retaliation ("PADHR") Training.
2021	Responsible Conduct in Research Training
2021	COVID-19 Training
2021	Kognito Training for Student Mental Health Issues
2020	The National Science Foundation's Innovation Corps (I-Corps™) program.
2020	Senn-Delaney FAU New Leader's Culture Experience Training.

Honors and Awards

2025	Outstanding Medical PBL Facilitator Award.
2022	FAU Division of Research Art in Science Award.
2020	Elected to the Academy for Excellence in Education, University of Virginia.
2019	Faculty Fellow of The Jefferson Scholars Foundation.
2019	Jefferson Scholars Foundation Award for Excellence in Teaching.
2017 & 2018	University of Virginia Sloane Society Lecture.
2010	Class of 2013 Mulholland Award for Teaching Excellence in Foundations of Medicine.
2009	Class of 2012 Mulholland Award for Teaching Excellence in Foundations of Medicine.
2008	Class of 2011 Mulholland Award for Teaching Excellence in Foundations of Medicine.
2007	Elected to the Academy of Distinguished Educators, University of Virginia.
2007	University of Virginia School of Medicine Award for Excellence in Teaching.
1999-2004	Burroughs Wellcome Career Development Award.
1998-1999	American Cancer Society postdoctoral fellowship.
1998	NIH postdoctoral fellowship (declined).
1992	Karolinska research fellowship.
1991	Swedish Cancerfonden fellowship.
1990	Boehringer Ingelheim Fonds fellowship.

CURRICULUM VITAE

July 1, 2025

Name: Charles H. Hennekens

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Boca Raton, FL 33432, USA

Telephone : (561) 393-8845 Landline
(561) 213-9450 Mobile

E-mail: PROFCHHMD@prodigy.net

E-mail: chenneke@health.fau.edu

Date of Birth: June 12, 1942

Place of Birth: Brooklyn, New York, USA

Education:

1959-1960 University of Pennsylvania, Wharton School of Finance and Commerce
1963 BS, Queens College, Magna cum laude
1967 MD, Cornell University Medical College
1972 MPH, Harvard School of Public Health (Epidemiology and Biostatistics)
1973 MS, Harvard School of Public Health (Epidemiology and Biostatistics)
1975 DrPH, Harvard School of Public Health (Epidemiology and Biostatistics)
1996 DSc, University of Medicine and Dentistry of New Jersey, honoris causa
1997 DSc, Queens College, The City University of New York, honoris causa

Postdoctoral Training:

1967-1968 Intern, Internal Medicine, The New York Hospital-Cornell Medical Center, New York, NY
1968-1969 Resident, Internal Medicine, The New York Hospital-Cornell Medical Center, New York, NY
1969-1971 Epidemic Intelligence Service (EIS) Officer, Lieutenant Commander, United States Public Health Service, assigned to the Dade County Department of Public Health, Miami, FL
1971-1975 Postdoctoral Fellowship in Epidemiology, Harvard School of Public Health, Boston, MA

Licensure and Certification:

1968 Diplomate, National Board of Medical Examiners
1968-71 New York License
1971-09 Massachusetts License (33712), Inactive status as of June 12, 2009
1972-78 Florida License (19261)
1976 Diplomate, American Board of Preventive Medicine and
1976 Fellow, American College of Preventive Medicine (FACPM)
1981 Fellow, American College of Epidemiology (FACE)

1992 Fellow, American College of Angiology (FACA)
 1995 Fellow, American College of Cardiology (FACC), honoris causa
 2002- Florida License (ME 84539)

Academic Appointments:

1972-1974 Visiting Assistant Professor of Epidemiology and Public Health and Chief, Division of Chronic Disease, University of Miami School of Medicine
 1975-1981 Assistant Professor of Medicine, Brigham and Women's Hospital, Harvard Medical School
 1978-1979 Visiting Scholar with Sir Richard Doll, FRS, Regius Professor of Medicine at the Radcliffe Infirmary, University of Oxford, UK
 1979-1981 Tutor in Medical Sciences, Harvard Medical School
 1981-1988 Associate Professor of Medicine, Harvard Medical School
 1985-1988 Associate Professor of Preventive Medicine and Clinical Epidemiology, Harvard Medical School
 1988-1990 Associate Professor of Medicine and Preventive Medicine, Brigham and Women's Hospital, Harvard Medical School
 1981-1990 Visiting Associate Professor of Biostatistics and Epidemiology, Boston University School of Public Health
 1990-1992 Professor and Acting Chair, Department of Preventive Medicine, Harvard Medical School
 1990-1992 Professor of Medicine and Preventive Medicine, Brigham and Women's Hospital, Harvard Medical School
 1990-1999 Professor of Ambulatory Care and Prevention, Harvard Medical School
 1990-1999 Visiting Professor of Biostatistics and Epidemiology, Boston University School of Public Health
 1990-1999 Visiting Professor of Epidemiology and Public Health, University of Miami School of Medicine
 1994-1999 Professor of Epidemiology, Harvard School of Public Health
 1994-1996 First John Snow Professor of Medicine, Harvard Medical School
 1996-1999 First Eugene Braunwald Professor of Medicine, Harvard Medical School
 1999-2009 Voluntary Professor of Medicine & Epidemiology and Public Health, University of Miami School of Medicine (UMSM)
 1999-2009 Clinical Professor, Department of Preventive Medicine, Nova Southeastern University
 1999-2001 Visiting Fellow, Green-Templeton College, Clinical Trial Service Unit and Epidemiological Studies Unit (CTSU), University of Oxford, United Kingdom
 2004-2007 Research Professor, Department of Biomedical Science, Center of Excellence, Florida Atlantic University (FAU)
 2007-2010 First Sir Richard Doll Research Professor of Biomedical Science, Charles E. Schmidt College of Biomedical Science, Department of Clinical Science and Medical Education & Center of Excellence, FAU
 2010- Voluntary Professor, Department of Family Medicine & Community Health, University of Miami Miller School of Medicine (UMMSM)
 2010- First Sir Richard Doll Research Professor, Charles E. Schmidt College of Medicine, FAU
 2010- Adjunct Professor of Family & Community Medicine, Meharry Medical College
 2013- First Sir Richard Doll Professor & Senior Academic Advisor to the Dean, Charles E. Schmidt College of Medicine, FAU
 2017- Adjunct Professor, Department of Family and Community Medicine, Baylor College of Medicine
 2024- First Sir Richard Doll Professor of Medicine and Preventive Medicine in the Departments of

Medicine and Population Health and Social Medicine & Senior Academic Advisor to the Dean,
Charles E. Schmidt College of Medicine

Hospital Appointments:

1972-1974 Attending Physician, University of Miami Hospitals and Clinics (including Bimini Health Care Project)
1977-1982 Associate in Medicine, Peter Bent Brigham Hospital
1982-1992 Physician, Brigham and Women's Hospital
1992-1999 Senior Physician, Brigham and Women's Hospital
1993-1999 Chief, Division of Preventive Medicine, Brigham and Women's Hospital
1975-2007 Assistant Visiting Physician, Boston City Hospital, Boston Medical Center
2001-2004 Co-Director for Cardiovascular Research, Mount Sinai Medical Center-Miami Heart Institute
2011-2012 Academic Staff, Division of Research & Education, Cleveland Clinic Florida

Other Professional Positions:

1972-1974 Director, Atherosclerosis Clinic, Specialized Center for Research, University of Miami School of Medicine
1981-1991 Editorial Board, Statistics in Medicine
1984-1988 Board of Directors, American College of Epidemiology
1988-1999 Editorial Board, Executive Health's Good Health Report
1988-1993 Editorial Board, Circulation
1988-1989 Research Director, East Boston Neighborhood Health Center
1989-1995 Founding Editor in Chief, Annals of Epidemiology
1990-1997 Editorial Board, Harvard Heart Letter
1992-1993 Board of Overseers, American Journal of Epidemiology
1992-1995 Editor-in-Chief, American Journal of Preventive Medicine
1994-1999 Chairman, Editorial Advisory Board, Aspirin Research Update
1994-1999 Board of Directors, Squashbusters
1994-1995 Member, Editorial Advisory Board, Primary Cardiology
1994-1999 Associate Editor, Health News, Massachusetts Medical Society
1995-1999 Editorial Board, American Society of Hypertension, Current Concepts in Hypertension
1996-1999 Editorial Board, Proceedings of the Association of American Physicians
1996-1999 Consultant, Consumer Reports on Health
1996-1999 Editorial Board, Journal of Cardiovascular Risk
1997-2003 Editorial Board, Journal of the American College of Cardiology
1997-2000 Editorial Board, Hypertension
2002-2007 Board of Directors, Society for Atherosclerosis Imaging and Prevention
2007-2012 Editorial Advisory Board, Central European Journal of Medicine
2008-2013 Editorial Board, American Journal of Medical Science
2009-2019 Editorial Board, Journal of Cardiovascular Pharmacology and Therapeutics
2010- 2013 Editorial Board, Journal of Health Disparity
2010-2013 Editorial Board, International Scholarly Research Network (ISRN)-Cardiology
2014-2019 Expert Editorial Board, Medical Roundtable; General Medical Education
2015- Editorial Board, Trends in Cardiovascular Medicine
2016- 2020 Editorial Board, Cardiology

Awards and Honors:

- 1959-1960 Butcher Scholarship, University of Pennsylvania, Philadelphia, PA
- 1960-1963 New York State Regents Scholarship for Mathematics, Science and Engineering, Queens College, New York, NY
- 1962 Phi Beta Kappa, Queens College, New York, NY
- 1963 Scholar-Athlete Award, Queens College, New York, NY
- 1963-1967 Teagle Scholarship, Cornell University Medical College, New York, NY
- 1975 Post-Doctoral Prize Paper, Society for Epidemiologic Research, Albany, NY
- 1977 Fellow, Council on Epidemiology, American Heart Association, Dallas, TX
- 1977-1982 Research Career Development Award, National Institutes of Health (HL 00286), Bethesda, MD
- 1988 Distinguished Achievement Award, Esquire Magazine, New York, NY
- 1988 Keynote speaker, Argentine Society of Cardiology, Buenos Aires, Argentina
- 1989 Keynote speaker, German Society for Internal Medicine, Wiesbaden, Federal Republic of Germany
- 1989 Murray MacGregor Gardner Memorial Lecturer, Watertown, New York
- 1989 Alexander D. Langmuir Lecturer, EIS Conference, Centers for Disease Control, Atlanta, GA
- 1990 Aaron Feder Visiting Professor of Medicine, New York Hospital, Cornell Medical Center, New York, NY
- 1990 Raymond Kroc Visiting Professor of Medicine and Preventive Medicine, University of New Mexico School of Medicine, Albuquerque, NM
- 1990-1991 President-Elect, Society for Epidemiologic Research, Buffalo, NY
- 1991 Wade Hampton Frost Lecturer, American Public Health Association
- 1991 Samuel Berry Memorial Lecturer, Greater Boston Dental Society, Boston, MA
- 1991 Visiting Professor of Medicine and Social and Preventive Medicine, University of Queensland, Brisbane, Australia
- 1991-1992 President, Society for Epidemiologic Research, Minneapolis, MN
- 1992 First University Lecturer in the Graduate School of Health Sciences, New York Medical College, Valhalla, NY
- 1992 James D. Bruce Memorial Award, American College of Physicians, San Diego, CA
- 1993 Fellow, Council on Geriatric Cardiology, Raleigh, NC
- 1993 Keynote Speaker, Polish Society of Cardiology, Lublin, Poland
- 1993 Fellow, The Royal Society of Medicine, London, England
- 1994 Founder Member, Society of Cardiovascular Disease in the Elderly, London, England
- 1994 Keynote Speaker, Symposium on Cardiology in honor of Dr. Rene Favaloro, Buenos Aires, Argentina
- 1994 Member, Association of American Physicians, San Diego, CA
- 1995 VERIS Award, Henkel Corp., LaGrange, IL
- 1995 Lilienfeld Award, American College of Epidemiology
- 1995 First Robert S. Gordon Jr. Lectureship, NIH
- 1995 Inaugural Speaker, XXII Argentine Congress of Cardiology, Buenos Aires
- 1995 Schick Lecture, Morton Plant Hospital, Clearwater, FL
- 1996 Duncan Clark Award for Excellence in Teaching Preventive Medicine, Association of Teachers of Preventive Medicine, Washington, DC
- 1996-1997 President-Elect, American Epidemiological Society, Minneapolis, MN

1996 Vivian and Norman Weiden Lecture, The New York Cardiological Society, New York, NY
 1996 Physician's Recognition Award, American Medical Association, Chicago, IL
 1996 Denham Harman Lecture, American College for Advancement in Medicine, Orlando, FL
 1996 James B. Herrick Lecture, American Heart Association of Metropolitan Chicago, Chicago, IL
 1996 American College of Nutrition Award
 1996 Lewis A. Conner Lecture, American Heart Association Annual Meeting, New Orleans, LA
 1997-1998 President, American Epidemiological Society, Minneapolis, MN
 1997 Roll Call of Honor, The Scientist
 1997 Jan J. Kellermann Memorial Award, International Society of Heart Failure, Washington, DC
 1997 Weinstein Memorial Lecture, Suburban Hospital, Bethesda, MD
 1997 Ninth Annual Alvin L. Schultz Lecture and Visiting Professor at Hennepin County Medical Center, Department of Medicine, University of Minnesota, Minneapolis, Minnesota
 1997 Lydia Jane Roberts Lecture, University of Chicago and Chicago Nutrition Association
 1998 First Annual Awardee as Public Health Physician of the Year by the American Association of Public Health Physicians
 1998 Seventeenth Annual James V. Warren Lectureship and Visiting Professor, Ohio State University, College of Medicine
 1998 Inductee, Queens College, Distinguished Achievers' Award, Recognition of 60th Anniversary Alumni Stars (100 of 150,000 graduates)
 1999 American Association for Clinical Chemistry Lectureship Awardee
 1999 European Society of Cardiology, Geoffrey Rose Lecture in Primary Prevention of Cardiovascular Diseases, Barcelona, Spain
 1999 Springarn Lecture and Visiting Professor at Beth Israel Medical Center, NY, NY
 1999 Senior International Aspirin Awardee, Bayer AG, Leverkusen, Germany
 2001 Member, Association of American Physicians
 2003 Strathmore's Who's Who, V.I.P. Member
 2003 Peter Kuo Lecture, Robert Wood Johnson Medical School, New Brunswick, New Jersey
 2004 International Health Professional of the Year, Nominee, Cambridge, England
 2005 Keynote Speaker, Whitfield-Murray Medical Society, Dalton, GA
 2006 Visiting Professor, University of Arkansas for Medical Sciences and Central Arkansas Veteran's Healthcare System, Division of Cardiovascular Medicine, Little Rock, Arkansas
 2006 Invited Speaker, Puerto Rican Society of Cardiology, San Juan, Puerto Rico
 2006 Dean's Circle, Weill-Cornell Medical College
 2006 Doctor of the Decade from Science Watch based on being the 3rd most widely cited medical researcher in the world (5 of the top 20 were former fellows and/or trainees)
 2007 Visiting Scholar, Queens College, Queens, NY
 2007 Hall of Fame, American Association of Clinical Chemistry
 2009 Walter D. Kelly Award for distinguished contributions to mental health
 2009 Presidential Citation, Borough President of Brooklyn for distinguished contributions to society
 2009 Charles H. Hennekens, MD Scholarship, Queens College
 2009 Charles H. Hennekens, MD Scholarship, Weill-Cornell Medical College
 2009 Charles H. Hennekens, MD Scholarship, Harvard School of Public Health
 2010 Outstanding Reviewer Recognition, Pharmacoepidemiology and Drug Safety
 2010 Visiting Professor and Inaugural MD/MPH Grand Rounds Lecturer, Texas A&M Health Sciences

Center

2010 Lifetime Achievement Scholar-Athlete Award, Queens College

2010 Charles H. Hennekens, MD Scholarship, West End House Camp

2010 Invited Speaker, Asia-Pacific Congress of Cardiology/European Society of Cardiology, Seoul, Korea

2011 Charles H. Hennekens, MD Scholarship, Wharton School of Finance and Commerce, University of Pennsylvania

2011 Keynote CMESpeaker, Cardiovascular Disease Prevention, Ninth Annual Comprehensive Symposium, Baptist Hospital, South Florida

2011 Guest Lecturer, Advanced Methods in Epidemiology, University of Miami Miller School of Medicine

2011 Invited CME speaker, Medical Grand Rounds, Exeter Hospital, Exeter, NH

2011 Invited CME speaker, South Miami Health Center Comprehensive Cardiovascular Symposium

2011 Invited CME speaker, Medical Grand Rounds, Aurora-St. Luke's Medical Center, Milwaukee, WI

2012 Invited CME speaker, Public Health Grand Rounds, University of Miami Miller School of Medicine

2012 Visiting Professor, Department of Biostatistics and Informatics, University of Wisconsin School of Medicine and Public Health

2012 Founders Circle, Charles E. Schmidt College of Medicine, Florida Atlantic University

2012 Ranked 81 in the history of the world for saving 1.1 million lives by Science Heroes

2012 Invited Speaker, Clinical Trial Service and Epidemiology Studies Unit (CTSU), University of Oxford, Richard Doll Centenary Meeting, Oxford, UK

2013 Invited Speaker, Puerto Rican Society of Cardiology Meeting

2013 Invited Speaker, American College of Osteopathic Family Practitioners Meeting

2013 Invited Speaker, American Epidemiological Society Meeting Bicentennial of the birth of Sir John Snow

2013 Honoree, American Heart Association for contributions to reducing premature morbidity and mortality from heart attacks and strokes

2013 Dean's Circle, Weill-Cornell Medical College, 2nd cycle

2013 Professor Sir Richard Peto Scholarship, Weill-Cornell Medical College

2013 Presidential Alumni Award, Queens College for distinguished contributions to society

2013 Op Ed in Sun Sentinel and Miami Herald on hazards of obesity

2013 Freis Prize for Improving Health, James F. and Sarah T. Fries Foundation

2014 Finalist, Warren Alpert Foundation Prize, Harvard Medical School

2014 Invited Speaker, Kick-Off Event for the Heart Walk sponsored by FAU and the American Heart Association

2014 Medical Grand Rounds, Centers for Disease Control and Prevention, Atlanta, GA

2014 Invited Speaker and Chair of Plenary Session, International Congress of Cardiology, Boston, MA

2014 Invited Speaker and Chair of Plenary Session, European Society of Cardiology, Barcelona, Spain

2014 Invited "Meet the Expert", European Society of Cardiology, Barcelona, Spain

2014 Inductee, Queens College Athletic Hall of Fame (30 of 150,000 graduates and the only 1 of 150,000 graduates in both Achievement and Athletic Hall of Fame)

2014 Alton Ochsner Award Relating Smoking and Disease, American College of Chest Physicians, Austin, TX

2015 Invited Speaker, Kick-Off Event for the Heart Walk sponsored by FAU and the American Heart Association

2015 Charles H. Hennekens, MD Tennis Court at Florida Atlantic University

2015	1913 Society of the Harvard T.H. Chan School of Public Health
2015	Invited Session Chair, Professor Sir Richard Doll Epidemiological Studies Consortium Meeting, Oxford, UK
2015	Queens College baseball field named Hennekens Stadium
2015	Invited inaugural speaker, 14th Annual Symposium on Advanced Diabetes Management for Endocrine Fellows, Baylor College of Medicine
2015	Invited inaugural speaker, Puerto Rican Society of Cardiology, Fajardo, Puerto Rico
2016	Chair, Cardiovascular Disease Prevention and Risk Factors, International Academy of Cardiology
2016	Distinguished Fellowship, International Academy of Cardiology
2016	Platinum Club, Owl's Nest Faculty and Staff Society, Florida Atlantic University
2016	Donor of the Year, Department of Athletics, Queens College
2017	Most influential NEJM manuscript of the last 20 years as defined by their Editorial Board
2018	Guest Editor for an issue of the Journal of Cardiovascular Pharmacology and Therapeutics
2018	Invited speaker, International Academy of Cardiology
2018	Inductee, Heritage Society, University of Miami Miller School of Medicine
2019	Awardee, Honor Your Doctor, Rotary Club of Downtown Boca
2020	Member, Royal Society of Medicine
2021	Awardee, Honor Your Doctor, Rotary Club of Downtown Boca Raton
2022	Elected to Sigma XI the Research Honor Society in recognition of his scholarly achievements and contributions
2024	Awardee, Honor Your Doctor, Rotary Club of Downtown Boca Raton
2026	Lecture, Osher Lifelong Learning Institute, FAU,

Major Committee Assignments:

1977-1978	Member, National Heart, Lung and Blood Institute: Pediatric Hypertension Subgroup, Task Force on Hypertension
1978-	Founding Member, Antiplatelet Trialist Collaboration (APT), Clinical Trial Service Unit (CTSU), University of Oxford, UK
1978-1981	Member, American Heart Association: Coronary Risk Factors in Children
1979-1983	Member, National Heart, Lung and Blood Institute: Arteriosclerosis, Hypertension, and Lipid Metabolism Advisory Committee (AHLMAC)
1980-1982	Member, University of Illinois, Comprehensive Cancer Center: External Advisory Committee
1981-1982	Member, National Heart, Lung and Blood Institute: 10-Year Review of National Activities
1981-1983	Member, American Heart Association: Committee on Arteriosclerosis and Hypertension in Childhood
1981-1983	Member, Comprehensive Cancer Center Advisory Committee for Research in Epidemiology and Biostatistics, University of Miami School of Medicine
1982-1983	Member, National Cancer Institute Advisory Committee for Studies on Chemoprevention of Cancer in Beijing, Peoples Republic of China
1982-1985	Membership Committee, American College of Epidemiology
1983-1986	Epidemiology Reviewer, JAMA
1984-1985	Chair, American Heart Association: Task Force on Smoking
1984-1994	Member, Boston University School of Public Health: Admissions Committee, Doctoral Program in Epidemiology and Biostatistics
1985-1998	Member, Boston University Medical Center: Preventive Medicine Advisory Committee

1985-1986 Member, American Heart Association: Task Force on the Evaluation and Treatment of Hyperlipidemia

1985-1986 Member, National Heart, Lung and Blood Institute: Task Force on Blood Cholesterol Lowering Research

1985-1986 Chair, Committee on Policy and Selection for the Mellon Program in Clinical Epidemiology, Harvard Medical School

1985-1988 Member, VA Cooperative Studies Program: Medical Research Service Cooperative Studies Evaluation Committee

1985-1990 Chair, University of Arizona Cancer Center: Policy, Data and Safety Monitoring Committee

1986-1987 Chair, Harvard Medical School: Review Committee for Educational Programs

1986-1987 Member, American Council on Alcoholism: Professional Advisory Committee

1986-1989 Member, American Heart Association: Epidemiology and Lipoprotein Metabolism Review Committee

1986-1989 Member, National Heart, Lung and Blood Institute: Clinical Applications and Prevention Advisory Committee (CAPAC)

1988-1999 Chair, National Heart, Lung and Blood Institute: Clinical Applications and Prevention Advisory Committee (CAPAC)

1986-1988 Member, National Heart, Lung and Blood Institute: Working Group on Clinical Trials, Prevention and Demonstration

1988-1989 Chair, Massachusetts Public Health Association: Task Force on Membership

1988-1990 Member, Office of Technology Assessment: Vietnam Veterans Studies Advisory Panel

1989-1993 Reviewer, Guide to Clinical Preventive Services, US Preventive Services Task Force

1989-1994 National Heart, Lung and Blood Institute and American College of Preventive Medicine: American College of Preventive Medicine representative on the Coordinating Committee for the National Cholesterol Education Program (NCEP) II

1989-1999 Senior Fellow, Harvard Medical School: Francis Weld Peabody Society

1989 Chair, NHLBI, Workshop on Cost and Efficiency in Clinical Trials

1989-1990 Member, Massachusetts Public Health Association: Membership Committee

1990-1997 Member, American College of Preventive Medicine: Science Committee

1990-1992 Member, Harvard Medical School, Curriculum Committee

1990-1992 Chair, American Heart Association: Task Force on Aspirin and Cardiovascular Disease

1990-1994 Member, National Cancer Institute: Board of Scientific Counselors, Division of Cancer Prevention and Control

1990-1991 Member, National Cancer Institute: Advisory Committee for Trial of Risks and Benefits of Tamoxifen

1990-1994 Member, American College of Epidemiology, Publications Committee

1991-1998 Chair, Advisory Committee, Queensland Institute of Medical Research, Australia: A Randomized Trial of Beta-Carotene and Sun Screen in Reducing Risks of Skin Cancer

1991-2001 Member, Fibrinolytic Trialists Collaboration, Clinical Trial Service Unit, Oxford, University

1991-1992 Chair, American Heart Association: Task Force on Smoking and Cardiovascular Disease

1991-1997 Member, Harvard Medical School, Appointments and Promotions Committee

1991-1994 Member, Veterans Administration: Advisory Committee for the Normative Aging Study

1991-1996 Chair, Data and Safety Monitoring Board: A Prospective Randomized Evaluation of the Vascular Effects of NORVASC Trial (PREVENT), Bowman Gray School of Medicine

1991-1994 Member, Data and Safety Monitoring Committee, Community Intervention Trial for Smoking Cessation (COMMIT), National Cancer Institute

1991-1994 Member, Society for Epidemiologic Research: Executive Committee

1992-1993 Society for Epidemiologic Research liaison to the American College of Epidemiology: Ethics and Standard of Practice Committee (E.S.O.P)

1992-1993 Member, National Heart, Lung and Blood Institute Task Force on Research in Epidemiology and Prevention of Cardiovascular Diseases

1992-1993 Member, National Cancer Institute: Expert Panel on Advances in Cancer Prevention

1993-1994 Chairman, Data and Safety Monitoring Board for Trials of Hirulog (TIMI-7), Brigham and Womens Hospital

1993-1994 Chair, Data Safety and Monitoring Committee, Randomized Trial of Hirulog in Angioplasty, Brigham and Womens Hospital

1993-1996 Chair, Safety Monitoring Committee, Green Lane/National Women's Hospital, Auckland, New Zealand, HERO (Hirulog and Early Reperfusion/Occlusion Study)

1993-1995 Member, National Institutes of Health: Presentations and Publications Committee, Women's Health Initiative

1993-1995 Member, McMaster University: Steering Committee for Trial of Hirudin in Unstable Angina Pectoris

1993-1998 Chair, Clinical Trial Service Unit, Oxford University: Antioxidant Trialists Collaboration

1994 Member, University of Pittsburgh, Pittsburgh, PA, Research Integrity Panel

1994 Member, International Advisory Board of the GISSI-Prevenzione trial

1994 Member, National Cancer Institute: Committee to Review Scientific Director, DCPC

1994-1995 Member, Brigham and Women's Hospital/Massachusetts General Hospital Research Task Force

1994-1995 Chair, Clinical Trial Working Group, Partner's (MGH/BWH) Research Task Force

1994-1995 Member, American Society of Hypertension, Task Force on Blood Pressure Management

1995-2000 Member, Data and Safety Monitoring Board, Heart Outcomes Protection Evaluation (HOPE)

1995 Member, National Atherosclerosis Prevention and Educational Council

1995 Member, Harvard Medical School, Data Safety Monitoring Committee for Prospective, Randomized Enalapril Study Evaluating Regression of Ventricular Enlargement Trial, PRESERVE

1995 Member, American College of Cardiology, 27th Bethesda Conference

1996 Member, International Advisory Board, 4th International Symposium on Multiple Risk Factors in Cardiovascular Disease

1996-1999 Member, Institute of Medicine, Food and Nutrition Board, Member

1996-1999 Member, Institute of Medicine, Standing Committee on the Scientific Evaluation of Dietary Reference Guidelines

1996-1999 Member, Research Council Committee, Brigham and Women's Hospital

1996-1999 Member, Clinical Investigation Committee, Brigham and Women's Hospital

1997-2000 Member, Data Safety and Monitoring Committee, HERO-2 Trial

1997-1999 Member, Scientific Advisory Committee, International Society of Heart Failure

1997-1999 Member, PROCOR International Advisory Committee

1997-1999 Member, Board of Scientific Counselors, NIA

1997 Chair, RESOLVD Advisory Panel

1997-2002 Chair, Data Safety Monitoring Committee, WIZARD

1997-1999 Member, Scientific Executive Committees of the International Academy of Cardiology/1st International Congress on Heart Disease

1997 Member, Search Committee for Director, Division of Cancer Prevention, NCI
 1997 Member, Multiple Risk Factors in Cardiovascular Disease, International Advisory Board
 1997-1999 Member, Research Committee, Partners Health Care Systems (BWH/MGH)
 1997-2005 Member, Data Safety Monitoring Committee Fenofibrate Intervention and Event Lowering in Diabetes (FIELD)
 1997-1999 Member, Partners HealthCare System, Inc., Research Council
 1998-1999 Member, Epidemiology and Biostatistics Subcommittee, Harvard Medical School
 1998-1999 Member, NHLBI, SPARK Working Group
 1998-1999 Chair, Steering Committee, Massachusetts Veterans Epidemiology Research and Information Center (MAVERIC)
 1998-1999 Member, Food and Nutrition Board, Institute of Medicine, Standing Committee on the Scientific Evaluation of Dietary Reference Intakes, Member
 1998-1999 Member, Food and Nutrition Board, Institute of Medicine, Panel on Folate and Other Vitamins and Choline
 1998-1999 Liaison, Food and Nutrition Board, Institute of Medicine, Panel on Dietary Antioxidants and Related Compounds
 1998-2004 Chair, Data Safety Monitoring Committee Candesartan Cilexetil Heart Failure Program (CHARM)
 1998-2005 Chair, Data Safety and Monitoring Board, Treating to New Targets (TNT)
 1998-1999 Member, International Advisory Board of the 5th International Symposium on Multiple Risk Factors in Cardiovascular Disease: Global Assessment and Intervention, Venice, Italy
 1998-2000 Chair, Data Safety and Monitoring Board, Randomized Trials of CARTICEL
 1998-2002 Chair, Data and Safety Monitoring Board, WIZARD
 1999-2003 Member, Data and Safety Monitoring Committee, VALIANT
 1999-2004 Chair, Data and Safety Monitoring Board, CAMELOT AND NORMALISE
 1999-2006 Chair, Special Advisory Committee (SAC), STAR
 2000- Blood Pressure Observational Studies Collaboration, Clinical Trial Service Unit and Epidemiological Studies Unit, University of Oxford, Nuffield Department of Clinical Medicine
 2000 Member, Mayo Clinic: Review of Cardiovascular Disease Research
 2001-2006 Member, Data and Safety Monitoring Board, HOPE-TOO
 2001-2006 Chair, Data and Safety Monitoring Board, ZODIAC
 2001-2014 Member, Preventive Medicine Residency Advisory Committee, Palm Beach County Health Department and Nova Southeastern University
 2001-2006 Member, Data and Safety Monitoring Board, FIELD
 2002-2007 Member, Data and Safety Monitoring Board, ONTARGET/TRANSCEND
 2002- Special Government Employee (SGE) serving as consultant to the Division of Cardioresenal Drugs of the US Food and Drug Administration
 2001-2004 Co-Chair, TACT Steering Committee NCCAM and NHLBI
 2003-2004 Scientific Advisory Board, Miami Heart Research Institute
 2004- Member, Data and Safety Monitoring Board, ASCEND
 2003-2006 Member, External Advisory Board, Cardiovascular Research Institute, Morehouse School of Medicine
 2004-2009 Chair, Data and Safety Monitoring Board, TREAT
 2004-2007 Director of Research, Agatston Research Institute (ARI)
 2005-2007 Chair, Data and Safety Monitoring Board, ILLUMINATE

2005-2009 Member, Data and Safety Monitoring Committee, CONDOR

2005-2007 Member, Data and Safety Monitoring Board, CSG, Trials of Sulodexide in Diabetic Nephropathy

2006-2014 Data and Safety Monitoring Board, COMPASS-2, Chair

2006- Cyclooxygenase 2 Inhibitors and Non-Steroidal Anti-inflammatory Drug Trialist (CNT) Collaboration, University of Oxford, Clinical Trial Services Unit

2006-2013 Chair, Data and Safety Monitoring Board, EVOLVE

2008-2012 Chair, Data and Safety Monitoring Board, DEFINE

2007-2009 Chair, Data and Safety Monitoring Board, STIMULATE

2007- Member, Data and Safety Monitoring Board, ARRIVE,

2007-2008 Member, Torcetrapib Academic Advisory and Oversight Committee (TAAOC)

2007 Speaker, International Atherosclerosis Society

2007-2008 Working Group, General Medical Health, Joint Committee, Long Term Management of Patients with Schizophrenia

2007-2010 Chair, Preventive Medicine Residency Research Oversight Committee (ROC), Palm Beach County Health Department and Nova Southeastern University.

2007-2008 Special Advisory Panel, National Institute on Aging (NIA)

2007-2013 Presidential Advisory Board, Queens College

2007-2015 Founding Member of the Board of Directors, Florida Public Health Institute (FPHI) and Florida Institute for Health Initiatives (FIHI)

2007-2014 Chair, Data and Safety Monitoring Board, PEARL

2008-2013 Chair, Data and Safety Monitoring Committee, MB-102029

2008-2012 Scientific Advisory Board, Ontario Health Study

2009-2016 Member, Data and Safety Monitoring Board, HOPE-3

2009 Chair, Report to the American College of Graduate Medical Education on the Preventive Medicine Residency Program of the Palm Beach County Health Department and Nova Southeastern University

2009- Scientific Advisory Board, International Academy of Cardiology

2009-2010 Scientific Advisory Board, 15th World Congress on Heart Disease

2009-2014 Chair, Data and Safety Monitoring Committee, AMG 785 Phase 2 trials

2009-2014 Chair, Data and Safety Monitoring Board, PREVAIL

2009-2010 Research Steering Committee, Florida Atlantic University

2010-2011 Expert Panel Palm Healthcare Foundation

2010- 2014 Chair, Data and Safety Monitoring Board, MB102054/55

2010-2012 Chair, Data and Safety Monitoring Board, VISTA-16

2011 Institute of Medicine, External Reviewer, Evaluation of Biomarkers and Surrogate Endpoints in Chronic Disease

2011- Scientific Advisory Board, Queens College

2011-2013 Board of Directors, Delray String Quartet

2011-2014 Chair, Data Monitoring Committee, AMG 145 Phase 2 trials

2011 Member, Strategic Planning Committee, Charles E. Schmidt College of Medicine, Florida Atlantic University

2011- Founding Member, Advisory Board, Charles E. Schmidt College of Medicine, Florida Atlantic University

2012- Honorary Chair, Selection Committee, Queens College Athletics Hall of Fame

2012- Chair, Data Monitoring Committee, AMG 785 Phase 3 trials

2012- 2015 Chair, Preventive Medicine Residency Advisory Committee, Palm Beach County Health Department and Nova Southeastern University

2012- 2013 Member, Writing Committee, Guidelines for Diabetes and Cancer, American College of Endocrinology/American Association of Clinical Endocrinologists

2013- Senior Academic Advisor, American Association of Clinical Endocrinologists, FDA Issues Committee

2013 Chair, Continuing Medical Education (CME) Committee, Charles E. Schmidt College of Medicine, FAU

2013- Member, Data Monitoring Committee, REWIND

2013-2014 Member, Program Evaluation Committee (PEC) Preventive Residency Program, Palm Beach County Health Department – Nova Southeastern University

2013- Chair, Data Monitoring Committee, AMG 145/118 Phase 3 trials

2014 Member, Search Committee for Medical Educator (Internist), Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Member, Search Committee for Surgery Residency Program Director, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Member, Search Committee for Emergency Medicine Residency Program Director, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Co-Chair, Search Committee for Course Director, Foundations of Medicine, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Co-Chair, Search Committee for Course Director, Pharmacology, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Member, American Association of Clinical Endocrinologists (AACE) subcommittee presenting at FDA Hearing on Confidentiality of Interim Results in Cardiovascular Disease Outcomes Safety Trials

2014 Member, Scientific Advisory Board, International Academy of Cardiology, Annual Scientific Sessions 2014, 19th World Congress on Heart Disease, Invited Lecturer and Chair of Novel Therapies for Atherosclerosis

2014- Member, Editorial Board, Journal of the International Academy of Cardiology

2014-2020 Chair, Promotions and Tenure Committee, Department of Integrated Medical Sciences, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014-2015 Member, Writing Committee, American College of Endocrinology/American Association of Clinical Endocrinologists Consensus Conference on Obesity

2014-2016 Member, Data Monitoring Committee, MIPO3801011/EFC12875

2014- Chair, Data and Safety Monitoring Board, TIPS-3

2014-2016 Chair, Data Monitoring Committee, BMS 512548

2014-2016 Member, Board of Directors, Florida Institute for Health Innovations

2014- Chair, Data Monitoring Committee, Dal-GeneE

2014-2015 Member, Scientific Executive Committee of the International Academy of Cardiology and of the 20th World Congress on Heart Disease

2014-2015 Member, Event Planning Subcommittee, Advisory Board, Charles E. Schmidt College of Medicine, FAU

2014-2020 Member, Conflict of Interest Committee, Division of Research, FAU

2015-2020 Chair, Data Monitoring Committee REGN475

2015- Chair, Data Monitoring Committee, AMG 334

2015-2019 Member, Intercollegiate Athletics Committee (IAC). FAU

2015 Member, Search Committee for Clinician-Educator, Charles E. Schmidt College of Medicine, FAU

2015-2016 Member Scientific Executive Committee of the International Academy of Cardiology

2015-2019 Member, Student-Athlete Well Being Subcommittee of the Intercollegiate Athletics Committee, FAU

2015-2019 Member, Academic Integrity Subcommittee of the Intercollegiate Athletics Committee, FAU

2016-2019 Judge, Medical Student and Resident Research and Scholarship Day, Charles E. Schmidt College of Medicine, FAU

2016- Faculty, Medical Scholars Program, Claire and Emanuel G. Rosenblatt High School at Donna Klein Jewish Academy, Charles E. Schmidt College of Medicine, FAU

2016 Member, Organizing Committee, International Conference on Clinical and Experimental Cardiology

2016-2019 Medical Education Scholarship Working Group, Charles E. Schmidt College of Medicine, FAU

2016- Chair, Preventive Medicine Residency Research Oversight Committee, (RROC), Preventive Medicine Residency Program, Palm Beach County Health Department and Nova Southeastern University

2016-2020 Chair, Data Monitoring Committee, TIPS-3

2017- 2022 Chair, Data Monitoring Committee, Prolia Pediatrics Program

2017-2020 Member, Board of Advisors, International Center for Emergency Management, FAU

2017- 2020 Member, Subcommittee on Academic Programs, International Center for Emergency Management, FAU

2017- Member, Athletic Alumni Advisory Board, Queens College

2017-2019 COM representative, Steering Committee, Science, Technology, Engineering, Art, and Mathematics (STEAM) initiative, Division of Research, FAU

2017- Member, Undergraduate and Graduate Medical Education Research Committee, Charles E. Schmidt College of Medicine, FAU

2018- Member, Organizing Committee, I Am Hillel

2019- Member, Advisory Board, Wei-Bridge

2020- Member, Promotions and Tenure Committee, College of Medicine, FAU

2021- Member, Advisory Committee, International Parkour Federation

2022-2023 Interim Chair, Department of Population Health and Social Medicine, Charles E. Schmidt College of Medicine, FAU

2023 Chair, Search Committee to recruit Professor and Chair of Population Health, COM, FAU

2025 Member, Search Committee, Biostatistician, Department of Population Health , COM, FAU

2025 Interim Chair, Department of Population Health, COM,FAU

2025 Member, Council of Chairs, Office of the Provost, FAU

Memberships in Professional Societies:

1975-2000 Society for Epidemiologic Research

1978-2000 American Association for the Advancement of Science

1979- American Epidemiological Society

1978-2000 American Federation for Clinical Research

1977-2000 American Heart Association, Council on Epidemiology (Fellow)

1977-2000 American Public Health Association, Epidemiology Section

1983-2000 American Society for Clinical Pharmacology and Therapeutics
 1978-2000 American Society for Preventive Oncology
 1989- Argentine Society of Cardiology (Honorary Member)
 1994- Association of American Physicians
 1978-2000 Association of Teachers of Preventive Medicine
 1988-2000 International Association for Vitamin and Nutritional Oncology
 1977-2000 International Epidemiological Association
 1978-2000 Massachusetts Heart Association
 1982-2000 Massachusetts Medical Society
 1979-2000 Massachusetts Public Health Association
 1979-2000 New York Academy of Science
 1982-2000 Norfolk District Medical Society
 1979-2000 Scientific Council on Epidemiology and Prevention, International Society and Federation for Cardiology
 1980-2000 Society for Clinical Trials
 1993-2000 International Society for Nutrition and Cancer
 2010- American Heart Association, Council on Epidemiology (Emeritus Fellow)
 2010- American College of Preventive Medicine (Emeritus Fellow)

Committees and Advisory Positions

1971-1978 University of Miami School of Medicine: Department of Epidemiology and Public Health and Specialized Center of Research (SCOR) for Atherosclerosis, Miami, FL
 1975-1977 Pan American Health Organization, Caracas, Venezuela
 1979-1982 Dartmouth Medical School: Randomized Trials of Beta-Carotene in Cancer, Hanover, NH
 1979-1981 National Cancer Institute: Cancer Control Programs, Bethesda, MD
 1980 Ministry of Health, Havana, Cuba: Epidemiologic Investigations of Sudden Cardiac Death
 1981 World Health Organization: Observational Studies and Randomized Trials of BCG Vaccine, Cali, Colombia
 1981 National Heart, Lung and Blood Institute, Hadassah Hospital, Jerusalem, Israel
 1982-1985 Brockton VA Hospital: Consultant in Medicine, Brockton, MA
 1982 American Bureau for Medical Advancement in China, Taipei, Taiwan
 1984-1989 University of Miami School of Medicine, Epidemiologic Studies of AIDS in Haitian Families, Miami, FL
 1984-1989 University of Miami School of Medicine: Department of Epidemiology and Public Health: Graduate Program in Public Health, Miami, FL
 1984-1989 West Roxbury VA Hospital: Consultant in Medicine, West Roxbury, MA
 1986-1987 Centers for Disease Control: Consultant in Epidemiology to Studies of PCB Exposure in New Bedford, MA
 1989 Member, Advisory Board, Dartmouth Medical School: Treatment and Outcome with Unstable Angina in the Elderly
 1989 Reviewer, U.S. Preventive Services Task Force
 1990-1992 Member, Agency for Health Care Policy Research and Health Financing Administration: Technical Advisory Panel for Medicare Beneficiary Health Status Registry
 1993 Office for Technology Assessment: Large and Simple Trials

1994 Reviewer, US Preventive Services Task Force

2000-2002 Chair, Clinical Trials Advisory Board, TheHealthExchange.org

2000- Author of 8 Chapters, UpToDate

2000-2003 Perioperative Medicine Advisory Committee, Ischemia Research and Education Foundation and National Heart, Lung, and Blood Institute

2001-2003 Member, Glades Asthma Project, Palm Beach County Health Department and Nova Southeastern University

2001-2004 Member, Advisory Board, Genetic Biomarkers in the Prevention of Events with Angiotensin-Converting Enzyme Inhibitors (PEACE) Trial, Yale University School of Medicine and National Heart, Lung and Blood Institute

2003-2004 Section Editor, Statin Drugs, Current Atherosclerosis Reports, 2004:6.

2004-2006 Director of Research, Agatston Research Institute

2009-2010 Member, Children's Services Council, Palm Beach County

2013-2015 Co-Investigator, BUILD grant funded by NIH to Charles E. Schmidt College of Medicine, FAU

2014- Consultant to the Director of Graduate Programs, Charles E. Schmidt College of Medicine, Florida Atlantic University

2015-2018 Advisor to David B. Allison, Ph.D., Principal Investigator, Distinguished Professor, University of Alabama at Birmingham, R25 funded in response to RFA-OD-13-09: Strengthening Causal Inference in Behavioral Obesity Research

2014-2019: Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College: 2 P20 MD000516-95A1. NIH/NCMHD. National Institutes of Health/National Institute on Minority Health and Health Disparities. National Health Disparities Research Center of Excellence at Meharry

2014-2019 Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College:

2014-2019 Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College 68001-30113 US Department of Agriculture -- National Institute of Food Agriculture, and Integrated Research, Education and Extension to Prevent Childhood Obesity. USDA-NIFA-AFRI -003327 Nashville Children Eating Well (CHEW)

2014-2019 Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College 12-180. US Health Resources and Services Administration. Integrative Medicine Program (IMP)

2014-2019 Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College D18HP05283. US Health Resources and Services Administration. Preventive Medicine Training Grant.

2014-2019 Consultant to Robert S. Levine, MD, Principal Investigator, Professor of Family and Community Medicine, Meharry Medical College and Baylor Medical College: Meharry-State Farm Alliance to reduce or eliminate racial/ethnic disparities in automobile accidents.

2014-2016 Co-Investigator to Dr. Kim Fasula and Professor Carla Evans, University of Illinois School of Dentistry on a randomized trial of plaque identifying toothpaste to reduce dental plaque and inflammation.

2014-2019 Mentor to MM de Grubb, Fellow, Robert Wood Johnson Center for Health Policy at Meharry Medical College

2016- PI of sub-study for an investigator initiated research grant funded by NSF to Jason Hallstrom at FAU

- 2016- Co-Investigator for an investigator initiated research grant under review at NSF submitted by Ankur Agarwal at FAU
- 2017- Co-Investigator and Chair of the Executive Committee for an investigator initiated research grant on a randomized trial of aspirin and decreased progression of atherosclerosis with FAU as a subcontract to Harvard Medical School and Brigham and Women's Hospital following an NIH submission, which was approved but not funded.
- 2016-2017 Co-Editor with Dr. Joanna Drowos, Public Health Module of the Collaborative Institutional Training Initiative (CITI) Program, University of Miami
- 2017 Advisor, We-Bridge, Inc to attract Chinese students to FAU
- 2025- Chair, Epidemiology Fast Track for Schmidt College of Medicine, FAU medical students
- 2025- Interim Chair, Department of Population Health, Schmidt College of Medicine, FAU.
- 2025- Ex officio Member, Search Committee for Permanent Chair of Population Health, Schmidt College of Medicine, FAU

Major Interests:

- Preventive Medicine: Research, Clinical, Teaching, and Training
- Epidemiology: Prevention and Treatment of Chronic (especially Cardiovascular and Cancer) and Acute Diseases
- Biostatistics & Study Design: Strengths and Limitations of Descriptive and Analytic Studies (Case-Control, Cohort and Randomized Trials)

Teaching Experience:

- 1969 Visiting Lecturer in Epidemiology, Pan American Health Organization, San Salvador, El Salvador
- 1970 Instructor in EIS course, Centers for Disease Control, Atlanta, GA
- 1972-1975 Seminar leader in Epidemiology, Principles and Methods, directed by Brian MacMahon, Harvard School of Public Health
- 1972-1975 Instructor in Introduction to Biostatistics, directed by Robert Reed, PhD Harvard School of Public Health
- 1972-1973 Instructor in Introduction to Epidemiology and Biostatistics, directed by Margaret E. Drolette, PhD, Tufts University Medical School
- 1973-1974 Course Director, Introductory Epidemiology and Biostatistics, University of Miami School of Medicine
- 1975-1977 Instructor in Introduction to Epidemiology, directed by Alexander Langmuir, MD Harvard Medical School
- 1980-1985 Course Director, Introduction to Principles and Methods of Epidemiology, Boston University School of Public Health
- 1980-1992 Faculty, Epidemiologic and Biostatistical Approaches to Clinical Vision Research, directed by Carl Kupfer, MD National Eye Institute

1980-1989	Course Director, Introduction to Principles and Methods of Epidemiology, Department of Preventive Medicine, Harvard Medical School
1981-1985	Course Co-Director, Advanced Methods in Chronic Disease Epidemiology, Boston University School of Public Health
1981-1985	Course Director, Advanced Methods in Chronic Disease Epidemiology, Division of Public Health, University of Miami School of Medicine, Miami, FL
1982-1999	Guest Lecturer, Knight Science Journalism Fellowship, Massachusetts Institute of Technology
1983-1984	Course Director, Principles and Methods of Epidemiology and Biostatistics, Sponsored by the Saudi Medical Journal, Riyadh, Kingdom of Saudi Arabia
1985	Course Director, Workshop in Epidemiology and Biostatistics, Sponsored by the Bahrain Medical Bulletin, Kingdom of Bahrain
1985-1988	Course Co-Director, Advanced Methods in Chronic Disease Epidemiology, University of Miami School of Medicine
1985-1988	Course Co-Director, Advanced Methods in Epidemiology, Department of Preventive Medicine and Clinical Epidemiology, Harvard Medical School
1988	Faculty, Graduate Summer Session in Epidemiology, University of Michigan School of Public Health
1988-1989	Course Director, Practice of Epidemiology, University of Miami School of Medicine
1988-1998	Course Co-Director, Principles and Methods of Epidemiology, German-American Epidemiology Summer School, Ruhr University, Bochum, Federal Republic of Germany, World Health Organization
1989-1993	Course Co-Director, Introduction to the Principles and Methods of Epidemiology, Harvard Medical School
1990	Faculty, Epidemiological and Biostatistical Approaches to Clinical Vision Research, Association of University Professors of Ophthalmology
1990-1995	Lecturer, HST S11, The Art and Science of Medicine, MIT, Boston, MA
1991	Faculty, International Course on Epidemiology and Medical Research Methodology, sponsored by American College of Epidemiology, Athens, Greece
1995-1999	Faculty, (CS701.0), Critical Reading of the Medical Literature, Harvard Medical School
2000-	Faculty, Department of Preventive Medicine, Nova Southeastern University
2001-2004	Faculty, Samet Chair of Cardiology, Mount Sinai Medical Center – Miami Heart Institute
2002-2007	Faculty, Symposium on Integrative Medicine, University of Miami Miller School of Medicine
2007-	Faculty Symposium on Advanced Diabetes Management for Endocrine Fellows, directed by Alan Garber, MD, Baylor College of Medicine.
2008-	Invited to lecture to MD-MPH students at the University of Miami Miller School Of Medicine
2009	Faculty, Ecology of Healthcare Associated Infections, Holy Cross Hospital, directed by N. Joel Ehrenkranz, MD
2009	Faculty Introduction to Applied Public Health Master's Course, Florida Public Health Institute Faculty Association for Research in Vision and Ophthalmology (ARVO), directed by Frederick R. Ferris III, MD, National Eye Institute
2011	Invited Lecturer to second year students at the Charles E. Schmidt College of Medicine, FAU

2011 Invited Lecture, Lifelong Learning Society, Florida Atlantic University

2012 Invited Lecture, Lifelong Learning Society, Florida Atlantic University

2013 Clinician and preceptor, First Health Fair, Charles E. Schmidt College of Medicine, FAU in Belle Glade, FL

2013 Certificate of Appreciation from the medical students for participation and contributions to the first FAU Charles E. Schmidt College of Medicine Health Fair in Belle Glade, FL

2014- Preceptor, Second Health Fair, Charles E. Schmidt College of Medicine, FAU in Lantana FL

2014- Lecturer, Introduction to Medicine for Pre-Professionals, Charles E. Schmidt College of Medicine, FAU

2014- Research Mentor, Elizabeth Mora, MD, Resident in Internal Medicine, University of Miami Miller School of Medicine

2014- Research Mentor, JuYoung Park, PhD, Hartford Geriatric Social Work Faculty Scholar, Assistant Professor, School of Social Work, Florida Atlantic University

2014- Research Mentor, Susan MacLeod Dyess, PhD, RN, AHN-BC, Assistant Professor, Christine E. Lynn College of Nursing, Florida Atlantic University

2014- 2015 Research Mentor, Benjamin Bensadon, PhD, Assistant Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014- Research Mentor, Michelle Lizotte-Waniewski, PhD, Assistant Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014- Research Mentor, Michele Pergadia, PhD, Associate Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2014 Invited Lecture, Pre-baccalaureate students, Charles E. Schmidt College of Medicine, FAU

2014 Invited Lecture, European Society of Cardiology, Barcelona, Spain

2014 Invited Speaker, 13th Annual Symposium on Advanced Diabetes Management for Endocrine Fellows, Baylor College of Medicine

2014 Co-Chair, 13th Annual Symposium on Advanced Diabetes Management for Endocrine Fellows, Baylor College of Medicine

2015 Invited Lecture, Pre-baccalaureate students, Charles E. Schmidt College of Medicine, FAU

2015 Invited Lecture to second year students at the Charles E. Schmidt College of Medicine, FAU

2015 Invited Speaker, Lifelong Learning Society, Florida Atlantic University

2015 Invited Speaker, American Society for Preventive Cardiology, Boca Raton, FL

2015 Murray Goldstein Commemorative Lecture, American Osteopathic College of Occupational and Preventive Medicine, Fort Lauderdale, FL

2015 Sponsor of Dr. Joanna Drowos for the 2015 class of the Harvard-Macy Institute Program, Harvard Medical School

2016 Invited Speaker, Lifelong Learning Series, Charles E. Schmidt College of Medicine, FAU

2016 Guest lecturer, Pre-baccalaureate class, FAU

2016 Guest lecturer, Clinical Epidemiology/Biostatistics Section, Introduction to Hospital Medicine,

Charles E. Schmidt College of Medicine, FAU

2016 Small group discussion leader, Clinical Epidemiology/Biostatistics Section, Introduction to Hospital Medicine, Charles E. Schmidt College of Medicine, FAU

2016 Research Mentor, Jonathan Powell MD, first year resident at BRRH

2016 Research Mentor, Emanuel Ebin MD, first year resident at BRRH

2016 Faculty, Foundations of Medicine course, Charles E. Schmidt College of Medicine, FAU

2016 Invited Inaugural Speaker, Puerto Rican Society of Cardiology, Fajardo, Puerto Rico

2016 Invited Speaker, International Academy of Cardiology, Boston, MA

2016 Invited Speaker, Charles E. Schmidt College of Medicine and Donna Klein Academy Research Seminar

2016 Invited Speaker, Preventive Medicine Residency Program, Palm Beach County Health Department and Nova Southeastern University

2016 Keynote Speaker, 2nd International Conference and Expo on Lipids: Metabolism, Nutrition & Health

2016 Inaugural Speaker, International Conference on Clinical and Experimental Cardiology

2017 Invited speaker: Ocean Towers, Boca Raton

2017 Invited speaker: Crimson Conversations, Harvard Club of the Palm Beaches

2017 Mentor, Directed Independent Study for Simone Taylor, BS, College of Biomedical Science, FAU

2018 Invited speaker: Distinguished Lecturer Series, Charles E. Schmidt College of Medicine, FAU

2018 Invited speaker: International Academy of Cardiology Meeting

2018 Faculty: Training future members of Independent Data Monitoring Committees, Department of Biostatistics and Informatics, University of Wisconsin School of Medicine & Public Health

2018 Mentor, Directed Independent Study for Alexander Gitin, Department of Biology, FAU

2018 Mentor, Directed Independent Study for Madeline Pung, Department of Biology, FAU

2018 Invited Speaker, Journal Club, American Medical Student Association, Charles E. Schmidt College of Medicine, FAU

2018 Co-mentor with Professor Steven Lewis for Bruceline Michel, RN, College of Biomedical Science, FAU

2019-2019 Member, Planning Committee, International Academy of Cardiology Meeting

2020 Roundtable Speaker and Panelist, FIU Conference on Fellowships and Career Planning

2020 Invited speaker: International Academy of Cardiology Meeting

2021- Invited Speaker, Introduction to Epidemiology and Biostatistics, Professor Kathy Freeman, Charles E. Schmidt College of Medicine, FAU

2023 OpEd Sun Sentinel

2023-2027 Co- investigator with Dr. Freeman on NIH grant to teach in the Epidemiology Workshop for Florida Summer Institute in Biostatistics and Data Science, FAU

BIBLIOGRAPHY

As of November 1, 2025 Professor Hennekens is the author/co-author of 1012 peer-reviewed publications including 597 original reports (including 4 under review or in preparation), 410 commentaries, reviews and book chapters,(including 4 under review or in preparation), and 5 text books.

Original Reports

1. Hennekens CH, Saslaw MS, Grossman M. Epidemic hemodialysis associated hepatitis among hospital personnel. CDC Hepatitis Surveillance Report 1971; 33:4-11.
2. Counts GW, Nitzkin JL, Hennekens CH, Ehrenkranz NJ. Shiga bacillus dysentery acquired in Nicaragua. Arch Intern Med 1971; 128:582-4.
3. Maki DG, Hennekens CH, Bennett JV. Prevention of catheter-associated urinary tract infections; an additional measure. JAMA 1972; 224:1270-71.
4. Hennekens CH. Hemodialysis associated hepatitis: an outbreak among hospital personnel. JAMA 1973; 225:407-9.
5. Kaiser AB, Hennekens CH, Saslaw MS, Hayes PS, Bennett JV. Sero-epidemiology and rifampin drug trial during a civilian epidemic of meningococcal disease. J Infect Dis 1974; 130:217-24.
6. Hsia SL, Sheng Y, Hennekens CH, Reader WB. Decreased serum cholesterol binding reserve in premature myocardial infarction. Lancet 1975; 2:1100-4.
7. Blumenthal S, Jesse MJ, Hennekens CH, Klein BE, Ferrer PL, Gourley JE. Risk factors for coronary artery disease in children of affected families. Pediatrics 1975; 87:1187-92.
8. Klein BE, Hennekens CH, Jesse MJ, Gourley JE, Blumenthal S. Longitudinal studies of blood pressure in offspring of hypertensive mothers. In: Paul O (ed). Epidemiology and Control of Hypertension. Miami: Symposia Specialists, 1975:387-95.
9. Hennekens CH, Drolette ME, Jesse MJ, Davies JE, Hutchison GB. Coffee drinking and death due to coronary heart disease. N Engl J Med 1976; 294:633-6.
10. Hennekens CH, Jesse MJ, Klein BE, Gourley JE, Blumenthal S. Aggregation of blood pressure in infants and their siblings. Am J Epidemiol 1976; 103:457-63.
11. Hennekens CH, Jesse MJ, Klein BE, Gourley JE, Blumenthal S. Cholesterol among children of men with myocardial infarction. Pediatrics 1976; 58:211-7.
12. Hennekens CH, Jesse MJ, Klein BE, Gourley JE, Blumenthal S. Sibling aggregation of blood pressure: nature or nurture? Prev Med 1976;5: 60-62.
13. Hennekens CH, Saslaw MS. A diphtheria outbreak in Dade County, Florida. South Med J 1976; 69:759-63.
14. Rosner B, Hennekens CH, Kass EH, Miall WE. Age-specific correlation analysis of longitudinal blood pressure data. Am J Epidemiol 1977; 106:306-13.
15. Hennekens CH, Rosner B, Jesse MJ, Drolette ME, Speizer FE. A retrospective study of physical activity and coronary deaths. Int J Epidemiol 1977; 6:243-46.

16. Rosner B, Donner A, Hennekens CH. Estimation of interclass correlation from familial data. *Applied Statistics* 1977; 26:179-87.
17. Evans DA, Williams DN, Laughlin LW, Miao L, Warren J, Hennekens CH, Shimada J, Chapman W, Rosner B, Taylor JO. Bacteriuria in a population-based cohort of women. *J Infect Dis* 1978; 138:768-73.
18. Evans DA, Hennekens CH, Miao L, Laughlin L, Chapman W, Rosner B, Taylor JO, Kass EH. Oral contraceptive use and bacteriuria in a community-based study. *N Engl J Med* 1978; 299:536-37.
19. Rosner B, Hennekens CH. Analytic methods in matched pair epidemiologic studies. *Int J Epidemiol* 1978; 7:367-72.
20. Belanger C, Hennekens CH, Rosner B, Speizer FE. The Nurses' Health Study. *Am J Nursing* 1978; 78:1039-1040.
21. Hennekens CH, Rosner B, Cole DS. Daily alcohol consumption and fatal coronary heart disease. *Am J Epidemiol* 1978; 107:196-201.
22. Hennekens CH, Karlson LK, Rosner B. A case-control study of regular aspirin use and coronary deaths. *Circulation* 1978; 58:35-8.
23. Levine RS, Hennekens CH, Klein B, Gourley J, Briese FW, Hokanson J, Gelband H, Jesse MJ. Tracking correlations of blood pressure levels in infancy. *Pediatrics* 61 (1): 121-123, 1976.
24. Levine, R.S., Hennekens, C.H., Briese, F.W., Robertson, E., Cassady, J., Gourley, J., Gelband, H.: A prospective study of blood pressure in newborn twins. In: Nance, W.E., editor, *Twin Research. Part C-Clinical Studies*, New York, 1978, Alan R. Liss, pp. 21-29.
25. Bain C, Hennekens CH, Rosner B, Speizer FE, Jesse MJ. Cigarette consumption and deaths from coronary heart disease. *Lancet* 1978; 1:1087-8.
26. Rosner B, Donner A, Hennekens CH. Significance testing of interclass correlations from familial data. *Biometrics* 1979; 35:461-71.
27. Hennekens CH, Speizer FE, Rosner B, Bain C, Belanger C, Peto R. Use of permanent hair dyes and cancer among registered nurses. *Lancet* 1979; 1:1390-3.
28. Esserman L, Levine RS, Hennekens CH, Jesse MJ. Effect of position on blood pressure in healthy infants. *Clin Ped* 18 (11): 649-656. 1979.
29. Hennekens CH, Evans DA, Castelli WP, Taylor JO, Rosner B, Kass EH. Oral contraceptive use and fasting triglyceride, plasma cholesterol, and HDL cholesterol. *Circulation* 1979; 60:486-91.
30. Siegel AJ, Hennekens CH, Solomon H, Van Boeckel B. Exercise-related hematuria: findings in a group of marathon runners. *JAMA* 1979; 241:391-2.
31. Hennekens CH, Willett W, Rosner B, Cole DS, Mayrent SL. Effects of beer, wine and liquor in coronary deaths. *JAMA* 1979; 242:1973-4.
32. Levine RS, Hennekens CH, Klein BE, Ferrer PL, Gourley J, Cassady J, Gelband H, Jesse MJ. A longitudinal evaluation of blood pressure in children. *Am J Public Health* 1979; 69:1175-7.
33. Hennekens CH, Evans D, Peto R. Oral contraceptives, cigarette smoking and myocardial infarction. *Br J Family Planning* 1979; 5:66-7.

34. Siegel AJ, Hennekens CH, Rosner B, Karlson LK. Paternal history of coronary-heart disease reported by marathon runners. *N Engl J Med* 1979; 301:90-1.
35. Evans DA, Miao L, Hennekens CH, Kass EH. Clearance of bacteriuria with discontinuation of oral contraceptive use. *Br Med J* 1980; 6208:152.
36. Barton J, Bain CJ, Hennekens CH, Rosner B, Belanger C, Roth A, Speizer FE. Characteristics of respondents and non-respondents to a mailed questionnaire. *Am J Public Health* 1980; 70:823-5.
37. Belanger C, Speizer FE, Hennekens CH, Rosner B, Willett W, Bain C. The Nurses' Health Study: current findings. *Am J Nurs* 1980; 80:1333?
38. Bain C, Speizer, FE, Rosner B, Belanger C, Hennekens CH. Family history of breast cancer as a risk indicator for the disease. *Am J Epidemiol* 1980; 111:301-8.
39. Hennekens CH, Lown B, Rosner B, Grufferman S, Dalen J. Ventricular premature beats and coronary risk factors. *Am J Epidemiol* 1980; 112:93-9.
40. Levine RS, Hennekens CH, Duncan RC, Robertson E, Cassady J, Gourley J, Gelband H. Blood pressure in infant twins: Birth to 6 months of age. *Hypertension* 1980; 1:29-33.
41. Rosenberg L, Hennekens CH, Rosner B, Belanger C, Rothman KJ, Speizer FE. Oral contraceptive use in relation to nonfatal myocardial infarction. *Am J Epidemiol* 1980; 111:59-66.
42. Hennekens CH, Levine RS, Rosner B, Klein BE, Gourley JE, Gelband H, Jesse MJ. Aggregation of cholesterol among young families of men with premature myocardial infarction. *J Chron Dis* 1980; 33:359-64.
43. Evans DA, Willett W, Hennekens CH. Moderate alcohol drinking and coronary heart disease. *Am Heart J* 1980; 100:584-6.
44. Casscells W, Hennekens CH, Evans D, Rosner B, DeSilva RA, Lown B, Davies JE, Jesse MJ. Retirement and coronary mortality. *Lancet* 1980; I: 1288-89.
45. Willett W, Hennekens CH, Siegel AJ, Adner M, Castelli WP. Alcohol and high density lipoprotein (HDL) cholesterol among marathon runners. *N Engl J Med* 1980; 303:1159-61.
46. Willett WC, Bain C, Hennekens CH, Rosner B, Speizer FE. Oral contraceptives and risk of ovarian cancer. *Cancer* 1981; 48:1684-7.
47. DeSilva RA, Hennekens CH, Lown B, Casscells W. Lignocaine prophylaxis in acute myocardial infarction: an evaluation of randomized trials. *Lancet* 1981; 1:855-8.
48. Bain C, Willett W, Rosner B, Speizer FE, Belanger C, Hennekens CH. Early age at first birth and decreased risk of breast cancer. *Am J Epidemiol* 1981; 114:705-9.
49. Levine RS, Hennekens CH, Rosner B, Gourley J, Gelband H, Jesse MJ. Cardiovascular risk factors among children of men with premature myocardial infarction. *Public Health Rep* 1981; 96:58-60.
50. Levine RS, Hennekens CH, Duncan RC, Robertson EG, Gourley JB, Cassady JC, Gelband H. Blood pressure in infant twins - birth to one year of age. In: Onesti G, Kim KE (eds). *Phasic Pressor Mechanisms: Hypertension in the Young and Old*. New York: Grune & Stratton, 1981: 131-8.
51. Hennekens CH, Davies JE, Levine RS, Briese FW, Nordwall CW. Trends of lung cancer in Northern Florida. *South Med J* 1981; 74:566-8.

52. Willett W, Sampson L, Bain C, Rosner B, Hennekens CH, Witschie J, Speizer FE. Vitamin supplements use among registered nurses. *Am J Clin Nutr* 1981; 34:1121-5.
53. Rosenberg L, Hennekens CH, Rosner B, Belanger C, Rothman KJ, Speizer FE. Early menopause and the risk of myocardial infarction. *Am J Obstet Gynecol* 1981; 139:47-51.
54. Bain C, Willett W, Hennekens CH, Rosner B, Belanger C, Speizer FE. Use of postmenopausal hormones and risk of myocardial infarction. *Circulation* 1981; 64:42-6.
55. Evans DA, Kass EH, Hennekens CH, Rosner B, Miao L, Kendrick MI, Miall WE, Stuart KL. Bacteriuria and subsequent mortality in women. *Lancet* 1982; 1:156-8.
56. Willett WC, Hennekens CH, Bain C, Rosner B, Speizer FE. Cigarette smoking and non-fatal myocardial infarction in women. *Am J Epidemiol* 1981; 113:575-82.
57. Bain C, Hennekens CH, Speizer FE, Rosner B, Willett W, Belanger C. Oral contraceptive use and malignant melanoma. *JNCI* 1982; 68:537-9.
58. Stampfer MJ, Goldhaber SZ, Yusuf S, Peto R, Hennekens CH. The effect of intravenous streptokinase on acute myocardial infarction: pooled results from randomized trials. *N Engl J Med* 1982; 307:1180-2.
59. Goldhaber SZ, Hennekens CH, Markisz JA, McNeil BJ, Glynn MA, Bettmann MA, Schur PH. Low sensitivity of plasma DNA in screening for pulmonary embolism. *Am Rev Respir Dis* 1982; 126:360-1.
60. Levine RS, Hennekens CH, Perry A, Cassady J, Gelband H, Jesse MJ. Genetic variance of blood pressure levels in infant twins. *Am J Epidemiol* 1982; 116:759-64.
61. Hennekens CH, Lipnick RJ, Mayrent SL, Willett W. Vitamin A and risk of cancer. *J Nutr Ed* 1982; 14:135-6.
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(F) Fibrinolytic Trialists Collaboration (Collaborator)

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(G) Sorbinil Retinopathy Trial (Principal Investigator of Coordinating Center)

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987. Berglass M, Goldman S, Maki DG, Hennekens CH, Wood SK Mental health and gun violence in the United States, Australia and the United Kingdom: Clinical and public health challenges. 2024, *AJM*, published online ahead of print in January
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996. Wittes J, DeMets DL, Kim, K, Maki DG, Pfeffer MA, Gaziano JM, Kitsantas P, Hennekens CH, Wood SK. Aspirin in primary prevention: Undue reliance on an uninformative trial led to misinformed clinical guidelines. *Clin Trials*, The Official Journal of the Society for Clinical Trials, 2025, published online ahead of print April 1
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- 1000.Dunn J, Hennekens CH. LDL and beyond in the treatment and prevention of cardiovascular disease. TCM, 2025, published online ahead of print on August 1.
- 1001.Dunn J, Perumareddi P, Hennekens CH: The case to clinicians for therapeutic lifestyle changes to prevent age related cognitive decline. 2025, AJM, published online ahead of print on September 8
- 1002.Hennekens CH. Foreward to The Preventioners by Davis BR, 2026, in press.

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1003. Matarazzo A, Molle A, Hennekens CH. Dupilumab for bullous pemphigoid: To treat or not to treat? Cutis, 2025, submitted
- 1004.Sacca L, Andric B, Levine RS, Mejia MC, Hennekens CH. Clinical and public health challenges from trends in opioid deaths in Palm Beach County, Florida. SMJ, 2025, in preparation
- 1005.Bourdage K, Clayton L, Ferris A, Hennekens CH. Increasing clinical and public health challenges in the southern United States:Prevention of dehydration. SMJ, 2025, in preparation
- 1006.Crump E. Goldman S, Hennekens CH: Treatment of homeless patients with aripiprazole will lead to clinical improvements: an hypothesis formulated but not tested. Med Hyp, 2025 in preparation
- 1007.Feinblum H, Hennekens CH, Maki DG. Clinical and public health challenges in achieving antimicrobial stewardship in outpatient settings, JAMA, 2025, in preparation
- 1008.Dunn J, Willett Y, Kitsantas P, Hennekens CH. Advice for clinicians about use of aspirin or clopidogrel in secondary prevention, 2025, in preparation

Textbooks

1009. Hennekens CH, Buring JE. Epidemiology in Medicine. Boston: Little, Brown and Company, Lippincott, Wolters Kluwer 1987.
- 1010.Manson JE, Ridker PM, Gaziano JM, Hennekens CH (eds). Prevention of Myocardial Infarction: New York, Oxford University Press, 1996.
- 1011.Hennekens CH (ed.), Buring JE, Ridker PM, Manson JE (section eds.). Clinical Trials in Cardiovascular Disease: A Companion to Braunwald’s Heart Disease. Phila: WB Saunders Co.1998.
- 1012.Kitsantas P, Mejia M, Hennekens CH. Edited by Seits G. Handbook of Epidemiology for all health professionals, 2026, Cognella, in press Kitsantas P, Caceres J, Price-Wise G, Hennekens CH. Edited by Seits G. Pocketbook and Manual of Physical Activity to Combat the “New Silent Killer:” 2025. Amazon, published online on June 29

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.
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Florida Atlantic University
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Boca Raton, Florida 33431
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Email: holland@health.fau.edu

Current Titles and Affiliates

Professor of Psychiatry Florida Atlantic Univ	2025-Present
I Health-Florida Atlantic University Clinical Research Professor Human Health and Dementia Research Focus Group	2021 - Present
Medical Director Clinical Research Unit Florida Atlantic University	2020 - Present
Clerkship Director-Psychiatry Florida Atlantic University Charles E. Schmidt College of Medicine	2011 - Present
National Faculty National Board of Osteopathic Medical Examiners	2018 - Present

Previous Academic Appointments

Associate Professor of Psychiatry Florida Atlantic University	2011 - 2025
Associate Professor of Integrated Medical Science Florida Atlantic University Charles E. Schmidt College of Medicine	2011 - 2023
Research Professor of Biomedical Science Clinical Assistant Professor of Biomedical Science Florida Atlantic University Boca Raton, Florida	2008 - 2014 2005 - 2008

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Clinical Assistant Professor of Biomedical Science	2005 - 2011
Clinical Instructor in Psychiatry	1983 - 1999
Florida Atlantic University	
Regional Campus of the Miller School of Medicine	
University of Miami	
Boca Raton, Florida	

Research Professor	2007 - 2008
Research Scientist	2004 - 2006
Christine E. Lynn College of Nursing	
Florida Atlantic University	
Boca Raton, Florida	

Courtesy Assistant Professor	1995 - 2008
College of Public Health	
University of South Florida	
Tampa, Florida	

Clinical Associate, Department of Psychiatry	1982
Clinical Associate, Department of Community and Family Medicine	1982
Duke University Medical Center	
Durham, North Carolina	

Previous Professional Appointments

Medical Director	2003
Radiant Research	
Boca Raton, Florida	

Medical Director	1998 - 2003
Boca Raton Medical Research	
Boca Raton, Florida	

Private Practice	1983 - 2003
Medical Director-Founder	
Boca Raton Psychiatric Group	
Delray Beach and Boca Raton, Florida	

Assistant Chief of Psychiatry	1993 - 1996
Boca Raton Community Hospital	
Boca Raton, Florida	

Psychiatric Consultant	1983 - 1996
IBM Corporation	
Boca Raton, Florida	

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Clinical Director, Quality Management Fair Oaks Hospital Delray Beach, Florida	1993 - 1995
Psychiatric Consultant Manor Care Nursing Homes Boynton Beach and Boca Raton, Florida	1984 - 1995
Board of Trustees University of Pavilion Hospital Tamarac, Florida	1990 - 1993
Director, Adult Unit University Pavilion Hospital Tamarac, Florida	1990 - 1993
ECT Program Coordinator University Pavilion Hospital Tamarac, Florida	1990 - 1992
President, Medical Staff University Pavilion Hospital Tamarac, Florida	1990 - 1991
Vice President, Medical Staff University Pavilion Hospital Tamarac, Florida	1989 - 1990
Physician Specialist IBM Corporation Boca Raton, Florida	1982 - 1983
Staff Physician IBM Corporation Raleigh, North Carolina	1981 - 1982
Medical Coverage – Student Health Service University of North Carolina Chapel Hill, North Carolina	1978 - 1981

Licensure and Certification

Distinguished Life Fellow, American Psychiatric Association	2013
Distinguished Fellow, American Psychiatric Association	1996

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Added Qualification in Geriatric Psychiatry American Board of Psychiatry and Neurology (re-certified 2001)	1992
Fellow, American College of Occupational and Environmental Medicine	1988
Diplomate, American Board of Psychiatry and Neurology	1983
Florida Board of Medical Examiners	1983
North Carolina Board of Medical Examiners	1978
Diplomate, National Board of Medical Examiners	1978

Education

Research Fellow in Psychiatry University of North Carolina Chapel Hill, North Carolina	1980 - 1981
Dorothea Dix Hospital Clinical Research Unit Raleigh, North Carolina	1980 - 1981
Resident in Psychiatry University of North Carolina Chapel Hill, North Carolina	1978 - 1981
Resident in Medicine and Psychiatry University of South Florida Tampa, Florida	1977 - 1978
M.D., College of Medicine University of South Florida Tampa, Florida	1977
B.A., University of South Florida Tampa, Florida	1975

Professional Honors

Distinguished Life Fellow, American Psychiatric Association	2013

Administrative Responsibilities

Board Member of the Consortium for Medical Marijuana Clinical Outcomes Research Board FAU representative	2022 - Present
Moderator-Southern Group on Educational Affairs-Orlando, Florida	March 2019
Chairperson Medical Student Promotion and Professional Standards Committee Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2017 - 2020 2011 - 2022
Member -Curriculum Integration and Program Evaluation Committee (CIPEC)	2011- Present
Academic Half-day Curriculum Revision Committee Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2018
Committee on Appointment and Promotions (CAP) Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2011 - 2016
Research Committee Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2012 - 2016
President's Threat Assessment and Crisis Management Team Florida Atlantic University Boca Raton, Florida	2013 - 2015
Chairperson Long Range Steering Committee-Research Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2011 - 2012
Member of the Admissions Committee Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2011

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Library Committee Charles E. Schmidt College of Medicine Florida Atlantic University Boca Raton, Florida	2011
Eugene M. and Christine E. Lynn Clinical Research Center Advisory Board Boca Raton Community Hospital Boca Raton, Florida	2000 - 2005
John W. Henry Center of Integrated Medical Advisory Board Boca Raton Community Hospital Boca Raton, Florida	1999 - 2001
Peer Review Committee Fair Oaks Hospital Delray Beach, Florida	1993 - 1995
Executive Committee Fair Oaks Hospital Delray Beach, Florida	1993 - 1995
Chairperson Journal Club Palm Beach County Psychiatric Society	1993 - 1994
Chairperson Credentials Committee University Pavilion Hospital Tamarac, Florida	1992 - 1993
Executive Committee University Pavilion Hospital Tamarac, Florida	1989 - 1993
Chairperson Pharmacy and Therapeutic Committee University Pavilion Hospital Tamarac, Florida	1989 - 1993
Executive Committee Pinecrest Rehabilitation Hospital Delray Beach, Florida	1985 - 1988
Subcommittee on Education of IBM Health Professionals IBM National Task Force on Medical Guidelines IBM Corporation Armonk, New York	1983

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

IBM National Medical Advisory Board Chairperson Subcommittee on Stress IBM Corporation Armonk, New York	1981 - 1983

Peer Review Committee North Carolina Neuropsychiatric Association	1979

Courses Taught at FAU

SOW 7129 – Psychopathology in Advanced Clinical Social Work Practice	2017 - Present

CRN30014 – Course Number MDC7830 Psychiatry Clerkship M3 Founding Course Director Developed the Curriculum and Didactic Lecture Series	2012 - Present

CRN10006-Course Number BMS6020 Neuroscience and Behavior M1 Developed the Curriculum and Lecture series	2012 - Present

Facilitated Problem Based Learning M1 Developed Curriculum Case (Psychiatric Case)	2012

Facilitated Problem Based Learning M1 Case Editor	2012 - Present

ISCU1430 Current Issues in Biomedicine Undergraduate Guest Lecture	2011 - Present

Professional Society Memberships

Geriatric Task Force	2017 - 2018
The Association of Directors of Medical Student Education in Psychiatry	2014 - Present

American Society of Clinical Psychopharmacology	2005 - Present

Fellow of American Psychiatric Association	1996 - Present

Palm Beach County Psychiatric Society	1983 - Present

Florida Psychiatric Society	1983 - Present

American Psychiatric Association	1976 - Present

Community Organizations

Mentor – Family Practice Residency Program University of Florida / North Broward Hospital District	2000
Board of Directors Ruth Rales Jewish Family Services Boca Raton, Florida	1994 - 2000
Member – Long Range Present Planning Committee Ruth Rales Jewish Family Services Boca Raton, Florida	1994 - 1999
Chairperson – Adult Services Committee Ruth Rales Jewish Family Services Boca Raton, Florida	1995 - 1997
Member – Agenda Committee Alzheimer's Association Palm Beach, Florida	1995 - 1997

Editorial Review Boards

Canadian Geriatrics Journal	2023 - Present
Gerontology and Geriatric Medicine	2019 - Present
MedEd Portal	2018 - Present
Journal Cardiology	2014 - Present
Primary Psychiatry	2003 - 2018
Journal of Behavioral Residential Treatment	1983 - 1996

Presentations: Continuing Medical Education

Over 75 Continuing Medical Education presentations in both academic and Industry-sponsored settings. Below is a partial list:

The 16 th Annual Practical Psychopharmacology Update 2007 Cambridge, Massachusetts	2007

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

The 16 th Annual Practical Psychopharmacology Update 2007 Las Vegas, Nevada	2007
REACH Redefining Approaches and Challenges in Managing Depression and Anxiety Disorders	2005
Exploring the Science of Sleep: The Pharmacodynamics of Sleep – Promoting Agents	2005
Improving Physical and Mental Outcomes: How Anxiety Impacts Comorbid Conditions a Psychiatrist’s Perspective	2005

Presentations: International

- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Effect of Memantine on the Progression of Driving Impairment in Patients with Mild Alzheimer’s Disease. Poster session presented at: Dementia: Working Together For A Global Solution. 29th International Conference of Alzheimer’s Disease International (ADI 2014); 2014 May 1-4; San Juan, Puerto Rico.
- Holland, P.J., Tappen, R.M., Fisher, L.J., Curtis, A.L. , Apter, J. Effect of Memantine on the Progression of Driving Impairment in Mild Alzheimer’s Disease. Poster session presented at: Alzheimer’s Disease CtaD 2013.6th Clinical Trials Conference on Alzheimer’s Disease; 2013 Nov. 14-16; San Diego, California.
- Holland, P.J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer’s Disease. Poster session presented at: Recognizing Unmet Needs in Psychopharmacology: From Biomarkers to Breakthrough Therapies. 53rd Annual New Clinical Drug Evaluation Unit Conference; 2013 May 28-31; Hollywood, Florida.
- Holland, P.J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer’s Disease. Poster session presented at: Mechanisms, Clinical Strategies, and Promising Treatments Neurodegenerative Diseases. 11th International Conference on Alzheimer’s and Parkinson’s Diseases (AD/PD 2013); 2013 March 6-10; Florence, Italy.
- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer’s Disease. Poster session presented at: Alzheimer’s Association 2011 International Conference on Alzheimer’s disease (ICAD); 2011 July 16-21; Paris, France.
- Holland, P.J., Dunlop, B., Pedersen, R., Li, L., Ahmed, S., Ninan, P., Keller, M. Venlafaxine Extended Release Leads to Recovery in Patients With Recurrent Major Depressive Disorder. Poster session presented at: New Research Approaches for Mental Health Interventions. 48th Annual New Clinical Drug Evaluation Unit Meeting; 2008 May 27-30; Phoenix, Arizona.
- Rothschild, A., Boadie, D., Dunner, D. et al. Assessing Tachyphylaxis During the Prevention of Recurrent Episodes of Depression With Venlafaxine XR for Two Years (PREVENT) Study. Poster session presented at: 47th Annual New Clinical Drug Evaluation Unit Meeting; 2007 June 11-14; Boca Raton, Florida.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

- Holland, P.J., Time-Course of Improvement and Quality of Response to Sertraline in Clinical Dimensions of Panic Disorder. Poster session presented at: XXIII Annual Conference Anxiety Disorders Association of America; 2003 March 27-30; Toronto, Canada.
- Holland, P.J., Remeronsoftab (Mirtazapine Orally Disintegrating Tablets) In Patients Who are at Least 50 years of Age. Poster session presented at: XXIII CINP Congress; 2002 June 23-27; Montreal, Canada.
- Holland, P.J., Effectiveness of Sertraline in Long-Term Treatment of Panic Disorder: Treatment Response, Quality of Life, and Sexual Functioning. Poster session presented at: World Congress of Biological Psychiatry; July 2001; Berlin, Germany.

Presentations: National

- Holland PJ, Sherling DH, Goldstein M, Foster JG., Wood SK. "Decreasing Anxiety and Improving Advanced Interview Skills in Students Transitioning into their Clerkships through a Psychiatric Simulation Exercise. "Oral Presentation, 2019 Southern Group on Educational Affairs-Orlando, FL.
- Katherine Freeman, DrPH, Peter J. Holland, M.D., Ruth M. Tappen, EdD Methodologic considerations in prolonging safe driving in mild Alzheimer's disease. American Geriatrics Society Meeting 2018 Annual Scientific Meeting, Orlando Florida, May 3-5, 2018
- Holland, P.J., Dunlop, B., Pedersen, R., Li, L., Ahmed, S., Ninan, P., Keller, M. Venlafaxine Extended Release Leads to Recovery in Patients With Recurrent Major Depressive Disorder. Poster session presented at: U.S. Psychiatric and Mental Health Congress; 2008 Oct.30-Nov 2; San Diego, California.
- Kornstein, S., Tahmina, F., Holland. P., et al., Influence of Gender and Menopausal Status on Response and Remission in Patients with Recurrent Depressive Disorder Treated with Venlafaxine XR or Fluoxetine. Poster session presented at: Addressing Patient Needs Access, Parity, and Humane Care. 160th American Psychiatric Association Annual meeting; 2007 May 19-24; San Diego, California.
- Ninan, P., Dunlop, B. W., Friedman, E.S., Gelenberg, A., Holland, P. J., Kornstein, S. G., et al. Anxiety in Patients with recurrent major depressive disorder: prevalence and impact on treatment outcomes. Poster session presented at: 20th Annual USPMH Congress; 2007 October 11-14; Orlando, Florida.
- Holland, P. J. Fluvoxamine Compared with Fluoxetine in Major Depression. Poster session presented at: Encompassing Diversity Demanding Equality. 148th American Psychiatric Association; 1995 May 20-25; Miami Beach, Florida.
- Holland, P. J., Psychopharmacology Update. Poster Presented at: Frontiers In Medicine, USF College of Medicine Alumni Weekend: 1994 October 1; Orlando, Florida.
- Holland, P. J., Rea, W., Berg, B., Psychiatric Aspect of Occupational Medicine Poster session presented at: Psychiatry and Psychopharmacology American Occupational Health Conference. American College of Occupational and Environmental Medicine; 1991 April 29; San Francisco, California.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Holland, P. J., Managing Stress in an Occupational Setting. Poster session presented at: American Occupational Medicine Association Annual Meeting; 1985 April; Kansas City, Missouri.

Holland, P. J., Raft, D., Mailman, R.B., Lithium Treatment of Steroid Induced Mania in a Patient With Addison's Disease. Poster session presented at: American College of Clinical Pharmacology Meeting; 1983, April 29; Washington, D.C.

Holland, P. J., Turpin, J.W., Hollister, W.G., Occupational Psychiatry: Managing Stress Reaction Cases. Poster session presented at: Grand Rounds - University of North Carolina, Chapel Hill, North Carolina, November 4, 1982.

Holland, P. J., Evaluation and Management of the Problem Employee/Patient. Poster session presented at: Grand Rounds -Occupational Medicine - Duke University Medical Center, Durham, North Carolina, January 26, 1982.

Paper Presentations: International

Holland, P.J., and Holland, D. Psychopharmacology in the U.S.: an Update on Antidepressants in psychosomatic disorders. 12th World Congress of Psychosomatic Medicine; 1993 Aug.29-Sep.2; Bern, Switzerland.

Seminar Director

Seminar Director, "Update in Psychiatry and Psychopharmacology." American Occupational Health Conference, Orlando, Florida, May, 1997.

Seminar Director," Update in Psychiatry and Psychopharmacology." American Occupational Health Conference, Las Vegas, Nevada May, 1995.

Seminar Director, "Managing the Violent Employee." American Occupational Health Conference, Chicago, Illinois, April 18, 1994.

Seminar Director, Psychiatry/Psychopharmacology Update. Annual Meeting American College of Occupational and Environmental Medicine, Atlanta, Georgia, April 27, 1993.

Grants

Co-principle Clinical Investigator 2024-Present
Medical Cannabis Use among Pregnant and non-Pregnant Women of Reproductive Age-State of Florida
Competitive Grant-Consortium for Medical Marijuana Clinical Outcomes Research

Opioid Epidemic Response: Engage, Educate, and Empower. 2019 - 2020
Department of Children and Families: Florida State Opioid Response Project Medical School Curriculum
Development and Implementation Grant

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Co-principal Clinical Investigator 2022 - Present
Microbiome in aging Gut and Brain (MiaGB) Study Project Title: USF - Role of Microbiome in Aging of Gut and Brain in Floridian Older Adults

Clinical Research: Investigator Initiated

Principal Clinical Investigator 2007
Forest Pharmaceuticals, Inc. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer's Disease

Clinical Research: Sponsored Research Double-Blind, Placebo-Controlled Unless Specified

Co-principal Clinical Investigator 2022 - Present
Microbiome in aging Gut and Brain (MiaGB) Study Project Title: USF - Role of Microbiome in Aging of Gut and Brain in Floridian Older Adults

Principal Clinical Investigator 2014
Merck Sharp & Dohme Corp. MK-7622-012. A seamless Phase IIa/IIb, Multicenter, Randomized, Doubled-Blind, Placebo Controlled, Parallel Group Trial to Evaluate the Efficacy and Safety of MK-7622 as an Adjunctive Therapy to Donepezil for Symptomatic Treatment in Subjects with Alzheimer's Disease

Principal Clinical Investigator 2013
Eli Lilly and Co. H8A-MC-LZAX. Effect of Passive Immunization on the Progression of Mild Alzheimer's Disease: Solanezumab (LY2062430) Versus Placebo.

Principal Clinical Investigator 2013
Genentech, Inc. GN28525. A Multicenter, Open-label, Long-term Safety Extension of phase II Studies ABE4869g and ABE4955g in Patients with Mild to Moderate Alzheimer's disease.

Principal Clinical Investigator 2013
Eisai, Inc. BAN2401-G000-201. A Placebo controlled, Double-Blind, Parallel-Group, Bayesian Adaptive Randomization Design and Does Regimen-finding study to evaluate safety, tolerability and efficacy of BAN2401 in subjects with early Alzheimer's Disease.

Principal Clinical Investigator 2013
Biogen Idec MA, Inc., 221AD103. A randomized, double-blind, placebo-controlled multiple dose study to assess the safety, tolerability, pharmacokinetics and pharmacodynamics of BIIB037 in subjects with Prodromal Mild Alzheimer's Disease (AD).

Principal Clinical Investigator 2012
Baxter Healthcare Corp, 161003. Phase 3. A randomized, double-blind, placebo-controlled study of the safety and effectiveness of Immune Globulin Intravenous (Human), 10% Solution (IGIV, 10%) for the treatment of mild to moderate Alzheimer's disease (AD).

Principal Clinical Investigator 2011

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Takeda Global Research & Development Center, Inc. Lu AA21004_318. A Randomized, Double-Blind, Parallel-Group, Active-Controlled, Flexible-Dose Study Evaluating the Effect of Lu AA21004 vs. Escitalopram on Sexual Functioning in Adults With Well-Treated Major Depressive Disorder Experiencing Selective Serotonin Reuptake Inhibitor Induced Sexual Dysfunction.

Principal Clinical Investigator 2011
Genentech, Inc. ABE4869g A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter, Phase II Study to Evaluate the Efficacy and Safety of MABT5102A in Patients with Mild to Moderate Alzheimer's disease.

Principal Clinical Investigator 2011
Eli Lilly and Co. H8A-MC-LZAO. Continued Efficacy and Safety Monitoring of Solanezumab, an Anti-Amyloid Beta Antibody in Patients with Alzheimer's disease.

Principal Clinical Investigator 2010
Novartis Pharmaceuticals Co. CENA713DUS44.
A 24 Week Open-Label Extension to the Study CENA713DUS44: A 24 Week, Prospective, Randomized, Parallel-Group, Double-Blind, Multi-Center Study Comparing the Effects of Rivastigmine Patch 15 cm² vs. Rivastigmine Patch 5 cm² on Activities of Daily Living and Cognition in Patients with Severe Dementia of the Alzheimer's Type (ACTION).

Principal Clinical Investigator 2010
Forest Research Institute. LVM-MD-04. A Long-Term, Open-label Extension Study of F2695 SR in Adult Patients with Major Depressive Disorder.

Principal Clinical Investigator 2010
Forest Research Institute. LVM-MD-03. A Double-blind, Placebo-Controlled, Flexible-Dose Study of F2695 SR in Patients with Major Depressive Disorder.

Principal Clinical Investigator 2010
Eli Lilly and Co. H8A-MC-LZAM. Effect of LY2062430, an Anti-Amyloid Beta Monoclonal Antibody, on the Progression of Alzheimer's Disease as Compared with Placebo.

Principal Clinical Investigator 2010
Novartis Pharmaceuticals Co. CENA713DUS44. A 24 Week, Prospective, Randomized, Parallel-Group, Double-Blind, Multi-Center Study Comparing the Effects of Rivastigmine Patch 15 cm² vs. Rivastigmine Patch 5 cm² on Activities of Daily Living and Cognition in Patients with Severe Dementia of the Alzheimer's Type.

Principal Clinical Investigator 2009
Endo Pharmaceutical Solutions, Inc. IP456-041. A 3 Arm, Double-Blind, Placebo-Controlled Clinical Trial to Assess the Efficacy, Safety and Tolerability of Pagoclone for the Treatment of Adults with Stuttering.

Principal Clinical Investigator 2008
Eli Lilly and Co. H6L-MC-LFBC (a). Effect of LY450139 A Gamma Secretase Inhibitor on the Progression of Alzheimer's Disease as Compared to Placebo.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

- Principal Clinical Investigator 2008
Eli Lilly and Co. B4Z-MC-LYDO. Maintenance of Response After Open-Label Treatment with Atomoxetine Hydrochloride in Adult Outpatients with Attention-Deficit/Hyperactivity Disorder (ADHD): Placebo-Controlled, Randomized Withdrawal Study.
- Principal Clinical Investigator 2008
Pfizer, Inc. A5361018. A Phase 3, Randomized, Double-Blind, Parallel Group, 10-Week, Placebo Controlled Fixed Dose Study of PD 0332334 and Paroxetine Evaluating the Efficacy and Safety of PD 0332334 for the Treatment of Generalized Anxiety Disorder.
- Principal Clinical Investigator 2007
Novartis Pharmaceuticals Co. CENA 713D2340. 48 week randomized, double-blind, parallel group evaluation of the comparative efficacy, safety, and tolerability of Exelon Patch in patients with Alzheimer's disease.
- Principal Clinical Investigator 2007
Novartis Pharmaceuticals Co. CAGO178A2303. An 8-week, multicenter, randomized, double-blind, placebo- and paroxetine- controlled study of the efficacy, safety and tolerability of agomelatine 25 or 50 mg given once daily in the treatment of Major Depressive Disorder (MDD) followed by a 52-week open-label treatment with agomelatine 25 or 50 mg.
- Principal Clinical Investigator 2006
Cyberonics, Inc. Treatment Resistant Depression Registry. A Long-Term Observational, Multi-Center Patient Outcome Registry to Collect Data in Patients with Treatment-Resistant Depression.
- Principal Clinical Investigator 2005
Pfizer, Inc. A5381007. A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, 5-Week Trial to Assess The Efficacy and Safety of PD 0332334 Compared to Placebo and Alprazolam Extended-Release in Patients With Generalized Anxiety Disorder.
- Principal Clinical Investigator 2004
DOV Pharmaceuticals 547-011. A 28-Day, Multi-Center, Randomized, Placebo-Controlled, Double-Blind, Safety and Efficacy Study of Ocinaplon in Patients with Generalized Anxiety Disorder.
- Principal Clinical Investigator 2003
Eli Lilly and Co. LYBN. Atomoxetine Augmentation of SSRIs in Major Depression.
- Principal Clinical Investigator 2002
Forest Laboratories, Inc. CT-MD-11. Escitalopram in recurrent depression.
- Principal Clinical Investigator 2002
Cephalon, Inc. 1538a/413/DP/US. Modafinil Adjunctive Treatment for Excessive Sleepiness in Adults with Major Depressive Disorder.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Principal Clinical Investigator Eli Lilly and Co. H7C-LMBC. LY544344 Versus Placebo in Patients with Generalized Anxiety Disorder who have responded to treatment with LY544344.	2002
Principal Clinical Investigator Merck & Co, Inc. 068-00. Long-Term Efficacy of MK-0869 in the Maintenance of Antidepressant Effect in Geriatric Outpatients with Major Depressive Disorder.	2002
Principal Clinical Investigator Sepracor, Inc. 190-047. Esopiclone in Elderly Subjects with Primary Insomnia	2001
Principal Clinical Investigator Merck & Co, Inc. 059-00. MK-0869 in the Treatment of Major Depressive Disorder With Melancholic Features.	2001
Principal Clinical Investigator Forest Laboratories, Inc. MEM-MD-01. Memantine in Patients with Moderate to Severe Dementia of the Alzheimer's Type.	2001
Principal Clinical Investigator Forest Laboratories, Inc. SCT-MD-21. Escitalopram and Fluoxetine in the Treatment of Fluoxetine Nonresponders.	2001
Principal Clinical Investigator Forest Laboratories, Inc. SCT-MD-19. An Open-Label Extension Study of the Safety and Efficacy of Escitalopram in Patients with Major Depressive Disorder.	2001
Principal Clinical Investigator Numico. 4.208. Efficacy of Migraine Formula as prophylactic for Migraine	2001
Principal Clinical Investigator Wyeth-Ayerst Research. 0600B-100469. Venlafaxine ER and Fluoxetine in achieving and sustaining remission in patients with recurrent unipolar major depression; followed by a long-term randomized, placebo-controlled maintenance treatment study in patients treated initially with Venlafaxine ER.	2001
Principal Clinical Investigator Numico. NU-2000-03. Cognitive Benefits of Huperzine A and Huperzine A-upgrade in Subject with AGE RELATED COGNITIVE DECLINE.	2001
Principal Clinical Investigator Organon. 134-006. ORG 33062 ER and Paroxetine in Subjects who Suffer from Major Depressive Disorder with Atypical Features.	2001
Principal Clinical Investigator	2001

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Organon. 134-503. Major Depressive Disorder with Atypical Features who participated in the Placebo- and Paroxetine-Controlled Study of ORG 33062 ER (134006).

Principal Clinical Investigator 2000
Pfizer, Inc. A1651007 Extension of Protocol A1651002: Efficacy of Oral CP-122, 721 in Outpatients with Major Depressive Disorder.

Principal Clinical Investigator 2000
Pharmacia & Upjohn. 50ECNS0323-001. Pharmacogenomics Blood Sampling

Principal Clinical Investigator 2000
Pharmacia & Upjohn. M/2020/0047. Reboxetine and Paroxetine comparison in patients with Major Depressive Disorder.

Principal Clinical Investigator 2000
Pfizer, Inc. A1651002. Phase IIB Oral CP-122,721 in Outpatients with Major Depressive Disorder.

Principal Clinical Investigator 2000
Forest Laboratories, Inc. SCT-MD-11. Open-Label Treatment of Recurrent Depression with Citalopram, Fluoxetine, Paroxetine and Sertraline.

Principal Clinical Investigator 2000
Forest Laboratories, Inc. SCT-MD-17. Open-Label Extension Study of the Safety and Efficacy of Lu 26-054 in Patients with Generalized Anxiety Disorder.

Principal Clinical Investigator 2000
Forest Laboratories, Inc. SCT-MD-05. Lu-26-054 in the Treatment of Generalized Anxiety Disorder.

Principal Clinical Investigator 2000
Wyeth-Ayerst Research.0600-B4-393-Venlafaxine ER in adult outpatients with Generalized Anxiety Disorder.

Principal Clinical Investigator 2000
SmithKline Beecham Pharmaceuticals. 29060/689. Paroxetine CR continuous treatment for Premenstrual Dysphoric Disorder.

Principal Clinical Investigator 2000
Eli Lilly and Co. F1J-MC-HMAT. Duloxetine versus placebo and paroxetine in the acute treatment of Major Depression.

Principal Clinical Investigator 1999
Pfizer, Inc. 165-401. Follow-up interview study of subjects who participated in protocol 165-112.

Principal Clinical Investigator 1999
Forest Laboratories, Inc. SCT-MD-01. LU 26-054 and Citalopram in Major Depression.

Principal Clinical Investigator 1999

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Forest Laboratories, Inc. SCT-MD-03. Lu 26-054 in the Prevention of Depression Relapse.

Principal Clinical Investigator 1999
Forest Laboratories, Inc. SCT-MD-04. Lu-26-054, citalopram, and placebo in the treatment of Panic Disorder.

Principal Clinical Investigator 1999
Wyeth-Ayerst Laboratories. 0600B1-915. Venlafaxine extended release in serotonin-selective reuptake inhibitor (SSRI)-failure patients with Major Depression.

Principal Clinical Investigator 1999
Parke-Davis Pharmaceutical Research. 1008-085-405. A placebo-controlled study of pregabalin in patients with Generalized Anxiety Disorder

Principal Clinical Investigator 1999
Parke-Davis Pharmaceutical Research. 1008-084-405 An open-label safety study of pregabalin (CI-1008) in patients with Anxiety Disorders.

Principal Clinical Investigator 1999
SmithKline Beecham. 29060/651. Paroxetine and placebo in patients suffering from Posttraumatic Stress Disorder (PTSD).

Principal Clinical Investigator 1999
Merck & Co., Inc. 011-02. Dose-finding acute and extension study of L-759274 versus paroxetine hydrochloride and placebo in the treatment of outpatients with Major Depressive Disorder.

Principal Clinical Investigator 1998
SmithKline Beecham. 29060-642. Paroxetine in patients with Generalized Anxiety Disorder.

Principal Clinical Investigator 1998
Eli Lilly & Co. B1Y-MC-HCJB. Fluoxetine versus placebo in Panic Disorder.

Principal Clinical Investigator 1998
Pfizer, Inc. 165-112. Fluoxetine and CP-122,721 in outpatients with Major Depressive Disorder.

Principal Clinical Investigator 1998
Merck and Co., Inc. 011-01. A double-blind, multicenter, dose-finding acute and extension study of L-759,274 vs. paroxetine hydrochloride and placebo in the treatment of outpatients with Major Depressive Disorder.

Principal Clinical Investigator 1997
Pfizer, Inc. R-0552. Sertraline in the treatment of elderly outpatients with major depression.

Principal Clinical Investigator 1997
Pfizer, Inc. R-0493. Sertraline and placebo in patients with Premenstrual Dysphoric Disorder.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

- Principal Clinical Investigator 1997
Glaxo-Wellcome. SCAA2010 (105-603). A multicenter double-blind, placebo-controlled, flexible dose evaluation of the safety and efficacy of Lamictal (lamotrigine) in the treatment of a major depressive episode in patients with Bipolar Disorder.
- Principal Clinical Investigator 1997
Bristol-Myers Squibb. CN101-094. A double-blind, random trial of three fixed doses of transdermal bupirone compared to placebo in the treatment of anxious outpatients.
- Principal Clinical Investigator 1996
SmithKline Beecham. 29060/497. A double-blind, placebo-controlled, flexible dose trial to evaluate the efficacy of modified release paroxetine in the treatment of Panic Disorder.
- Principal Clinical Investigator 1996
Parke-Davis Pharmaceutical Research. 979-15. A 52-week, randomized, double-blind, placebo-controlled, parallel group, multicenter study of milameline in patients with probable Alzheimer's disease – with long-term open label extension.
- Principal Clinical Investigator 1996
Zeneca Pharmaceuticals. 5077IL/0030. The pharmacokinetics, tolerability and safety of Seroquel when co-administered with fluoxetine or imipramine in subjects with selected psychotic disorders.
- Principal Clinical Investigator 1995
Abbott Labs. No. M93-111. A cost effectiveness study of Depakote vs. Lithium in the treatment of Bipolar Disorder.
- Principal Clinical Investigator 1995
Pfizer, Inc. 93CE21-0646. Double Blind, Flexible Dose Parallel Comparison of placebo and Sertraline in outpatients with Panic Disorder.
- Principal Clinical Investigator 1994
Eli Lilly Co. FID-MC-HGAO. A multicenter double-blind study to evaluate safety & efficacy of Olanzapine vs. placebo in patients with psychosis associated with dementia.
- Principal Clinical Investigator 1994
Forest Labs. 1028. Physostigmine in the treatment of patients with Alzheimer's.
- Principal Clinical Investigator 1994
Bristol-Myers Squibb. CN 104-127A. Serzone in the management of patients with symptoms of depression in general psychiatric practices.
- Principal Clinical Investigator 1994
Cephalon, Inc. CEP-2401 & CEP-2401E. Modafinil in patients with narcolepsy, followed by a ten month, open label, flexible dose continuation study.

- Principal Clinical Investigator 1993
Burroughs Wellcome Co. 208-024. Bupropion hydrochloride sustained release (Wellbutrin-SR) - Safety surveillance study for Wellbutrin SR.
- Principal Clinical Investigator 1993
Solvay Pharmaceuticals. 114.8.03. Fluvoxamine in the treatment of depression
- Principal Clinical Investigator 1992
Smith Kline Beecham. 198 Paroxetine in the treatment of Depression in a clinical practice setting
- Principal Clinical Investigator 1992
Burroughs Wellcome Company. Bupropion HCL (Wellbutrin) -Clinical 95. A multicenter single-blind study to evaluate bupropion (Wellbutrin) in depressed elderly out-patients who failed to tolerate or respond to fluoxetine.
- Principal Clinical Investigator 1991
Bristol-Myers Squibb. Nefazodone Study - Clinical CN 104-056-006. A multicenter double-blind placebo controlled study evaluating efficacy and safety in geriatric patients.
- Principal Clinical Investigator 1988
The Boots Company. BPI1003 Open Label treatment of Depression with Dothiepin.
- Principal Clinical Investigator 1988
Burroughs Wellcome Company. 86A An open uncontrolled multicenter evaluation determining the incidence of seizure in patients treated with Wellbutrin.

Publications: Peer Reviewed Articles

GeroScience
<https://doi.org/10.1007/s11357-025-01641-6>

REVIEW

The selection of participants for interventional microbiota trials involving cognitively impaired older adults

Adam Golden · Cynthia Williams  · Hariom Yadav ·
Michal M. Masternak · Corinne Labyak · Peter J. Holland ·
Andrea Y. Arikawa · Shalini Jain

- Chaudhari DS, Jain S, Yata VK, Mishra AP, Kumar A, Fraser A, Kociolek J, Dangiolo M, Smith A, Golden A, Masternak MM, Holland P, Agronin M, Williams CW, Arikawa AY, Labyak CA, Yadav H*. Unique trans-kingdom microbiome and multi-omics signatures predict cognitive decline in older adults. *Geroscience* 2023. doi: 10.1007/s11357-023-00799-1.
- Holland, P.J., Tappen, R, Newman, D, Freeman-Costin, (2021): Effect of Memantine on Prolonging Safe Driving in Early A.D.: a Pilot Study, *Canadian Geriatrics Journal* (24) 4, <https://doi.org/10.5770/cgj.24.540>
- J. A. Krooks, A. G. Weatherall & P. J. Holland (2017): Review of epidemiology, clinical presentation, diagnosis, and treatment of common primary psychiatric causes of cutaneous disease, *Journal of Dermatological Treatment*, DOI: 10.1080/09546634.2017.1395389. To link to this article: <https://doi.org/10.1080/09546634.2017.1395389>
- Kornstein S.G., Pederson R.D., Holland P.J., Nemeroff C.B., Rothschild A.J., Thase M.E., Trivedi M.H., Ninan P., and Keller M.B. (2014) Influence of gender and menopausal status on response, remission, and recurrence in patients with recurrent major depressive disorder treated with venlafaxine ER or fluoxetine: Analysis of data from the PREVENT study. *Journal of Clinical Psychiatry*, 75(1), 62-68.
- Dunlop B.W., Holland P.J., Bao, W., Ninan P.T., Keller, M.B. (2012) Recovery and Subsequent Recurrence in Patients with Recurrent Major Depressive Disorder. *Journal of Psychiatric Research*; 46(6):708-15. Epub 2012 Apr 2.
- Rothschild A., Dunlop B., Dunner D., Friedman E., Gelenberg A., Holland P., Kocsis J., Kornstein S., Shelton R., Trivedi M., Zajecka J., Goldstein C., Thase M., Pederson R., and Keller M.(2009) Assessing the Rates and Predictors of Tachyphylaxis During the Prevention of Recurrent Episodes of Depression with Venlafaxine ER for Two Years (PREVENT) Study. *Psychopharmacology Bulletin*. 42(3): 5-20.
- Shikh, J., Cassidy, E., Doraiswamy, P., Salomon, R., Hornig, M., Holland, P., Mandel, F., Clary, C., and Burt, T. (2004) Efficacy, Safety, and Tolerability of Sertraline in Patients with Late-Life Depression and Comorbid Medical Illness. *Journal of the American Geriatric Society*. 52:86-92.
- Llorente, M.D., Holland, P.J., ECT (1996) in a Geriatric Depressed Woman with Bilateral Frontal Lobotomy. *Convulsive Therapy*. 12 (1) 36-40.
- Rapaport, M., Coccaro, E., Sheline, Y., Perre, T., Holland, P., Fagre, L., Bradford, D., (1996) A Comparison of Fluvoxamine and Fluoxetine in the Treatment of Major Depression. *Journal of Clinical Psychopharm.* (5) 373-378.
- Powers, P.S., Holland, P.J., Miller, C., Powers H.P. (1982) Salivation Patterns of Obese and Normal Subjects. *International Journal of Obesity* 267-270.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

- Powers, P.S., Holland, P.J., Miller, C., Powers, H.P., (1982) Transswitching in the Treatment of Obesity, International Journal of Obesity, 6, 271-278.
- Holland, P.J. (1981). Lithium Capsule. American Family Physician, 147-148.
- Holland, P.J. (1979) MSG: A possibility in Treating Tardive Dyskinesia. Letter - American Journal of Psychiatry 136:12.
- Smith, T.L., Welch, R.L.W., Holland, P.J., (1977) Time Series analysis of mental health center census data. ASA Proceedings of the Social Statistics Section.

Abstracts

- Toll N; Bone M; Holland PJ; Levy X; “Challenges in Approvals for Cannabis Clinical Outcomes Research: A Case Study” Poster Presentation , MMJ Outcomes Annual Meeting, Orlando, FL 2023
- Krooks J, Weatherall A, Holland PJ, “Review of epidemiology, clinical presentation, diagnosis, and treatment of common primary psychiatric causes of cutaneous disease” Poster Presentation, Student Achievement Council Student Research Symposium, March 2019-Florida Atlantic University
- Freeman, K., Holland, P.J., Tappen, R. Methodological consideration in Prolonging Safe Driving in Mild Alzheimer’ Disease; (Abstract) Presented at the American Geriatrics Society Annual Meeting May, 2018, Orlando, FL
- Blazek, M., Wilkins, K., Wagenaar, D., Brooks, W. B., Lehmann, S., Popeo, D.M., Holland, P.J., An On-Line, Annotated bibliography of Web-based resources for Geriatric Mental Health Education for Medical Students, (Abstract), Presented at the American Directors of Medical Student Education in Psychiatry Annual Meeting, 2018, Minneapolis, MN
- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Effect of Memantine on the Progression of Driving Impairment in Patients with Mild Alzheimer’s Disease; (Abstract). Presented at the 29th International Conference of Alzheimer’s Disease International (ADI 2014), May 1, 2014 to May 4, 2014, San Juan, Puerto Rico.
- Holland, P.J., Tappen, R.M., Fisher, L.J., Curtis, A.L. , Apter, J. Effect of Memantine on the Progression of Driving Impairment in Mild Alzheimer’s Disease; (Abstract) Presented at the 6th Clinical Trials Conference on Alzheimer’s Disease, November 14, 2013 to November 16, 2013, San Diego, California.
- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Effect of Memantine on the Progression of Driving Impairment in Mild Alzheimer’s Disease; (Abstract). Presented at the 2013 Alzheimer’s Association International Conference (AAIC 2013), July 13, 2013 to July 18, 2013, Boston, Massachusetts.

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer's Disease; (Abstract). Presented at the 53rd Annual New Clinical Drug Evaluation Unit Conference, May 28, 2013 to May 31, 2013, Hollywood, Florida.
- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer's Disease; (Abstract). Presented at the 11th International Conference on Alzheimer's and Parkinson's Diseases (AD/PD 2013), March 6, 2013 to March 10, 2013, Florence, Italy.
- Holland, P. J., Tappen, R., Fisher, L. J. and Curtis, A. L. Delaying the Progression of Driving Impairment in Individuals with Mild Alzheimer's Disease; (Abstract). Presented at the Alzheimer's Association 2011 International Conference on Alzheimer's disease (ICAD), July 16, 2011 to July 21, 2011, Paris, France.
- Holland, P. J., Dunlop, B., Pedersen, R., Li, L., Ahmed, S., Ninan, P., Keller, M. Venlafaxine Extended Release Leads to Recovery in Patients With Recurrent Major Depressive Disorder; (Abstract). Presented at the 48th Annual New Clinical Drug Evaluation Unit Meeting, May 27, 2008 to May 30, 2008, Phoenix, Arizona.
- Rothschild, A., Boadie, D., Dunner, D. et al. Assessing Tachyphylaxis During the Prevention of Recurrent Episodes of Depression With Venlafaxine XR for Two Years (PREVENT) Study; (Abstract). Presented at the 47th Annual New Clinical Drug Evaluation Unit Meeting, June 11, 2007 to June 14, 2007, Boca Raton, Florida.
- Holland, P. J., Time-Course of Improvement and Quality of Response to Sertraline in Clinical Dimensions of Panic Disorder; (Abstract). Presented at the XXIII Annual Conference Anxiety Disorders Association of America, March 27, 2003 to March 30, 2003, Toronto, Canada.
- Holland, P. J., Remeronsoftab (Mirtazapine Orally Disintegrating Tablets) In Patients who are at least 50 years of Age; (Abstract). Presented at the XXIII CINP Congress, June 23, 2002 to June 27, 2002, Montreal, Canada.
- Holland, P. J., Effectiveness of Sertraline in Long-Term Treatment of Panic Disorder: Treatment Response, Quality of Life, and Sexual Functioning; (Abstract). Presented at the World Congress of Biological Psychiatry, July 2001, Berlin, Germany.
- Michelson, D., Holland, P.J., Tepuer, R., and Pemberton, C. Double-Blind vs. Single-Blind Placebo Lead-in Periods During Panic Disorder Efficacy Trials; (Abstract). Presented at the 39th Annual New Clinical Drug Evaluation Unit Meeting, June 1999, Boca Raton, Florida.
- Holland, P.J., and Holland, D. Psychopharmacology in the U.S.: an update on antidepressants in psychosomatic disorders; (Abstract). Presented at the 12th World Congress of Psychosomatic Medicine, August 29, 1993 to September 2, 1993, Bern, Switzerland.

Book Chapters

Peter J. Holland, M.D., F.A.C.O.E.M., D.L.F.A.P.A.

Chapter on Psychiatric Aspects of Occupational Medicine. A Practical Approach to Occupational and Environmental Medicine; Third Edition. Lippincott Williams & Wilkins. Robert J. McCunney, M.D., editor. 2003.

Chapter on Psychiatric Aspects of Occupational Medicine. Handbook of Occupational Medicine; Second Edition. Little, Brown. Robert J. McCunney, M.D., editor. 1994.

Chapter on Psychiatric Aspects of Occupational Medicine. Handbook of Occupational Medicine; Little, Brown. Robert J. McCunney, M.D., editor. 1988.

CURRICULUM VITAE

Biographical

Name: Xupei Huang

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EDUCATION AND TRAINING

1978-1985	Nanjing Medical University, China	BM (equal to MD)	Medicine
1987-1992	University of Paris XII, France	PhD	Biochemistry <i>Advisor:</i> <i>Dr. M. Castagna</i>
1992-1993	INSERM U290, France	Postdoctoral Fellow	Physiology <i>Supervisor:</i> <i>Dr. J.F. Desjeux</i>
1993-1998	University of Wisconsin-Madison	Postdoctoral Fellow	Physiology <i>Supervisor:</i> <i>Dr. J.W. Walker</i>

APPOINTMENT AND POSITION

Academic:

1985-1987	Nanjing Medical University, China	Assistant Professor
1998-2001	Texas A&M University College of Medicine Department of Physiology	Assistant Professor (Research track)
2001-2005	Florida Atlantic University College of Science Department of Biomedical Science	Assistant Professor (Tenure track)
2005-2012	Florida Atlantic University College of Biomedical Science Department of Biomedical Science Miami Miller School of Medicine	Associate Professor (Tenured) Affiliated Associate Professor
2007-Present	Chongqing Medical University, China	Honorary Professor
2012-Present	Florida Atlantic University College of Medicine Department of Biomedical Science	Professor (Tenured)

2013	Stanford University School of Medicine Division of Pediatric Cardiology	Visiting Professor
2022	Stanford University School of Medicine Division of Pediatric Cardiology	Visiting Professor

HONORS AND AWARDS

Research Awards:

CIES Fellowship, Paris, France	1991
Postdoctoral Fellowship, Claude Bernard Association, France	1992
Best Oral Presentation Award in Mid-West Physiology Conference, WI	1998
Research of the Year (Assistant Professor Category)	2004
College of Biological Sciences, Florida Atlantic University	

Teaching Awards:

Distinguished Teacher of the Year (Finalist of the Award)	2007
Florida Atlantic University	
Distinguished Teacher of the Year (Finalist of the Award)	2008
Florida Atlantic University	
Dwight W. Warren Award for Excellence in Graduate Teaching	2007
College of Biomedical Science, Florida Atlantic University	

Memberships in professional and scientific societies:

American Heart Association Professional Member	2001-
Fellow of American Heart Association	2007-2009
Biophysical Society Member	2000-2009
Board Member, Chinese Pharmacology Society Drug Care Committee	2008-2012

PUBLICATIONS (peer-reviewed journals)

1. Yuan Wenjing, Zhongji Jia, Jianin Li, Lingjuan Liu, Jie Tian, **Xupei Huang**, Junjun Quan. The clinical profile, genetic basis and survival of childhood cardiomyopathy: a single-center retrospective study. Eur. J. Pediatr. 183(3):1389-1401, 2024. doi: 10.1007/s00431-023-05358-6. Epub 2024 Jan 2.
2. Gerber, Dustin, Junjun Quan, Bo Pan, **Xupei Huang**, Jie Tian. Exploring contractile protein mechanisms and target medications for cardiomyopathic patients with diastolic dysfunction. Pediatric Discovery, 2024; 2:e60, 1-10, doi.org/10.1002/pdi3.60.
3. Junjun Quan, Dustin Gerber, Ang Li, **Xupei Huang**, Jie Tian. A Green Tea Extract Catechin EGCG: Therapeutic Potential for Pediatric Cardiomyopathies and Diastolic Dysfunction. Pediatric Discovery,1(1):1-12, 2023, doi.org/10.1002/pdi3.7.
4. Feng H., **X. Huang**, J. Jin. N-terminal truncated cardiac troponin I enhances Frank-Starling response by increasing myofilament sensitivity to resting tension. J

- Gen Physiol. 2023 Apr 3;155(4):e202012821. doi: 10.1085/jgp.202012821. Epub 2023 Mar 6.
5. Lu Q, B. Pan, H. Bai, W. Zhao, L. Liu, G. Li, R. Liu, T. Lv, **X. Huang**, J. Tian. Intranuclear cardiac troponin I plays a functional role in regulating Atp2a2 expression in cardiomyocytes. *Genes & Diseases* (2022) 9, 1689e1700.
 6. Liao Y., H. Jin, **X. Huang**, F. Gong, L. Fu. Acquired heart disease in children: Pathogenesis, diagnosis and management. *Frontiers in Pediatrics*, 15 July, 2021doi: 10.3389/ped.2021.725670.
 7. Danfeng Zhang, Lingjuan Liu, Yuxing Yuan, Yiewei Lv, **Xupe Huang**, Jie Tian. Oxidative phosphorylation-mediated E-selectin upregulation is associated with endothelia-monocyte adhesion in human coronary artery endothelial cells treated with sera from patients with Kawasaki disease. *Fron. Pediatrics*, 22 Feb. 2021 doi: 10.3389/fped.2021.618267.
 8. Ang Li, Dan Yin, **Xupe Huang**, Lixing Zhang, Tiewei Lv, Qijian Yi, Ping Xiang. Clinical Analysis of Thrombocytopenia following Transcatheter Occlusion of a Patent Ductus Arteriosus. *Cardiology*, 2020 Dec 30;1-5. doi: 10.1159/000512512.
 9. Danfeng Zhang, Lingjuan Liu, **Xupe Huang** and Jie Tian. Insights Into Coronary Artery Lesionsin Kawasaki Disease. *Frontier in Pediatrics*, Aug. 25, 2020, doi: 10.3389/fped.2020.00493
 10. Junjun Quan, Zhongli Jia, Tiewei Lv, Lei Zhang, Lingjuan Liu, Bo Pan, Jing Zhu, Ira J. Gelb, **Xupe Huang** and Jie Tian Green tea extract catechin improves cardiac function in pediatric cardiomyopathy patients with diastolic dysfunction. *J Biomed Sci.* 26(1): 32, 2019. DOI: 10.1186/s12929-019-0528-7.
 11. Zhao W., X. Wu, Z. Wang, B. Pan, L. Liu, L. Liu, **X.P. Huang**, J. Tian. Epigenetic regulation of phosphodiesterase 4d in restrictive cardiomyopathy mice with cTnI mutations. *Sci. China Life Sci.* 2019 Mar 12. doi: 10.1007/s11427-018-9463-9.
 12. Yuanlin Zhou, Na Ouyang, Lingjuan Liu, Jie Tian, **Xupe Huang**, Tiewei Lu. An EGLN1 mutation may regulate hypoxic response in cyanotic congenital heart disease through the PHD2/HIF-1A pathway. *Gene & Diseases*, 6(1):35-42, 2018.
 13. Wu X, B. Pan, L. Liu, W. Zhao, J. Zhu, **X.P. Huang**, J. Tian. In utero exposure to PM2.5 during gestation caused adult cardiac hypertrophy through histone acetylation modification. *J. Cell Biochem*, DOI: 10.1002/jcb.27723, Sept. 30, 2018.
 14. Wu X, B. Pan, Y. Wang, L. Liu, **X.P. Huang**, J. Tian. The protective role of low-concentration alcohol in high-fructose induced adverse cardiovascular events in mice. *Biochem. Biophys. Res. Commun.* 2018 Jan 1; 495 (1):1403-1410. doi: 10.1016/j.bbrc.2017.11.141.
 15. Yan Xiaochen, Bo Pan, Tiewei Lv, Lingjuan Liu, Jing Zhu, Wen Shen, **Xupe Huang**, Jie Tian. Inhibition of histone acetylation by curcumin reduces alcohol-induced fetal cardiac apoptosis. *J. Biomed. Sci.* 2017 Jan 5; 24(1):1. doi: 10.1186/s12929-016-0310-z.
 16. Pan B, Quan J, Liu L, Xu Z, Zhu J, **Huang X**, Tian J. Epigallocatechin gallate reverses cTnI-low expression-induced age-related heart diastolic dysfunction through histone acetylation modification. *J Cell Mol Med.* 2017 Apr 6. doi: 10.1111/jcmm.13169. [Epub ahead of print] PubMed PMID: 28382690.

17. Chou CC, Modi JP, Wang CY, Hsu PC, Lee YH, Huang KF, Wang AH, Nan C, **Huang X**, Prentice H, et al. Activation of Brain L-glutamate Decarboxylase 65 Isoform (GAD65) by Phosphorylation at Threonine 95 (T95). Mol Neurobiol. 2017 Mar;54(2):866-873. doi: 10.1007/s12035-015-9633-0. Epub 2016 Jan 16. PubMed PMID: 26780456.
18. Xing Shen, Bo Pan, Huiming Zhou, Lingjuan Liu, Tiewei Lv, Jing Zhu, **Xupe Huang** and Jie Tian. Differentiation of mesenchymal stem cells into cardiomyocytes is regulated by miRNA-1-2 via WNT signaling pathway. J. Biomed. Sci. 2017, 24:29; DOI 10.1186/s12929-017-0337-9.
19. Quan JJ, LJ Liu, TW Lv, **X.P. Huang**, J. Tian. Atypical infantile-onset pompe disease with hypertrophic cardiomyopathy. Chin. Med. J. 130:2393-2394, 2017.
20. Pan B. Z.W. Xu, Y.Xu, L.J. Liu, J. Zhu, X. Wang, C. Nan, Z. Zhang, W. Shen, **X.P. Huang**, J. Tian. Diastolic dysfunction and cardiac troponin I decrease in aging hearts. Arch. Biochemi. Biophys. 603:20-28, 2016.
21. Xiaoqin Wang, Zhengyu Zhang, Gang Wu, Changlong Nan, Wen Shen, Yimin Hua and **Xupe Huang**. Green tea extract catechin improves internal cardiac muscle relaxation in RCM mice. J. Biomed. Sci. 23:51, 2016, DOI 10.1186/s12929-016-0264-1
22. Chang Peng, Xiaomei Luo, Qianlu Xing, Huichao Sun, and **Xupe Huang**. Suberoylanilide Hydroxamic Acid Restores Estrogen Reduced-cTnI Expression in Neonatal Hearts of Mice. J. Cell. Biochem. 117(10):2377-2384, 2016.
23. Liu Xiaoyan., Lei Zhang, Daniel Pacciulli, Jianquan Zhao, Changlong Nan, Wen Shen, Junjun Quan, Jie Tian, **Xupe Huang**. Restrictive cardiomyopathy caused by troponin mutations: application of disease animal models in translational studies. Front. Physiology, 7:629, doi: 10.3389/fphys.2016.00629.
24. Zhang L., C. Nan, Y. Chen, J. Tian, P. Jean-Charles, C. Getfield, X. Wang, **X.P. Huang**. Calcium desensitizer catechin reverses diastolic dysfunction in mice with restrictive cardiomyopathy. Archive of Biophys. Biochem. 573:69-76, 2015.
25. Nan C, S. Dube, A. Matoq, L. Mikesell, L. Abbott, R. Alshiekh-Nasany, H. Chionuma, **X.P. Huang**, B. Poiesz, D.K. Dube. Expression of sarcomeric tropomyosin in striated muscles in Axolotl treated with Shz-1, a small cardiogenmic molecule. Cardiovasc Toxicol, 15:29-40, 2015.
26. Zhao W, L. Liu, B. Pan, Y. Xu, J. Zhu, C. Nan, **X.P. Huang**, J. Tian. Epigenetic regulation of cardiac myofibril gene expression during heart development. Cardiovas. Toxicol. 15(3):203-209, 2015.
27. Chang Peng, Weihua Zhang, Weian Zhao, Jing Zhu, **Xupe Huang**, Jie Tian. Anacardic acid inhibits histone acetylases and attenuates alcohol-induced cardiac hypertrophy in developing murine hearts. Biochimie, 113:1-9, 2015.
28. Gao W., B. Pan, L. Liu, **X.P. Huang**, Z. Liu, J. Tian. Alcohol exposure increases the expression of cardiac transcription factor through ERK1/2-mediated histone 3 hyperacetylation in H9c2 cells. Bioche. Biophys. Res. Commun. 466(4):670-675, 2015.
29. Xu Y., L. Liu, B. Pan, J. Zhu, C. Nan, **X.P. Huang**, J. Tian. DNA methylation regulates mouse cardiac myofibril gene expression during heart development. Journal of Biomedical Science 2015, DOI: 10.1186/s12929-015-0203-6
30. Ira Gelb and **Xupe Huang**. Update in pediatric infective endocarditis. Cardiology, 2014; 128:86-87 (DOI:10.1159/000358551).

31. Peng C, J. Zhu, H. Sun, **X.P. Huang**, W. Zhao, M. Zheng, L. Liu, J. Tian. Inhibition of histone H3K9 acetylation by anacardic acid can correct the over-expression of GATA4 in the hearts of fetal mice exposed to alcohol during pregnancy. *PlosOne* (9) 8:e104135, 2014.
32. Feng H, G. Chen, C. Nan, **X.P. Huang**, J.P. Jin. Abnormal splicing in the N-terminal variable region of cardiac troponin T impairs systolic function of the heart with preserved Frank-Starling compensation. *Physiological Report* 2 (9), 2014, e12139, doi: 10.14814/phy2.12139.
33. Xu Y, J. Tian, **X.P. Huang**. Troponin mutation caused diastolic dysfunction and experimental treatment in transgenic mice with cardiomyopathy. *J. Adv. Med. Res.* 1(2): 39-43, 2014.
34. Yuejin Li, Lei Zhang, Pierre-Yves Jean-Charles, Changlong Nan, Guozhen Chen, Jie Tian, J.-P., Jin, Ira J. Gelb, **Xupe Huang**. Dose-dependent diastolic dysfunction and early death in a mouse model with cardiac troponin mutations, *J. Mol. Cell. Cardiology*, 62:227-236, 2013.
35. Huichao Sun, Jing Zhu, Tiewei Lu, **Xupe Huang**, Jie Tian. Curcumin-mediated cardiac defects in mouse is associated with a reduced histone H3 acetylation and reduced expression of cardiac transcription factors. *Cardiovasc Toxicol.* 2013, DOI 10.1007/s12012-013-9240-0.
36. Shirin Akhter, Kenneth Bueltmann, Jr., **Xupe Huang**, J-P. Jin. Restrictive cardiomyopathy mutations demonstrate functions of the C-terminal end-segment of troponin I. *Arch Biochem Biophys.* 2013. doi:http://dx.doi.org/10.1016/j.abb.2013.12.001.
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38. Chen G., Y. Li, J. Tian, L. Zhang, P. Jean-Charles, N. Gobara, C. Nan, JP. Jin, **XP. Huang**. Application of echocardiography on transgenic mice with cardiomyopathies. *Biochem. Res. Intern.* 2012, doi:10.1155/2012/715179.
39. Wang L., H. Sun, B. Pan, J. Zhu, G. Huang, **X.P. Huang**, J. Tian. Inhibition of histone acetylation by curcumin reduces alcohol-induced expression of heart development-related transcription factors in cardiac progenitor cells. *Biochem. Biophys. Res. Commun.* 424:593-596, 2012.
40. Chen G., C. Nan, J. Tian, P. Jean-Charles, Y. Li, H. Weissbach, **X.P. Huang**. Protective effects of taurine against oxidative stress in the heart of MsrA knockout mice. *J. Cell. Biochem.* 113:3559-3566, 2012.
41. Zhou K., G. Wu, Y. Li, L. Zhao, R. Zhou, Q. Zhu, **X.P. Huang**, D. Mu, Y. Hua. Protective effects of indomethacin and dexamethasone in a goat model with intrauterine balloon aortic valvuloplasty. *J. Biomed. Sci.* 2012, 19:74.
42. Zhang C., P. Jia, Y. Jia, KA Webster, **X.P. Huang**, M. Achary, S.L. Lemanski, L.F. Lemanski. Anoxia, acidosis and intergenic interactions selectively regulate methionine sulfoxide reductase transcriptions in mouse embryonic stem cells. *J. Cell. Biochem.* 112:98-106, 2011
43. Jia P., C. Zhang, Y. Jia, K. Webster, **X.P. Huang**, A. Kochegarov, S. Lemanski, L. Lemanski. Identification of a truncated form of methionine sulfoxide reductase A expressed in mouse embryonic stem cells. *J. Biomed. Sci.* 2011, 18:46 doi:10.1186/1423-0127-18-46.
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- gene from cardiac mutant axolotl (*Ambystoma Mexicanum*). *Cardiovas. Toxicol.* 11:235-243, 2011.
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 46. Jean-Charles P., Y. Li, C. Nan, **X.P. Huang**. Insights into restrictive cardiomyopathy from clinical and animal studies. *J Geriatr. Cardiol.* 8:168-183, 2011.
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 50. Zhang C., P. Jia, Y. Jia, H. Weissbach, K. Webster, **X.P. Huang**, S. Lemanski, M. Achary, L.F. Lemanski. Methionine sulfoxide reductase A (MsrA) protects cultured mouse embryonic stem cells from H₂O₂-mediated oxidative stress. *J. Cell. Biochem.* 111:94-103, 2010.
 51. Zhang C., P. Jia, Y. Jia, KA Webster, **X.P. Huang**, M. Achary, S.L. Lemanski, L.F. Lemanski. Anoxia, acidosis and intergenic interactions selectively regulate methionine sulfoxide reductase transcriptions in mouse embryonic stem cells. *J. Cell. Biochem.* Sept. 24, 2010.
 52. Wei B., J. Gao, **X.P. Huang**, G. Ji, J.P. Jin. Mutual rescues between two dominant-negative mutations in cardiac troponin I and cardiac troponin T. *J. Biol. Chem.* 285:27806-27816, 2010.
 53. Sun C., X. Yang, J. Zhu, T. Lv, Y. Chen, G. Chen, L. Zhong, Y. Li, **X.P. Huang**, J. Tian. Inhibition of p300-HAT results in a reduced histone acetylation and down-regulation of gene expression in cardiac myocytes. *Life Science*, 87:707-714, 2010.
 54. Nan C., Y. Li, P. Jean-Charles, G. Chen, A. Kreymerman, H. Prentice, H. Weissbach, **X.P. Huang**. Deficiency of methionine sulfoxide reductase A causes cellular dysfunction and mitochondrial damage in cardiac myocytes under physical and oxidative stress. *Biochem. Biophys. Res. Commun.* 402:608-613, 2010.
 55. Zhong L., J. Zhu, T. Lv, G. Chen, H. Sun, X. Yang, **X.P. Huang**, J. Tian. Ethanol and its metabolites induce histone lysine 9 acetylation and an alteration of the expression of heart development-related genes in cardiac progenitor cells. *Cardiovasc. Toxicol.* 10:268-274, 2010.
 56. Wu G., C. Nan, J.C. Rollo, **X.P. Huang**, J. Tian. Sodium valproate-induced congenital cardiac abnormalities in mice are associated with the inhibition of histone deacetylase. *J. Biomed. Sci.* 17:16, 2010.
 57. Nan C., and **X.P. Huang**. Transcriptional factor Yin Yang 1 represses fetal troponin I gene expression in neonatal myocardial cells. *Biochem. Biophys. Res Commun.* 378:62-67, 2009.

58. Feng H.Z., M. Moazzem Hossain, **X.P. Huang** and J.-P. Jin. Transgenic expression of a core structure of cardiac troponin I using α -myosin heavy chain promoter effectively rescues the postnatal lethality of cardiac TnI gene deletion: Myofilament incorporation determines the stoichiometry of troponin subunits in muscle cells. *Arch. Biochem. Biophys.* 487: 36-41, 2009.
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60. Zhang C., Jia P., **Huang X.P.**, Athauda G., Achary M., Wang J., Lemanski S., Dube D., Lemanski L.F. Myofibril-inducing RNA is essential for tropomyosin expression and myofibrillogenesis in axolotl hearts. *J. Biomed. Sci.* Sept. 3, 2009.
61. Nan C., and **X.P. Huang**. Transcriptional factor Yin Yang 1 represses fetal troponin I gene expression in neonatal myocardial cells. *Biochem. Biophys. Res Commun.* 378:62-67, 2009.
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100. **Huang XP**, Xu J, Jiang Y, Zhai W. Pharmacokinetic studies of organic pesticides. *J Chinese Public Health*, 24:23-25, 1986.

Book Chapters

1. Lemanski LF, **Huang XP**, Zajdel RW, Lemanski SL, Zhang C, Meng F, Foster D, Li Q, Dube DK. Cellular, molecular and developmental studies on heart development in normal and cardiac mutant axolotls. In: D.Dubes, ed. *Myofibrillogenesis*. pp. 207-222, 2001, Springer-Verlag New York, Inc. New York.
2. Zhang C., P. Jia, **X.P. Huang**, S. Lemanski, L.F. Lemanski. Protection of Mouse Embryonic Stem Cells from Oxidative Stress by Methionine Sulfoxide Reductases. in: *Oxidative Stress*, InTech - Open Access Publisher, 2011

3. Jean-Charles PY, C. Nan, L. Zhang, J. Tian, **X.P. Huang**. Cardiac troponin mutations: diastolic dysfunction and therapeutic options. Chapter XI, PP. 259-281, In Troponin (Ed. J.-P. Jin), 2014 Nova Science Publishers, Inc., ISBN:978-1-62948-320-7.

ABSTRACTS

1. **Huang XP**, Hanania N, Poupon MF, Castagna M. Expression of protein kinase C isoforms in rhabdomyosarcoma derived cell clones and leukemia HL60 cells: relation to differentiation and malignancy. *Biol of the Cell*, 69:14a, 1990.
2. **Huang XP**, Castagna M, Heyman M, Rautureau A, L'helgoualc'h A, Bisalli A, Desjeux JF. Mechanism of chloride secretion by bile acid in the human intestinal colonic cell line cl. 19A. *Gastroenterology*, 5:A690, 1991.
3. **Huang XP**, Walker JW. Activation of protein kinase C in vitro by photolabile caged diacylglycerols. *Biophys J*, 66:A148, 1994.
4. **Huang XP**, Walker JW. Ceramide stimulates dephosphorylation of cardiac myofilament proteins. *Biophys J*, 68:A56, 1995.
5. Sreekumar R, **Huang XP**, Patel JR, Greaser ML, Walker JW. Light-dependent activation of cellular protein kinase C using caged diacylglycerol. *FASEB J*, 10:A980, 1996.
6. Pi Y, **Huang XP**, Sreekumar R, Walker JW. Positive inotropy mediated by the diacylglycerol/protein kinase C signaling pathway in rat ventricular myocytes. *Biophys J*, 72:A298, 1997.
7. Diffie GM, Patel JR, **Huang XP**, Greaser ML, Moss RL. Interaction between phosphorylation and Ca²⁺ binding to myosin regulatory light chain from smooth and striated muscle. *Biophys J*, 72:A331, 1997.
8. **Huang XP**, Walker JW. Protein kinase C- α binds to cardiac myofilaments and F-actin by distinct mechanisms. *Mol Biol Cell*, 8:376a, 1997.
9. **Huang XP**, Pi Y, Lee KJ, Henkel AS, Gregg RG, Powers PA, Walker JW. Acute heart failure in mice lacking cardiac troponin I. *Circulation (Supple I)*I-852, 1998.
10. Meng F, Foster D, Tong C, Lemanski SL, Muthuchamy M, **Huang XP**, Lemanski LF. Reduced expression of a novel protein associated with heart development in embryos of cardiac mutant axolotls. *FASEB J*, 13(4):A441, 1999.
11. Lemanski LF, **Huang XP**, Bahatia B, Zajdel R, Meng F, Foster D, McLean M, Lemanski S, Dube DK. Embryonic heart development in cardiac mutant axolotls, *Ambystoma Mexicanum*. Weinstein Conference in Heart Development and Heart Failure, Tucson, AZ., May 20-23, 1999.
12. Lemanski LF, **Huang XP**, Bahatia B, Zajdel R, Meng F, Foster D, McLean M, Lemanski S, Dube DK. Embryonic heart development in cardiac mutant axolotls, *Ambystoma Mexicanum*. Weinstein Conference in Heart Development and Heart Failure, Tucson, AZ., May 20-23, 1999.
13. **Huang XP**, Lemanski LF, Walker JW. Thyroid hormone regulates ssTnI gene inactivation in cTnI deficient mouse hearts. American Heart Association Scientific Conference on Molecular, Cellular, and Integrative Physiological Approaches to the Failing Heart, Salt Lake City, UT. August 18-22, 1999.
14. Zhang C, **Huang XP**, Lemanski SL, Bhatia R, Gaur A, Meng F, Dube DK, Lemanski LF. Molecular basis of the cardiac mutation in Mexican axolotls. *Mol Biol Cell*, 10:361a, 1999.
15. **Huang XP**, Lee KJ, Powers PA, Walker JW, Lemanski LF. Developmental regulation of troponin I in mouse heart. Weinstein Cardiovascular Development Conference, Tucson, AZ., May 20-23, 1999.

16. Lemanski LF, Zhang C, Erginel-Unaltuna N, Lemanski SL, Li Q, Meng F, Foster D, Dube DK, **Huang XP**. Gene regulation of cardiac myofibrillogenesis in axolotls. *Nat'l Acad of Sci Colloquium*, 2000.
17. Meng F, **Huang XP**, Erginel-Unaltuna N, Lemanski SL, Tong C, Zhang C, Muthuchamy M, Dube DK, Lemanski LF. Analysis of N1 protein gene expression during early embryonic development in cardiac mutant axolotls. *FASEB J*, 14:276a, 2000.
18. Zhang C, **Huang XP**, Lemanski SL, Meng F, Dube DK, Lemanski LF. A novel synthetic RNA corrects the cardiac mutation in Mexican axolotls, *Ambystoma mexicanum*. *FASEB J*, 14:421a, 2000.
19. **Huang XP**, Lee, KJ, Riedel B, Zhang C, Lemanski LF, Walker JW. Thyroid hormone regulates slow skeletal troponin I gene inactivation in cardiac troponin I null mouse hearts. *Mol Biol Cell*, 11:16a, 2000.
20. **Huang XP**. Gene regulation of contractile protein troponin I during heart development (invited conference presentation), 6th Annual Meeting of International Society for Heart Research, Nanjing, China, October 17, 2000.
21. Lemanski LF, Foster D, Zhang C, Lemanski SL, Zajdel RW, Erginel-Unaltuna N, Dube DK, **Huang XP**. A novel RNA which binds to proteins promotes myofibrillogenesis in axolotl hearts. *FASEB J*, 15:LB86a, 2001.
22. Zhang C, **Huang XP**, Lemanski SL, Meng F, Li Q, Erginel-Unaltuna N, Foster D, Dube DK, Lemanski LF. A novel RNA is related to contractile protein synthesis and cardiac myofibrillogenesis in Mexican axolotls. Second International Conference Proteins that Bind RNA, 102a, 2001.
23. Zhang C, Foster D, **Huang XP**, Lemanski, SL, Lemanski LF. Role of novel RNA in myofibrillogenesis and heart development. Weinstein Vardiovascular Development Conference, Dallas, TX. May 17-20, 2001.
24. Zhang C, **Huang XP**, Zajdel RW, Lemanski SL, Dube DK, Lemanski LF. Gene c in cardiac nonfunction axolotls results in a G-T point mutation that alters a bioactive RNA essential for normal cardiac myofibrillogenesis. *Mol Biol Cell*, 28a, 2001.
25. Zhang C, **Huang XP**, Foster D, Dube DK, Lemanski SL, Lemanski LF. Role of a novel RNA in myofibrillogenesis and heart development. *FASEB J*, 2002.
26. Riedel B, Jia Y, **Huang XP**. Regulation of ssTnI gene in cTnI null cardiac myocytes. Gordon Research Conference, Cardiac Muscle Regulation, New London, CT, July 28, 2002.
27. Zhang C, **Huang XP**, Lemanski SL, Dube DK, Lemanski FL. Studies on an RNA that promotes myofibrillogenesis. *FASEB J*, A258, 2003.
28. Jia Y, Akerman S, **Huang XP**. Energy metabolism disturbance in myocardial cells of the cTnI null mice with diastolic dysfunction. *Mol Biol Cell*, 14:46a, 2003.
29. Zhang C, **Huang XP**, Lemanski SL, Dube DK, Lemanski LF. Cloning of a myofibril inducing RNA (MIR) that promotes myofibrillogenesis. *FASEB J*, 2004.
30. **Huang XP**. Troponin I gene regulation during heart development. *J Mol Cell Cardiology* 37:346, 2004.
31. Zhang C, **Huang XP**, Lemanski SL, Dube DK, Lemanski LF. Myofibril inducing RNA (MIR) rescues mutant Salamander heart by promoting myofibrillogenesis. *J Mol Cell Cardiology* 37:346, 2004.
32. Zhang C, Du J, **Huang XP**. Genomic Structure and Functional Characterization of the Promoters of Mouse ssTnI. *J Mol Cell Cardiology* 37:164, 2004.
33. Jean-Charles P, Li Y, Du J, Gobara N, Wu G, Nan C, **Huang XP**. Restrictive cardiomyopathy linked cTnI mutation (K178E) causes severe heart failure and early mortality. *Circulation* 136a, 2008.
34. Feng H, Chen G, Nan C, **Huang X.P.**, Jin I. Myopathic splice-out of the exon 7 segment of cardiac troponin T predominantly impaires systolic function of the heart. The 55th Annual meeting of Biophysical Society, 2011.

35. Jean-Charles P, Li Y, Nan C, Chen G, Feng H, Jin J, **Huang X.P.** N-terminal truncated cardiac TnI improves cardiac function in vivo and rescues restrictive cardiomyopathy. The 55th Annual meeting of Biophysical Society, 2011.
36. Li Y., Jean-Charles P, Nan C, Chen G, **Huang X.P.** Dose-dependent arrhythmia and cardiac dysfunction in restrictive cardiomyopathy mice due to troponin mutations. The 55th Annual meeting of Biophysical Society, 2011.
37. **Huang X.P.** Diastolic dysfunction in transgenic mice with troponin mutations. Myofilament proteins as structural scaffolds and mediators of function, Madison, WI, 2012.
38. **Huang X.P.** Green tea extract catechin on diastolic dysfunction, Myofilament meeting, Madison, WI, 2014.
39. **Huang X.P.** Diastolic dysfunction and heart failure, 15th Chinese Pediatric Cardiology Conference, 2015.
40. **Huang X.P.** Diastolic Heart Failure, a neglected heart problem in children. The 6th Congress of Asia-Pacific Pediatric Cardiac Society, Shanghai, China, 2016.

INVITED LECTURES (since 2001):

1. “Troponin I: Physiological Roles on Cardiac Function and Its Gene Regulation in Heart Development”, Medical University of South Carolina, January 15, 2001.
2. “A knockout mouse model for gene regulation study”, University of California, Davis, CA, June 18, 2001.
3. “cTnI gene knockout and possible gene therapy”, University of Wisconsin, Madison, WI, July 28, 2001.
4. “Troponin I gene regulation during heart development” XVIII World Congress International Society for Heart Research, August 7-11, 2004, Brisbane, Australia.
5. “Troponin I mutation and Cardiomyopathies” 8th National Conference on Cardiovascular Pharmacology, July 23-27, 2004, Urumqi, China.
6. “Gene targeting in biomedical research”, Florida International University, Nov. 1, 2005, Miami, Florida.
7. “Animal modeling in cardiovascular drug research”, 11th International Cardiovascular Pharmacology and Medicine Symposia, July 12, 2006, Shanghai, China.
8. “Application of echocardiography for mouse phenotype measurement”, Cardiovascular Research Institute, Northwestern University, Jan. 12, 2007, Evanston, IL.
9. “Troponin I deficiency and mutation caused diastolic dysfunction” Cardiovascular Research Center Seminar. Temple University School of Medicine, February 28, 2008, Philadelphia, PA.
10. “Troponin mutation and RCM” Seminar, Department of Molecular and Cellular Physiology, Louisiana State University Health Science Center, November 19, 2008, Shreveport, LA
11. “Contractile proteins, normal and disease” Seminar, Medtronic Inc. May 12, 2009, Minneapolis, MN
12. “Experimental treatment of RCM” Special seminar, Nanjing Medical University 75th Anniversary Conference, October 13, 2009, Nanjing, China
13. “Correction of diastolic dysfunction by cardiac troponin modifications in RCM mice” The American Heart Association Scientific Sessions, November 18, 2009, Orlando, FL
14. “Experimental treatment of genetic restrictive cardiomyopathy” International symposium on cardiovascular pharmacology, Oct. 29, 2010, Hefei, China
15. “Mechanisms of RCM and potential treatment” The 9th Annual Meeting of Chinese Pathological Society, Nov. 4, 2010, Nanjing, China
16. “Diastolic heart failure and systolic heart failure: mechanisms and development”

- West China School University Hospital, Sichuan University, June 2, 2011. Chengdu, China
17. “Troponin and myofilament proteins”, Department of Pediatric Cardiology, Stanford University School of Medicine, Feb. 19, 2013, Palo Alto, CA
 18. “Desensitization on treatment of diastolic dysfunction”, Amgen, Feb. 26, 2013, South San Francisco, CA
 19. “Heart failure with preserved ejection fraction”, The 20th Annual Congress of Chinese Pediatric Society, Sept. 23, 2015, Xiamen, China
 20. “Calcium desensitization option for diastolic dysfunction and heart failure”, The 3rd Oriental Congress on Pediatrics (OCP), Oct. 16, 2015, Shanghai, China
 21. “Troponin and cardiac diastolic function”, The 2nd World Congress on Pediatric Cardiology, Aug. 27, 2015, Valencia, Spain
 22. “Mouse model of restrictive cardiomyopathy”, Chongqing-Fudan Forum in Cardiovascular Research, Chongqing, China, June 28, 2017.
 23. “Genetic cardiomyopathy and gene analysis”, Pediatric Cardiovascular Conference, Yunnan, China, Nov. 10, 2017.
 24. “Experimental therapy in cardiomyopathy”, Pediatric Cardiology Conference, Chongqing, China, Oct. 16, 2019.
 25. “Muscle contraction regulation”, Biomedical Seminar Series, Florida State University, Tallahassee, April 15, 2020.
 26. “Troponin, a small protein in the heart”, CMBB Seminar Series, Florida Atlantic University, Center for Molecular Biology and Biotechnology. May 25, 2021.
 27. “Stem cell in cardiac muscle repair”, Faculty Feed, Florida Atlantic University College of Medicine, Feb. 22, 2023.
 28. “Updates in cardiomyopathy research”, Liangjiang Conference in Pediatrics, Chongqing, China. June 16, 2023 (invited speaker)

Chair or Co-Chair the national and international meetings

1. Co-Chair, International symposium on cardiovascular pharmacology, Oct. 29, 2010, Hefei, China
2. Chair, Session 3, the 2nd World Congress on Pediatric Cardiology, Aug. 25-28, 2015, Valencia, Spain

New Patents, Licenses and Invention Disclosures

Huang X.P. and Jie Tian, Using calcium desensitizers catechins for treatment of diastolic dysfunction and heart failure, US 68 18-228.

Huang X.P. Mouse model for restrictive cardiomyopathy, License# 2023-037, FAU/Bristol Myers Squibb, 2023-2025. Inventor: Xupei Huang (50% Loyalty).

TEACHING:

Medical Teaching:

Course Director, Cardiovascular System Module (for M1 medical students)	2006-2009
Course Co-Director, Digestive System (for M2 medical students)	2005-2008
Instructor for Cardiovascular System (M1)	2005-2023
Instructor for Digestive System (M2)	2005-2008
Instructor for Cardiovascular System (M2)	2013-2025
Facilitator for Problem Based Learning (PBL)	2007-2025
Facilitator for ICA (M1)	2017-2025

Graduate Teaching:

Couse Director, Protein in Health and Diseases (3 credits course)	2003-2025
Couse Director, Physiology of the Heart (3 credits course)	2004-2025
Instructor, Advanced Cell Physiology (3 credits course)	2006-2015
Instructor, Topics in Biomedical Science I & II	2007-2009
Topics in Translational Medicine	2017-2018

Graduate Student Training:

Sponsor and adviser of Dustin Gerber, (2017-), *Characterization of phosphorylation of troponin mutations*.

Sponsor and adviser of Jianfeng Du, PhD, (2005-2010), *Characterization of animal models of troponin mutations*. Present position: Research Scientist, Brown University.

Sponsor and adviser of Dr. Gang Wu, (2007-2008), *Sodium valproate-induced congenital cardiac abnormalities in mice are associated with the inhibition of histone deacetylase*. Present position: Department of Pediatric Cardiology, West China Second University Hospital, Sichuan University, China.

Sponsor and adviser of Dr. Guozhen Chen, (2009-2010), *Application of echocardiography on transgenic mice with cardiomyopathies*. Present position: Department of Pediatrics, Yuhuangding Hospital, China

Sponsor and adviser of Yujin Li, PhD (2009-2013), *Correcting diastolic dysfunction by Ca^{2+} desensitizing troponin in a transgenic mouse model of restrictive cardiomyopathy*. Present position: Research Associate, Johns Hopkins University College of Medicine.

Sponsor and adviser of Pierre Jean-Charles, PhD (2009-2014), *Cardiac Troponin Mutations: Diastolic dysfunction and therapeutic Options*. Present position: Research Associate, Duke University.

Sponsor and adviser of Dr. Lei Zhang (2014-2015), *Effects of green tea extract catechins on diastolic dysfunction and heart failure*. Present position: Chongqing Medical University Children's Hospital, China

Sponsor and adviser of Dr. Xiaoqin Wang, (2014-2015), *Calcium desensitizing catechins improve internal cardiac muscle relaxation in RCM mice*. Present position: Department of Pediatric Cardiology, West China Second University Hospital, Sichuan University, China.

Sponsor and adviser of Dr. Zhengyu Zhang (2015-2016), *Diastolic dysfunction and troponin*. Present position: Department of Histology and Cell Biology, Guangzhou Medical University, China.

Sponsor and adviser of Yuanyuan Jia, MS (2005-2007), *Cardiac Troponin Mutations: Diastolic dysfunction and therapeutic Options*.

Sponsor and adviser of Jing Liu, MS (2006-2008), *Troponin I deficiency causes impaired cardiac relaxation and heart failure in mice*.

Sponsor and adviser of Narima Gobara, MS (2007-2009), *High resolution echocardiography on mouse cardiac function measurements*.

Medical Student Training:

Director and sponsor for medical student training in basic biomedical science (training programs were funded by the American Heart Association)

Trained medical students (AHA fellows):

John Rollo (M2)	Amira Queredo (M1)	Fayez Raza (M1)
Desiree Villadolid (M1)	Carrie Jung (M1)	Andrew Schneider (M1)
Dyani Loo (M1)		

Undergraduate and graduate Directed Independent studies (DIS):

Daphne Alvarado	"Cardiac protein characterization" (DIS, 2003)
Percy Tumbale	"PCR and Genotyping" (DIS, 2004)
Alexander Kreymerman	DIS student, 2007- 2008
Megan Knight	DIS student, 2007- 2008
Jorge Guerrero	DIS student, 2008 - 2009

Ph.D. student advisory committee:

Chi Zhang	1999-2002
Heng Wu	2003-2006
Di Sha	2003-2006
Ian Moench	2006-2009
Mat Rowan	2007-2011
Jing Ye	2008-2011
Diana Navarro	2009-2011

Laboratory Members and Trainees:

Beth Riedel	Laboratory Technician, Texas A&M University, 2000-2001
Changlong Nan	Laboratory Manager, Florida Atlantic University, 2009-2015
Ping Xiang	Visiting Scholar, Florida Atlantic University, 2017-2018
Liu Tu	Visiting Scholar, Florida Atlantic University, 2017-2018
Xiaoqin Wang	Visiting Scholar, Florida Atlantic University, 2015-2016
JunJun Quan	Visiting Scholar, Florida Atlantic University, 2019-2020

Training Grant Awards:

Xupei Huang, PI, American Heart Association, AHA-0815131E (2008-2010)
Xupei Huang, PI, American Heart Association, AHA-10PRE4600005 (2010-2012)
Xupei Huang, Sponsor, American Heart Association (Jianfeng Du, 2007-2009)
Xupei Huang, Sponsor, American Physiological Society Pre-doctoral Fellow (Pierre Jean-Charles, 2010-2012)

Research grants:

Current funding:

Research Contract	Xupei Huang (PI)	07/01/24-06/30/26

Bristol Myers Squibb
Experimental treatment with lead-molecules in mice with RCM
The research studies the effects of M-molecules in cardiac function in RCM mice.
Role: **PI**

Research Patent Loyalty	Xupei Huang (PI)	10/01/2023-09/30/2025

Mouse model for restrictive cardiomyopathy
License# 2023-037, FAU/Bristol Myers Squibb
Inventor: Xupei Huang (50% Loyalty).

Research Contract	Xupei Huang (PI)	07/01/19-06/30/24

MyoKardia Inc.
Experimental treatment with M-molecules in mice with RCM
The research studies the effects of M-molecules in cardiac function in RCM mice.
Role: **PI**

19AIREA34380770	Xupei Huang (PI)	07/01/19-06/30/23

AHA
Correction of diastolic dysfunction and diastolic heart failure in RCM.
Role: **PI**

Past grants:

1999-2002: AHA-9950399N National American Heart Association Grant-in-Aid: "Role of Troponin I in Cardiac Function"
Role in the project: **PI**

2002-2005: AHA-255422B, American Heart Association Florida Affiliate Grant-in-Aid: "Regulation of Troponin I Isoform Expression by Thyroid Hormone in Developing Heart"
Role in the project: **PI**

2002-2003: Research Initiation Award from Florida Atlantic University
“A mouse model for gene therapy in the heart”.
Role in the project: **PI**

2003-2005: Center of Excellence for Biomedicine and Marine Biotechnology
Project leader in “Effects of marine compounds on cardiac cells”

2003-2004: FAU Research Enhancement Program
“TnI Isoform Switching and Expression Regulation in Developing Hearts”.
Role in the project: **PI**

2005-2010: NIH-SCORE grant
“Studies on cardiomyopathy with diastolic dysfunction”
Role in the project: **Project-PI**

2007-2009: AHA-Florida Affiliate
Predoctoral Fellowship (Jianfeng Du)
“Characterization of ssTnI gene promoter in mouse heart”
Role in the project: **Sponsor**

2008-2010: AHA-0815131E
Basic science training program for medical students
Role in the project: **PI**

2009-2011: AHA 09GRNT2400138
AHA Great Southeast Affiliate Grant-in-Aid
“Experimental treatment of restrictive cardiomyopathy in a mouse model”
Role in the project: **PI**

2011-2013: AHA 11GRNT7860030
AHA Great Southeast Grant-in-Aid
Mechanisms of heart failure and early death in restrictive cardiomyopathy
Role in the project: **PI**

2010-2012: American Physiology Society
Predoctoral Fellowship (Pierre-Yves Jean-Charles)
“Troponin mutation and restrictive cardiomyopathy”
Role in the project: **Sponsor**

2010-2012: AHA-10PRE4600005
Basic science training program for medical students
Role in the project: **PI**

2012-2016: 1R15HL112130-01
NIH/NHBLI
“Restrictive cardiomyopathy caused by cardiac troponin mutations”
The research is focused on determining troponin mutation caused cardiomyopathy and the mechanisms of the disease development.
Role: **PI**

Research Related Activities

Grant review panels and study sections:

2005	NIH-NIGMS MBRS Cardiovascular Physiology Review Panel
2009	NIH-NIGMS MBRS Neuroscience & Physiology Review Panel
2012	NIH-NHLBI ZRG1 CVRS-B (90) Grant Review Panel
2013	NIH-NHLBI ZRG1 CVRS-Q (90) Grant Review Panel
2014	NIH-NHLBI ZRG1 CVRS-Q (80) Grant Review Panel
2015	VA/ORD EPID Grant Review Panel
2016	VA/ORD EPID Grant Review Panel
2017	VA/ORD EPID Grant Review Panel
2018	VA/ORD EPID Grant Review Panel
2005 - 2007	AHA-Florida/Puerto Rico Affiliate Grant Review Group 1A
2006 - 2009	AHA-National Grant Review Panel, Basic Cell Biology Group 3
2008 - 2011	AHA Region 2 Peer Review, Basic Cell & Molecular Biology 2
2018 - 2025	AHA Region 2 Peer Review, Basic Cell – Proteins & Crystallography
2006 -	NSFC Physiology grant review panel

Editorial board & manuscript reviews:

2002:	Guest Editor. <i>Experimental Biology and Medicine</i> .
2002	Review manuscript for <i>Proc Natl Acad Sci USA</i> .
2004	Review manuscripts for <i>Journal of Biomedical Science</i>
2006	Review manuscripts for <i>Journal of Cell Science</i>
2006-	Editorial Board: <i>Cardiology</i>
2007-	Associate Editor: <i>Cardiology</i>
2011:	Guest Editor, <i>Journal of Biomedicine and Biotechnology</i>
2014-	Editorial Board: <i>Journal of Cardiovascular Research</i>
2020-	Associate Editor: <i>Frontier in Pediatric Cardiology</i>
2022-	Editorial Board: <i>Archives of Biophysics & Biochemistry</i>
2023-	Editorial Board: <i>Pediatric Discovery</i>

SERVICE:

1999 – 2001	Graduate Faculty in Texas A&M University
2001 – 2002	Junior Faculty Search Committee Department of Biomedical Science Florida Atlantic University, FL
2001-	Member of Center of Molecular Biology and Biotechnology Florida Atlantic University
2002	Capitan in the College of Science for American Heart Walk
2003-	Member of Infrastructure Committee in College of Science at FAU
2003-	Member of Graduate Study Committee in the Department of Biomedical Science, FAU.
2003	Drafted the application of Master Program for Biomedical Science at Florida Atlantic University and approved by the Florida State.
2004-	Cardiovascular System Course Coordinator Department of Biomedical Science, FAU
2006-2007	Chair, Graduate Studies Committee Department of Biomedical Science Now, College of Biomedical Science
2006-2010	Member, University of Graduate Council, Florida Atlantic University
2006-2010	Integrative Biology Ph.D. Program Committee
2006	Biomedical Science College Planning Committee
2005-	Medical Curriculum Committee, UMMSM at FAU
2007-2011	P&T Committee, College of Biomedical Science, FAU
2007-	M1 medical student Promotion and Evaluation Committee, FAU

2009-2011	Chair, College P&T Committee
2009-2011	Member, University P&T Committee
2013-	Member, College P&T Committee
2013-	Member, College Graduate Study Committee
2014-	Member, University International Education Committee (FAUIEC)
2015-	Vice Chair, College P&T Committee
2016-2018	University Faculty Senator
2016-	Task force of Departmental SPE criteria drafting
2016-	College committee of SPE Criteria
2018	External Reviewer for Graduate Program at Western University of Health Sciences
2019	Vice Chair, College P&T Committee
2021	Chair, College SPE Committee
2022-2024	Medical Student Admission Committee
2022-2024	University Faculty Senator
2025-2026	College Teaching Evaluation Committee

Curriculum Vitae

Ceylan Isgor, Ph.D.

Personal Information

Birth: October 10, 1970, TURKEY

Address: Florida Atlantic University (FAU)
Charles E. Schmidt College of Medicine (COM)
Department of Biomedical Science
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Fax: (561) 297-2519

Citizenship: U.S.A.

Professional Background

2023 Diversity Equity & Inclusion Certificate (eCornell)

2022-present President of Women in Medicine and Science at FAU-COM

2018-present Undergraduate Research Liaison for College of Medicine/FAU

2020-present Trained Facilitator of the Entering Mentoring Curricula
Center for the Improvement of Mentored Experiences in Research
(CIMER) at the University of Wisconsin-Madison

2010-present Associate Professor (tenured)
Florida Atlantic University
Charles E. Schmidt College of Medicine
Department of Biomedical Science
Boca Raton, FL 33431

2004-2010 Assistant Professor (tenure track)
Florida Atlantic University
Charles E. Schmidt College of Biomedical Science
Department of Basic Science
Boca Raton, Florida 33431

1999-2004 Postdoctoral Fellow

	The University of Michigan Mental Health Research Institute Ann Arbor, MI 48109-0720 Research Mentors: Stanley J. Watson, MD, PhD Huda Akil, PhD
1993-1999	Doctor of Philosophy Indiana University Received: August, 1997 Major: Animal Learning and Behavior (Psychology) Minor: Behavioral Neuroscience (Program in Neural Science) Research Mentors: Dale R. Sengelaub, PhD William Timberlake PhD
1990-1993	Bachelor of Arts University of Maryland at College Park, College Park MD Major: Psychology
1988-1990	University Degree Bogazici University, Istanbul, TURKEY Major: Business Major: Psychology

Research Support, Awards & Patents

2025	International Patent Application (ISA)/ US Patent Office (PCT) “Cancer treatment regimen using anti-parasitic compounds and gut microbiome modulating agents” PCT Application No. PCT/US2022/011277 FAU Ref. 202029 (Full approval)
2024-	“The role of the nucleus reunions of the thalamus in epileptogenesis using a transgenic mouse model of adult-onset generalized tonic-clonic seizures” FAU-College of Medicine Bridge Funding Role: Principal Investigator

2022-2024	“Brain-gut-immune effects of oral therapy with combination benzimidazoles and chitin microparticles for late stage breast cancer” FAU-Brain Institute Neuroscience Pilot Award Role: Principal Investigator
2019-2024	“Temporal ontogeny of epileptogenesis in a model of adult-onset spontaneous seizures” Agency: National Institutes of Health/NINDS R15 REAP NS115049 Role: Principal Investigator
2022	“Temporal ontogeny of epileptogenesis in a model of adult-onset spontaneous seizures” Agency: National Institutes of Health/NINDS R15 REAP NS115049-Supplement Role: Principal Investigator <i>(Supplement 2)</i>
2020	“Temporal ontogeny of epileptogenesis in a model of adult-onset spontaneous seizures” Agency: National Institutes of Health/NINDS R15 REAP NS115049-Supplement Role: Principal Investigator <i>(Supplement 1)</i>
2021-2022	The Higher Education Emergency Relief Fund (HEERF) NIH-funded Graduate Assistantship Relief Role: Principal Investigator/ Mentor
2018-2020	“Role of Ube3a in neuronal maturation and synaptogenesis in adult-born neurons” Agency: National Institutes of Health/NIDCD R21 DC016467 Role: Co-Investigator
2017-2018	“Compromised neural activity of the nucleus pontis oralis of the brain stem leads to sudden unexpected death in epilepsy” Agency: FAU-Brain Institute Neuroscience Pilot Award Role: Principal Investigator
2009-2011	“Individual differences in relapse to nicotine” Agency: National Institutes of Health/NIDA Type: R15-AREA Role: Principal Investigator

2009-2010	Florida Atlantic University Researcher of the Year (Assistant Professor)
2008-2011	“A rat model of individual differences in neuro-immune responses to nicotine and stress” Agency: Florida Department of Health/Biomed. Res. Program Type: Team Science Project Role: Co-Investigator (PI: K. Brew)
2007-2008	Florida Atlantic University Charles E. Schmidt College of Biomed Science Dwight W. Warren Excellence in Graduate Teaching Award
2005-2009	“Role of cannabinoid receptor 1 in novelty-seeking phenotype and treatment for nicotine dependence” Agency: Florida Department of Health/Biomed. Research Program Type: New Investigator Research Role: Principal Investigator
2016, 2017, 2018	Sigma Xi Grant-in-Aid of Research <i>Melanie Gil (2016)</i> <i>Kezia Koroma (2017)</i> <i>Sajida Hossein (2018)</i>
1997	Society for Neuroscience annual meeting travel award
1996-1997	Biomedical Research Grant, Doctoral Student Support NIMH
1996	Indiana Academy of Sciences Grant-in-Aid of Research
1994-1996	Indiana University Center for Integrative Study of Animal Behavior Research Support
1994-1996	Sigma Xi Grant-in-Aid of Research
1993-1997	Indiana University Center for Integrative Study of Animal Behavior Summer Support Fellowship
1993-1996	Indiana University Center for Integrative Study of Animal Behavior Travel Award

General Research Experience

2013-present	Florida Atlantic University Charles E. Schmidt College of Medicine <i>Topic:</i> Temporal ontogeny of aberrant synaptic circuit construction and emergence of generalized tonic clonic seizures

- Investigating neurobiological mechanisms underpinning death risk in epilepsy
- 2004-2013 Florida Atlantic University
Charles E. Schmidt College of Medicine
Topic: Individual differences in emotional reactivity in an outbred rat model of the novelty-seeking phenotype as an antecedent to vulnerability to stress and nicotine craving
- 1999-2004 The University of Michigan
Mental Health Research Institute, Ann Arbor MI
Topic 1: Morphological, behavioral and molecular consequences of chronic, variable stress during the peripubertal-juvenile period in the adult brain
Topic 2: Individual differences in the novelty-seeking behavior in the female rat: Interactions of the low-responder/high-responder phenotype with the gonadal axis and brain dopaminergic circuitry
Topic 3: Gonadal and adrenal steroid regulation of the novel estrogen receptor β in stress-relevant brain nuclei: Potential hypothalamic-pituitary-adrenal axis function
Supervisors: Stanley J. Watson, MD, PhD
Huda Akil, PhD
- 1994-1999 Indiana University
Department of Psychology & Program in Neural Science, Bloomington IN
Topic: Organization of sexual dimorphism in hippocampal cellular and dendritic morphology and subsequent maze learning in adulthood.
Supervisor: Dale R. Sengelaub, PhD
- 1992-1993 Indiana University
Department of Psychology, Bloomington IN
Topic: Effects of cooperation and competition on social foraging
Supervisor: William Timberlake, PhD
- 1991-1992 University of Maryland at College Park
Department of Psychology, College Park MD
Topic: Priming in racial stereotyping
Supervisor: Charles Stangor, PhD
- 1990-1992 University of Maryland at College Park
Program in Behavioral Neuroscience, College Park MD
Topic: Brightness threshold, visual acuity and concept formation
Supervisor: William Hodos, PhD

Undergraduate Research Mentorship Experience (2013-present)

Paulette Coombs	<i>Spring 2013-Summer 2014 (Undergraduate Research Intern)</i> Spring 2014-Recipient of Undergraduate Research Award May, 2014-Featured in Undergraduate Student Spotlight-OURI Spring 2015-Poster Presentation at OURI Research Symposium Published article: Isgor C, Pare C, McDole B, Coombs P , Guthrie K. (2015) Expansion of the dentate mossy fiber-CA3 projection in the brain-derived neurotrophic factor enriched mouse hippocampus. <i>Neuroscience</i> 288:10-23 <i>Graduated from Edward Via College of Osteopathic Medicine-Auburn</i>
Danick Joseph	<i>Summer 2014-Spring 2015 (Behavioral Neuroscience Honors Program)</i> Fall 2014-Recipient of Undergraduate Research Award Spring 2015-Poster Presentation at OURI Research Symposium April, 2015-Presented at Life Sciences South Florida STEM symposium May, 2015-defended undergraduate honors thesis May 2015-May 2016-Selected for Undergraduate Internship Program in Max Planck Florida Neuroscience Institute (Dr. Sam Young) <i>Obtained Masters in Biotechnology from Johns Hopkins University</i>
Melanie Gil	<i>Fall 2016-Spring 2017 (Undergraduate Research Intern)</i> Fall 2016- Recipient of Undergraduate Research Award Spring 2017-Recipient of Sigma Xi-Grant in Aid of Research Spring 2017- Poster Presentation at OURI Research Symposium Spring 2017-Undergraduate Researcher of the Year from College of Medicine Summer 2017- Summer Research Fellowship in University of Massachusetts Medical School <i>Graduated from PhD program in Vanderbilt University, Interdisciplinary Biomedical Science Program</i>
Mary Laquerre	<i>Fall 2015-Spring 2016 (Undergraduate Research Intern)</i> Fall 2015- Recipient of Undergraduate Research Award Spring 2016- Poster Presentation at OURI Research Symposium
Wei Zhou Hui	<i>Fall 2015-Spring 2016 (Undergraduate Research Intern)</i> Fall 2015- Recipient of Undergraduate Research Award Spring 2016- Poster Presentation at OURI Research Symposium
Rachel St Clair	<i>Fall 2016-Spring 2017 (Undergraduate Research Intern)</i> Fall 2016- Recipient of Undergraduate Research Award Spring 2017- Poster Presentation at OURI Research Symposium

Spring 2017-Recipient of Sigma Xi-Grant in Aid of Research
*Obtained Masters from the University of California Davis,
 Graduate Program in Biomedical Engineering*

Aleksandar Nikolic	<i>Spring 2015-Fall 2015 (Undergraduate Research Intern)</i>
Renata Lemos	<i>Spring 2017-Fall 2017 (Undergraduate Research Intern)</i>
Eva Yagudeau	<i>Summer 2017 (FAU Honors College))</i>
Kezia Koroma	<i>Spring 2017-2018 (DIS, Undergraduate Research Intern)</i> Spring 2017- Recipient of Undergraduate Research Award Spring 2017- Recipient of Sigma Xi-Grant in Aid of Research Fall 2017- Recipient of Sigma Xi-Grant in Aid of Research Fall 2017- Recipient of Undergraduate Research Award Presented at OURI Spring 2018 Research Symposium
Sajida Hossein	<i>Summer 2017-2018 (FAU High, DIS)</i> Fall 2017- Recipient of Undergraduate Research Award Presented at OURI Spring 2018 Research Symposium Spring 2018 Recipient of Sigma Xi-Grant-in-Aid of Research <i>Accepted to University of Central Florida College of Medicine</i>
Autumn Pough	<i>Spring 2017-Fall 2018 (NSF-F-LEARN Program, DIS)</i> FAU-Summer Undergraduate Research Fellowship recipient for Summer of 2018
Alaina Tillman	<i>Spring 2018-Fall 2018 (FAU High Honors College)</i>
Minhal Khoja	<i>Spring 2018-Fall 2018 (FAU High, Honors College)</i>
Ashlyn Terhune	<i>Spring 2019-Summer 2019 (Undergraduate Research Intern)</i>
Ronithe Senatus	<i>Spring 2018-Spring 2019 (Undergraduate Research Intern)</i> Fall 2018-Recipient of Undergraduate Research Award
Ana Tyulmenkova	<i>Summer 2018-Summer 2020 (Undergraduate Research Intern; Honors Thesis))</i> Fall 2018-Recipient of Undergraduate Research Award Directed Independent Research Student Honors Thesis Program (2019-2020 Academic Year) FAU-Summer Undergraduate Research Fellowship (Summer 2019) <i>Accepted to Integrative Biology PhD Program for Fall 2020 under Dr. Isgor</i>
Matthew Ward-Moses	<i>Spring 2018-Summer 2020 (Undergraduate Research Intern)</i>

	Fall 2018-Recipient of Undergraduate Research Award Directed Independent Research Student Spring 2019-Recipient of Undergraduate Research Award
Sebastien Nicolas	<i>Spring 2018-Summer 2020 (Undergraduate Research Intern)</i> Fall 2018-Recipient of Undergraduate Research Award Spring 2020-Recipient of Undergraduate Research Award Directed Independent Research Student Summer Undergraduate Research Fellowship recipient (2020)
Daniel Keith	<i>Fall 2019-Fall 2021 (Undergraduate Research Intern)</i> Fall 2019-Recipient of Undergraduate Research Award Spring 2020-Recipient of Undergraduate Research Award Directed Independent Research Student
Giovanny Garcia-Mendoza	Fall 2019-Summer 2020 (<i>Undergraduate Research Intern</i>) Fall 2019-Recipient of Undergraduate Research Award Directed Independent Research Student
Vanessa Stubbs	Fall 2020-Summer 2021 (<i>Research Intern, DIR</i>) Directed Independent Research Student NSF-LEARN Scholar Fall 2020 Summer Undergraduate Research Fellowship recipient (2021) Recipient of Undergraduate Research Award (2021) Honors Thesis-2021-2022 Academic Year <i>Accepted to Mayo Clinic Alix School of Medicine MD/PhD Program for Fall 2022</i>
Jose Labrador-Pino	Fall 2021-Fall 2022 (<i>Undergraduate Research Intern</i>) Directed Independent Research Student
Isha Khan	Summer 2020-Spring 2021 (<i>Undergraduate Research Intern</i>) Fall 2021-Recipient of Undergraduate Research Award
Tashi Dillon	Summer 2022-2023 (<i>Undergraduate Research Intern, Honors College</i>) Spring 2023-Honors Thesis Recipient of Undergraduate Research Award (2022) <i>Accepted to Masters Program in Biomed Science in FAU in Fall 2023 under Dr. Isgor</i>
Adrianna Tran	Spring 2023-present (<i>Undergraduate Research Intern</i>)
Arthi Khan	Spring 2023-present (<i>Undergraduate Research Intern</i>) NIDDK STEP-UP student participant NSF-LEARN Scholar

David Cavalcanti *Spring 2024-present*
Entering Undergraduate Research Intern

Adina Silverstein *Spring 2024-present*
Entering Undergraduate Research Intern

Graduate Student Mentorship

Dr. Savianne Maharaj MS 2007; Mentor: Dr. Ceylan Isgor
Completed medical school in the University of Arizona, College of Medicine, Phoenix, AZ

Dr. Amrinder Bhatti MS 2009; Mentor: Dr. Ceylan Isgor
Residency: Northside Medical Center, Western Reserve, Youngtown OH.
Current employment: Cleveland Clinic, Cleveland OH (Internal Medicine).

Dr. Cigdem Aydin MS 2011; Mentor: Dr. Ceylan Isgor
Ph.D. 2015; Mentor: Dr. Ceylan Isgor
Postdoctoral Fellowship and Research Scientist with Dr. Huda Akil, University of Michigan, Molecular and Behavioral Neuroscience Institute.
Current employment: Medical Science Liaison at EMD Serono, Inc.

Dr. Ozge Oztan MS 2012; Mentor: Dr. Ceylan Isgor
Ph.D. 2016; Mentor: Dr. Ceylan Isgor
Recipient of Dissertation of the Year Award in FAU (2014; Mentor: Dr. Isgor).
Current employment: Senior Research Scientist at Stanford University Child Health Research Institute

Ana Tyulmenkova PhD candidate in Integrative Biology, FAU
Mentor: Dr. Ceylan Isgor

Tashi Dillon MS candidate in Biomedical Science, College of Medicine, FAU;
Mentor Dr. Ceylan Isgor

Summer Fast Track Medical Student Research

Amanda Zwick Summer 2022; Presented findings in American Epilepsy Society Meeting Fall 2022.

Rojesh Shakya Manuscript contributor
Summer 2022, 2023
Manuscript contributor

Technical Skills

Behavior:

Behavioral models of learning and memory using various maze learning paradigms

Behavioral models of approach-avoidance anxiety paradigms using light/dark box, elevated plus maze, open field, social interaction test

Paradigms of chronic unpredictable/variable stress Social behavioral paradigms including social hierarchy, dominance-subordination and kinship relationships

Behavioral models of drug taking, behavioral sensitization to psychostimulants, self-administration of psychostimulants, locomotor reactivity to novelty

Monitoring cortical EEG activity in freely moving mice

Surgery:

Ovariectomy, orchidectomy, adrenalectomy

Intracardial perfusions, decapitation, brain and spinal tissue collection, brain dissection and blocking

Microinjection (iontophoresis) of drugs in the brain nuclei using the stereotaxic apparatus (reversible lesion paradigm)

Collection of plasma from live animals via tail nicking

Cesarean section delivery

Microsurgeries including gonadectomy on embryonic rat pups

Delivery of viral vectors *in vivo* in various brain regions for downstream anatomical analyses

Skull EEG electrode implantation

Histology:

Nissl and basic histological stains

Immunohistochemistry (DAB and fluorescence-conjugates)

Golgi-Cox impregnation

Timm's Silver Stain

Horseradish peroxidase retrograde labeling

Vaginal cytology

Tissue sectioning using vibratome, cryostat, rotary and freezing microtomes

Tissue collection using Laser Capture Microdissection

<i>Biological Assays:</i>	Radioimmunoassay
<i>Molecular Assays:</i>	DNA cloning, transformation Plasmid Preparation <i>In situ</i> hybridization histochemistry using riboprobes DNA/RNA isolation/purification Immunohistochemistry Double <i>in situ</i> and immuno histochemistry using radiolabeled and digoxigenin labeled mRNA probes Autoradiography Affymetrix Gene Chip Assay RNA collection/purification and amplification from picogram quantities using the laser capture microdissection technique Chromatin Immunoprecipitation Assay & ChIP on chip Western Blot
<i>Light & Fluorescent</i>	
<i>Microscopy:</i>	Unbiased stereological counts of particles using a 3-D computer-interfaced video image analysis system (e.g., neuron, glia, radiolabelled pixels per neuron) Quantification of gross and cellular morphology using the Cavalieri Estimator for structural volume and Nucleator probe for soma size Quantification of dendritic morphology in individual neurons stained by the Golgi-Cox method (e.g., dendritic length, number of branches, spine number and density) using a 3-D computer-interfaced video image analysis system (Neurolucida) Fluorescent and bright-field confocal microscopy including z-stack collection for downstream 3-D montage of individual neurons
<i>Transgenic Mice:</i>	Breeding and maintaining transgenic mice strains for genetic manipulations including conditional Cre-lox-mediated gene suppression

Teaching Experience

- Assistant Instructor: Undergraduate level psychology courses, 1993-1996, Indiana University:
(Learning and Motivation, Behavioral Neuroscience, Social Psychology, Statistical Methods, Evolution of Learning, Biopsychology, Developmental Neurobiology)
- Assistant Instructor: Graduate level statistics course, 1996, Indiana University
- Laboratory Instructor: Methods in Experimental Psychology, 1995, Indiana University
- Undergraduate Medical Student Research Advisor, 2000-2002, University of Michigan:
-responsibilities included training students in laboratory techniques and assisting them with their undergraduate research theses
- Graduate Student Research Director, 2002, University of Michigan:
-responsibilities included directing graduate level research, helping pose tangible research questions, design experiments and assist in interpreting data
- Lecturer in the Neuroscience and Behavior delivered to the *1st year medical students*, 2005-present, Florida Atlantic University:
-delivered neuropharmacology and neurophysiology lectures pertaining to topics of learning and memory, neurobiology of reward circuitry, drug addiction, hypothalamus and limbic system and the stress axis
- Lecturer in a team-taught, *graduate level*, degree requirement class Topics in Biomedical Sciences, 2005-2012; Florida Atlantic University:
-delivered lectures pertaining to neurobiological bases of individual differences in drug addiction and introduced general behavioral paradigms used in animal models of drug addiction
- Lecturer Molecular Neuropsychopharmacology, 2008-2013; Florida Atlantic University:
-developed and annually instructed this *graduate level* 3 credit course which fulfills an elective requirement for the Florida Atlantic University ***Neuroscience Certificate Program***.
- Facilitator Problem Based Learning in Neuroscience and Behavior delivered to *1st year medical students*, Spring 2009-present; Florida Atlantic University
- Lecturer Neurobiology of Addiction, 2014-present; Florida Atlantic Univ:
-developed and instructed this 3 credit, graduate level course annually which fulfills an elective requirement for the College of Medicine ***Masters in Biomedical Science Program***.

Mentor	Directed Independent Research credits, 2017-present
SLIQ Observer/ Backup	Pathophysiology & Therapeutics 2 and 3 <i>delivered to 2nd year medical students</i> , Fall 2018-present

Doctoral Thesis

Ceylan Isgor (1997) Effects of perinatal gonadal steroids on adult spatial navigation and hippocampal morphology

Doctoral Committee: Dale R. Sengelaub, PhD, Chair
Joseph E. Steinmetz, PhD
Jeffrey Alberts, PhD
Elizabeth Kurz, PhD

Invited Talks, Presentations & Workshops (2004-present)

“An animal model of individual differences in risk-taking behavior” Neuroscience Brown Bag Series, Florida Atlantic University, Department of Psychology, 11/18/2004

“A rodent model of individual differences in adolescent nicotine addiction: therapeutic perspectives” Neuroscience Colloquium, Florida State University, 11/23/2005

“Individual differences in novelty-seeking and nicotine addiction: therapeutic perspectives.” Neuroscience Brown Bag, Florida Atlantic University, 05/11/2006.

“Vulnerability to nicotine craving & modulation with cannabinoid receptor 1 (CB1) antagonist” Biomedical Seminars, Florida Atlantic University, 08/22/2006

“Neurobiological mechanisms in vulnerability to nicotine: HPA axis” Neuroscience Colloquium, University of Michigan, 10/10/2007

“Nicotine vulnerability: “Individual differences in emotional reactivity” Neurobiology Seminar, Emory U., 10/24/2008

“Normal and pathological brain development during adolescence” Neuroscience and Behavioral Biology, Emory U., 12/05/2008

“Vulnerability to stress: neurobiological correlates” University of Louisville, College of Medicine, Department of Psychiatry & Behavioral Sciences, 09/21/2009

“Individual differences in novelty-seeking phenotype and nicotine abstinence-induced anxiety-like behavior” Indiana University, Neuroscience Program, 02/12/2010

“Epigenetic regulation of the brain derived-neurotrophic factor gene in nicotine-induced anxiety” Neuroscience Seminar, University of Florida, 04/30/2010

“Individual differences in relapse to nicotine in an outbred rodent model of nicotine vulnerability” Neuroscience Seminar, University of North Dakota, 07/17/2011

“Progressive aberrant hippocampal circuit remodeling underlies early cognitive impairments and later seizure susceptibility in a transgenic mice overexpressing BDNF.” Florida State University, 09/07/2012

“Seizure-prone brain circuit construction in the temporal lobe epilepsy” Bradenton Pediatrics Club Seminar, 11/18/2014

“Epileptogenesis in aberrant synaptic circuits in the adult hippocampus of transgenic mice over-expressing the brain-derived neurotrophic factor” Florida Atlantic University, Neuroscience Seminar, 09/22/2015

“Adult-onset epilepsy: The dentate granule neuron gating hypothesis” University of Minnesota, Duluth Graduate Program In Neuroscience Seminar Series, 06/08/2018

“Emergence of epileptogenesis in aberrant synaptic circuits in the adult hippocampus of transgenic mice over-expressing the brain-derived neurotrophic factor” FAU Schmidt College of Medicine, Distinguished Lecturer Series, 02/02/2019

“Limbic System and Emotion” Marcus Neuroscience Institute; Boca Raton Regional Hospital Neurology Residents Lecture Series, 12/05/2019

Entering Mentoring and Enhancement of Cultural Awareness Faculty Development Workshop (CIMER); FAU COM, FAU COS Faculty; April 8 & April 22, 2022

Pre-Health Week Research Panel, College of Medicine FAU, Pre-Health Professions Office, April 2025

International Conferences and Workshops

Isgor, C., Timberlake, W. (1994). Effects of social conflict on foraging efficiency in the Norway rat. Annual Meeting of American Psychological Society, Washington D.C.

Isgor, C., Timberlake, W. (1994). Cooperation and competition in social foraging. Ohio-Kentucky-Purdue-Indiana University Joint Annual Animal Learning Meeting, Purdue University, Purdue IN.

Isgor, C., Waldroup, L.L., Sengelaub, D.R., Timberlake, W., Schroeder, D.M. (1995). Neural and hormonal correlates of spatial memory. Soc. Neurosci. Abstr. (24.19).

Isgor, C., Sengelaub, D.R. (1996). Neonatal androgens affect spatial behavior and CA3 pyramidal cell morphology: A Golgi study. Soc. Neurosci. Abstr. (302.10).

Waldroup, L.L., **Isgor, C.,** Sengelaub, D.R., Frommer, G. (1996). Acute testosterone affects aged male hippocampal morphology. Soc. Neurosci. Abstr. (491.1).

Isgor, C., Sengelaub, D.R. (1997). Prenatal gonadal steroids affect adult spatial behavior, CA1 and CA3 pyramidal cell morphology in rats. Soc. Neurosci. Abstr. (32.13).

Isgor, C., Akil, H., Watson, S.J. (1999). Acute restraint stress interacts with the HPA-axis of the female rat differentially across the oestrus cycle. Soc. Neurosci. Abstr. (582.11).

Kabbaj, M., **Isgor, C.,** Watson S.J., Akil, H. (1999). Chronic nonhabituating physical stress and intermittent social stress during adolescence affect the HPA axis of the adult rat. 29th Annual Meeting of Neuroscience.

Huang, G.C., **Isgor, C.,** Akil, H., Watson, S.J. (2000). Regulation of estrogen receptor β mRNA across oestrus cycle in the rat brain. Soc. Neurosci. Abstr. (346.18).

Isgor, C., Kabbaj, M, Akil, H., Watson, S.J. (2000). Chronic nonhabituating physical and social stress during adolescence alters hippocampal morphology and gene expression in rats. Soc. Neurosci. Abstr. (571.11).

- Lu, D., Healy, D.J., Young, E.A., Huang, G.C., **Isgor, C.**, Akil, H., Meador-Woodruff, J.H. (2000). Hippocampal NMDA receptor expression during the oestrus cycle. Soc. Neurosci. Abstr. (617.11).
- Kabbaj, M., **Isgor, C.**, Watson, S. J., Akil, H. (2000). Chronic nonhabituating social stress during adolescence inhibits behavioral sensitization to amphetamine: role of dopamine receptors. Soc. Neurosci. Abstr. (656.16).
- Isgor, C.**, Shieh, K.R., Akil, H., Watson, S.J. (2001). Colocalization of estrogen β -receptor messenger RNA with vasopressin, oxytocin and orphanin FQ in the rat hypothalamic paraventricular and supraoptic nuclei. 31st Annual Meeting of Society for Neuroscience.
- Isgor, C.**, Kabbaj, M., Akil, H., Watson, S.J. (2002). Interaction between the novelty-seeking behavior and the oestrus cycle in the female rat: Dopaminergic correlates. 32nd Annual Meeting of the Society for Neuroscience.
- International Neurostereology Workshop organized by Mark West, PhD University of Aarhus, Denmark in collaboration with Ignite Consultants, Denmark. July 6-12, 2002, Paris, France
- Isgor, C.**, Slomianka, L., Watson, S.J. (2003). Hippocampal mossy fiber terminal field size is differentially affected in a rat model of risk-taking behavior. 33rd Annual Meeting of the Society for Neuroscience.
- Isgor, C.**, Slomianka, L., Akil, H., Watson, S.J. (2004). Estrogen receptors α and β colocalize with Ki-67 and doublecortin immunoreactivity in proliferative regions of the adult rat brain. 34th Annual Meeting of the Society for Neuroscience.
- Turner, C.A., **Isgor, C.**, Evans, S.J., Neal, C.R., Akil, H., Watson, S.J. (2004). Effects of early postnatal FGF-2 administration on neurogenesis, emotionality and gene expression in rats. 34th Annual Meeting of the Society for Neuroscience.
- Perez, J. A., Turner, C. A., **Isgor, C.**, Watson, S. J., Akil, H. (2004) FGF-2, a possible predictor for emotional reactivity after environmental complexity. 34th Annual Meeting of the Society for Neuroscience.
- Tao, R., Pearson, E., Ma, Z., **Isgor, C.** (2005) Cannabinoid (CB) 1 receptor antagonist blocks nicotine-induced conditioned place preference in the HR but not LR adolescents. 35th Annual Meeting of the Society for Neuroscience.
- Isgor, C.**, Bhatti, A., Hall, P., Ma, Z., Tao, R. (2005) Cannabinoid 1 receptor antagonist treatment reverses behavioral sensitization to nicotine in adolescent rats with novelty seeking phenotype. 35th Annual Meeting of the Society for Neuroscience.

- Isgor, C.,** Bhatti, A., Hall, P., Ma, Z., Tao, R. (2006) Hippocampus mediates the behavioral sensitization to nicotine in peripubertal-juvenile rats: Interaction with the novelty-seeking phenotype. 36th Annual Meeting of the Society for Neuroscience.
- Tao, R., Jenney C., Zhang, G., Ma, Z., Krishnamoorthy, S., **Isgor, C.** (2006) Involvement of 5-HT_{2A} but not 5-HT_{1A} receptors in the serotonin toxicity and syndrome. 36th Annual Meeting of the Society for Neuroscience.
- Isgor, C.,** Bhatti, A. S., Aydin, C., Hall, P., Ma, Z., Tao, R. (2007) A cannabinoid receptor (CB) 1 antagonist, AM251, reverses nicotine craving in a rat model of novelty-seeking behavior: regulation of hippocampal 5HT neurotransmission. 37th Annual Meeting of the Society for Neuroscience.
- Bhatti, A., Aydin C., Oztan, O., Hall, P., **Isgor, C.** (2007) Chronic stress interactions with phenotypic predisposition for nicotine craving: the novelty-seeking phenotype and hippocampal neuropeptide Y. 37th Annual Meeting of the Society for Neuroscience.
- Guthrie KM, De La Puente R, **Isgor, C.** (2007) Ki-67 expression in the intact and target-deprived olfactory epithelium. 37th Annual Meeting of the Society for Neuroscience.
- Aydin C., Bhatti A.S., Oztan O., **Isgor C.** (2008) The novelty-seeking phenotype predicts expression of behavioral sensitization to nicotine: implications for neuropeptidergic regulation in amygdale. 38th Annual Meeting of the Society for Neuroscience.
- Oztan O., Aydin C., Bhatti A.S., Tobiansky D., **Isgor, C.** (2008) Effects of HDAC2 silencing on the neurotrophic factor family and inflammatory cytokine gene expression in a rat model of novelty-seeking phenotype: implications for behavioral sensitization to nicotine. 38th Annual Meeting of the Society for Neuroscience.
- Bhatti A.S., **Isgor C.** (2008) Differential effects of cannabinoid (CB) 1 receptor antagonist or bupropion in the mossy fibre reorganization following behavioral sensitization to nicotine in a rat model of novelty-seeking. 38th Annual Meeting of the Society for Neuroscience.
- Aydin C., Oztan O, **Isgor, C.** (2009) The role of chromatin remodeling in synaptic organization of hippocampal mossy fibres following behavioral sensitization to nicotine in a rat model of novelty-seeking: effects of a selective neuropeptide Y2 receptor antagonist (submitted abstract). 39th Annual Meeting of the Society for Neuroscience.
- Oztan O., Aydin C., **Isgor C.** (2009) Chronic intermittent social stress differentially regulates hippocampal mossy fibre terminal fields in a rodent emotional reactivity model: role of histone deacetylases and brain derived neurotrophic factor in mossy

fibre remodeling (submitted abstract). 39th Annual Meeting of the Society for Neuroscience.

Aydin C., Oztan O., **Isgor C.** (2010) Epigenetic regulation of the BDNF gene following behavioral sensitization to nicotine in a rat model of novelty-seeking: implications of anxiety-like behavior and mossy fibre plasticity. 40th Annual Meeting of the Society for Neuroscience

Oztan O., Aydin C., **Isgor C.** (2010) Epigenetic regulation of the BDNF gene following chronic variable physical and social stress in an outbred rat model of novelty-seeking is associated with hippocampal mossy fibre morphology. 40th Annual Meeting of the Society for Neuroscience

Aydin C., Oztan O., **Isgor C.** (2011) Chromatin plasticity at the BDNF gene is associated with hippocampal mossy fibre remodeling following behavioral sensitization to nicotine in an outbred rat model of the novelty-seeking phenotype. NIDA/NIAAA Satellite Symposium at the World Congress on Psychiatric Genetics. Sept 9, 2011; Washington D.C.

Aydin C., Oztan O., **Isgor C.** (2011) Differential effects of a cannabinoid receptor (CB) 1 antagonist AM251 administered during adolescence or early adulthood on behavioral and molecular adaptations induced by adolescent nicotine in the novelty-seeking phenotype. 41th Annual Meeting of the Society for Neuroscience

Oztan O., Aydin C., **Isgor C.** (2011) Chronic nonhabituating, variable physical stress in adolescence causes antidepressant and anxiogenic effects in the novelty-seeking phenotype: Stress interactions with administration of a generalized histone deacetylase inhibitor, trichostatin A. 41st Annual Meeting of the Society for Neuroscience

Aydin C., Oztan O., **Isgor C.** (2012) Effects of a selective Y2R antagonist, JNJ-31020028, on nicotine-induced hippocampal mossy fibre plasticity in the novelty-seeking phenotype. 42nd Annual Meeting of the Society for Neuroscience

Oztan O., Aydin C., **Isgor C.** (2012) Chronic variable stress-induced dendritic plasticity and associated changes in brain-derived neurotrophic factor in the hippocampus and the basolateral amygdala in the novelty-seeking phenotype: implications for depressive- and anxiety-like behaviors. 42nd Annual Meeting of the Society for Neuroscience

Guthrie KM, Aydin C, Pare C, **Isgor C.** (2013) Mossy fiber sprouting in BDNF-enriched hippocampus. 43rd Annual Meeting of the Society for Neuroscience

Isgor C, Hossain F, Aydin C, Oztan O, Guthrie K (2013) Dendritic analyses of hippocampal dentate gyrus and CA3 pyramidal neurons in brain-derived neurotrophic factor overexpressing mice. 43rd Annual Meeting of the Society for Neuroscience

- McDole B, **Isgor C**, Guthrie KM (2014) BDNF increases spine density of olfactory bulb granule cells in vivo. 44th Annual Meeting of the Society for Neuroscience
- Isgor C**, Coombs P, Guthrie K (2014) Progressive remodeling of hippocampal mossy fibres and dentate gyrus granule neuron dendritic arbors in the brain-derived neurotrophic factor overexpressing mice. 44th Annual Meeting of the Society for Neuroscience
- McDole B, **Isgor C**, Guthrie K (2014) Dendritic analysis of granule cells in the BDNF-enriched olfactory bulb. ACHEMS
- McDole B, **Isgor C**, Guthrie K (2016) BDNF augmentation in vivo increases spine density in adult-born olfactory granule cells. 46th Annual Meeting of the Society for Neuroscience
- Yepes C, Laquerre M, Zhou W, Guthrie K, **Isgor C** (2016) Emergence of epilepsy in a transgenic mouse strain that overexpresses brain-derived neurotrophic factor in the forebrain. 46th Annual Meeting of the Society for Neuroscience
- Vertes R P, Gil, M, St Clair R, Lemos R, Koroma K, **Isgor C** (2017) A proposed role for the nucleus pontis oralis of the brainstem (NPO) in sudden unexpected death in epilepsy. 47th Annual Meeting of the Society for Neuroscience
- Hossain MS, Pough A, Koroma K, **Isgor C** (2018) Adult-born dentate granule neurons show accelerated maturation in a transgenic mouse model of adult-onset spontaneous epilepsy. 48th Annual Meeting of the Society for Neuroscience
- Tyulmenkova A, Nicolas S, Terhune A, Ward-Moses M, **Isgor C** (2019) Cortical inactivity evoked by epileptic seizures is mediated by dysregulation of brainstem arousal circuits: Implications for REM and slow-wave sleep. 49th Annual Meeting of the Society for Neuroscience, October 19-23, Chicago, IL.
- Tyulmenkova A, Nicolas S, Keith D, Garcia G, **Isgor C** (2020) Postictal generalized EEG suppression is an indicator of death risk in a vertebrate model of adult-onset spontaneous epilepsy. American Epilepsy Society Virtual Meeting, December 4-8, 2020
- Tyulmenkova A, Keith D, Nicolas S, Garcia-Mendoza G, **Isgor C** (2021) Sleep-seizure EEG associations predictive of severity and death risk in epilepsy. Society for Neuroscience Global Connectome: A Virtual Event January 11-13, 2021
- Tyulmenkova A, Keith D, Garcia-Mendoza G, **Isgor C** (2021) Sleep-seizure EEG associations predictive of severity and death risk in epilepsy. American Epilepsy Society Annual Meeting, December 3-7, 2021, Chicago, IL

Stubbs VC, Nicolas S, **Isgor C** (2021) Mossy fiber bouton analysis of adult-born granule cells in a vertebrate model of spontaneous epilepsy. Annual Biomedical Research Conference for Minority Students (ABRCMS) Virtual Event November 10-13, 2021

Stubbs VC, Nicolas S, **Isgor C** (2022) Mossy fiber bouton analysis of adult-born granule cells in a vertebrate model of spontaneous epilepsy. 2nd Florida Undergraduate Research Posters at the Capitol, January 19-20, 2022, Tallahassee, FL (**VC Stubbs** was selected from FAU to present at this conference)

Tyulmenkova A, Stubbs VC, Labrador Pino, J, **Isgor C** (2022) Altered dendritic and axonal maturation of adult-born hippocampal granule neurons in a transgenic mouse model of adult-onset epilepsy. 52nd Annual Meeting of the Society for Neuroscience, November 12-16, 2022, San Diego CA.

Tyulmenkova A, Labrador Pino, J, Stubbs VC, **Isgor C** (2022) Temporal ontogeny of epileptogenesis as measured by video/EEG parameters in a transgenic mouse model of progressive, adult-onset epilepsy. 52nd Annual Meeting of the Society for Neuroscience, November 12-16, 2022, San Diego CA.

Tyulmenkova A, Garcia Mendoza G, Zwick A, Nicolas SA, **Isgor C** (2022) Sleep-seizure associations in cortical EEG in transgenic mouse model of progressive epilepsy: implications for morphological changes in cortico-limbic and brainstem structures. American Epilepsy Society Annual Meeting, December 2-6, 2022, Nashville, TN

Dillon T, Khan A, Tran A, **Isgor C** (2023) Interleukin-1 type 1 receptor (IL-1R1) is implicated in emergence and severity of seizures in a transgenic mouse model of progressive, generalized tonic/clonic epilepsy. 53rd Annual Meeting of the Society for Neuroscience.

Dillon T, Tran A, Isgor C (2024) Interleukin-1 type 1 receptor (IL-1R1) in the hippocampal dentate gyrus is implicated in generalized tonic-clonic seizures in a transgenic mouse model of adult-onset epilepsy. 54th Annual Meeting of the Society for Neuroscience

Selected Scientific Publications:

Isgor, C., Sengelaub, D.R. (1998). Prenatal gonadal steroids affect adult spatial behavior, CA1 and CA3 pyramidal cell morphology in rats. *Hormones and Behavior* 34(special issue on Estrogen Effects on Cognition Across the Lifespan):183-198.

Kabbaj. M., **Isgor, C.**, Watson, S.J., Akil, H. (2002). Stress during adolescence alters behavioral sensitization to amphetamine. *Neuroscience* 113(2):395-400.

Isgor, C., Huang, G.C., Akil, H., Watson, S.J. (2002). Correlation of estrogen β -receptor messenger RNA with endogenous levels of plasma estradiol and progesterone in the female rat hypothalamus, the bed nucleus of stria terminalis and the medial amygdala. *Molecular Brain Research* 106:30-41.

- Isgor, C., Sengelaub, D.R.** (2003). Effects of neonatal gonadal steroids on adult CA3 pyramidal neuron dendritic morphology and spatial memory in rats. *Journal of Neurobiology* 55(2):179-190.
- Isgor, C., Shieh, K.R., Akil, H., Watson, S.J.** (2003). Colocalization of estrogen β -receptor messenger RNA with vasopressin, oxytocin and orphanin FQ in the rat hypothalamic paraventricular and supraoptic nuclei. *Anatomy and Embryology* 206(6):461-469.
- Isgor, C., Cecchi, M., Kabbaj, M., Akil, H., Watson, S.J.** (2003). Estrogen receptor β in the paraventricular nucleus of hypothalamus regulates the neuroendocrine response to stress and is regulated by corticosterone. *Neuroscience* 121(4):837-845.
- Isgor, C., Kabbaj, M., Akil, H., Watson, S.J.** (2004). Delayed effects of chronic, variable stress during peripubertal-juvenile period on hippocampal morphology and on cognitive and stress axis functions in rats. *Hippocampus* 14(5):636-648.
- Isgor, C., Slomianka, L., Watson, S.J.** (2004). Hippocampal mossy fiber terminal field size is differentially affected in a rat model of risk-taking behavior. *Behavioral Brain Research* 153(1):7-14.
- Torregrossa, M.M., **Isgor, C., Rice, K.C., Watson, S.J., Woods, J.H.** (2004). The delta opioid receptor antagonist (+)BW373U86 regulates BDNF mRNA expression in rats. *Neuropsychopharmacology* 29(4):649-59.
- Isgor, C., Watson, S.J.** (2005). Estrogen receptor α and β messenger RNA expressions by proliferating and differentiating cells in the adult rat dentate gyrus and subventricular zone. *Neuroscience* 134:847-856.
- Ma, Z., Pearson, E., **Isgor, C., Tao, R.** (2006). Evidence of reuptake inhibition responsible for mecamylamine-evoked increases in extracellular serotonin. *Brain Research* 1073-1074: 321-324.
- Bhatti, A., Hall, P., Ma, Z., Tao, R., **Isgor, C.** (2007). Hippocampus modulates the behaviorally sensitizing effects of nicotine in a rat model of novelty-seeking: potential role for mossy fibres. *Hippocampus* 17(10): 922-933.
- Kabbaj, M. & **Isgor, C.** (2007). Effects of chronic environmental and social stimuli during adolescence on mesolimbic dopaminergic circuitry markers. *Neuroscience Letters* 422(1): 7-12.
- Ardiles, Y., de la Puente, R., Toledo, R., **Isgor, C., Guthrie, K.M.** (2007). Response of olfactory axons to loss of synaptic targets in the adult mouse. *Experimental Neurology* 207(2):275-288.
- Bhatti, A.S., Aydin, C., Oztan, O., Ma, Z., Tao, R., **Isgor, C.** (2009). Effects of cannabinoid receptor (CB) 1 antagonist AM251 on behavioral sensitization to nicotine in a rat model of novelty-seeking behavior: correlation with hippocampal 5HT. *Psychopharmacology (Berl)* 203(1):23-32.

- Aydin, C., Oztan, O., **Isgor, C.** (2011) Vulnerability to nicotine abstinence-related social anxiety-like behavior: Molecular correlates in neuropeptide Y, Y2 receptor and corticotropin releasing factor. *Neurosci Lett* 490(3):220-225.
- Aydin C., Oztan O., **Isgor, C.** (2011) Effects of a selective Y2R antagonist, JNJ-31020028, on nicotine abstinence-related social anxiety-like behavior, neuropeptide Y and corticotropin releasing factor mRNA levels in the novelty-seeking phenotype. *Behav Brain Res* 222(2):332-41.
- Oztan, O., Aydin, C., **Isgor, C.** (2011) Chronic variable physical stress during the peripubertal-juvenile period causes differential depressive and anxiogenic effects in the novelty-seeking phenotype: Functional implications for hippocampal and amygdalar BDNF and the mossy fibre plasticity. *Neurosci* 192:334-44.
- Oztan, O., Aydin, C., **Isgor, C.** (2011) Stressful environmental and social stimulation in adolescence causes antidepressant-like effects associated with epigenetic induction of the hippocampal BDNF and mossy fibre sprouting in the novelty-seeking phenotype. *Neurosci Lett* 501(2):107-11.
- Aydin C., Oztan O., **Isgor C.** (2012) Long-term effects of juvenile nicotine exposure on abstinence-related social anxiety-like behavior and amygdalar cannabinoid receptor 1 (CB1R) mRNA expression in the novelty-seeking phenotype. *Behav Brain Res* 228(1):236-9.
- Aydin C., Oztan O., **Isgor C.** (2012) Nicotine-induced anxiety-like behavior in a rat model of the novelty-seeking phenotype is associated with long-lasting neuropeptidergic and neuroplastic adaptations in the amygdala: Effects of the cannabinoid receptor 1 antagonist AM251. *Neuropharmacology* 63(8):1335-45.
- Hollis F., **Isgor C.**, Kabbaj M. (2013) The consequences of adolescent chronic unpredictable stress exposure on brain and behavior. *Neuroscience*, 249:232-41.
- Aydin C, Oztan O, **Isgor C.** (2014) Hippocampal Y2 receptor-mediated mossy fiber plasticity is implicated in nicotine abstinence-related social anxiety-like behavior in an outbred rat model of the novelty-seeking phenotype. *Pharmacol Biochem Behav* 125:48-54.
- Isgor C**, Pare C, McDole B, Coombs P, Guthrie K. (2015) Expansion of the dentate mossy fiber-CA3 projection in the brain-derived neurotrophic factor enriched mouse hippocampus. *Neuroscience* 288:10-23
- McDole B, **Isgor C**, Pare C, Guthrie K. (2016) BDNF over-expression increases olfactory bulb granule cell dendritic spine density in vivo. *Neuroscience* 304:146-60
- Isgor C**, Aydin C, Oztan O, Libreros S, Iragavarapu-Charyulu V. (2020) Inter-individual differences in immune profiles of outbred rats screened for an emotional reactivity phenotype. *J Neuroimmunol* 347:577349

Tyulmenkova A, Zwick Amanda, Dillon Tashi, **Isgor, C.** (2023) Progressive generalized tonic-clonic seizures in a transgenic mouse model of adult-onset epilepsy: implications for morphological changes in cortico-limbic and brainstem structures *Epilepsy Research* August 194:107178

Stubbs Vanessa C, Tyulmenkova A, Labrador Pino J, **Isgor C** Altered dendritic and axonal maturation of adult-born hippocampal granule neurons in a transgenic mouse model of adult-onset, progressive epilepsy. *Hippocampus* (in preparation)

Tyulmenkova A, Labrador Pino J, Dillon Tashi, **Isgor C.** Temporal ontogeny of epileptogenesis as measured by video/cortical EEG parameters in a transgenic mouse model of progressive, adult-onset epilepsy. *Epilepsia* (in preparation).

Scientific Affiliations

2015-present	Member, American Epilepsy Society
2014-present	Member, Sigma Xi, The Scientific Research Society
1994-present	Member, Society for Neuroscience
1993-present	Member, American Psychological Society
1993-present	Member, American Psychological Association

References

Stanley J. Watson, Jr. M.D., Ph.D., Co-Director and Research Professor
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The University of Michigan
Molecular and Behavioral Neuroscience Institute
President of the Society for Neuroscience, 2002
Gardner C. Quarten Professor of Neurosciences
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Professor, Department of Family & Community Medicine
School of Medicine
University of New Mexico Health Sciences
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BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Iwamoto, Hideki

eRA COMMONS USER NAME (credential, e.g., agency login): Iwamoth

POSITION TITLE: Research Associate Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Toin University of Yokohama, Yokohama, Japan	B.S.	03/1993	Material Science
Toin University of Yokohama, Yokohama, Japan	Ph.D.	03/1998	Material Sciences
University of Virginia, Charlottesville, VA	Postdoc	10/2022	Physiology & Biophysics

A. Personal Statement

My role on the project is to examine synaptic transmission in Alzheimer's disease mouse model. I have nearly two decades of experiences in electrophysiology, ranging from single-channel recordings and two-electrode voltage clamp analysis of transporters in reconstituted systems to whole-cell patch clamp and field potential recordings and fast scan cyclic voltammetry. I am also experienced in the use of *in vitro* brain slice recording methods needed to achieve the goals of the project. Recently I also have developed experience with fiber photometry and optogenetics, which are very powerful techniques used to monitor and manipulate neuronal activity in behaving animals. I have used such approaches to examine neuron excitability and its regulation in studies of multiple transgenic mouse lines produced by the Zhang lab.

B. Positions, Scientific Appointments, and Honors

2016-present Research Associate Professor, Department of Biomedical Science, FAU Brain Institute, Florida Atlantic University

2012-2016 Physiology and Behavior Core Associate, Silvio O. Conte Center for Neuroscience Research, Vanderbilt University

2009-2016 Research Assistant Professor, Department of Pharmacology, Vanderbilt University

2009-2011 Visiting Scientist, Department of Biological Science, Dr. Douglas G. McMahon lab, Vanderbilt University

2008-2009 Research Assistant Professor, Department of Physiology and Biophysics, Virginia Commonwealth University

2006-2008 Instructor, Department of Pharmacology, Vanderbilt University

2002-2006 Research Associate, Department of Pharmacology, Vanderbilt University

C. Contributions to Science

1. My early scientific interest is a direct observation (and manipulation) of single molecule's structural changes under physiological environment at subnano-meter resolution. Because imaging principle of scanning probe microscopy (atomic force microscopy and scanning tunneling microscopy) and near-field scanning microscopy is not limited by Abbe's diffraction law, in principle, it is possible to observe structural differences of membrane proteins, amino acid or DNA sequences without any purification, crystallization, or staining process. I applied the scanning probe microscope to biological samples and developed new methodology to improve the spatial resolution.

- a. **Iwamoto, H.** & Wakayama, N. (1997). Atomic force microscopy studies of erythrocyte membranes immobilized by centrifugation under aqueous conditions. *Japanese Journal of Applied Physics*, 36, 3872-3876.
 - b. Mannelquist, A., **Iwamoto, H.**, Szabo, G., & Shao, Z. (2001). Near field optical microscopy with a vibrating probe in aqueous solution. *Applied Physics Letter*, 78, 2076-2078.
 - c. Pastre, D., **Iwamoto, H.**, Liu, J., Szabo, G., & Shao, Z. (2001). Characterization of AC mode scanning ion conductance microscopy. *Ultramicroscopy*, 90, 13-19.
 - d. **Iwamoto, H.**, Sheng, S., Cao, J., Szabo, G., & Shao, Z. (2006). Single molecule force spectroscopy with a micropipette. *Journal of Scanning Probe Microscopy*, 1, 32-38.
2. Gram-negative bacterium *Helicobacter pylori* is found in the stomach of a person with chronic gastritis and gastric ulcers and is linked to the development of duodenal ulcers and stomach cancer. One of the primary virulence factors secreted by *H. pylori* is Vacuolating toxin A (VacA). The molecular mechanisms by which VacA causes cell vacuolation were largely unknown. In collaboration with Dr. Tim Cover at Vanderbilt, I discovered VacA is low-pH activated pore-forming toxin channel using single channel recording technique in planar lipid bilayers. The single channel recordings revealed low ion conductance and weak anion selectivity of the toxin channels, which contributes to formation of the vacuoles. My discovery of the channel forming properties of VacA would lead to new therapy of gastric ulcers.
 - a. Czajkowsky, D.M., **Iwamoto, H.**, Cover, T.L., & Shao, Z. (1999). The vacuolation toxin from *Helicobacter pylori* forms hexameric pores in lipid bilayers at low pH. *Proceedings of the National Academy of Sciences of the United States*, 96, 2001-2006.
 - b. **Iwamoto, H.**, Czajkowsky, D.M., Cover, T.L., Szabo, G., & Shao, Z. (1999). VacA from *Helicobacter pylori*: a Hexameric chloride channel, *FEBS letter*, 450, 101-104.
 - c. McClain, M.S., **Iwamoto, H.**, Cao, P., Vinion-Dubiel, A.D., Li, Y., Szabo, G., Shao, Z., & Cover, T.L. (2003). Essential role of GXXXG motif for membrane channel formation by *Helicobacter pylori* vacuolating toxin. *Journal of Biological Chemistry*, 278, 12101-12108.
 - d. **Iwamoto, H.**, Czajkowsky, D.M., Szabo, G., Cover, T.L., & Shao, Z. (2005). Mimicry of a host anion channel by *Helicobacter pylori* pore-forming toxin. *Biophysical Journal*, 89, 3093-3101.
3. Presynaptic high-affinity choline transporter (CHT) is a rate-limiting step for neurotransmitter acetylcholine synthesis and release. Impairment of the CHT causes congenital myasthenic syndrome with episodic apnea, distal hereditary motor neuropathies, atherosclerosis, attention-deficit hyperactivity disorder, and depression. I characterized the biophysical property of the CHT in *Xenopus* oocyte expression system and overexpressing mouse model. Two-electrode voltage-clamp experiments revealed CHT exhibited an electrogenic property similar to other neurotransmitter transporters such as serotonin transporter and dopamine transporter. Slice release studies revealed overexpression of CHT protein increased acetylcholine release from reserve pool of synaptic vesicles. These fundamental characterizations of CHT may lead to new treatments for cholinergic associated disorders.
 - a. **Iwamoto, H.**, Blakely, R.D. & DeFelice, L.J. (2006). Na⁺, Cl⁻ and pH dependence of human choline transporter in *Xenopus* oocytes: the proton inactivation hypothesis of hCHT in synaptic vesicles. *Journal of Neuroscience*, 26, 9851-9859.
 - b. Ruggiero, A.M., Wright, J., Ferguson, S.M., Lewis, M., Emerson, K.S., **Iwamoto, H.**, Ivy, M.T., Holmstrand, E.C., Ennis, E.A., Weaver, C.D. & Blakely, R.D. (2012). Noniotopic assay for the presynaptic choline transporter reveals capacity for allosteric modulation of choline uptake. *ACS Chemical Neuroscience*, 17, 767-781.
 - c. **Iwamoto, H.**, Calcutt, M.W. & Blakely, R.D. (2016). Differential impact of genetically modulated choline transporter expression on the release of endogenous versus newly synthesized acetylcholine. *Neurochemistry International*, 98, 138-145.
4. Serotonin transporter (SERT) is a key membrane protein that terminates serotonergic transmission. SERT is a major target of antidepressant/drug abuse and is associated with mood disorders such as depression and anxiety. Understanding of molecular properties of SERT and its physical localization in neurons are very important for development of novel medication. I have participated in several projects using SERT expressing

Xenopus oocytes two-electrode voltage-clamp techniques to evaluate newly developed fluorescent ligands for SERT and to characterize function of strategically mutated SERT variants.

- a. Tomlinson, I.D. Chang, J., **Iwamoto, H.**, DeFelice, L.J., Blakely, R.D. & Rosenthal, S.J. (2008). Targeting the human serotonin transporter (hSERT) with quantum dots. *Proceedings of SPIE*, 6866, 68660X.
 - b. Tomlinson, I.D., **Iwamoto, H.**, Blakely, R.D. & Rosenthal, S.J. (2011). Biotin tethered homotryptamine derivatives: high affinity probes of the human serotonin transporter (hSERT). *Bioorganic & Medicinal Chemistry Letters*, 21. 1678-1682.
 - c. Chang, J.C., Tomlinson, I.D., Wamement, M.R., **Iwamoto, H.**, DeFelice, L.J., Blakely, R.D. & Rosenthal, S.J. (2011). A fluorescence displacement assay for antidepressant drug discovery based on ligand-conjugated quantum dots. *Journal of American Chemical Society*, 133. 17528-17531.
 - d. Henry, L.K., **Iwamoto, H.**, Field, J.R., Kaufman, K., Dawson, E.S., Jacobs, M.T., Adams, C., Felts, B., Zdravkovic, I., Armstrong, V., Combs, S., Solis, E., Rudnick, G., Noskov, S.Y., DeFelice, L.J., Meiler, J. & Blakely, R.D. (2011). A conserved asparagine residue in TM1 of the serotonin transporter dictates chloride-coupled neurotransmitter transport. *Journal of Biological Chemistry*, 286. 30823-30836.
5. In recent years, my interest is shifted toward understanding how behaviors, emotion and memory are altered by psychiatric disorders. Using genetic mouse model, I have investigated the impact of genetic/environmental perturbations of serotonergic signaling using mouse brain slice recording methods. These studies revealed dysfunction/disregulation of serotonin transporter altered excitability of raphe neurons and 5HT receptor sensitivity. I have also extended my research to collaborative studies with the Quan lab at Max Planck/Johns Hopkins, the Martemyanov lab at Scripps Research, and the Toll lab at FAU.
- a. Veenstra-VanderWeele, J., Muller, C.L., **Iwamoto, H.**, Sauer J.E., Owens, W.A., Ye, R., Kerr, T.M., Carneiro, A.M., Crawley, J.N., Sanders-Bush, E., McMahon, D.G., Ramamoorthy, S., Daws, L.C., Sutcliffe, J.S. & Blakely, R.D. (2012). Autism gene variant causes hyperserotonemia, serotonin receptor hypersensitivity, social impairment and repetitive behavior. *Proceedings of the National Academy of Sciences of the United States*, 109. 5469-5474.
 - b. **Iwamoto, H.**, Veenstra-VanderWeele, J. & Blakely, R.D. (2014). Altered basolateral amygdala reactivity in the SERT Ala56 genetic mouse model of autism spectrum disorder. *ACPN 53rd Annual meeting*, Phoenix, AZ.
 - c. Ye, R., Quinlan, M.A., **Iwamoto, H.**, Wu, H.H., Green, N.H., Jetter, C.S., McMahon, D.G., Veenstra-VanderWeele, J., Levitt, P.R. & Blakely, R.D. (2015). Physical interactions and functional relationships of Neuroligin 2 and midbrain serotonin transporters. *Frontiers in Neuroscience*, 7. 1-17.
 - d. B.S Muntean, S. Zucca, C.M. MacMullen, M.T. Dao, C. Johnston, **H. Iwamoto**, R.D. Blakely, R.L. Davis, and K.A. Martemyanov, Interrogating the spatiotemporal landscape of neuromodulatory GPCR signaling by real-time imaging of cAMP in intact neurons and circuits. *Cell Rep.*, (2018) 22:255-268.

CURRICULUM VITAE

Mario Jacomino, MD, MPH
Associate Professor of Integrated Medical Science
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Education:

MPH	University of South Florida, Tampa, FL	December, 1999
MD	Ponce School of Medicine, Ponce, PR	May, 1988
BS	University of Puerto Rico, San Juan, PR	May, 1984

Post-Graduate Education:

Public Health Leadership Institute of Florida University of South Florida, Tampa, FL	June 2006- July 2007
Public Health/Preventive Medicine Residency Palm Beach County Health Department, West Palm Beach, FL	July 1, 1999 - June 30, 2000
Pediatric Gastroenterology and Nutrition Fellowship Baylor College of Medicine, Houston, TX	July 1, 1992 - June 30, 1995
General Pediatrics Residency University of Florida, Jacksonville, FL	July 1, 1989 - June 30, 1992
Surgical and Anatomical Pathology Internship University of Florida, Jacksonville, FL	July 1, 1988 - June 30, 1989

Medical License:

Florida, expires January 31, 2024

Work Experience:

Professor of Pediatrics	Florida Atlantic University Charles E. Schmidt College of Medicine July 2023 – present

Associate Professor
of Integrated Medical Science Florida Atlantic University
Charles E. Schmidt College of Medicine
July 2016 – June 2023

Clinical Assistant Professor
of Integrated Medical Science Florida Atlantic University
Charles E. Schmidt College of Medicine
November 1, 2010 - June 2016

Center Medical Director Florida Department of Health
Palm Beach County Health Department
Lantana and Delray Beach, FL
September 29, 2000 – October 31, 2010

Senior Physician Florida Department of Health
Palm Beach County Health Department
West Palm Beach, FL
January 16, 1996 - September 28, 2000

Instructor Baylor College of Medicine
Houston, TX
Department of Pediatrics
July 1995 - December 1995

Additional Professional Experience:

Clinical Assistant Professor Nova-Southeastern University
School of Osteopathic Medicine, Davie, FL
Department of Pediatrics
January 2004 - December 2010

Consultant Pan American Health/ World Health Organization
Washington DC
October 1999 – November 2010

Pediatrician/Volunteer Caridad Health Clinic
Boynton Beach, FL
January 1999 - present

Clinical Assistant Professor Nova-Southeastern University
School of Osteopathic Medicine, Davie, FL
Department of Pediatrics
June 1996 - June 1999

Chief Resident University of Florida, Jacksonville, FL

Department of Pediatrics
January 1, 1992 - June 30, 1992

Grants and Contracts:

- Florida Blue Foundation, Build Healthy, Strong Communities Project/Program Grant - \$10,000 (January 2017- May 2017)
- Quantum Foundation, Community Health Center Research and Service Partnership - \$500,000.00 for 2 years (November 2013 - October 2015)
- Quantum Foundation, Community Health Center Research and Service Partnership - \$150,000.00 for 2 years (October 1, 2011 – December 31/2012)
- National Health Service Corps, Loan Repayment Program (February 21, 1996 - February 20, 1998)
- NIH Training Grant T32 DK 07664-03(04) (July 1, 1993 - June 30, 1995)

Additional Skills:

Fluent in both English and Spanish

Editorial Board Appointments

- Cureus Journal of Medical Science 2020-Present
- American Association of Medical Colleges: MedEd Portal – Peer Reviewer 2017 - Present

Committee Assignments and Administrative Services

- Senior Director for the Pathway Programs, 2022- present
- Medical Spanish Standardized Curriculum Study. As part of the national study, a research team is currently developing and investigating medical Spanish proficiency assessment. As a recognized Medical Spanish faculty educator at the national level, I was invited to participate for the assessment exam, 2021-2022
- Member, Florida Clinical Skills Collaborative (FCSC) Consortium. Representatives from all 10 medical schools (8 MD and 2 DO medical schools) have come together to chart a common regional path forward after the discontinuation of the USMLE Step 2 Clinical Skills exam. 2021- present
- Diversity, Inclusion, Equity, and Culture (DICE) Inventory 2022
- Director of BS/MD at FAU-COM, 2021- present
- Faculty Director, The Marcus Integrative Health Educational Initiative Health Fairs 2020-present

- IMSD Search Committees (FOM Course Director, Pharmacologist, CPM Clerkship Director, Health Equity Thread Director) 2021-22
- IMSD Promotions & Tenure Guidelines – 2020 - present
- College of Medicine Admissions Committee 2020- present
- IMSD Search Committees (FOM Course Director, Pharmacologist, CPM Clerkship Director, Health Equity Thread Director) 2021-22
- Workgroup for Year 3 S&T transition for 2021-2022
- FOM 1, FOM 2, FOM 3 and FOM 4 grading committees 2018- present
- Year 3 Ob/Gyn grading committee 2018-present
- IMSD Search Committees (Assistant Dean for Medical Education, Medical Educator/Communication Thread Director) 2019-2020
- Council of Florida Medical Schools Deans (CFMSD) Pain Management Group
<https://com-jax-emergency-pami.sites.medinfo.ufl.edu/wordpress/files/2019/01/Medical-School-Pain-and-Opioid-Curriculum-Framework-8-31-18.pdf>
- Competency Director for Patient Care competency supporting medical students that have deficiencies in this competencies and provided practice sessions for medical students and reporting findings to SCRC to help students that need guidance/support and avoid further deficiencies and a referral to MSPPSC, 2016-present.
- Student Competency Review Committee 2016- present
- IMSD Faculty Review Advisory Committee 2016- present
- FAU Office of Interprofessional Education and Practice, Associate Director 2011-present
- LCME Steering Committee – Community Engagement subcommittee 2011-2012 (Provisional Accreditation), 2013-2014 (Full Accreditation); 2017-2018 (Reaccreditation)
- Curriculum Integration and Program Evaluation Subcommittee (CIPEC) 2006 - present
- Medical Student Promotions and Professional Standards Committee (MSPPSC) 2011-2019
- College of Medicine Curriculum Committee (COMCC) 2010-present
- Pediatric Interest group, faculty advisor 2011- present
- Medical Spanish Interest group, faculty advisor 2011-present
- Project RISHI (Rural India Social and Health Improvement), faculty advisor 2021- present

Educational Activities

Teaching

- Co-director Post-Baccalaureate program – 2020 - 2024
- Developed and implemented two integrated sessions (Pediatric/Psychiatry and Pediatric/Ob-Gyn) for Year 3 students on Tuesday afternoon sessions called Doctors rounds during Academic Half Day. 2019 - 2024
- Master of Biomedical Science: Prepare three lectures/sessions as per the schedule of the Biomedical Concepts and Translation Application course (PCB6933) and

- score questions completed by the students in the open book exam that is part of the assessment of the course. 2019 - 2024
- Leadership role in the FAU Office of IPE and Practice planning, preparing and implementing new IPE activities from Year 1 to 4 and including Year 3 IPE Sim Center (16 sessions) with the introduction of telehealth and Year 4 Mock page activity in TTR course (1 session). The activities were moved to an online format due to COVID-19. I am also in the process of developing an international Interprofessional Service Learning Project with faculty from FAU Nursing and Social Work to have students for the three professions attend the activity in conjunction with their counterpart students at the University of Quindio in Quindio, Colombia in the summer of 2023. 2011- Present.
 - Since I was hired at FAU- COM, I have been involved in developing the curriculum for the Foundations of Medicine (FOM) courses. I was one of two course directors for the FOM courses, which are clinical course given to medical students in Year 1 and 2 of medical school. The goal of the courses is to teach the medical students the skills, behaviors, knowledge and attitudes to prepare them to be a competent and compassionate physician. During my time as a co-course director of the FOM courses, I prepared and gave many lectures, facilitated many small group sessions and multiple Simulation Center activities/discussions. Since 2014, I also organize/oversee the standardized patient at FAU-COM.
 - Stop the Bleed was included as part of the orientation period of every medical student at FAU-COM, 2018 - present
 - Facilitator, Synthesis and Transition Course: Inquiry Group (IQ), Charles E. Schmidt 2018-present
 - Immunization Lecture in PT4 2013- present
 - In the GI module course, 2012-present:
 - Embryology of the GI tract
 - Child Nutrition
 - CNS Infections in Neuro-Science and Behavior course, 2012-present
 - Foundations of Medicine course lectures and Small group discussion, 2015 - present:
 - “Working with Interpreters”
 - “Environmental Health”
 - “Communicating with Pediatric patients and their caretakers”
 - “Discussing Abuse”
 - “Abdominal exam”
 - “Child Development”

Curriculum and Educational Materials

- Researched, developed, implemented, and led many activities in the FOM courses and Simulations Center including syllabus, schedule, session plans, benchmarks, 2011 - present
- Educational materials that I developed in the FOM courses were utilized by Dr. Joanna Drowos when she went to Capital Medical University in Beijing, China in spring 2017 to provide continuing education for the country's best 40 general practice doctors.

Mentoring and recommendations:

Guided/mentored and nominated faculty and students to receive awards and recognition for their work and to increase FAU-COM visibility and reputation.

- Jonah Vest, MS4, the Dr. Daniel B. Newell and Aurel B. Newell Doctoral Fellowship in 2024 (\$5000).
- Julia Prakash, MS4, received the Graduate Fellowship for Academic Excellence in 2024. (\$5000)
- Alexandra Garcia, MS4, was presented with the Delores A. Auzenne Fellowship in 2024 (\$5000).
- Jordyn Lee - FAU The Dr. Daniel B. Newell & Aurel B. Newell Doctoral Fellowship in 2023 (\$5,000)
- Ivan Grela – FAU Graduate Diversity Fellowship in 2023 (\$2,500)
- Hannah Levine – FAU Graduate Fellowship for Academic Excellence in 2023 (\$5000)
- Dalina Laffitta, MS4 – NBME-NMF Scholarship Fund 2023
- Oghosa Urhoghide – FAU Delores A. Auzenne Fellowship in 2023 (\$5000)
- AMA Physicians of Tomorrow 2023:
 - Dalina Laffita – DREAM MD Equity scholarship
 - Melisa Rodrigues-Suliman – Underrepresented in Medicine
 - Maral Darya – David John Peck, MD for Health Equity
 - Keren Fishman - Herman E. Diskin, MD Memorial
 - Sarvika Bommakanti - AMA Alliance Grassroots
 - Stephanie Salgueiro – General Scholarship
 - Brandon Knopp – General Scholarship
- Dalina Laffita – Hispanic Scholarship Fund 2023
- From Palm Beach County Heroes in Medicine Awards 2023
 - Physician Hero – Dr. J. Pilitsis
 - Bruce Rendina Profession Hero – Dr. Adam Wyatt
 - Community Hero - Marcus Integrative Health at FAU College of Medicine
 - Medical Student Hero – Elisha Myers and Dalina Laffita
- Feyikemi Ogunfuwa, MS4 – NBME/NMF Scholarship Fund 2023
- Feyikemi Ogunfuwa, MS4 – NMF Dr. William Merrill Scholarship 2023
- Oghosa Urhoghide, MS4 – NMF Dr. Prentiss Taylor Scholarship 2023
- Melisa Rodriguez Suliman, MS3 – Delores A. Auzenne Fellowship 2022 (\$5,000)
- Stephanie Byun, MS4 – Daniel B. Newell & Aurel B. Newell Fellowship 2022 (\$5,000)
- Dr. Joseph Ouslander – FAU President’s Leadership Award 2022
- Alicia Rootes, MBA – Gabor Exemplary Employee Award 2022
- Zaimary Meneses, MS3 - FAU Graduate Diversity Fellowship 2021 (\$2,500)
- Monica Espinosa, MS3 - Delores A. Auzenne Fellowship from FAU 2021.
- Stephanie Byun, MS3 – FAU Graduate Fellowship of Academic Excellence, 2021

- From 2021 AMA Physicians of Tomorrow Scholarship
 - Christopher Galvin – David Jones Peck, MD Scholarship for Health Equity (\$10,000)
 - Tofunmi Oshodi – Underrepresented in Medicine category (\$10,000)
 - Brooke Rothberg – AMA Alliance Grassroots Physicians of Tomorrow Scholarship
 - Laritza Diaz – Dream MD Equity Scholarship
- Sa’Rah McNeely, MS3 - 2021 United Health Louis Stokes Health Scholarship
- Sa’Rah McNeely, MS3 – National Health Service Corps, 2021
- Dalina Lafitta, MS2 – Paul and Daisy Soros Fellowship for New Americans 2021
- Whitney Winslow, MS3 nominated and received the 2020 Vertical Bridge Charitable Network Scholarship. (\$2,500)
- Tofunmi Oshodi, MS3 nominated and received the FAU Graduate Diversity Fellowship, 2020. (\$2,500)
- Corina Lopez, MS4 nominated to the prominent National Alumni Council Scholarship from the National Medical Fellowship (NMF), 2020.
- Hanna Mielke-Maday, MS3 was awarded 2nd place in the Arts, Education, and Social Sciences Division and a \$500 dollars scholarship for her poster titled “Medical Student Attitudes Toward Substance Use Disorder Across The Undergraduate Medical Education” that was submitted to FAU’s 11th Annual Graduate and Professional Student Association (GPSA) Research Day, 2020
- Jay Meyer, MD, Affiliate Clinical Instructor at FAU Clinical Skills Simulation Center, 2020
- Tofunmi Oshodi, MS3 – nominated to NMF Emerging Scholars Award for 2020-2021.
- From Palm Beach County Heroes in Medicine Awards 2021:
 - Alicia Rootes, MBA – Bruce Rendina Professional Hero
 - Jennifer Caceres, MD – Tulisa Larocca, MD Leadership Hero
 - Joseph Ouslander, MD – Health Care Innovation Hero
 - Bianca Biglione, MS3 – Medical Student Community Hero
- Christine Adams, MS4 – nominated to Dr. William Lascheid Memorial Medical School Scholarship, 2020.
- Bianca Biglione, MS3 - nominated and received the Delores A. Auzenne Fellowship, 2020. (\$5,000)
- Zaimary Meneses, MS2 – nominated to Paul and Daisy Soros Fellowship for New Americans, 2020
- Tofunmi Oshodi, MS3 – Josiah Macy, Jr. Foundation Fellowship, 2020
- Laritza Diaz, MS3 – nominated to Josiah Macy Jr. Foundation Fellowship in 2020 and also nominated to Dr. Prentiss Taylor Scholarship, 2020
- Sabina Fridman, MS2 – Kaiser Southern Ca Oliver Goldsmith, MD, 2020
- From Palm Beach County Heroes in Medicine Awards 2020:
 - George Luck, MD – Health Care Educator Hero

- From 2020- 2021 AMA Physicians of Tomorrow Scholarship
 - Christopher Galvin, MS3 – David Jones Peck, MD Scholarship for Health Equity category
 - Tofunmi Oshodi, MS3 – Underrepresented in Medicine category
 - Brooke Rothberg, MS3 – AMA Alliance Grassroots Physicians of Tomorrow Scholarship category
 - Laritza Diaz, MS3 – Dream MD Equity Scholarship category
- Whitney Winslow, MS3 - 2019 Vertical Bridge Charitable Network Scholarship. (\$2,500)
- Anthony Campbell, MS4 received the prominent National Alumni Council Scholarship from the National Medical Fellowship (NMF), 2019. (\$5,000)
- Sa’Rah McNeely, MS3, was selected to participate in the American Society of Hematology (ASH) Minority Medical Student Award Program (MMSAP), 2020
- Erinn J. Afflick, MD, Affiliate Instructor at FAU Clinical Skills Simulation Center. Dr. Afflick was accepted to pursue a residency in Family Medicine at Tidelands Health Clinic in Myrtle Beach, South Carolina starting July 1, 2020
- From Palm Beach County Heroes in Medicine Awards 2019:
 - Pediatric Interest Group – Community Organization Hero
 - Mary Labanowski – Health Care Educator Hero
 - Dr. Jo Ann Bamdas – Bruce Rendina Professional Hero
 - Rachel Silverberg, MS3 – Medical Student Community Hero
- From Palm Beach County Heroes in Medicine Awards 2018:
 - Mark Goldstein – Bruce Rendina Professional Hero

Awards:

- Outstanding Simulation Center Instructor
FAU Charles E. Schmidt College of Medicine, October 2022
- University Faculty Service Award 2020-2021. This award is given to a Florida Atlantic University faculty in Recognition for Outstanding Service to the Community, April 2021
- Michael L. Friedland, MD Educational Award. The award is presented to a FAU Charles E. Schmidt College of Medicine faculty who epitomizes the attributes of Dr. Friedland: **Integrity, Vision, Leadership and Dedication**, February 2020
- Outstanding Simulation Center Instructor
FAU Charles E. Schmidt College of Medicine, October 2019
- Heroes in Medicine, Community Outreach Wellness Prevention Hero Award
Palm Beach County Medical Society, May 2019

- C.L. Brumback Award to Pediatric Interest Group
Florida Department of Health Palm Beach County, April 2016
- Gold Humanism Honor Society
FAU Charles E. Schmidt College of Medicine, May 2014
- Heroes in Medicine, Health Care Educator
Palm Beach County Medical Society, May 2014
- 2013 Outstanding Course Director
FAU Charles E. Schmidt University College of Medicine, February 2014
- Outstanding Contribution to Community Service Award, Pediatric Interest Group,
FAU Charles E. Schmidt College of Medicine, August 2013
- Graduate Professional Student Association, Organization Advisor of the year,
Florida Atlantic University, November 2012
- Outstanding Contribution to Community Service Award, Pediatric Interest Group,
Florida Atlantic University College of Medicine, May 2012
- The President's Outstanding Service Award
Caridad Clinic, Boynton Beach, FL, March 2009
- One Child at a Time Award, West Palm Beach, FL, March 2008
- Employee of the Quarter, Delray Beach, FL, March 2006
- Richard G. Skinner, Jr. Award, Jacksonville, FL, June 1992
- Emergency Department Award, Jacksonville, FL, June 1991
- Most Outstanding First Year Pediatric Resident Award
Jacksonville, FL, June 1990

Publications:

1. Knopf E, Leidy L, Peters D, Luck, **Jacomino M.** (July 01, 2025) Social Media Policies in U.S. Medical Education: An Analysis of Content, Consistency, and Gaps. Cureus 17(7): e87134. doi:10.7759/cureus.87134
2. Castro K, Bamdas J M, Ortega M D, **Jacomino M.** (March 20, 2025) Identifying Exercise Interventions That May Slow the Progression of Cognitive Decline in Older Adults with Mild Cognitive Impairment: A Scoping Review. Cureus 17(3): e80895. doi:10.7759/cureus.80895

3. Sohmer J S, Fridman S, Peters D, **Jacomino M**, Luck G. (January 05, 2025) Winning the Lottery: A Simulation Study Comparing Scarce Resource Allocation Protocols in Crisis Scenarios. *Cureus* 17(1): e76977. doi:10.7759/cureus.76977
4. Bautista, A., **Jacomino, M.**, Peters, D., Fridman, S., & Luck, G. (2024). Rest in Peace or in Pieces: Post-Mortem Care Options in U.S. Advance Directives. *Journal of Applied Gerontology*, 0(0). <https://doi.org/10.1177/07334648241282817>
5. George R Luck, Adriana Bautista, Darian Peters, Jennifer Attonito, Sabina Fridman, Joshua Sohmer, **Mario Jacomino**. Advance Directives Revisited (2002 vs. 2023): Are We Closer to Uniformity? *The Gerontologist*, 2024; gnae103, <https://doi.org/10.1093/geront/gnae103>
6. Arthur Pavlovsky, Camryn R. Marshall, Samantha Braud, Everett J. Kim, **Mario Jacomino** (July 19, 2024). Chromosomal 1p Duplication in a Pediatric Patient: A Case Report. *Cureus* 16(7): e64911. doi:10.7759/cureus.64911
7. Lee J E, Murchison K, Hassanein L, Peters D, **Jacomino M**, Luck G. (April 01, 2024) Trends in HIV-Related Services Offered by Substance Abuse Treatment Facilities. *Cureus* 16(4): e57400. doi:10.7759/cureus.57400
8. Suragarn, U., Luck, G. R., Goldstein, M., **Jacomino, M.**, & Pfaff, G. (2023). Simulation-Based Training for interprofessional and patient-centered communication skills: A Community-Based Approach for nursing and medical students. *Health Workforce Education Journal*, 1(1), 23–35. <https://he02.tci-thaijo.org/index.php/hwej/article/view/253548>
9. Luck G, Eggenberger TL, Bautista A, Peters D, Mellman RT, Keller KB and **Jacomino M**. Fearing Pain at the End of Life: A Review of Advance Directives. *American Journal of Hospice and Palliative Medicine*®. 2023;0(0). doi:[10.1177/10499091231190063](https://doi.org/10.1177/10499091231190063)
10. Toonkel R, Castiglioni A, Danforth D, et al. (November 08, 2022). The Florida Clinical Skills Collaborative: A New Regional Consortium for the Assessment of Clinical Skills. *Cureus* 14(11): e31263. doi:10.7759/cureus.31263
11. Peter Averkiou, Lisa C. Martinez and Mario Jacomino. Interviewing Teen Parents: Simulated Patient Experience for Clinical Education and Outreach. *Cureus* 14(11): e31149. doi:10.7759/cureus.31149 (November 06, 2022)
12. Jo Ann M. Bamdas, Peter Averkiou, **Mario Jacomino**. Service-Learning Programs and Projects for Medical Students Engaged with the Community. *Cureus* 2022 June 24; 14(6):e26279 (June 2022) <https://pubmed.ncbi.nlm.nih.gov/35898383/>
13. Nadia K. Sial, **Mario Jacomino**, Hila Miskin, Katherine Freeman, Todd Blum, Carly Blum, Alan Whiteman, Kevin Root, Alana Kosches, and George R. Luck.

- The Impact of COVID-19 on Completion of Advance Directives in Healthcare Workers in the United States. The Journal of Medical Practice Management. www.physicianleaders.org January/February 2022.
- a. http://digitaleditions.sheridan.com/publication/?m=63524&i=736391&view=articleBrowser&article_id=4202268&ver=html5
14. Jennifer Attonito, Whitney Van Arsdale, Keren Fishman, Maral Darya, **Mario Jacomino**, and George Luck. Sociodemographic Disparities in Access to COVID-19 vaccines Upon Initial Rollout in Florida. Health Affairs 2021, Vol. 40, No. 12 <https://doi.org/10.1377/hlthaff.2021.01055>
 15. Amanda M. Marsh, Whitney Winslow, Jordyn Cohen, Slee Yi, **Mario Jacomino**, George R. Luck, Robert Moreland, and Lawrence Lottenberg. Student Perspectives on Implementing Stop the Bleed Training into Medical School Curriculum. The American Surgeon (2021): p.313482110508–31348211050829
 - a. <https://doi.org/10.1177/00031348211050829>
 16. Nadia Sial, **Mario Jacomino**, Todd Blum, Carly Blum, Alan Whiteman, Deirdre Sommerlad-Rogers, and George Luck. COVID-19 Vaccine Acceptance Among the General Public in the United States. The Journal of Medical Practice Management. www.physicianleaders.org September/October 2021.
 - a. http://digitaleditions.sheridan.com/publication/?m=63524&i=722377&view=articleBrowser&article_id=4119998&ver=html5
 17. Lisa C. Martinez, **Mario Jacomino**, and Peter Averkiou. Introduction to Telemedicine for Pre-Clerkship Students Using Standardized Patients. Association of American Medical College. i Collaborative. April 3, 2020 <https://icollaborative.aamc.org/resource/5059/>
 18. Joanna Drowos, **Mario Jacomino**, Mark J. Di Corcia, Lee A. Learman. Using a Donor-Centered Development Model to Engage Community Preceptors. SOCIETY OF TEACHERS OF FAMILY MEDICINE MESSENGER: Education Column, August 2016. <https://www.stfm.org/publicationsresearch/publications/educationcolumns/2016/august/>
 19. **Mario Jacomino**, Jo Ann M. Bamdas, Kathryn Keller, Elwood Hamlin, Michele Hawkins, Shirley Gordon. An innovative interprofessional education program for university medical, nursing, and social work students learning in teams during sessions and visits with geriatric mentors. Journal of Interprofessional Education and Practice. 100-103 (2015). DOI:[10.1016/j.xjep.2015.10.003](https://doi.org/10.1016/j.xjep.2015.10.003)
 20. **Mario Jacomino**, Pramila Shukla and Susan J. Henning: Use of amphotropic vectors for gene transfer in human colon carcinoma cells. Human Gene Therapy. 8: 835 – 841 (May 1997).
 - a. Published Online: 20 Mar 2008 <https://doi.org/10.1089/hum.1997.8.7-835>

21. **Mario Jacomino**, Chantal Lau, Sylvia Z. James, Pramila Shukla and Susan J Henning: Gene transfer into fetal rat intestine. Human Gene Therapy. 7: 1757 - 1762 (September 1996)
a. Published Online: 20 Mar 2008 <https://doi.org/10.1089/hum.1996.7.14-1757>
22. James W. Sandberg, Chantal Lau, **Mario Jacomino**, Milton Finegold and Susan J. Henning: Improving access to intestinal stem cells as a step toward intestinal gene transfer. Human Gene Therapy. 5: 323 - 329 (March 1994)
a. Published Online: 19 Mar 2008 <https://doi.org/10.1089/hum.1994.5.3-323>

Abstracts:

Savita Kumar, Mario Jacomino: Varicella Surveillance/Control for Palm Beach County, FL 1999-2000. 34th National Immunization Conference, Washington, DC (2000)

Mario Jacomino, Chantal Lau, Pramila Shukla, Sylvia Z. James and Susan J. Henning: Gene transfer into fetal rat intestine using a grafting strategy. JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION vol. 21 No 3: A82 p 344 (1995)

Mario Jacomino, Pramila Shukla and Susan J. Henning: A human in vitro model for intestinal gene transfer. GASTROENTEROLOGY Vol. 108: A293 (1995)

Presentations at Meetings:

Sohmer J, Fridman S, Haff C, Jacomino M, Luck GR. Ventilator lottery: Who will win the next pandemic? Poster presented at: Forging Paths to Achieve Health Equity. Inaugural Baptist Health Academic Conference. 2023 Apr 19; virtual.

Lahiri S, Sacca L, Jacomino M, Forouhi M, Vartany C, Luck GR. Using the theory of planned behavior to predict HPV vaccination intentions and HPV vaccine completion rates among medical college students: A cross-sectional study. Poster presented at: Forging Paths to Achieve Health Equity. Inaugural Baptist Health Academic Conference. 2023 Apr 19; virtual.

Elshaer Z, Mellman R, Al Abdul Razzak L, Marciniak A, Castro M, Bautista A, Jacomino, M, Luck GR. Fearing pain at the end of Life: An unrecognized deficit in advance directives. Poster presented at: Forging Paths to Achieve Health Equity. Inaugural Baptist Health Academic Conference. 2023 Apr 19; virtual.

Lee, J, Hassanein, L, Jacomino M, Luck GR. Current trends in HIV-related services offered at substance abuse facilities. American Medical Association Medical Student Section

Winning the Ventilator Lottery: Analyzing the variability in scarce resource allocation protocols through a COVID-19 simulation. Sabina Fridman, MS3 BS, Victoria Danan, MS3 BA, Jordyn Lee, MS2 BS, Alana Kosches, BA, Mario Jacomino, MD MPH, George R. Luck, MD FAAHPM. Scholar Poster presentation at the 2022 Annual Assembly of Hospice and Palliative Care, taking place February 9-12, 2022 in Nashville, TN

Middle and High School Students as Standardized Patients: A Pediatric Standardized Patient Case for Pre-clerkship Students. Peter Averkiou, Lisa Martinez and Mario Jacomino. Virtual 2021 GEA Regional Spring Conference from April 20-22, 2021.

Population Characteristics of Florida Zip Codes Offering COVID-19 Vaccines in Publix Pharmacies as of January 2021. Maral Darya, MS1, Keren Fishman, MS1, Alana Kosches, Carly Green, Mario Jacomino, MD, MPH, Jennifer Attonito, PhD and George Luck, MD, FAAHPM received the 1st place in the Health and Life Sciences category at The FAU's Graduate and Professional Student Association (GPSA) 12th Annual Graduate Research Day virtually on April 15-18, 2021.

Breathing for Two: An Analysis of Pregnancy and Scarce Ventilator Allocation in the COVID-19 Pandemic. Sabina Fridman, MS2; Victoria Danan, MS2; Sara Twadell, MS3; Jordy Godinez, MD; Mario Jacomino, MD, MPH and George Luck, MD, FAAHPM received the 2nd place in the Health and Life Sciences category at The FAU's Graduate and Professional Student Association (GPSA) 12th Annual Graduate Research Day virtually on April 15-18, 2021.

At FAU COM Medical Student Research and Scholarship Day held on 2/29/2021:

1. Evaluating the effect of exercise videos on medical student satisfaction and knowledge of human anatomy. Ashley Gureck, MS4; Danielle Steinberg, MS4; David Jooryabi, MS1; Veronica Hagan, MS1; Samantha Matott, MS1; Daniel Jacobs, MS1; Debra Weiss, DO; Mario Jacomino, MD; Darin Trelka, M.D; George Luck, M.D.
2. Planning in a Pandemic: The Impact of COVID-19 on Completion of Advance Directives in Healthcare Workers. Nadia Sial, MS2; Hila Miskin, DO; Katherine Freeman-Costin, DrPH; Mario Jacomino, MD, MPH; George Luck, MD, FAAHPM.
3. Deprioritization of Vaccinating Children below 18 years of Age: A closer look. Brooke Rothberg, MS3; Christina Stamatiou, MS3; Nadia Sial, MS2; Katherine Freeman PhD; Mario Jacomino, MD, MPH; George Luck MD, FAAHPM.
4. COVID-19 Vaccine Hesitancy: A closer look. Christina Stamatiou, MS3, Nadia Sial, MS2; Katherine Freeman PhD; Mario Jacomino, MD, MPH; George Luck, MD, FAAHPM.
5. COVID-19 Vaccine Acceptance among the General Public. Nadia Sial, MS2; Mario Jacomino, MD, MPH; Todd Blum, PhD, MBA; Deirdre Sommerlad-Rogers, PhD; George Luck, MD,FAAHPM.

6. Controversy in the Public Health Sphere: Is there a Relationship between Belief in the Effectiveness of Face Masks and Acceptance of a COVID-19 Vaccine? Giovanna Pires, MS3; Nadia Sial, MS2; Hila Miskin, DO; Katherine Freeman-Costin, DrPH; Mario Jacomino, MD, MPH; George Luck, MD, FAAHPM.

7. Use of exclusion criteria for ventilator allocation: How Florida can minimize racial disparities amidst a pandemic. Sara Twadell, MS3; Sabina Fridman, MS2; Victoria Danan, MS2; Mario Jacomino, MD, MPH and George Luck, MD, FAAHPM.

8. Breathing for Two: An analysis of pregnancy and scarce ventilator allocation in the COVID-19 pandemic. Sabina Fridman, MS2; Victoria Danan, MS2; Sara Twadell, MS3; Jordy Godinez, MD; Mario Jacomino, MD, MPH and George Luck, MD, FAAHPM.

Advance Directives: Are There Too Many Options on the Menu?

Christine A. Adams, MS3, Bailey Pierce, MS3, Adriana Bautista, BS, Samantha Kassner, MS2, Katherine Johnson, MS2, Ryan A. Witcher, BS, Sonya Chistov, MS2, Mario Jacomino, MD, MPH, and George R. Luck, MD. 2020 Conference on Medical Student Education held on 1/31/2020 in Portland, OR

Should Stop the Bleed (STB) Training Be Integrated into the Medical School

Curriculum? Jordyn Cohen, MS3, Whitney Winslow, MS3, Mario Jacomino, MD, MPH, George R. Luck, MD. Palm Beach Medical Society State of Medicine Dinner Poster Symposium held at Airport Hilton Palm Beach in West Palm Beach, FL on January 30, 2020.

Fearing Pain at the End of Life: An Unrecognized Deficit in Advance Directives.

Hila Miskin, DO, Ross Mellman BA, Daniel Parker, MS2, Adriana Bautista, BA, Jordan Cohen, MS3, Mario Jacomino MD, MPH, George R. Luck MD. At Palm Beach Medical Society State of Medicine Dinner Poster Symposium held at Airport Hilton Palm Beach in West Palm Beach, FL on January 30, 2020.

At FAU's 11th Annual Graduate and Professional Student Association (GPSA) Research Day, held on a virtual platform from 4/17/2020 to 4/20/2020.

1. Should Stop the Bleed (STB) Training Be Integrated Into the Medical School Curriculum? Submitted by Whitney Winslow, MS3
Jordyn Cohen, MS3, Whitney Winslow, MS3, Mario Jacomino, MD, MPH,
George R. Luck, MD

2. Medical Student Attitudes Toward Substance Use Disorder Across The Undergraduate Medical Education. Submitted by Hanna Mielke-Maday, MS3
Sonya Chistov, MS2, Hanna Mielke-Maday, MS3, Riyana Lalani, MS3,
Marjorie Kragel, MS3, Mario Jacomino MD, MPH, George R. Luck, MD

***Awarded 2nd place in the Arts, Education, and Social Sciences Division

- At FAU COM Medical Student Research & Scholarship Day held on 2/28/2020:
 1. Advance Directives: Are There Too Many Options on the Menu? Christine A. Adams, MS3, Bailey Pierce, MS3, Adriana Bautista, BS, Samantha Kassner, MS2, Katherine Johnson, MS2, Ryan A. Witcher, BS, Sonya Chistov, MS2, Mario Jacomino, MD, MPH, and George R. Luck, MD
 2. Advance Directives: The Barrier of Choice Overload. Sonya Chistov, MS2, Samantha Kassner, MS2, Katherine Johnson, MS2, Christine A. Adams, MS3, Ryan A. Witcher, BS, Mario Jacomino, MD, MPH and George R. Luck, MD
 3. Permission to Hasten Death: A Review of Advance Directives. Lauren Daley, MS3; Ross Mellman, BA; Jade Vorster, MS3; Mario Jacomino, MD, MPH; George R. Luck, MD
 4. I Have To Choose What I Want After I Die Too? A Review of Advance Directives. Sabina Fridman, MS1, Adriana Bautista, BS, Mario Jacomino, MD, MPH, George R. Luck, MD
 5. Should Stop the Bleed (STB) Training Be Integrated Into the Medical School Curriculum? Jordyn Cohen, MS3, Whitney Winslow, MS3, Mario Jacomino, MD, MPH, George R. Luck, MD
 6. Assessing and Reforming Resident Attitudes Toward Addiction and Patients with Substance Use Disorders. Ashley Innis, MS3, Vihasa Govada, MS3, Sonya Chistov, MS2, Allison Ferris, MD, George R. Luck, MD, Mario Jacomino, MD, MPH
 7. Residents' Attitudes, Beliefs, and Knowledge of Opioids. Keshav Godha, MS3, Lynn Chi, MS3, Samuel Mansour, MS3, Whitney Winslow, MS3, Adrian Artiles, MD, Alexandra Gonzalez Velez, MD, Mario Jacomino, MD, MPH, Allison Ferris, MD, George R. Luck, MD
 8. Up in Smoke: Residents' Attitudes, Beliefs and Knowledge of Medical Marijuana. Vincenzo Giovinazzo MS2, Whitney Winslow, MS3, Sierra Conine, MS1, Kendall Johnson, MD (PGY2), Jared Kelly, MD (PGY2), George R. Luck, M.D., Allison Ferris, MD, Mario Jacomino, MD, MPH
 9. Medical Student Attitudes towards Substance Use Disorder Across The Undergraduate Medical Education. Sonya Chistov, MS2, Hanna Mielke-Maday, MS3, Riyana Lalani, MS3, Marjorie Kragel, MS3, Mario Jacomino MD, MPH, George R. Luck, MD
 10. Knowledge and Beliefs of Medical Students surrounding opioid use, opioid use disorder, and related medical education: A Preliminary Survey. Connor Montgomery, MS3, Jared Goldstein MS3, Whitney Winslow, MS3, Ned

Shashoua, MS1, Jared Florio, Mario Jacomino, MD, George R. Luck, MD

11. Medical Educator's Attitudes on Medical Marijuana and its place in Clinical Practice and Medical Education. Zachary Belnavis, MS3; Jade Vorster, MPH, MS3; Vincenzo Giovinazzo, MS2; Allison Ferris, MD; Mario Jacomino, MD; George R. Luck, MD

12. The Blunt Truth: Medical Students' Attitudes, Beliefs and Knowledge of Medical Marijuana. Michelle Wilson MS3; Lauren Daley, MS3; Vincenzo Giovinazzo MS2; Jared Florio; Whitney Winslow MS3; Mario Jacomino, MD; Dr. Allison Ferris; George R. Luck, MD

Jo Ann M. Bamdas, Ph.D., Mario Jacomino, M.D., M.P.H., & Beth King, Ph.D., APRN, PMHNP-BC. What's the Value of Intergenerational, Interprofessional Mentoring Experiences for Seniors? Poster presented at SGEA 2019 – Orlando, FL, March 2019

Martinez, L., Cualing, P., Jacomino, M., Weinert, D. Clinical Ultrasonography as part of clinical skills teaching. Conference on Medical Student Education in Jacksonville, FL, January 31-February 3, 2019.

Chiplock, A., Gundersen, E., Jacomino, M., Sherling, D., & Caceres, J. *Developing a framework for competency integration across the curriculum*. Paper presented at the annual meeting of the Medical Library Association, Atlanta, GA. May 2018.

Tiffany Moxham, James Cresanta, Mario Jacomino, Mira Sarsekeyeva: *Implementation and adaptation of an integrated Evidence-Based Medicine program across the first year curriculum in a new medical school*. Southern Group on Educational Affairs (SGEA), March 2014.

Julie C. Servoss, MD, MPH; Gloria Zimmerman McAllister, PhD; Mark Goldstein, BS; Mira Sarsekeyeva, MD; Bruce Jones, PhD; and Mario Jacomino, MD, MPH: *Standardized Professional Patients, Simulation Center Experiences and Peer Teaching in Anatomy: Innovative Methods to Develop the Physician Professional Identity In Minority Middle and High School Students*. Southern Group on Educational Affairs (SGEA), March 2014.

Mario Jacomino, MD, MPH; Mira Sarsekeyeva, MD; Michelle Duhaney, DO; Jo Ann Bamdas, Ph.D.; Michele Hawkins, PhD, MSW; Kathryn Keller, PhD, RN; Lindsey Henson, MD, PhD; and Joseph Ouslander, MD: *Interprofessional Education: Evaluation of a Pilot Program*. Southern Group on Educational Affairs (SGEA), March 2014.

CURRICULUM VITAE
Marc Kantorow, Ph.D. FARVO

Professor of Biomedical Science
Associate Dean for Graduate Programs
Charles E. Schmidt College of Medicine
Florida Atlantic University
777 Glades Rd.
BC71 RM 207
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Office: 561-297-2910
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mkantoro@health.fau.edu

EDUCATION

1991 PhD GENETICS: The George Washington, University Washington DC

Dissertation: "Genetic and biochemical characterization of the molecular interactions required for activation of the *E. coli* cAMP receptor protein by 3'-5' cyclic adenosine monophosphate."
Qualifying: Molecular Biology (*with Distinction*), Protein Biochemistry (*with Distinction*) and Molecular Genetics (*with Distinction*).

1985 BS BIOLOGY (*Cum Laude*) Towson State University, Towson Maryland

PROFESSIONAL EXPERIENCE

Present

2007- present Professor (tenured) Department of Biomedical Sciences,
Charles E. Schmidt College of Medicine, Florida Atlantic University

2021-present Associate Dean for Graduate Programs. Charles E. Schmidt
College of Medicine, Florida Atlantic University

Past

2023-2024 Director Post-Baccalaureate Program

2016-2021 Assistant Dean for Graduate Programs. Charles E. Schmidt
College of Medicine, Florida Atlantic University

2013-2016	Director of Graduate Programs Charles E. Schmidt College of Medicine
2004-2006	Associate Chair. Department of Biomedical Science Charles E. Schmidt College of Medicine
2004-2007	Associate Professor (tenured). Department of Biomedical Sciences Charles E. Schmidt College of Medicine Florida Atlantic University
1999-2003	Assistant Professor Department of Biology Eberly College of Arts and Science West Virginia University
1997-1999	Assistant Research Professor, The Jules Stein Eye Institute UCLA Medical School Los Angeles CA
1996-1997	Senior Staff Fellow Laboratory of Molecular and Developmental Biology National Eye Institute, National Institutes of Health Bethesda MD (Chief: Dr. Joram Piatigorsky)
1991-1996	Post-Doctoral Research Fellow Laboratory of Molecular and Developmental Biology, National Eye Institute National Institutes of Health Bethesda MD (Chief: Dr. Joram Piatigorsky)
1987-1991:	Graduate Assistant George Washington University Department of Genetics, Washington DC

GRANTS

Current:

**NIH R01 EY029708
(Renewal) 2024-2029
(4 percentile)**

\$1,906, 250 (as PI) "Hypoxia Regulation of the Eye Lens" Florida Atlantic University

**NIH R01 EY026478
2020-2025 (18 percentile)**

\$2,926,200.00 (as PI) with Sue Menko (MPI)
"Regulatory role of P13K signaling pathways in lens differentiation" Florida Atlantic University and Jefferson University MPI Gran

COMPLETED:

NIH R01 EY029708 2019-2024 (2 percentile)	\$1,738,565.00 (as PI) "Hypoxia Regulation of the Eye Lens" Florida Atlantic University
NIH R01 EY 026478 2015-2019 (4 percentile)	\$2,278,493 (as PI) with Dr. A. Sue Menko (MPI) National Eye Institute, NIH "Repurposing classical death pathways for signalling roles in lens differentiation" Florida Atlantic University
Rand Eye Institute 2015-2016	\$50,000.00 (as PI) " Engineering of Ocular Tissues" Florida Atlantic University
NIH R01 EY 13022 2009-2014 (13 percentile)	\$1,752,000.00 (as PI) National Eye Institute NIH "Molecular Analysis of Microdissected Human Lenses" Florida Atlantic University
NIH NOT 2009-2010	\$258,000 NOT OD 056 Recovery Act (as PI) National Eye Institute NIH "Repair of alpha-crystallin" Florida Atlantic University
NIH R01 EY 13022 2004-2009 (7 percentile)	\$1,561,590.00 (as PI) National Eye Institute NIH "Molecular Analysis of Microdissected Human Lenses" Florida Atlantic University
AHAF 2005-2007	\$100,000 American Health Assistance Foundation for Macular Degeneration (as PI) "The role of methionine sulfoxide reductase in retinal function and age-related macular degeneration" Florida Atlantic University
PHS 2006-2007	Palm Healthcare Foundation BJ Harris Fund for Macular Degeneration (as PI) \$15,000 Florid Atlantic University
NIH R01 13022 1999-2004 (12 percentile)	\$966,220.00 (as PI) National Eye Institute NIH "Molecular Analysis of Microdissected Human Lenses" West Virginia University

**NIH Young Investigator
Award**

\$150,000 (as PI) "Cataract genetic analysis"
UCLA School of Medicine
Jules Stein Eye Institute

FELLOWSHIPS, AWARDS and NOMINATIONS

2018	Researcher of the Year (Professor), Florida Atlantic University
2016	Distinguished Teacher of the Year, Charles E. Schmitt College of Medicine, FAU
2015	Certificate of Appreciation for Service on the Association for Research and Visual Science Members in Training Committee (2011-2014)
2014	Gold Fellow of the Association for Research in Vision and Ophthalmology
2012	Silver Fellow of the Association for Research in Vision and Ophthalmology
2012	Certificate Appreciation for Service on the Association for Research in Vision and Ophthalmology Program Committee as Lens Section Chair (2009-2010) and lens section member (2007-2009)
2008	Top Reviewer J. <i>Experimental Eye Research</i>
2005	Researcher of the Year (Associate Professor), Florida Atlantic University
2005	Associate Professor Researcher of the Year, Charles E. Schmidt College of Science
2008	Certificate of Appreciation for Organizing the Young Investigator Program Platform for the International Conference on Eye Conference of Eye Research International Society for Eye Research
2003	Outstanding Researcher Award, Eberly College of Arts and Sciences, West Virginia University
2002	Cataract Research Award, National Foundation for Eye Research, Association for Research in Vision and Ophthalmology
2002	Nominated for the Eberly College Outstanding Researcher Award, Eberly College of Arts and Science, West Virginia University
2001	Nominated for the Benedum Distinguished Scholar Award, West Virginia University

2000	Nominated for the Cataract Research Award, National Foundation for Eye Research, Association for Research in Vision and Ophthalmology
1999	Cooperative Cataract Research Conference Travel Award, National Foundation for Eye Research
1994	International Conference on Eye Research Travel Award International Society for Eye Research
1991-1996	Intramural Research Training Award, National Eye Institute, NIH, Bethesda, MD
1987-1990	Pre-Doctoral Fellowship, Center for Advanced Research in Biotechnology, Rockville, MD
1985-1987	Research Fellowship, George Washington University
1984-1985	John J. Leidy Scholarship, Towson State University

PUBLICATIONS

1. Brennan L, Disatham J, **Kantorow M**. Hypoxia-Driven Histone Modifications Govern Gene Regulation for Mature Eye Lens Formation. *Invest Ophthalmol Vis Sci*. 2025 Oct 1;66(13):2. doi: 10.1167/iov.66.13.2. PMID: 41031740; PMCID: PMC12510386.
2. Lalman C, Stabler KR, Disatham J, Brennan LA, **Kantorow M**, Walker JL. Distinct transcriptional regulation of the Wnt and TGF β signaling families associated with wound healing and fibrotic outcomes to lens injury. *Exp Eye Res*. 2025 Dec;261:110628. doi: 10.1016/j.exer.2025.110628. Epub 2025 Sep 12. PMID: 40946957
3. Brennan L, Disatham J, Menko AS, **Kantorow M**. Multiomic analysis implicates FOXO4 in genetic regulation of chick lens fiber cell differentiation. *Dev Biol*. 2023 Dec;504:25-37. doi: 10.1016/j.ydbio.2023.09.005. Epub 2023 Sep 16. PMID: 37722500; PMCID: PMC10843493.
4. Disatham J, Brennan L, Cvekl A, **Kantorow M**. Multiomics Analysis Reveals Novel Genetic Determinants for Lens Differentiation, Structure, and Transparency. *Biomolecules*. 2023 Apr 19;13(4):693. doi: 10.3390/biom13040693. PMID: 37189439.

5. Brennan L, Costello MJ, Hejtmancik JF, Menko AS, Riazuddin SA, Shiels A, **Kantorow M**. Autophagy Requirements for Eye Lens Differentiation and Transparency. *Cells*. 2023 Feb 1;12(3):475. doi: 10.3390/cells12030475. PMID: 36766820; PMCID: PMC9914699.
6. Taylor A, Gu Y, Chang ML, Yang W, Francisco S, Rowan S, Bejarano E, Pruitt S, Zhu L, Weiss G, Brennan L, **Kantorow M**, Whitcomb EA. Repurposing a Cyclin-Dependent Kinase 1 (CDK1) Mitotic Regulatory Network to Complete Terminal Differentiation in Lens Fiber Cells. *Invest Ophthalmol Vis Sci*. 2023 Feb 1;64(2):6. doi: 10.1167/iovs.64.2.6. PMID: 36734965; PMCID: PMC9907369.
7. Ma Z, Chauss D, Disatham J, Jiao X, Brennan LA, Menko AS, **Kantorow M**, Hejtmancik JF. Patterns of Crystallin Gene Expression in Differentiation State Specific Regions of the Embryonic Chicken Lens. *Invest Ophthalmol Vis Sci*. 2022 Apr 1;63(4):8. doi: 10.1167/iovs.63.4.8. PMID: 35412582; PMCID: PMC9012887.
8. Disatham J, Brennan L, Jiao X, Ma Z, Hejtmancik JF, **Kantorow M**. Changes in DNA methylation hallmark alterations in chromatin accessibility and gene expression for eye lens differentiation. *Epigenetics Chromatin*. 2022 Mar 5;15(1):8. doi: 10.1186/s13072-022-00440-z. PMID: 35246225; PMCID: PMC8897925.
9. Gheyas R, Ortega-Alvarez R, Chauss D, **Kantorow M**, Menko AS. Suppression of PI3K signaling is linked to autophagy activation and the spatiotemporal induction of the lens organelle free zone. *Exp Cell Res*. 2022 Mar 15;412(2):113043. doi: 10.1016/j.yexcr.2022.113043. Epub 2022 Jan 29. PMID: 35101390; PMCID: PMC8859841.
10. Disatham J, Brennan L, Chauss D, Kantorow J, Afzali B, **Kantorow M**. A functional map of genomic HIF1 α -DNA complexes in the eye lens revealed through multiomics analysis. *BMC Genomics*. 2021 Jul 3;22(1):497. doi: 10.1186/s12864-021-07795-9. PMID: 34215186
11. Brennan L, Disatham J, **Kantorow M**. Mechanisms of organelle elimination for lens development and differentiation. *Exp Eye Res*. 2021 Jun 30;209:108682. doi: 10.1016/j.exer.2021.108682. Online ahead of print. PMID: 34214522
12. Klionsky DJ,.....**Kantorow M**....Tong CK. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)¹. *Autophagy*. 2021 Jan;17(1):1-382. doi: 10.1080/15548627.2020.1797280. Epub 2021 Feb 8. PMID: 33634751; PMCID: PMC7996087.

13. Novel mitochondrial derived Nuclear Excisosome degrades nuclei during differentiation of prosimian Galago (bush baby) monkey lenses. Costello MJ, Gilliland KO, Mohamed A, Schey KL, Johnsen S, Brennan LA, **Kantorow M**. PLoS One. 2020 Nov 12;15(11):e0241631. doi: 10.1371/journal.pone.0241631. eCollection 2020. PMID: 33180800

14. Brennan L, Disatham J, **Kantorow M**. Hypoxia regulates the degradation of non-nuclear organelles during lens differentiation through activation of HIF1a. Exp Eye Res. 2020 Sep;198:108129. doi: 10.1016/j.exer.2020.108129. Epub 2020 Jul 3. PMID: 32628953; PMCID:

15. Lens differentiation is characterized by stage-specific changes in chromatin accessibility correlating with differentiation state-specific gene expression. Disatham J, Chauss D, Gheyas R, Brennan L, Blanco D, Daley L, Menko AS, **Kantorow M**. Developmental Biology. 2019 Sep 1;453(1):86-104. doi: 10.1016/j.ydbio.2019.04.020. Epub 2019 May 25. PMID: 3113673

16. BNIP3L/NIX is required for elimination of mitochondria, endoplasmic reticulum and Golgi apparatus during eye lens organelle-free zone formation. Brennan LA, McGreal-Estrada R, Logan CM, Cvekl A, Menko AS, **Kantorow M**. Experimental Eye Research. 2018 Sep;174:173-184. doi: 10.1016/j.exer.2018.06.003. Epub 2018 Jun 4. PMID: 29879393

17. Parkin elimination of mitochondria is important for maintenance of lens cell ROS levels and survival upon oxidative stress exposure. Lisa Brennan, Joseph Khoury and **Marc Kantorow**. Biochimica Biophysica Acta (BBA) Molecular Basis of Disease. 2017 1863(1) 21-32. doi: 10.1016/j.bbdis.2016.09.020.

18. Identification and ultrastructural characterization of a novel nuclear degradation complex in differentiating lens fiber cells. M. Joseph Costello, Lisa A. Brennan, Kurt O. Gilliland, Snoko Johnson, **Marc Kantorow**. PloS One. 2017 11(8): e0160785. doi: 10.1371.

19. Chromatin remodeling enzyme Snf2h/Smarca5 regulates embryonic lens differentiation and denucleation. Shuying He, Saima Limi, Rebecca S. McGreal, Qing Xie, Lisa Ann Brennan, Wanda Kantorow, Juraj Kokavec, Romit Majumdar, Harry Hou, Winfried Edelmann, Wei Liu, Ruth Ashery-Padan, Jiri Zavadil, **Marc Kantorow**, Arthur Skoultchi, Tomas Stopka, Ales Cvekl. Development. 2016. 143(11):1937-47.

20. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Klionsky et al, **Kantorow** et al., Autophagy. 2016. 12(1):1-222.
21. Integrin α V β 5-mediated Removal of Apoptotic Cell Debris by the Eye Lens and Its Inhibition by UV Light Exposure. Dan Chauss, Lisa Brennan, Olga Bakina and **Marc Kantorow**. Journal of Biological Chemistry (JBC) 2015. 290(51):30253-66.
22. Chromatin features, RNA polymerase II and the comparative expression of lens genes encoding crystallins, transcription factors, and autophagy mediators. J Sun, S Rockowitz, Daniel Chauss, P Wang, **Marc Kantorow**, Deyou Zheng and Ales Cvekl. Molecular Vision. 2015. 21:955-73.
23. Differentiation state-specific mitochondrial dynamic regulatory networks are revealed by global transcriptional analysis of the developing chicken lens. Daniel Chauss, Subhasree Basu, Suren Rajakaruna, Z Ma, Victoria Gau, Sara Anastas, Lisa Brennan, J. Fielding Hejtmancik, A. Sue Menko and **Marc Kantorow**. Genes, Genomes and Genetics G3 (Bethesda). 2014. 13;4(8):1515-27.
24. Chaperone-independent mitochondrial translocation and protection by α B-crystallin in RPE cells. Rebecca McGreal, Lisa Brennan, Wanda Lee Kantorow, Jeffrey Wilcox, Jianning Wei, Daniel Chauss and **Marc Kantorow**. Experimental Eye Research 2013. 110:10-7.
25. Spatial expression patterns of autophagy genes in the eye lens and induction of autophagy in lens cells. Lisa Brennan, Wanda Lee Kantorow WL, Daniel Chauss, Rebecca McGreal, Shuying He, Lynsey Matucci, Jianning Wei, Amer Riazuddin, Ales Cvekl A, J. Fielding Hejtmancik and **Marc Kantorow**. Mol Vis 2012.
26. α B-crystallin/sHSP protects cytochrome c and mitochondrial function against oxidative stress in lens and retinal cells. Rebecca McGreal, Wanda Lee Kantorow, Daniel Chauss, Jianning Wei, Lisa Brennan and **Marc Kantorow**. Biochim Biophys Acta (BBA). 2012. 1820(7):921-30.
27. Oxidative stress defense and repair systems of the ocular lens. Lisa Brennan, Rebecca McGreal and **Marc Kantorow**. Frontiers in Bioscience (Elite Ed). 2012. 4:141-55.
28. Mutations in FYCO1 cause autosomal-recessive congenital cataracts. Chen J, Ma Z, Jiao X, Fariss R, **Kantorow** WL, **Kantorow** M, Pras E, Frydman M, Pras E, Riazuddin S, Riazuddin SA, Hejtmancik JF. American Journal of Human Genetics 2011 Jun 10;88(6):827-38. doi: 10.1016/j.ajhg.2011.05.008

29. TXNL6 Is A Novel Oxidative Stress-Induced Reducing System for Methionine Sulfoxide Reductase A Repair of alpha-Crystallin and Cytochrome c in the Eye Lens. Lisa Brennan, Wanda Lee, and **Marc Kantorow**. PloS One. 2010. 5;11.
30. Efficient generator of lens progenitor cells and lentoid bodies from human embryonic stem cells in chemically defined conditions. Chunbo Yang, Ying Yang, Lisa Brennan, Eric Bouhissira, **Marc Kantorow** and Ales Cvekl. FASEB J 2010. 24:3274-83.
31. Methionine sulfoxide reductase A (MsrA) restores alpha-crystallin chaperone activity lost upon methionine oxidation. Lisa Brennan, Wanda Lee, Frank Giblin, Larry David and **Marc Kantorow**. Biochim Biophys Acta., 2009. 1790:1665-72.
32. Deletion of mouse MsrA results in HBO-induced cataract: MsrA repairs mitochondrial cytochrome c. Lisa Brennan, Wanda Lee, Tracy Cowell, Frank Giblin, and **Marc Kantorow**. Mol. Vis., 2009. 15:985-99.
33. Peroxiredoxin 3 (PRDX3) is highly expressed in the primate retina especially in blue cones. Ernesto Moreira, **Marc Kantorow**, Ignacio Rodriguez. Exp. Eye Res., 2008 86; 452-5.
34. Localization and H₂O₂-specific Induction of PRDX3 in the Eye Lens. Wanda Lee, Tracy Wells, and **Marc Kantorow**. Mol. Vis. , 2007. 13;1469-74.
35. Silencing of the Methionine sulfoxide reductase A gene results in loss of mitochondrial membrane potential and increased ROS production in human lens cells Maria A. Marchetti, Tracy L. Cowell, Tracy M. Wells, Herbert Weissbach **Marc Kantorow**. Experimental Eye Research. 2006. 83; 1281-86.
36. Sagher D, Brunell D, Hejtmancik JF, **Kantorow Marc**, Brot N, Weissbach H. Thionein can serve as a reducing agent for the methionine sulfoxide reductases. Proceedings National Academy of Science U S A. 2006 Jun 6;103(23):8656-61
37. Hawse JR, Padgaonkar VA, Leverenz VR, Pelliccia SE, **Kantorow Marc** Giblin FJ. The role of metallothionein IIa in defending lens epithelial cells against cadmium and TBHP induced oxidative stress. Molecular Vision. 2006 Apr 17;12:342-9.
38. Gene structure, localization and role in oxidative stress of methionine sulfoxide reductase A (MSRA) in the monkey retina. J. W. Lee, N.V. Gordiyenko, M. Marchetti, N. Tsrenstsoodol, D. Sagher, S. Alam, H. Weissbach, **M. Kantorow**, I.R. Rodriguez. Experimental Eye Research 2006 May;82(5):816-27.

39. Methionine sulfoxide reductases B1, B2 and B3 are present in the human lens and confer oxidative stress resistance to lens cells. Maria Marchetti, Gresin O. Pizarro, Dapha Sagher, Candida DeAmicis, Nathan Brot, J. F. Hejtmancik, Herbert Weissbach, **Marc Kantorow** Investigative Ophthalmology and Visual Science 2005 Jun;46(6):2107-12.
40. Identification of Global Gene Expression Differences Between Human Lens Epithelial and Cortical Fiber Cells Reveals Functional Pathways Important for Specialized Lens Cell Functions. John R. Hawse¹, Candida DeAmicis-Tress¹, Tracy L. Cowell¹, **Marc Kantorow***¹ Molecular Vision 2005 Apr 18; 11:274-83.
41. Identification and functional gene clustering of global gene expression differences between age-related cataract and clear human lenses and aged clear human lenses. John R. Hawse, J. Fielding Hejtmancik, Joseph Horwitz and **Marc Kantorow**. Experimental Eye Research 2004, 79, 3-9.
42. Methionine sulfoxide reductase A is important for lens cell viability and resistance to oxidative stress. **Marc Kantorow**, John R. Hawse, Tracy L. Cowell, Sonia Benhamed, Gresin O. Pizarro, Venkat Reddy and J. Fielding Hejtmancik. Proceedings of the National Academy of Sciences USA, 2004, 101, 9654-9659.
43. Identification and functional clustering of global gene expression differences between human age-related cataract and clear lenses. John R. Hawse, James F. Hejtmancik, Quingling Huang, Nancy L. Sheets, Douglas A. Hosack, Richard A. Lempicki, Joseph Horwitz and **Marc Kantorow**. Molecular Vision, 2003, 7, 515-537.
44. Frank J. Secreto, A. Grover, M. Pacurari, **Marc Kantorow**, Ashok Bidwai, J.D. Blaha and Phillip E. Keeting. Estrogen potentiates the combined effects of transforming growth factor beta and tumor necrosis factor alpha on adult human osteoblast-like prostaglandin E2 biosynthesis. Calcif. Tissue Int 2003, 73, 565-574.
45. Spectrum and Range of oxidative stress responses of human lens epithelial cells to H₂O₂ insult. Sumanta Goswami, Nancy Sheets, Jiri Zavadil, Bharesh Chuan, Bottinger EP, Venkat Reddy, **Marc Kantorow**. and Ales Cvekl. Investigative Ophthalmology and Visual Science 2003, 44, 2084-2093.
46. John Hawse, Nancy Sheets, Brian Opperman, Venkat Reddy and **Marc Kantorow**. Activation of metallothioneins and alpha-crystallin/sHSPs in human lens epithelial cells by specific metals and the metal content of aging clear human lenses. Investigative Ophthalmology and Visual Science 2003, 44, 672-679.
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- Receptor tyrosine kinase in Emory mouse cataract. Investigative Ophthalmology and Visual Science. 2002, 43,1870-1875
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 49. Stephanie Runkle, Julie Hill, **Marc Kantorow**, Joseph Horwitz and Mason Posner. Sequence and spatial expression of zebrafish alpha A-crystallin. Molecular Vision 2002, 8, 6-8.
 50. Weiyan Zhang, John Hawse, QingLing Huang, Nancy Sheets, Kevin Miller, Joseph Horwitz and **Marc Kantorow**. Decreased expression of ribosomal proteins in human age-related cataract. Investigative Ophthalmology and Visual Science. 2002, **43**, 198-204.
 51. Weiyan Zhang, Kveta Cveklova, Brian Oppermann, **Marc Kantorow**, and Ales Cvekl. Characterization of PAX6 and PAX6(5a) transcript and protein levels in adult human lens, cornea, and retina. Molecular Vision. 2001 **7**,1-5.
 52. Brian Oppermann, Weiyan Zhang, Kristine Magabo and **Marc Kantorow**. Identification and spatial analysis of metallothioneins expressed by the adult human lens. Investigative Ophthalmology and Visual Science. 2001, **42**,188-193.
 53. Kristine Magabo, Joseph Horwitz, Joram Piatigorsky and **Marc Kantorow**. Expression of betaB2-crystallin mRNA and protein in retina, brain and testis. Investigative Ophthalmology and Visual Science. 2000 **41**, 3056-3060.
 54. Young-Sheng Xu, **Marc Kantorow**, Janine Davis and Joram Piatigorsky. Evidence for Gelsolin as a corneal crystallin in zebrafish. Journal of Biological Chemistry 2000, **275**, 24645-24652.
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 56. **Marc Kantorow**, Quingling Huang, Xian-Jie Yang, E. Helene Sage, Kristine S. Magabo, Kevin M. Miller and Joseph Horwitz. Increased Expression of osteonectin/SPARC mRNA and protein in age-related human cataracts and spatial expression in the normal human lens. Molecular Vision 2000;**6**, 24-29.
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60. **Marc Kantorow**, W. Todd Kays, Joseph Horwitz, Qingling Huang, Jennifer Sun, Joram Piatigorsky and Deborah Carper. Differential display detects altered gene expression between cataractous and normal human lenses. Investigative Ophthalmology and Visual Science. 1998;**39**,2344-2354.
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62. **Marc Kantorow**, Joseph Horwitz, Martinus A.M. van Boekel, Wilfried W. deJong and Joram Piatigorsky. Conversion from oligomers to tetramers enhances autophosphorylation by lens alphaA-crystallin. Journal of Biological Chemistry 1995: **270**, 17215-17220.
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68. **Marc Kantorow**, Kevin Becker, Christina M. Sax, Keiko Ozato and Joram Piatigorsky. Binding of tissue-specific forms of alphaA-CRYBP1 to their regulatory sequence in the mouse alphaA-crystallin control region: Double-label immunoblotting of UV-crosslinked complexes. Gene 1993: **131**, 159-165.
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REVIEWS AND BOOK CHAPTERS

1. Disatham J, Brennan L, Cvekl A, **Kantorow M**. Multiomics Analysis Reveals Novel Genetic Determinants for Lens Differentiation, Structure, and Transparency. *Biomolecules*. 2023 Apr 19;13(4):693. doi: 10.3390/biom13040693. PMID: 37189439.
2. Brennan L, Costello MJ, Hejtmancik JF, Menko AS, Riazuddin SA, Shiels A, **Kantorow M**. Autophagy Requirements for Eye Lens Differentiation and Transparency. *Cells*. 2023 Feb 1;12(3):475. doi: 10.3390/cells12030475. PMID: 36766820; PMCID: PMC9914699.
3. **Brennan L**, Disatham J, Kantorow M. Mechanisms of organelle elimination for lens development and differentiation. *Exp Eye Res*. 2021 Jun 30;209:108682. doi: 10.1016/j.exer.2021.108682. Online ahead of print. PMID: 34214522
4. Stress defense and repair systems of the ocular lens. Lisa Brennan, Rebecca McGreal, and **Marc Kantorow**. Frontiers of Bioscience. [Frontiers in Bioscience, Elite Edition, 4, 141-155, January 1, 2012
5. Focus on Molecules: Methionine sulfoxide reductase A. **Marc Kantorow**, Wanda Lee, and Daniel Chauss. Exp. Eye Res., 2012. 100:110-1.
6. Mitochondrial Function and redox control in the aging eye: Role of MsrA and other repair systems in cataract and macular degenerations. Lisa Brennan and **Marc Kantorow**. Exp. Eye Res., 2009. 88:195-203.

7. Handbook of Models for the study of human aging: Age-related visual diseases. J. Fielding Hejtmancik, **Marc Kantorow**, Tekeshi Iwata. Cambridge University Press. 2006
 8. Lens Crystallins: Development of the Ocular Lens Ales Cvekl, Melinda K. Duncan, **Marc Kantorow** and Joram Piatigorsky (M.L. Robinson and F.J. Loveau Eds.) Cambridge University Press. 2004.
 9. Molecular Genetics of age-related cataract. J. Fielding Hejtmancik and **Marc Kantorow**. Experimental Eye Research 2004, 79, 3-9.
 10. Recruitment of enzymes and stress proteins as lens crystallins. In: Toward a basis of alcohol use and abuse. Joram Piatigorsky, **Marc Kantorow**, Rashmi Gopal-Srivastava and Stanislav I. Tomarev. ed. by B. Janson, H. Jornvall, V. Rideburg, L. Lerenious and B.L. Vassel. 1994, 241-250. Berhausr, Verlag. Basel Switzerland.
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INVITED PRESENTATIONS

2024	The Herbert Wertheim UF Scripps Institute for Biomedical Innovation and Technology: “Multiomic analysis identifies hypoxia as a novel driver of eye lens development”. Marc Kantorow , Jupiter, Florida. September 2024.
2024	International Conference on the Lens: “Genetics Determinants Lens Development”. Marc Kantorow , Joshua Disatham and Lisa Brennan. Kona, Hawaii . December 2024
2023	XXV International Conference on Eye Research “Multiomic Analysis Reveals Novel Requirements For Lens Cell Differentiation” Gold Coast, Australia. February 2023. Marc Kantorow
2022	International Conference on Lens Research. “HIF1 is a master regulator of hypoxia-dependent lens fiber cell gene expression” Kona Hawaii. December 2022. Marc Kantorow
2022	James and Jean Culver Vision Discovery Institute Distinguished Seminar Series, “Regulation of Eye Lens Differentiation: Roles for hypoxia, HIF1 and chromatin regulation” Augusta University, Augusta GA. November 2022. Marc Kantorow
2021	Association for Research in Vision and Ophthalmology, Denver, CO, “Role of hypoxia and oxidative stress in lens mitochondrial regulation,

cellular differentiation and cataract” **Marc Kantorow**, Josh Disatham and Lisa Brennan, May 2021

- 2020** **XXIV International Congress for Eye Research:** “Bioinformatics approaches to optical development of the lens”. **Marc Kantorow**, Joshua Disatham and Lisa Brennan. Buenos Aires, Argentina. Oct 2020. *Meeting Canceled*
- 2018** **International Conference on Lens Research.** “Hypoxia Regulation of lens remodeling” **Marc Kantorow**, Joshua Disatham and Lisa Brennan, Kona Hawaii, December 2018.
- 2018** **XXII International Conference on Eye Research**, Tokyo, Japan, Oxidative Stress Regulation of Organelle Function by α -Crystallin
- 2017** **International Conference on Lens Research**, Kona Hawaii, Hypoxia controls lens fiber cell remodeling by regulating the elimination of mitochondria, endoplasmic reticulum, and Golgi apparatus through HIF1 α -directed transcriptional regulation of BNIP3L expression.
- 2016** **Oakland Eye Institute, Oakland University, Rochester MI**
Redox control of lens protection and remodeling.
- 2016** **XXII International Conference on Eye Research**, Tokyo, Japan, Oxidative Stress Regulation of Organelle Function by α -Crystallin
- 2016** **International Conference on Lens Research**, Kona Hawaii, alpha-crystallin prevents mitochondrial ROS release and apoptosis by protecting cytochrome c.
- 2015** **UCLA Medical School, Jules Stein Eye Institute**, Los Angeles, CA, Mitochondrial Biology of the Eye Lens
- 2015** **Thomas Jefferson University Annual Research Symposium.**
Mitochondrial Regulation and Protection in the Eye.
- 2015** **Association for Research in Vision and Ophthalmology**, Denver, CO, BNIP3L mediates mitochondrial clearance in the developing eye lens
- 2014** **XXI International Conference on Eye Research**, San Francisco, USA
Integrin α V β 5-mediated phagocytosis by lens epithelial cells increases cell survival under apoptotic conditions
- 2014** **Association of Anatomy, Cell Biology and Neurobiology Chairpersons Meeting, San Juan Puerto Rico** Mitochondrial Dynamics in the eye lens.

- 2014** **Association for Research in Vision and Ophthalmology**, Special Symposium on Autophagy in the Eye: Mitophagy in lens protection and development, Orlando, FL
- 2013** **Association for Research in Vision and Ophthalmology**, alpha crystallin regulation of mitochondrial function, Seattle, WA
- 2013** **Association of Anatomy and Cell Biology National Conference AACBNC** Mitochondrial biology through the ocular eye lens, San Juan Puerto Rico
- 2013** **Mitochondria in Ocular Health and Disease Symposium**, Mitochondria in Ocular Health and Disease Jefferson University, Philadelphia, PA
- 2012** **XX International Conference on Eye Research**, The role of autophagy in lens maintenance, protection and differentiation. Berlin, Germany
- 2012** **Association for Research in Vision and Ophthalmology**, Alpha crystallin protects cytochrome c against oxidative stress inactivation, Ft. Lauderdale, FL
- 2011** **University of Nebraska (Lincoln)**, Anti-oxidant systems of the eye lens, Lincoln, Nebraska
- 2011** **Association for Research in Vision and Ophthalmology**, TXNL6 is a novel reducing system for repair of alpha-crystallin by methionine sulfoxide reductase, Ft. Lauderdale, FL
- 2011** **Laboratory of Molecular and Developmental Biology Symposium, National Eye Institute, NIH.** Role of repair and antioxidant enzymes in lens biology and cataract formation
- 2010** **European Association for Vision and Eye Research**, MsrA and prevention of oxidative-stress induced lens cell death, Crete Greece
- 2010** **XIX International Conference on Eye Research**, MsRA repairs methionine oxidized α -crystallin and cytochrome c maintain and regulating chaperone activity and apoptosis in lens cells. Montreal, Canada
- 2010** **Association for Research in Vision and Ophthalmology**, Special symposium on lens crystallins: Regulation and repair of alpha-crystallin/sHSP by methionine sulfoxide reductase. Ft. Lauderdale, FL

- 2008** **XVIII International Conference on Eye Research**, MsRA repairs lens cytochrome c and α -crystallin. Beijing, China
- 2008** **Oregon Health and Science University**, MsRA repairs lens cytochrome c and α -crystallin. Portland, Oregon
- 2008** **Association for Research in Vision and Ophthalmology**, Global Analysis of lens cataract-associated gene expression differences in human donors, Ft. Lauderdale, FL
- 2006** **XVII International Conference on Eye Research**, Global analysis of cataract-associated gene expression changes, Buenos Aires, Argentina
- 2005** **Association for Research in Vision and Ophthalmology**, Special symposium: Global gene expression and bioinformatics methods in ocular research Global gene expression analysis in the ocular lens, Ft. Lauderdale, FL
- 2005** **University of Miami, Bascolm Palmer Eye Institute**, Methionine Sulfoxide Reductases (Msrs) are Key Repair Enzymes. Miami, Florida
- 2004** **Columbia University**, Gene-expression and age-related human cataract. New York
- 2004** **XVI International Conference on Eye Research**. Identification and localization of lens methionine sulfoxide reductases and their role in oxidative stress protection, Sydney, Australia
- 2004** **Mayo Clinic**, The Genetics of age-related human cataract. Rochester, MI
- 2003** **Oakland University, Oakland Eye Institute**, Global gene expression in age-related human cataract. Oakland, Michigan
- 2003** **The Abe Spector Honorary Symposium on Lens Research**, Differential display age-related gene expression changes in the eye lens. Long Island, NY
- 2003** **European Association for Vision and Eye Research Conference**, Increased expression of osteonectin in age-related human cataract, Alicante, Spain
- 2002** **XV International Conference on Eye Research**, The role of metallothioneins in the maintenance of lens transparency. Geneva, Switzerland

2002	Kansas State University , Department of Biology. Lens transparency and gene expression. Manhattan, KS
2002	Ashland College, Department of Biology . Global analysis of gene expression. Ashland, Ohio
2001	National Eye Institute, NIH , -Gene Expression and age-related cataract
2001	UCLA Medical School, Jules Stein Eye Institute , Differential Induction of Human Lens Metallothioneins. Los Angeles, CA
2001	Johns Hopkins University School of Medicine, Department of Ophthalmology , Gene Expression and Human Cataract, Baltimore MD
2000	West Virginia University, Department of Ophthalmology , Differential Expression of Cataract responsive Genes. Morgantown, WV
1999	West Virginia University, College of Arts and Sciences Homecoming Lecture , Journey Into the New Mellenium: Understanding Genes and Genomes Morgantown, WV
1999	Einstein College of Medicine, Department of Ophthalmology , Differential Display and Gene Expression in Cataractogenesis. Bronx, NY
1999	West Virginia University, Department of Biochemistry , Techniques in Gene Expression Analysis. Morgantown, WV
1999	National Eye Institute, NIH , Differential Display analysis of cataract responsive genes.

LABORATORY AND RESEARCH MENTORING

Post-doctoral Fellows and Research Professors

Lisa Brennan PhD	Research Professor-2007-present
Josua Disatham PhD	Post-doctoral Fellow 2022-present
Yoni Hertz PhD	Assistant Research Professor 2014-2015
Wanda Lee PhD	Senior Post-doctoral Fellow 2007-2009
Maria Marchetti PhD	Assistant Research Professor-2004- 2006
Weiyan Zhang MD	Post-doctoral Fellow-1999-2001

PhD and MS Students Directed as Chair

Oze Elimelech	PhD Thesis Student 2024-present
Melissa Campo	PhD Thesis Student 2024-present
Jamie Moubarak	MS Thesis Student 2023-2025
Oliver Peltier	PhD Thesis Student 2022-2024
Oze Elimelech	MS Thesis Student 2022-2023
Adedamola (Dami) Adele	MS Thesis Student 2020-2023
Judy Yang	MS Thesis Student 2020-2023
Rachel Zabizhin	MS Thesis Student 2020-2023
Joshua Disatham	PhD Thesis Student 2017-2022
David Blanco	MS Thesis Student 2018-2020
Angie Posada	MS Thesis Student Graduated 2019
Patrice Cherubin	MS Thesis Student Graduated 2019
Kawther Elsouiri	MS Thesis Student Graduated 2019
Daniel Chauss	PhD Thesis Student Graduated 2016
Olga Bakina	MS Thesis Student Graduated 2016
Josef Khoury	MS Thesis Student, Graduated 2015
Alex Loumakis	MS Thesis Student Graduated 2015
Karem Aktan	MS Thesis Student Graduated 2015
Lyndzie Matucci	MS Thesis Student Graduated 2013
Daniel Chauss	MS Thesis Student Graduated 2012
Rebecca McGreal	PhD Thesis Student Graduated 2012
Wanda Lee	PhD Thesis Student Graduated 2007
Tracy Cowell	MS Thesis Student Graduated 2006
John Hawse	PhD Thesis Student Graduated 2004
Brian Oppermann	MS Thesis Student Graduated 2002

Medical, BS and HS Research Students Directed

Amber Mohammad	Undergraduate Research Student 2022-2023
Alison Ceseras	Undergraduate Research Student 2022-2023
Sydney Richner	Undergraduate Research Student 2020-2021
Lauren Dally	Medical Research Student 2017-2018
Evan Dillican	Undergraduate Research Student 2015-2017
Daniel Daroszewski	Medical Research Student 2014-2015
Steven Freeland	Medical Research Student 2014-2015
J.D.Wilcox	Medical Research Student 2013-2014
Victoria Gau	Medical Research Student 2012-2013
Sara Anastasis	Medical Research Student, 2012-2013
Aaron Weiss	Medical Research Student 2009-2010
Alex Diaz	Undergraduate Research Student 2009
Mary Mercer	Medical Research Student 2009-2010

Marie Barnicoat	Undergraduate Research Student 2009-2010
Emily Braun	Undergraduate Research Student 2009-2010
Charles Goldring	HS Research Student 2009-2010
Michael Markosian	Medical Research Student 2008-2009
Michael Demos	Medical Research Student 2008-2009
Sarah Wolochatiuk	HS Research Student 2007-2008
Chris DeLeo	Medical Research Student 2005-2006
Casandra Donaudy	Undergraduate Research Student 2005-2006
Valerie Peicher	HS Research Student 2005-2006
Eric Karlin	Medical Research Student 2005-2006
Marie Barthelemy	Undergraduate Research Student 2004-2005
Candy Deamicus	Undergraduate Honors Research Student 2003-2005
Gresin Pizzaro	Undergraduate Student 2003-2004
Tracy Cowell	Undergraduate Honors Research Student 2002-2003
Tressa Jones	Undergraduate Honors Research Student 2001-2003
Eric Peterson	Undergraduate Honors Research Student 2001-2003
Ben Lopez	Undergraduate Honors Research Student 2002-2003

COURSES TAUGHT

Spring	2025	Human Genetics 39 students (graduate)
Spring	2024	Human Genetics 36 students (graduate)
Spring	2023	Human Genetics 42 students (graduate)
Spring	2022	Human Genetics 44 students (graduate)
Spring	2021	Human Genetics 43 students (graduate)
Spring	2020	Human Genetics 38 students (graduate)
Spring	2019	Human Genetics 39 students (graduate)
Spring	2018	Human Genetics 33 students (graduate)
Fall	2017	Human Genetics 36 students (graduate)
Spring	2016	Human Genetics 31 students (graduate)
Spring	2015	Human Genetics 30 students (graduate)
Fall	2014	Molecular Cell and Biology 25 students (graduate) Problem Based Learning 8 students (medical)

Fall	2013	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 students (medical)
Fall	2012	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 students (medical) Molecular Cell and Biology 25 students (graduate)
Fall	2011	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 students (medical)
Fall	2010	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 students (medical) Molecular Cell and Biology 25 students (graduate)
Fall	2009	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 students (medical)
Spring	2009	Molecular Cell and Biology 25 students (graduate)
Fall	2008	Molecular Genetics 15 lectures 64 students (medical) Problem Based Learning 8 Students (medical)
Spring	2007	Topics in Biomedical Science 25 students (graduate)
Fall	2006	Molecular Genetics 30 students (medical)
Spring	2006	Biomedical Seminar 15 students (graduate)
Fall	2004	Biomedical Seminar 15 students (graduate)
Spring	2004	Biomedical Seminar 15 students (graduate)
Fall	2003	Biomedical Sciences I 25 students (graduate) Intro to Biomedicine 30 (UG)
Fall	2002	Biology 219 The Living Cell -lecture + 9 lab sections 223 students (UG)
Spring	2002	Biology 709H Scientific Writing 6 students (graduate)
Fall	2001	Biology 219 The Living Cell -lecture +9 lab sections 227 students (UG)
Spring	2001	Biology 311 Advanced Cell and Molecular Biology- 69 students (UG)

Fall	2000	Biology 709H Scientific Writing 13 students (graduate)
Fall	2000	Biology 609 Biology Graduate Seminar 15 students (Graduate)
Spring	2000	Biology 311 Advanced Cell and Molecular Biology 60 students (UG)
Fall	1999	Biology 219 The Living Cell -lecture +9 lab sections 219 students (UG)

SERVICE TO THE PROFESSION

Grant Reviews and Study Sections

2020-2025	Standing Member NIH, Biology and Development of the Eye Study Section.
2019	Reviewer ad hoc NIH, Biology of the Visual System Study Section
2018	Reviewer NIH, Visual Cell Biology Special Emphasis Panel
2017	Chair and Reviewer NIH, Membrane Biology and Protein Processing Special Emphasis Panel.
2017	Reviewer ad hoc NIH, Biology Visual System Study Section
2016	Reviewer ad hoc NIH, Biology Visual System Study Section
2015	Reviewer ad hoc NIH, Biology Visual System Study Section
2014	Reviewer ad hoc NIH Cell Biology Special Emphasis Panel
2014	Reviewer ad hoc NIH Biology Visual System Study Section
2013	Chair and Reviewer ad hoc NIH Vision Special Emphasis Panel
2013	Reviewer ad hoc NIH, Biology Visual System Study Section

2013	Reviewer ad hoc NIH Special Emphasis Study Section
2012	Chair and Reviewer NIH, Cell Biology Special Emphasis Study Section
2010	Reviewer ad hoc National Institutes of Health, Visual Science Special Emphasis Panel
2010	Reviewer ad hoc National Institutes of Health
2009	Reviewer ad hoc National Institutes of Health, Anterior Eye Diseases
2008	Reviewer Department of Defense, Visual Sciences
2007	Reviewer Medical Research Council
2006	Reviewer: National Science Foundation-Cell Biology Group
2004	Reviewer Wellcome Trust Research Foundation (UK)
2001	Reviewer Wellcome Trust Research Foundation (UK)
1999	Reviewer Veterans Administration

Editorial Memberships

2024-present	Associate Editor -Investigative Ophthalmology & Visual Science
2018-2024	Editorial Board Member -Investigative Ophthalmology & Visual Science
2020-present	Editorial Board Member-Antioxidants
2012-present	Editorial Board Member-Journal of Molecular Vision
2001	Guest Editorial Board Member Investigative Ophthalmology and Visual Science
1999	Guest Editorial Board Member Investigative Ophthalmology and Visual Science

Other Service to the Profession

Association of American Medical Colleges (AAMC) Graduate Research, Education and Training (GREAT) Group Member 2017-present

International Society of Eye Research Fundraising Committee (2021-present)
International Society Eye Research Members in Training Committee 2014-2015

Association for Research in Vision Ophthalmology Members in training Committee 2012-2015.

National Eye Institute, NIH Audacious Goals Planning Committee 2012

National Alliance For Eye and Vision Research ARVO congressional advocate 2011

MEETING AND CONFERENCE ORGANIZATION

2023	Session Organizer: Multiomic analysis of lens development. International Conference on the Lens. Kona, Hawaii.
2023	Session Organizer: International Conference of Eye Research (ICER). Oxygen and Redox Regulation of the Eye Lens. Gold Coast Australia.
2022	Session Organizer: Autophagy in the lens. International Conference on the Lens. Kona, Hawaii.
2021	Symposia Co-Chair: Oxidative Stress in the Eye. Association for Vision Research and Ophthalmology Meeting (ARVO). May 2021. Denver Colorado.
2020	Session Co-organizer: Oxygen regulation of Lens Homeostasis and Development. International Conference Eye Research, Buenos Aries, Argentina (Canceled due to COVID).
2019	Session Co-organizer and Co-Chair Oxygen and Redox Regulation on lens differentiation, homeostasis and transparency. International Conference on the Lens, Kona, Hawaii
2018	Session Co-organizer and Chair- Redox Biology of the Eye Lens, International Conference Eye Research, Belfast, Ireland.

- 2017** Meeting Co-organizer - International Conference on Lens Research, Kona, Hawaii
- 2017** Session Organizer and Co-Chair, Lens Gene Expression, International Conference on Lens Research, Kona, Hawaii
- 2016** Session Moderator Cataractogenesis Association for Research in Vision and Ophthalmology Seattle Washington
- 2015** Program Committee International Conference on Lens Research, Kona Hawaii
- 2015** Session Moderator Cataract Mechanisms International Conference on Lens Research, Kona Hawaii
- 2015** Session Moderator Fiber cell biology Association for Research in Vision and Ophthalmology Denver CO
- 2014** Session Moderator Death and Differentiation: Novel Pathways in the lens. XXI International Congress for Eye Research, San Francisco, CA
- 2013** Panel Discussion Member Mitochondria in Ocular Health and Disease Symposium Jefferson University, Philadelphia, PA
- 2013** Session Moderator Cataract Mechanisms Association for Research in Vision and Ophthalmology, Seattle, WA 2013
- 2012** Session Moderator Lens Gene Regulation Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL, 2012
- 2011** Session Moderator Oxidative Stress and Lens Protective/Repair Mechanisms paper session. Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL, May 5, 2011
- 2010** Lens Program Co-Chair International Conference on Eye Research Meeting Montreal, Canada 2010.
- 2010** Lens Program Chair Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL
- 2010** Session Moderator Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL Lens Oxidation and repair
- 2009** Lens Program Committee Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL

- 2009** Session Moderator Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL
Cataract Mechanisms and Lens Defense
- 2008** Lens Program Committee Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL
- 2008** Session Moderator Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL. Oxidative Stress, Protection and Repair Mechanisms
- 2008** Young Investigator Session Organizer: International Conference on Eye Research Meeting Beijing, China 2008.
- 2007** Lens Program Committee Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL
- 2007** Session Organizer, Moderator and Speaker: Association for Research in Vision and Ophthalmology, Ft. Lauderdale, FL. Sunday Symposium, "The Role of Mitochondria in Oxidative Eye Disease"
- 2006** Session Chair International Conference on Eye Research Meeting. Buenos Aires Argentina 2006. Transcriptional Biology of the Eye
- 2005** Session Moderator Protection against Cell Death in the Lens. Association for Research in Vision and Ophthalmology meeting, Ft. Lauderdale FL
- 2004** Session Moderator Lens gene expression. European Vision and Eye Research meeting, Alicante, Spain
- 2004** Session moderator Lens Life and Death in the Lens Session. Association for Research in Vision and Ophthalmology Ft. Lauderdale FL
- 2003** Session moderator Lens Animal Models Session. Association for Research in Vision and Ophthalmology meeting, Ft. Lauderdale FL
- 2002** Session Moderator Oxidative Stress Session, Cooperative Cataract Meeting Kona, HI
- 1999** Special Interest Group Symposia Organizer, Recent Advances in Gene expression technology. Association for Research in Vision and Ophthalmology meeting, Ft. Lauderdale FL.
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ACADEMIC SERVICE AND COMMITTEES

2024-present	College of Medicine Associate Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series. Chair, Integrative Biology Biomedical Science PhD Program Committee Chair, Graduate Strategic Planning Committee Executive Committee Integrated Biology PhD Program AAMC Graduate, Research, Education and Training Group Chair, COM Advising Committee Chair, COM Faculty Mentoring Committee Member COM Executive Leadership Committee Member FAU Graduate Associate Deans Committee Member COM Dean Search Committee Member Neurology Department Faculty Search Committee Chair, Residents Dispute Resolution Committee Biomedical Science Faculty Search Committee
2023-present	College of Medicine Associate Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series. Chair, Integrative Biology Biomedical Science PhD Program Committee Chair, Graduate Strategic Planning Committee Executive Committee Integrated Biology PhD Program AAMC Graduate, Research, Education and Training Group Chair, COM Advising Committee Chair, COM Faculty Mentoring Committee COM Space Committee Member COM Executive Leadership Committee Member COM Strategic Planning Committee Member FAU Graduate Associate Deans Committee Director I-HEALTH Genetics Group Member COM Dean Search Committee Member Neurology Department Faculty Search Committee Chair, Residents Dispute Resolution Committee
2022-2023	College of Medicine Associate Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series.

Chair, Integrative Biology Biomedical Science PhD Program
 Committee
 Chair, Graduate Strategic Planning Committee
 Executive Committee Integrated Biology PhD Program
 AAMC Graduate, Research, Education and Training Group
 Chair, COM Advising Committee
 Chair, COM Faculty Mentoring Committee
 COM Space Committee
 COM Executive Leadership Committee
 COM Strategic Planning Committee
 Graduate Associates Deans Committee
 Director I-HEALTH Genetics Group

2021-2022

College of Medicine Associate Dean for Graduate Programs
 Coordinator, College of Medicine Distinguished Research Seminar
 Series.
 Chair, Integrative Biology Biomedical Science PhD Program
 Committee
 Chair, Graduate Strategic Planning Committee
 Executive Committee Integrated Biology PhD Program
 AAMC Graduate, Research, Education and Training Group
 Health Equity Search Committee
 COM Faculty Mentoring Committee
 COM Space Committee
 FAMU Pipeline Committee
 Extended Executive Leadership Committee
 COM Strategic Planning Committee
 Graduate Associates Deans Committee
 Director I-HEALTH Genetics Group

2020-2021

College of Medicine Associate Dean for Graduate Programs
 Coordinator, College of Medicine Distinguished Research Seminar
 Series.
 Chair, Integrative Biology Biomedical Science PhD Program
 Committee
 Chair, Graduate Strategic Planning Committee
 Executive Committee Integrated Biology PhD Program
 AAMC Graduate, Research, Education and Training Group
 COM Dean Search Committee
 COM Space Committee
 Provost Committee on Faculty Teaching Development
 Extended Executive Leadership Committee
 COM Strategic Planning Committee
 Graduate Associates Deans Committee
 Chair BMS Faculty Research Working Group

2019-2020	College of Medicine Associate Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series. Chair, Integrative Biology Biomedical Science PhD Program Committee Chair, Graduate Strategic Planning Committee Executive Committee Integrated Biology PhD Program AAMC Graduate, Research, Education and Training Group Chair BMS Faculty Search Committee COM Space Committee Extended Executive Leadership Committee COM Strategic Planning Committee Graduate Associates Deans Committee
2018-2019	College of Medicine Assistant Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series. Provosts Committee on Faculty Teaching Development Chair, Integrative Biology Biomedical Science PhD Program Committee Chair, Graduate Strategic Planning Committee Executive Committee Integrated Biology PhD Program Tenured Faculty Committee (P&T) AAMC Graduate, Research, Education and Training Group
2017-2018	College of Medicine Assistant Dean for Graduate Programs Coordinator, College of Medicine Distinguished Research Seminar Series Chair, Biomedical Science, 7-year Review Committee Chair, Graduate Strategic Planning Committee Chair, Integrative Biology Biomedical Science PhD Program Committee Executive Committee Integrated Biology PhD Program Tenured Faculty Committee (P&T) AAMC Graduate, Research, Education and Training Group Committee for Developing New MS in Data Science and Analytics Exploratory Task Force for New Department in Biomedical Engineering
2016-2017	College of Medicine Assistant Dean of Graduate Programs

	Coordinator, College of Medicine Distinguished Research Seminar Series Chair, Graduate task force committee Charles. E. Schmidt College of Medicine, Dean Search Committee Tenured Faculty Committee (P&T) AAMC Graduate, Research, Education and Training Group
2015-2015	College of Medicine Director of Graduate Programs Coordinator College of Medicine Distinguished Research Seminar Series Chair, Graduate task force committee Biomedical Science Science Chair search committee LCME accreditation committee-graduate programs and faculty development Tenured Faculty Committee (P&T)
2013-2014	Graduate Committee Research Committee Tenured Faculty Committee (P&T) LCME accreditation committee-graduate programs and faculty development
2011-2012	Graduate Committee Research Committee Tenured Faculty Committee (P&T)
2011-2012	Graduate Committee Research Committee Tenured Faculty Committee (P&T)
2010-2011	Graduate Committee Research Committee Tenured Faculty Committee (P&T)
2009-2010	Graduate Committee Research Committee Tenured Faculty Committee (P&T) CMBB-Biomed Seminar Coordinator
2008-2009	Graduate Committee Research Committee Tenured Faculty Committee (P&T) CMBB-Biomed Seminar Coordinator Biomedical Science Chair Search Committee

2007-2008	Graduate Committee Research Committee Tenured Faculty Committee (P&T) CMBB-Biomed Seminar Coordinator University Outdoor Activities Committee University Background Investigation Committee
2006-2007	Associate Chair- Biomedical Science Chair: Basic Science Curriculum Planning Committee Chair of Annual Review Committee Chair of Integrative Biology PhD Admissions Committee Graduate Committee Research Committee Tenured Faculty Committee (P&T)
2005-2006	Associate Chair- Biomedical Science Chair of Annual Review Committee Chair of Integrative Biology PhD Admissions Committee Graduate Committee College Strategic Planning Committee Research Committee Tenured Faculty Committee (P&T) CMBB/Biomedical Seminar Series Coordinator
2004-2005	Graduate Committee CMBB-Biomed Seminar Coordinator College Strategic Planning Committee Research Committee Tenured Faculty Committee (P&T) Integrative Biology PhD Admissions Committee
2003-2004	Chairs Advisory Committee-WVU Graduate Committee-WVU/FAU Seminar Coordinator-WVU/FAU College Faculty Committee-FAU Research Committee-FAU Promotion and Tenure Committee (P&T)-FAU
2002-2003	Chairs Advisory Committee Biology Promotion and Tenure committee Graduate Committee Seminar Coordinator Developmental biologist search committee
2001-2002	Chairs Advisory Committee Biology Promotion and Tenure committee

	Eberly College Outstanding Researcher Awards Committee
2000-2001	Chair Environmental Physiologist Search Comm. Chairs Advisory -CFAC committee Biology Promotion and Tenure committee Eberly College Outstanding Researcher Awards Committee
1999-2000	Chairs Advisory Committee, Department of Biology, WVU Department of Biology Awards Committee, WVU Forensics Search committee
1995-1996	NIH Fellows Research Awards Review Committee
1995-1996	Foundation for Advanced Education in the Sciences Fellows Employment Committee
1994-1996	National Eye Institute Fellows Placement Committee

Fellowships and Organizational Memberships

Gold Fellow Association for Research in Vision and Ophthalmology.

Association for Research in Vision and Ophthalmology.

European Association for Vision and Eye Research.

International Society for Eye Research

ABSTRACTS (* platform)

1. *Epigenetic programming regulates lens fiber cell gene expression to achieve lens fiber cell form and function and is dependent on the hypoxic environment of differentiating lens fiber cells. Association for Research in Vision and Ophthalmology (ARVO). New Orleans, LA. May 2023, Lisa Brennan, Joshua Disatham and **Marc Kantorow**.

2. *Multiomic analysis of HIF1a binding, regulation and gene expression combined with characterization of novel lens conditional HIF1a KO mice reveals essential requirements for hypoxia and HIF1a in mature lens formation. Association for Research in Vision and Ophthalmology (ARVO). New Orleans, LA. May 2023, Joshua Disatham, Lisa Brennan and **Marc Kantorow**.
3. *Multiomic Analysis Reveals Novel Requirements For Lens Cell Differentiation” International Conference on Eye Research (ISER) Gold Coast, Australia. February 2023. **Marc Kantorow**, Joshua Disatham, and Lisa Brennan
4. *Effects of lens-conditional HIF1 knockout on lens fiber cell organelle elimination, gene expression and morphology” International Conference on Eye Research (ISER) Gold Coast, Australia. February 2023. Joshua Disatham, Lisa Brennan and **Marc Kantorow**.
5. *”Hypoxia Regulation of the epigenetic landscape of differentiating lens fiber cells” International Conference on Eye Research (ISER) Gold Coast, Australia. February 2023. Lisa Brennan, Joshua Disatham and **Marc Kantorow**.
6. *”Hypoxia and Oxidative stress in eye lens homeostasis, development and disease” Association for Research in Vision and Ophthalmology (ARVO). Denver Colorado. May 2021 **Marc Kantorow**, Joshua Disatham and Lisa Brennan.
7. *”Genome-wide regulation and function of HIF1 in eye lens homeostasis, differentiation and structure” Association for Research in Vision and Ophthalmology (ARVO). Denver Colorado. May 2021 Joshua Disatham, Lisa Brennan and **Marc Kantorow**.
8. *”Hypoxia regulates lens fiber cell differentiation to form the mature transparent eye lens” Lisa A. Brennan, Joshua Disatham and **Marc Kantorow**. paper presentation at the Association for Research in Vision and Ophthalmology (ARVO) meeting Baltimore, MD, May 2020. *Meeting cancelled*.
9. *”Hypoxia regulation of lens structure and function” Lisa Brennan, Joshua Disatham, **Marc Kantorow**. Paper ” XXIV International Congress for Eye Research, Buenos Aires, Argentina. Oct 2020 *Meeting Canceled*
10. “Genome-wide chromatin mapping and transcriptome analysis reveals chromatin regulation as a novel mechanism for controlling gene expression during lens differentiation”. Joshua Disatham¹, D. Chauss², R. Gheys³, L. A. Brennan¹, D. Blanco¹, L. Daley¹, A. Menko³, **M. Kantorow**¹. Poster presentation by Joshua Disatham at the Association for Research in Vision and Ophthalmology (ARVO) meeting Vancouver, May 2019.

11. *Chromatin Regulation of lens gene expression and differentiation". Joshua Disatham, Lisa Brennan, A. Sue Menko, **Marc Kantorow**, Association for Research in Vision and Ophthalmology "Vancouver CA, May 2019
12. *Hypoxia regulation of lens structure and function". Lisa Brennan, Joshua Disatham, **Marc Kantorow**. Sept 2018. XXIII International Congress for Eye Research. Belfast, UK.
13. *Hypoxia Regulation of lens remodeling" **Marc Kantorow**, Joshua Disatham and Lisa Brennan, International Conference on Lens Research. Kona Hawaii, December 2018.
14. *Hypoxia controls lens fiber cell remodeling by regulating the elimination of mitochondria, endoplasmic reticulum and Golgi apparatus through HIF1-directed transcriptional regulation of BNIP3L expression. **Marc Kantorow**, Joshua Disatham, Rebecca McGreal, Caitlin Logan, Sue Menko, Ales Cvekl and Lisa Brennan, Conference on Lens Research 2017, Kona Hawaii
15. *Elimination of Mitochondria, Endoplasmic Reticulum and Golgi during lens cell differentiation to form the lens organelle-free zone requires the mitophagy protein BNIP3L and is regulated by the transcription factor HIF1 α . Lisa Brennan, Rebecca McGreal, Caitlin Logan, Ales Cvekl, A. Sue Menko, and **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2017, Baltimore, MD.
16. A role for the PI3K regulator PIK3IP1 in signaling the autophagy-dependent removal of organelles during lens development. Rifah Gheyas, Lisa A. Brennan, **Marc Kantorow**, A Sue Menko. Association for Research in Vision and Ophthalmology 2017, Baltimore, MD.
17. * α -crystallin prevents mitochondrial ROS release and apoptosis by protecting cytochrome c. **Marc Kantorow** and Lisa Brennan International Conference on Lens Research 2016, Kona Hawaii
18. *Oxidative Stress Regulation of Organelle Function by α -Crystallin. Marc Kantorow, Lisa Brennan, Kyran Bharath, Josef Khoury. XXII International Conference on Eye Research, 2016, Tokyo, Japan
19. *Mitochondrial and Nuclear Translocation by α -Crystallin and Protection of Lens Cells Against UV-light and Oxidative Exposures. Lisa Brennan, Rebecca McGreal, Dan Chauss, Josef Khoury, Larry David, Sue Menko and **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2016, Seattle, WA.

20. *BNIP3L/Nix is required for mitochondrial elimination through mitophagy and the subsequent elimination of endoplasmic reticulum during the lens fiber cell differentiation program. Lisa Brennan, Karem Aktan, Suren Rajakaruna, Rebecca McGreal, Daniel Chauss, Ales Cvekl, A. Sue Menko, **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2015, Denver, CO.
21. Parkin-directed mitophagy is required for lens cell survival upon exposure to cataract-associated environmental insults. **Marc Kantorow**, Karem Aktan , Daniel Chauss , Lisa A. Brennan. Association for Research in Vision and Ophthalmology 2015, Denver, CO.
22. *Integrin $\alpha V\beta 5$ -mediated phagocytosis by lens epithelial cells increases cell survival under apoptotic condition. **Marc Kantorow**, Daniel Chauss, Lisa Brennan. XXI International Congress for Eye research, San Francisco, July 21st 2014.
23. *Parkin-directed mitophagy governs lens epithelial cell mitochondrial degradation under oxidative stress conditions. Lisa Brennan, Daniel Chauss, **Marc Kantorow**. XXI International Congress for Eye research, San Francisco, July 21st 2014.
24. *Mitochondrial dynamics in the eye lens from development through cataract formation. **Marc Kantorow** in Minisymposium: Autophagy and Proteolysis in Ocular Health and Disease. Wed 7th May 2014. Association for Research in Vision and Ophthalmology 2014, Orlando, FL
25. *Parkin regulates mitochondrial quality control in oxidative stress-treated lens epithelial cells through mitophagy. Lisa A. Brennan, Daniel Chauss, Subhasree Basu, A S. Menko and **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2014, Orlando, FL
26. *Lens epithelial cells use phagocytosis as a mechanism to remove apoptotic cellular debris. Daniel Chauss, Lisa A. Brennan, Bettina Teng and **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2014, Orlando, FL
27. Chaperone-independent mitochondrial translocation, oxidative stress protection and prevention of apoptosis by αB -crystallin. Bettina Teng, Rebecca S. McGreal, Daniel Chauss, Lisa A. Brennan and Marc Kantorow. Association for Research in Vision and Ophthalmology 2014, Orlando, FL
28. Autophagy pathways of the eye lens and their potential functions in lens protection and differentiation. **Marc Kantorow**, Dan Chauss, J. Fielding Hejtmancik and Lisa Brennan.

29. *The role of autophagy in lens maintenance, protection and differentiation. **M. Kantorow**, L.A. Brennan, W. Lee Kantorow, D. Chauss, R.S. McGreal, A. Riazuddin, A. Cvekl, J.F. Hejtmancik. XX International Congress for Eye research, Berlin, July 2012.
30. *Repair of α -crystallin chaperone activity by MsrA and protection of lens mitochondria. L. Brennan, R.S. McGreal, W. Lee Kantorow, D. Chauss, **M. Kantorow**. XX International Congress for Eye research, Berlin, July 2012.
31. FYCO1 implicated in the pathogenicity of autosomal recessive congenital cataracts. S.A. Riazuddin, J. Chen, Z. Ma, X. Jiao, R. Fariss, W.L. Kantorow, **M. Kantorow**, E. Pras, M. Frydman, E. Pras, S. Riazuddin, J.F. Hejtmancik. XX International Congress for Eye research, Berlin, July 2012.
32. The role of FYCO1 in lens and retinal autophagy. W. Lee Kantorow, L. Brennan, D. Chauss, L. Walsh, S. He, A. Cvekl, S.A. Riazuddin, J.F. Hejtmancik, **M. Kantorow**. XX International Congress for Eye research, Berlin, July 2012.
33. ***Marc Kantorow**, Wanda Lee Kantorow, Lisa A. Brennan, Daniel Chauss, Amer Riazuddin, Ales Cvekl, James F. Hejtmancik. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL
34. FYCO1 mutations and function in autosomal recessive congenital cataract. James F. Hejtmancik, Jianjun Chen, Zhiwei Ma, Xiaodong Jiao, Wanda L. Kantorow, Eran Pras, Moshe Frydman, Sheikh Riazuddin, **Marc Kantorow**, S. Amer Riazuddin. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL
35. *The role of FYCO1 and autophagy in lens defense, differentiation and cataract formation. Marc Kantorow, Wanda Lee Kantorow, Lisa A. Brennan, Daniel Chauss, Amer Riazuddin, Ales Cvekl, James F. Hejtmancik. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL.
36. α B-crystallin protects lens and retinal cell mitochondrial function under oxidative stress conditions. Rebecca S. McGreal, Daniel C. Chauss, Wanda Lee, Jianning Wei, Lisa A. Brennan, **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL
37. The Characterization of FYCO1 Expression and Function in Lens and Retinal Cells. Wanda Lee, Lisa A. Brennan, Daniel Chauss, Shuying He, Amer Riazuddin, Ales Cvekl, James F. Hejtmancik, **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2012, Ft. Lauderdale, FL
38. * α -crystallin Protects against apoptosis in lens cells by directly protecting cytochrome c against methionine oxidation. Rebecca S. McGreal, Lisa A.

Brennan, Wanda Lee, Daniel Chauss, **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2011, Ft. Lauderdale, FL

39. TXNL6 is a novel oxidative stress-inducible activator of MsrA repair in lens and retina. Wanda Lee, Lisa A. Brennan, **Marc Kantorow**. Association for Research in Vision and Ophthalmology 2011, Ft. Lauderdale, FL
40. *MsrA repair of cytochrome c and alpha crystalline chaperone and oxidative repair pathways with mitochondrial protection and apoptotic control in lens cells. **M. Kantorow**, L. Brennan, R. McGreal, W. Lee, L. David, and F. Giblin. EVER 2010. Crete, Greece.
41. Thioredoxin-like protein 6 (TXNL6) is an H₂O₂ inducible reducing system for methionine sulfoxide reductase A (MsrA) repair of oxidized proteins whose expression increases upon aging in the human lens. W. Lee, L. Brennan, R. McGreal, and **M. Kantorow**. EVER 2010. Crete, Greece.
42. *Cytochrome c and Alpha Crystallin are repaired by MsrA which can serve to protect lens mitochondria and play a role in apoptosis. **M. Kantorow**. XIX International Conference on Eye Research. 2010. Montreal, Canada
43. Alpha crystallin and cytochrome c form mitochondrial complexes with MsrA in lens and heart cells. R. McGreal, W. Lee, L. Brennan and **M. Kantorow**. XIX International Conference on Eye Research. 2010. Montreal, Canada
44. TXNL6 is expressed by the aging human lens and can serve as a lens reducing system for MsrA. W. Lee, L. Brennan, R. McGreal, and **M. Kantorow**. XIX International Conference on Eye Research. 2010. Montreal, Canada
45. * Repair of α -Crystallin Chaperone Activity by MsrA: Implications for α -Crystallin Function in the Lens and Other Tissues. **M. Kantorow** 2010. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
46. * TXNL6 (RdCVF) is a Novel Lens Reducing System Required for MsrA Repair of α -Crystallin and Cytochrome c. L.A. Brennan¹, W. Lee¹, R. McGreal¹, L. David², **M. Kantorow**¹ 2010. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
47. α -Crystallin and Cytochrome C Form a Mitochondrial Complex With MsrA in Lens Cells. R. McGreal, W. Lee, M. Demos, L. Brennan, **M. Kantorow**. 2010 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
48. Expression and Localization of a Novel Lens Reducing System Called Thioredoxin-Like Protein 6 (TXNL6) in Human Lens and Retina. W. Lee, M. Demos, R. McGreal, L. Brennan, **M. Kantorow**. 2010. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.

49. * Restoration of Cytochrome c and α Crystallin Function by MsrA Repair Suggests an Important Role for Methionine Oxidation in Lens Epithelium Function and Cataract. L.A. Brennan¹, W. Lee¹, M. Markosian¹, M. Demos¹, F. Giblin², **M. Kantorow**¹. 2009. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
50. MsrA repair and restoration of alpha-crystallin function in the lens. L. Brennan, W. Lee, and M. Kantorow. XVIII International Conference on Eye Research, 2008. Beijing, China.
51. Methionine sulfoxide reductase A is a lens redox sensor acting through Cyt c repair. W. Lee, L. Brennan, A. Sur, and **M. Kantorow**. XVIII International Conference on Eye Research, 2008. Beijing, China.
52. *MsrA repair of Cytochrome c and alpha crystallin function in human lens epithelium and cataract. **M. Kantorow**, L. Brennan, and W. Lee. XVIII International Conference on Eye Research, 2008. Beijing, China.
53. Molecular Characterization of a Sorsby Fundus Dystrophy (SFD) Mutants of TIMP-3. A. Hamze, W. Lee, **M. Kantorow**, K. Brew. 2007 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
54. *Critical Role of MsrA in Repair of Oxidized Cytochrome c for Mitochondrial Function and Apoptosis. L.A. Brennan, W. Lee, A. Sur, T. Cowell, F. Giblin, and **M. Kantorow**. 2007. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
55. *Sunday Symposium as Co-organizer and speaker. The Role of Mitochondria in Oxidative Eye Disease. **M. Kantorow** 2007. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
56. *MsrA and Peroxiredoxin 3 are required for mitochondrial function in human lens cells and protects lens cells against oxidative stress damage. **M. Kantorow** and W. Lee. XVII International Conference on Eye Research, 2006. Buenos Aires, Argentina.
57. *Peroxiredoxins I-VI are induced by H₂O₂ in human lens cells and mitochondrial-specific PRX3 protects lens cells against oxidative stress damage. W. Lee, M.A. Marchetti, T.M. Wells, E. Karlin, C. DeLeo, **M. Kantorow**. Investigative Ophthalmology and Visual Science_2006. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
58. MsrA is required for mitochondrial function in human lens cells. M. Marchetti, T.L. Cowell, T.M. Wells, **M. Kantorow**. Investigative Ophthalmology and Visual

Science 2006. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.

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60. *Expression and Localization of Methionine Sulfoxide Reductase A in the Retina. N.V. Gordiyenko, J.W. Lee, M. Marchetti, N. Tserentsoodol, R.N. Fariss, H. Weissbach, **M. Kantorow**, and I.R. Rodriguez. Investigative Ophthalmology and Visual Science 2005. Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
61. * Identification and localization of methionine sulfoxide reductase A in human lens and its direct protection of lens cells against oxidative stress damage. **Marc Kantorow**, John R. Hawse, Jer Kuzak, Gresin O. Pizarro, Venkat Reddy, J. Fielding Hejtmancik International Conference on Eye Research, 2004, Sydney, Australia.
62. *Identification and localization of methionine sulfoxide reductase A in human lens and its direct protection of lens cells against oxidative stress damage. **Marc Kantorow**, John R. Hawse, Tracy L. Cowell, Sonia Habib, Gresin O. Pizarro, Venkat Reddy, J. Fielding Hejtmancik. Investigative Ophthalmology and Visual Science 2004 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
63. *Genomic and bioinformatics identification of human lens cell differentiation pathways. John R. Hawse, Candy DeAmicus-Tress, Tracy L. Cowell and **Marc Kantorow**. Investigative Ophthalmology and Visual Science 2004 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
64. The role of lens metallothioneins in defending against cadmium and oxidative stress. Vanita A. Padgankar, John R. Hawse, Victor R. Leverenz, S.E. Pellica, Frank Giblin and **Marc Kantorow**. Investigative Ophthalmology and Visual Science 2004 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
65. Regional variation in sensitivity of photoreceptors to hyperbaric oxygen treatment in normal and metallothionein-knockout mouse retinas. Michelle Nachman-Clewner, Ling Dang, Frank Giblin, JB Runco, **Marc Kantorow** and Jan Blanks. Investigative Ophthalmology and Visual Science 2004 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.

66. *Identification of cataract-specific genes and their function in lens maintenance and cataract. **Marc Kantorow**, John Hawse, Quinglin Huang, Nancy Sheets, Doug Hosack, Richard Lempicki, J.Fielding Hejtmancik, Joseph Horwitz. EVER Meeting, Alicante, Spain, 2003
67. *Identification and functional clustering of global gene expression differences between age-related cataract and clear human lenses. John Hawse, Quinglin Huang, Nancy Sheets, Doug Hosack, Richard Lempicki, J.Fielding Hejtmancik, Joseph Horwitz and **Marc Kantorow**. Investigative Ophthalmology and Visual Science 2003 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
68. ***Marc Kantorow**, John R. Hawse and Venkat Reddy. Metal-activation and protection by stress-specific genes in the human lens. XV International Conference on Eye Research, Geneva Switzerland. 2002 Experimental Eye Research vol. 72 pg 85.
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74. John Hawse, Venkat Reddy and **Marc Kantorow**. The role of metallothioneins in lens maintenance and cataract. Cooperative cataract research group meeting. November 3, 2001, Kona Hawaii
75. ***Marc Kantorow**, Weiyan Zhang, Quing:Ling Huang, Joseph Horwitz. Decreased expression of ribosomal proteins in age-related human cataract. Cooperative cataract research group meeting. November 3, 2001, Kona Hawaii
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77. J.R. Hawse, B.P. Opperman, W. Zhang, N. Sheets and **M. Kantorow**. Six isoforms of metallothionein are present in adult human lens epithelium. Investigative Ophthalmology and Visual Science 2001: **42**, 549 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
78. J. Hill, **M. Kantorow**, J. Horwitz, M. Posner. Differential Expression and chaperone function of the small heat-shock protein alpha-crystallin in the zebrafish. Joint annual meeting of ASIH and AES. 2001 State College, PA.
79. B.P. Opperman, J. Hawse, W. Zhang, N. Sheets, V.N. Reddy, **M. Kantorow**. Metallothionein IIa is highly induced by toxic metals in cultured human lens epithelial cells. Investigative Ophthalmology and Visual Science 2001: **42**, S673 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
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82. B.P. Oppermann, K.S. Magabo and **M. Kantorow**. Specific expression of metallothionein isoforms in normal human lens. Investigative Ophthalmology and Visual Science 2000: **41**, S629 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
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macular RPE. Investigative Ophthalmology and Visual Science 2000: **41**, S613 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.

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85. ***Deborah Carper, Marc Kantorow**, Frank J. Giblin, N. Ibaraki, L-R Lin, V. N. Ready and Abraham Spector. Differential Display Analysis of Oxidative Stress Models of Cataract. US-Japan Cooperative Cataract Research Conference. 1999 Kona, Hawaii.
86. ***Marc Kantorow**, E. Helene Sage, Ernesto Moreira and Ignacio Rodriquez. Increased Expression of SPARC in Cataractous Human Lenses and Monkey Macula RPE. . Investigative Ophthalmology and Visual Science 1999: **40**, S522 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
87. **Marc Kantorow**, W. Todd Kays, Joseph Horwitz, Qingling Huang, Jennifer Sun, Joram Piatigorsky and Deborah Carper. Differentially-expressed genes between normal and cataractous human lens epithelia. Investigative Ophthalmology and Visual Science 1998: **39**, S522 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
88. C.Y. Gao, **M. Kantorow**, J. Piatigorsky and P. Zelenka. BetaB2-crystallin is an in vitro substrate for CDK5-associated kinase activity in rat lens fiber cells. Investigative Ophthalmology and Visual Science 1998: **39**, S788 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
89. Y.S. Xu, **M. Kantorow** and J. Piatigorsky. Isolation and characterization of a corneal protein in zebrafish. Investigative Ophthalmology and Visual Science 1998: **39**, S1039 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
90. ***Marc Kantorow**, Joseph Horwitz. Yuri Sergeev, J. Fielding Hejtmancik and J. Piatigorsky. Extralenticular expression, cAMP-dependent kinase phosphorylation and autophosphorylation of BetaB2-crystallin. Investigative Ophthalmology and Visual Science 1997: **38**, S520 Association for Research in Vision and Ophthalmology. Ft. Lauderdale, Florida.
91. ***M. Kantorow**, A. Cvekl and J. Piatigorsky. Regulation of PAX-6 gene expression in the lens. Investigative Ophthalmology and Visual Science 1996: **37**, S987 Association for Research in Vision and Ophthalmology. Sarasota, Florida.
92. ***M. Kantorow**, J. Horwitz, M.A.M. van Boekel, W. W. deJong and J. Piatigorsky. Tetramerization enhances autophosphorylation of lens α A-crystallin. Investigative

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94. ***M. Kantorow** and J. Piatigorsky. A-crystallin/small heat shock protein has autokinase activity. Investigative Ophthalmology and Visual Science 1994: **35**, S1904 Association for Research in Vision and Ophthalmology. Sarasota, Florida.
95. C.M. Sax, **M. Kantorow**, A. Cvekl, R. Gopal-Srivastava, J.G. Ilagan and J. Piatigorsky. Functional and protein binding analysis of the mouse α A-crystallin PE1 regulatory region Investigative Ophthalmology and Visual Science 1994: **35**, S1706 Association for Research in Vision and Ophthalmology. Sarasota, Florida.
96. ***Marc Kantorow** and Joram Piatigorsky. Alpha-crystallin is an autokinase. Cooperative Cataract Research Group Meeting. 1994. Washington, D.C.
97. Ales Cvekl, **Marc Kantorow**, John F. Klement, Christina M. Sax and Joram Piatigorsky. Analysis of cis-acting elements and alpha-crystallin genes. J. Cell. Biochem. 1993: **17A**, 191. Keystone Symposium: Fundamental Mechanisms of Transcription. Copper Mountain, Colorado.
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99. **Marc Kantorow**, Ales Cvekl, Christina M. Sax and Joram Piatigorsky. In vitro and in vivo comparisons of mouse α A-crystallin footprints reveal differences in factor binding between lens and fibroblast cell lines. J. Cell. Biochem. 1992: **16E**, 181. Keystone Symposium: Fundamental Mechanisms of Transcription. Copper Mountain, Colorado.
100. **Marc Kantorow**, Ales Cvekl, Christina M. Sax and Joram Piatigorsky. Protein-DNA interactions of the mouse α A-crystallin promoter. 1992 NIH Research Festival. Bethesda, MD.
101. Joram Piatigorsky, **Marc Kantorow**, Ales Cvekl, Christina M. Sax, Rashmi Gopal-Srivastava and Peter Frederiske. Molecular Analysis of α A- and α B-crystallin gene expression in lens and non-lens cells. 1992 International Society for Eye Research. Stressa, Italy.

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103. **Marc Kantorow** and Keith McKenney. Site-Specific mutagenesis of the cAMP receptor protein by lac-Z fusion. 1988 Cold Spring Harbor Symposia: The molecular genetics of Bacteria and their Phages. Cold Spring Harbor, New

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EDUCATION

B.A., Smith College, Northampton, MA. Biological Sciences	1990
M.A., Smith College, Northampton, MA. Biological Sciences	1993
Ph.D., University of Massachusetts, Amherst, MA, Molecular and Cellular Biology	2003

CURRENT POSITION

Assistant Dean of Preclinical Curriculum	2023 – present
Professor of Population Health and Social Medicine	2023 – present

PREVIOUS POSITIONS

Director of HealthFirst: Health and Wellness Initiative	2016 - 2025
Associate Professor, Integrated Medical Science Department, Florida Atlantic University	2017 - 2023
M1/M2 Lead Basic Science Course Director, Florida Atlantic University	2020 – 2023
Director of Student Success and Wellness, Florida Atlantic University	2016 - 2020
Assistant Professor, Integrated Medical Science Department, Florida Atlantic University	2013 - 2016
Assistant Professor of Research, Florida Atlantic University, Boca Raton, FL	2009 - 2013
Senior Scientist and Laboratory Manager, Riley Laboratory, University of Massachusetts, Amherst, MA	2005 - 2009
Research Associate, Dorit Laboratory, Smith College, Northampton, MA.	2003 - 2005
Research Technician, Williams Laboratory, Smith College, Northampton, MA.	1993 - 1996

ACADEMIC APPOINTMENTS

Assistant Dean of Preclinical Curriculum and Professor of Population Health, Florida Atlantic University	2023 - present
Course co-Director and Lecturer, Fundamentals of Biomedical Science, Medical School Program, Florida Atlantic University	2013 - 2016, 2020 - 2023
Director of HealthFirst Health and Wellness Initiative (inaugural)	2016 - 2025
Director of Student Success and Wellness, Florida Atlantic University	2016 - 2021
Graduate Instructor, BMS Graduate Program, Florida Atlantic University	2009 - 2012
Lecturer, University of Massachusetts Amherst, MA.	2005 - 2009

OTHER POSITIONS AND EDUCATIONAL CONSULTING

Quillen College of Medicine (East TN): Faculty Development	2022
Louisiana State School of Medicine (Shreveport): Faculty Development	2021 - 2022
Nova Southeastern University: PBL Case Writer & Faculty Development Facil.	2017 - 2019
National Evaluation Systems, Amherst, MA	2002 - 2007
University of Indiana, Bloomington	2002 - 2005
Gwathmey Inc., Cambridge, MA	2000 - 2002
National Institutes of Health, Bethesda, MD	1999
Perkin-Elmer Corporation, Applied Biosystems Division	1999

PATENT AND TECHNOLOGY TRANSFER

Lizotte-Waniewski, M. and Williams S.A. (2001). Polymerase Chain Reaction Assays for the Detection of <i>Dirofilaria immitis</i> in Blood and Mosquitoes. U.S. Docket Number 63051.	2001

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

AAMC Committee on Student Affairs (COSA) Wellbeing Subcommittee	2021 - 2024
AAMC Southern Group on Student Affairs (SGSA) Steering Committee	2021 - present
International Association of Medical Science Educators (IAMSE)	2018 - present
AAMC, SGEA and SGSA	2016 - present
Treasurer, Massachusetts Academy of Sciences, Amherst, MA. Responsibilities	2007 - 2009

HONORS AND AWARDS

Outstanding Course Director (FAU) – selected by medical students	2022
Outstanding Mentor of the Year (FAU) – selected by medical students	2021
College of Medicine Teaching Academy Inductee (FAU)	2021
Michael L. Friedland Educational Leadership Award	2021
“Heroes in Medicine” Bruce Rendina Award – selected by the PBCMS	2019
Outstanding PBL Facilitator Award (FAU) – selected by medical students	2017
Harvard Macy Institute Medical Educator Program Scholar	2016
Outstanding IQ Facilitator Award, (FAU) – selected by medical students	2015
AAMC Early Career Women Faculty Professional Development Seminar Scholar	2014
Outstanding Course Director Award, (FAU) – selected by medical students	2014
Excellence in Graduate Teaching Award, (FAU) – selected by graduate students	2012
Dwight W. Warren Excellence in Graduate Teaching Award, (FAU) – selected by graduate students	2011
Sigma Xi (Biology) - associate member	1993
American Association of University Women	1990
Smith College Alumnae Scholarship	1990

COMMITTEE ASSIGNMENTS, MENTORING, AND ADMINISTRATIVE SERVICE

College Committees

Clinical Departments Promotion and Tenure Committee (elected member)	2022 - present
Diversity and Inclusion Guardian (inaugural elected member)	2021 - present
Marcus Institute Implementation Committee	2020 - present
Educational Operations Team Committee	2020 - present
Marcus Seminar Series Committee	2020 – present
Research Professor Promotion and Tenure Committee (ad hoc)	2020 - present
Liaison to Student Accessibility Services	2016 - present
Diversity Equity and Inclusion Curriculum Workgroup	2020 - 2021
GMEC Subcommittee on Resident Wellbeing (chair)	2019 - present
Faculty Peer Reviewer	2017 - present
Student Competency Review Committee (SCRC), competency director MK	2016 - present

Medical Student Promotions and Professional Standards Committee (MSPPSC)	2016 - 2023
COM Curriculum Committee, Florida Atlantic University (COMCC)	2012 - present
COM Curriculum Integration and Program Evaluation Committee (CIPEC)	2012 - present
IMS Departmental Promotion and Tenure Committee	2016 - 2019
Faculty Evaluation Criteria Committee, co-Chair	2018 - 2019
Promotion and Tenure Guidelines Committee, co-Chair	2013 - 2019
Executive Academic and Professionalism Committee (EAPC)	2015
FAMU-FAU Medical Scholars Program Curriculum Development	2018 - 2020
Research Committee, Member	2017, 2021
College of Medicine Medical Student Honors Committee, Member	2013
LCME Self-Study Medical Students Subcommittee, Chair	2018 - 2019
Faculty Search Committees (~15), Member, Chair of 5	2013 - present
Graduate Thesis PhD Committee, Brittany Bible, Member	2012 - 2015
Graduate Thesis PhD Committee, Haiyin Zou, Member	2011 - 2015
Graduate Thesis PhD Committee, Saba Tamjidi, Member	2013 - 2016
Graduate Thesis PhD Committee, Brittany Stinson, Member	2012 - 2018
Graduate Thesis PhD Committee, Timothy Logue, Chair	2015 - 2019
Problem Based Learning and Team Based Learning Development	2012 - 2019
College of Medicine Test Bank Writers Committee, Chair	2012 - 2016
Holland Conflict Oversight Committee, Member	2011 - 2013
Graduate Thesis PhD Committee, Ying Wu, Member	2011 - 2012
Advisor to the Graduate Biomedical Sciences Student Club	2010
Seminar Presenter, Biomedical Sciences Lecture Series	2010

University Committees

Breezeway Dialogs Committee	2022 - present
FAU Faculty and Staff Wellness Task	2021 - present
Healthy Campus Table of Champions	2020 - present
FAU Task Force on Student Mental Health	2019 - 2021

External Committees (Regional and National)

Southern Group on Student Affairs Steering Committee (elected)	2020 - present
AAMC COSA Subcommittee on Medical Student Wellness (elected)	2020 - present
Palm Beach County Physician Wellness Task Force	2017 - present

EDUCATIONAL ACTIVITIES

Teaching

Fundamentals of Biomedical Sciences Course Director (2013-2016 and...)	2020 - 2023
Facilitator, Inquiry Cases (IQ or SLIQ), Charles E. Schmidt College of Medicine	2014 - present
Facilitator, Problem Based Learning, Charles E. Schmidt College of Medicine	2013 - present
Lecturer, Charles E. Schmidt College of Medicine	2012 - present
Introduction to Microbiology	
Microbial Genetics and Metabolism	
Antibiotics/Antimicrobials	
Antibiotic Resistance	
Introduction to Infectious Diseases	

Graduate Course Instructor, University of Massachusetts Molecular Evolution Molecular Biology of Model Systems	2005 - 2009
Undergraduate Course Adjunct/Assistant Professor, Bay Path College Microbiology Course Genetics course with Laboratory Cell and Molecular Biology Course with Laboratory	2003 - 2005
Teaching Assistant, Genetics and Molecular Biology Courses, Smith College	1994, 1999
Laboratory Director/Instructor, Molecular Biology Summer Course, Smith College	1993 - 2003
Graduate Course Director, College of Biomedical Sci. Florida Atlantic University Molecular Biology and Bioinformatics	2010 - 2013

Curriculum and Program Development

<u>Director, HealthFirst Health and Wellness Initiative</u> - created an integrated wellness curriculum embedded within the basic science curriculum under the pillars of Nutrition, Exercise and Stress-Management. Formed strategic partnerships with University and Community stakeholders to provide additional opportunities for students, faculty, residents, and staff to maintain personal wellness. Obtained \$50,000 funding from Farmers Table to run program for 4 years and have since obtained philanthropic donations to continue the initiative programming.	2016 - 2025
<u>Director, USMLE Step 1 Review Course</u> – created a step 1 exam preparation program which includes workshops, individual meetings, student-centered study schedule creation and academic support prior to the step 1 exam.	2017 - present
<u>Medical Student Peer Tutoring Program</u> – created and oversee a peer tutoring program which is facilitated by M2/M3 for M1 students.	2019 - present
<u>Student Success and Wellness: A Holistic Approach</u> : Developed a medical student success curriculum including workshops, wellness activities, and seminar series.	2016 - 2022
<u>Fundamentals of Biomedical Sciences curricular materials</u> developed include contributions to Team Based Learning activities, Problem Based Learning Cases (13), and incorporation of a lifelong learning thread. Assessment materials developed include multiple choice exams and student surveys.	2012 - 2018
<u>FAU-Florida A&M University (FAMU) Curriculum Development</u> included researching, writing and editing problem-based learning cases for the Medical Scholars Program	2013 - 2019

Faculty and Educational Development Sessions

Faculty development with PBL small group facilitators and Learning Community Advisors to address student performance and offer suggestions for improving individual student and group success (FAU)	2012 - present
<u>Quillen College of Medicine (East TN): Faculty Development: Facilitation of Inquiry Cases, Case-Based Learning</u>	2022

<u>Louisiana State School of Medicine</u> (Shreveport): Faculty Development Summit: Curriculum Design, Team-Based Learning and Problem Based Learning, Student Success programming, Active Teaching and Learning Methodologies, Step 1 Programming	2021 - 2022
<u>Nova Southeastern University</u> : PBL Case Writer & Faculty Development: Active Teaching and Learning Techniques, PBL Facilitation and Case Writing	2018 - 2020
<u>FAU-Florida A&M University (FAMU)</u> Faculty Development: PBL Facilitation and Problem Based Learning Case Writing	2013 - 2014
<u>Student Success and Mentoring</u>	
Medical Student Supervisor on “Peer Tutoring Pilot Project” – Ayesha Abid, Anna Weinand and Jim Pagliaccetti (2-posters FAU Research Day)	2021 - 2022
<u>Director of Student Success and Wellness</u> – develop workshops and seminars to assist students with adjusting to medical school, study strategies, step 1 exam study plans and individualized learning plans. Assist in the remediation of students for individual course failures or as required by the MSPPSC.	2012 - 2021
Student mentoring including individual student counseling on academic success issues.	2015 - 2024
Lectures on student success strategies (time management, successful studying, test-taking strategies, and providing feedback).	2012 - 2024
Test preparation and study plan development based on analysis of individual student learning styles.	2012 - 2024
Development of individual remediation plans with course directors.	2016 - present
Consultation with the Office of Student Affairs to coordinate student progress and address concerns with academic performance, learning challenges and professionalism issues.	2015 - present
Harvard Macy Student Success Project – “Identifying Medical Students ‘At Risk’ for Poor Academic Performance In Basic Science Courses”. Researched, designed and am currently implementing a project designed to use valid criteria and identify students at risk for poor academic performance early in the first semester of medical school and to develop learning plans to ensure student success.	2016
Graduate Student Mentoring including service on graduate student committees, providing academic and professional advice and support, and ensuring success of thesis projects	2010 - 2019
Instituted the Medical Student Success and Wellness: A Holistic Approach Program in the Office of Student Affairs. Conducted focus groups and surveys for needs assessments, participated and design and planning sessions with stakeholders, wrote success and wellness curriculum including academic success workshops, individual academic advising sessions and facilitated collaborations within FAU.	2016 - 2020

PROFESSIONAL DEVELOPMENT (select recent)

Leadership and Management Skills Workshop (HFP Consulting) (2024)
Faculty Administrator Boot Camp, FAU (2023)
Cognitive Science of Learning; Assessing, Diagnosing and Teaching Struggling Learners
Teaching Academy Faculty Development – Holly Gooding (2023)
eCornell Diversity and Inclusion Certificate Program (2022-2023)
Mentors as Teachers – Teaching Academy Faculty Development – Matthew Fitz (2022)
Strategies and Tactics to Improve Diversity and Excellence (STRIDE) Training (2021)
NBME Invitational Conference for Educators (NICE), (2021)
Jefferson University Mind-Body Course (2020)
GroundWater Training on Racial Inequity (2020)
Albert Ellis Certificate Practicum in Rational Emotive Behavioral Therapy (2018)
Harvard Macy Medical Educators Program (2016)
AAMC Medical Education Research Certificate Program (2016-2018)
AAMC Early Career Women Faculty Professional Development Seminar Scholar (2014)

EDITORIAL BOARD/REVIEWERS

Reviewer MedEdPORTAL: The Journal of Teaching and Learning Resources	2013 - present
Reviewer, Team Based Learning Collaborative	2013 - present
MESA Award Reviewer, Southern Group on Educational Affairs	2013 - present
Annual Meeting Abstract Reviewer, SGEA, SGSA and AAMC	2013 - present

PUBLICATIONS AND BOOK CHAPTERS

1. **Lizotte**, M.R., Supali, T., Partono, F., and Williams, S.A. (1994). A Polymerase Chain Reaction Assay for the Detection of *Brugia malayi* in Blood. American Journal of Tropical Medicine and Hygiene, 51(3): 314-321.
2. Zhong, M., McCarthy, J., Bierwert, L., **Lizotte-Waniewski, M.**, Chanteau, S., Nutman, T.B., Ottesen, E.A., and Williams, S.A. (1996). A Polymerase Chain Reaction Assay for the Detection of the Parasite *Wuchereria bancrofti* in Human Blood Samples. American Journal of Tropical Medicine and Hygiene, 54(4): 357-363.
3. Williams, S.A., Nicolas, L., **Lizotte-Waniewski, M.**, Plichart, C., Luquiaud, P., Nguyen, L.N., and Moulia-Pelat, J.P. (1996). A Polymerase Chain Reaction Assay for the Detection of *Wuchereria bancrofti* in Blood Samples from French Polynesia. Transactions of the Royal Society of Tropical Medicine and Hygiene, 90(4): 384-387.
4. Fischer, P., Liu, X. **Lizotte-Waniewski, M.**, Kamal, I.H., Ramzy, R.M.R., and Williams, S.A. (1999). Development of a Quantitative, Competitive PCR-ELISA for the Detection of *Wuchereria bancrofti* DNA. Parasitology Research, 85: 176-183.
5. Williams, S.A., Laney, S.J., **Lizotte-Waniewski, M.**, Saunders, L., Bierwert, L., Lu, W., Haynes, S., Li, W., Blaxter, M.L., Guiliano, D., Daub, J., Jayaraman, K., Rao, R.V., Ravi, V., Kaliraj, P., Kannan, K., Narayanan, R.B., Ramzy, R.M.R., Kamal, I., Scott, A.L., Ghosh, I., Raghavan, N., Slatko, B., Ware, J., Foster, J., Ganatra, M., Supali, T., Johnston, D.A., and the Schistosome Genome Project (1999). Helminth Genome Analysis: The Current Status of the Filarial and Schistosome Genome Projects. Parasitology, 118: S19-S38.
6. Williams, S.A., Laney, S., **Lizotte-Waniewski, M.**, Saunders, L., Bierwert, L., Lu, W., Haynes, S., Li, W., Blaxter, M.L., Guiliano, D., Daub, J., Jayaraman, K., Rao, R.V., Ravi, V., Kaliraj, V., Kannan, K., Narayanan, R.B., Ramzy, R.M.R., Kamal, I., Scott, A.L., Ghosh, I., Raghavan, N., Slatko, B., Ware, J., Foster, J., Ganatra, M., Supali, T. (1999). Deep within the Filarial Genome: Progress of the

- Filarial Genome Project. *Parasitology Today*, 15(6): 219-224.
7. Williams, S.A., **Lizotte-Waniewski, M.**, Foster, J., Guiliano, D., Daub, J., Scott, A., Slatko, B., and Blaxter, M. (2000). The Filarial Genome Project: Analysis of the Nuclear, Mitochondrial, and Endosymbiont Genomes of *Brugia malayi*. *International Journal of Parasitology* 10:30(4) 411-419.
 8. Allen, J.E., Daub, J., Guiliano, D., McDowell, A., **Lizotte-Waniewski, M.**, Taylor, D., and Blaxter, M. (2000). Analysis of Genes Expressed at the Infective Larval Stage Validates Utility of *Litomosoides sigmodontis* as a Murine Model for Filarial Vaccine Development. *Infection and Immunity* 68(9): 5454-5458.
 9. **Lizotte-Waniewski, M.**, Tawe, W., Williams, S.A., and Lustigman, S. (2000). Identification of Potential Vaccine and Drug Target Candidates by Expressed Sequence Tag Analysis and Immunoscreening of *Onchocerca volvulus* larval cDNA libraries. *Infection and Immunity* 68(6):3491-3501.
 10. Hoti, S.L., Vasuki, V., **Lizotte, M.**, Patra, K., Ravi, G., Vanamail, P., Manonmani, A., Sabesan, S., Krishnamoorth, K., and Williams, S.A. (2001). Detection of *Brugia malayi* in Laboratory and Wild-Caught *Mansonia* Mosquitoes using *Hha* I PCR Assay. *Bull Entomol Res* 91(2): 87-92.
 11. Williams, S.A., Laney, S., Lizotte-Waniewski, M., Bierwert, L., and Unnasch, T. (2002). The River Blindness Genome Project. *Trends in Parasitology* 18(2): 86-90.
 12. Satpathy M, Gallagher, P., Lizotte-Waniewski, M., and Srinivas, S.P. (2004). Thrombin-induced phosphorylation of the regulatory light chain of myosin II in cultured bovine corneal endothelial cells. *Experimental Eye Research*, 79(4): 477-486.
 13. Bannigan, A., **Lizotte-Waniewski, M.**, Riley, M.A. and Baskin, T. (2008). Emerging molecular mechanisms that power and regulate the anastral mitotic spindle of flowering plants. *Cell Motility and the Cytoskeleton* 65: 1-11.
 14. Riley, M.A. and **Lizotte-Waniewski, M.** (2009). Population genomics and the bacterial species concept. In *Horizontal gene transfer - Genomes in Flux*. Humana Press, (Editors; Gogarten, Olendzenski and Gogarten).
 15. Thiagarajan, N., Pham, T.T.K., Stinson, B., Sundriyal, A., Tumbale, P., **Lizotte-Waniewski, M.**, Brew, K. and Acharyab, K.R. (2012). Structure of a metal-independent bacterial glycosyltransferase that catalyzes the synthesis of histo-blood group A antigen. *Scientific Reports*, 2(940): 1-9.
 16. Pham, T.T.K., Stinson, B, Thiagarajan, N., **Lizotte-Waniewski, M.**, Brew, K., and Acharya, K.R. (2014). Structures of complexes of a metal-independent glycosyltransferase GT6 from *Bacterioides ovatus* with UDP-GalNAc and its hydrolysis products. *Journal of Biological Chemistry*, 289:8041-8050.
 17. Loveland, J.L., Rice, J., Turrini, P.C.G., **Lizotte-Waniewski, M.** and Dorit, R.L. (2014). Essential is Not Irreplaceable: Fitness Dynamics of Experimental E. coli RNase P RNA Heterologous Replacement. *Journal of Molecular Evolution*, 79(3-4): 143-152.
 18. Moulin, L.Klonowska, A., Caroline, B., Booth, K., Vriezen, J.A., Melkonian, R., James, E.K., Young, J.P.W., Bena, G., Hauser, L., Land, M., Kyrpides, N., Bruce, D., Chain, P., Copeland, A., Pitluck, S., Woyke, T., **Lizotte-Waniewski, M.**, Bristow, J., and Riley, M.A. (2014). Complete Genome Sequence of *Burkholderia phymatum* STM815, a Broad Host Range and Efficient Nitrogen-Fixing Symbiont of *Mimosa* species. *Standards in Genomic Sciences*, 9: 763-774.
 19. Brew, K. and **Lizotte-Waniewski, M.** (2016). Naturally-Occurring Polypeptide Inhibitors: Cystatins/Stefins, Inhibitors of Apoptosis (IAPs), Serpins, and Tissue Inhibitors of Metalloproteinases (TIMPs), in *Encyclopedia of Cell Biology*, edited by RA Bradshaw and PD Stahl, Academic Press.
 20. Drowos, J, **Lizotte-Waniewski, M** and Louda, D. (2015). Pandemic Influenza: What if? MedEd Portal 10.15766/mep_2374-8265.10162.
 21. **Lizotte-Waniewski, M.**, Brew, K. and Hennekens, C.H. (2016). Hypothesis: Metalloproteinase Inhibitors Decrease Risks of Cardiovascular Disease. *Journal of Cardiovascular Pharmacology and Therapeutics*. DOI: 10.1177/1074248415615237.
 22. Logue, T, **Lizotte-Waniewski, M** and Brew, K. (2020). Thermodynamic profiles of the interactions

- of suramin, chondroitin sulfate, and pentosan polysulfate with the inhibitory domain of TIMP-3. *FEBS Letters* July 2020, <https://doi.org/10.1002/1873-3468.13556>
23. Brenner, J., LeBlang, S., **Lizotte-Waniewski, M.**, Schmidt, B., Espinosa, P. S., DeMets, D. L., Newberg, A, and Hennekens, C. H. (2020). Mindfulness with paced breathing reduces blood pressure. *Medical hypotheses*, 142, 109780
 24. Caceres J and **Lizotte-Waniewski M** (2021). Addressing Medical Student Wellness Over the Long Term: How Should We Be Evaluating Wellness Programs? *Medical Science Educator*, doi: <https://doi.org/10.1007/s40670-020-01194-7>
 25. Alkureishi, M.L., Jaishankar, D., Dave, S. Tatineni, S, Zhu, MS, Chertien, KC, Woodruff, JN, Pincavage, A, Li, WW for the Medical Student Wellbeing Consortium ..(**Lizotte-Waniewski, M**): Impact of the Early Phase of the COVID-19 Pandemic on Medical Student Well-Being: a Multisite Survey. *J GEN INTERN MED* (2022). <https://doi.org/10.1007/s11606-022-07497-2>
 26. **Lizotte-Waniewski, M** and Stinson, B. Naturally-Occurring Polypeptide Inhibitors: Cystatins/Stefins, Inhibitors of Apoptosis (IAPs), Serpins, and Tissue Inhibitors of Metalloproteinases (TIMPs), in *Encyclopedia of Cell Biology*, edited by J Bond and PD Stahl, Academic Press, 2023
 27. Lawrence, EC, Sheridan, C, Hurtado, A Lee, W, **Lizotte-Waniewski, M.**; Rea, M, Zehle, C. (2024) A Guiding Model for Undergraduate Medical Education Well-Being Programs. *Academic Medicine* 99(9): 946-952, September 2024. | DOI: 10.1097/ACM.0000000000005755

OTHER SCHOLARLY WORK (DISSEMINATED COMMITTEE REPORTS/WHITE PAPERS/CURRICULA)

- 1) “Sample Survey Items to Evaluate Stressors in the UME Learning Environment”. AAMC COSA Working Group on Medical Student Wellbeing (2022). <https://www.aamc.org/media/61786/download?attachment>
- 2) “Undergraduate Medical Education Systemic Recommendations for Medical Student Wellbeing” AAMC COSA Working Group on Medical Student Wellbeing (2022). <https://www.aamc.org/media/61826/download?attachment>
- 3) “Sample Survey Items to Evaluate Undergraduate Medical Education Wellness Programs” AAMC COSA Working Group on Medical Student Wellbeing (2022). <https://www.aamc.org/media/56246/download?attachment>
- 4) AAMC Medical Student Wellbeing Curricular Templates (2022):
 - a) **Lizotte-Waniewski, M**, Rea, M and Lawrence, E. “An Overview of Student Wellness”
 - b) **Lizotte-Waniewski, M**, Young, C and Horneffer-Ginter, K. “Meditation 101”
 - c) Rea, M, Lawrence, E and **Lizotte-Waniewski, M**, “Understanding and Addressing Imposter Experience and Fostering Belonging”
 - d) Lawrence, E, **Lizotte-Waniewski, M** and Rea, M, “Medical Student Mental Health and Suicide Awareness”

POSTERS, WORKSHOPS, AND INVITED PRESENTATIONS

National/International

1. **Lizotte-Waniewski, M.**, Pearlman, E., Kazura, J., and Williams, S.A. (1995). Development of a Polymerase Chain Reaction Assay for the Detection of *Brugia* Parasites in Tissue Samples. American Society of Tropical Medicine and Hygiene Annual Meeting, San Antonio, TX
2. **Lizotte-Waniewski, M.**, Lustigman, S., and Williams, S.A. (1997). Construction, Characterization and Analysis of an *O. volvulus* Molting L3 cDNA Library. Edna McConnell Clark Foundation: A Vaccine Against *Onchocerca volvulus*, Woods Hole, MA.
3. **Lizotte-Waniewski, M.**, and Williams, S.A. (1997). *Onchocerca volvulus* Genome Project: A

- Pilot Study. Parasitic Helminths: From Genomes to Vaccines, Edinburgh, Scotland.
4. **Lizotte-Waniewski, M.**, Lustigman, S., and Williams, S.A. (1997). Construction and Characterization of an *Onchocerca volvulus* Molting L3 cDNA Library. American Society of Tropical Medicine and Hygiene Annual Meeting, Orlando, FL.
 5. **Lizotte-Waniewski, M.**, Lustigman, S., and Williams, S.A. (1999). The *Onchocerca volvulus* Genome Project. American Society of Tropical Medicine and Hygiene Meeting, Washington, DC.
 6. **Lizotte-Waniewski, M** and Williams, S.A. (2002). Characterization of the Cuticlin Gene Family of *Onchocerca volvulus*. American Society of Tropical Medicine and Hygiene Annual Meeting, Boulder, CO.
 7. **Lizotte Waniewski, M.**, Goldstone, C. and Riley, M.A. (2005). Beyond Nature: Use of Microbial Defense Systems in a Clinical Setting. Gordon Research Conference, Microbial Population Evolution, Proctor Academy, NH.
 8. **Lizotte-Waniewski, M.** and Louda, D. (2013). Medical School Teaching of Basic Sciences: Student Perception of Factors that Promote Learning. American Biochemistry Course Directors Meeting, April 2013, Santa FE, NM
 9. Drowos, J. and **Lizotte-Waniewski, M** (2013) Valuing Faculty: New Models for Affirming Career Progress. AAMC 2013 Annual Meeting, Philadelphia, PA. (oral presentation)
 10. **Lizotte-Waniewski, M.** and Louda, D. (2015). Medical School Teaching of Basic Sciences: Review Strategies in an Integrated Curriculum. American Biochemistry Course Directors Meeting, April 2015, Santa FE, NM
 11. Louda, D. and **Lizotte-Waniewski, M.** (2015). Strategies to Incorporate Inborn Errors of Metabolism into an Integrated Curriculum. American Biochemistry Course Directors Meeting, April 2013, Santa FE, NM (*Poster and Talk*)
 12. **Lizotte-Waniewski, M.** (2016). Identifying Medical Students “At Risk” for Poor Academic Performance in Basic Science Courses. Harvard Macy Meeting for Medical Educators, May 2016, Boston, MA.
 13. Louda, D., **Lizotte-Waniewski, M.**, Wood, S.K., and George, G. (2016). A Foundational First Semester Course of Basic Science Core Concepts in an Integrated Curriculum- Advantages and Challenges., AAMC National Meeting, November 2016, Seattle, WA.
 14. Caceres, J.W., Gundersen, E.C., Trelka, D., Foster, J., DiCorcia, M.J., George, G., **Lizotte-Waniewski, M.**, and Wood, S.K. (2016). The Role of a Learning Portfolio in Teaching and Assessing Competencies as an Integral Part of Developing Entrustable Professional Activities (EPAs). AAMC National Meeting, November 2016, Seattle, WA.
 15. Wood, S., **Lizotte-Waniewski, M.**, Louda, D., DiCorcia, M., Goldman, S and Schwartz, M. (2017) “A Developmental Competency-Informed Approach to Problem-based Learning. (poster presented at AAMC Annual Meeting, November 2017 Boston, MA)
 16. Goodman, S, Gibbs, W and **Lizotte-Waniewski, M.** Student Community Outreach and Integration in Wellness Curriculum (poster presented at the AAMC Annual Meeting, November 2017 Boston, MA)
 17. **Lizotte-Waniewski, M.** (2018) Medical Student Wellness: Implementation and Assessment of Activities that Promote Wellbeing. AAMC, November 2018 (table discussion leader).
 18. Caceres, J, Wyatt, A, **Lizotte-Waniewski, M**, Markowitz, S; and Wood, SK. Aligning Coaching, Advising, and Mentoring Programs with the Three Phases of the Curriculum 2020 GSA-CiM-OSR Professional Development Conference (2020 cancelled due to COVID-19-March)
 19. **Lizotte-Waniewski, M** (2021). Combatting Overwhelm: The Physical and Mental Benefits of Meditation, Neilson Corporation Wellness Series
 20. **Lizotte-Waniewski, M.** Siegman, S., Duran, J and Wood, SK (2021). Supporting Medical Student Wellness in a COVID-impacted Virtual Learning Environment, Group on Student Affairs (GSA) National Meeting, April 2021
 21. **Lizotte-Waniewski, M** (2021). Admission to Medical School, Smith College (virtual), Northampton MA

22. Caceres, J, Markowitz, S, **Lizotte-Waniewski, M.** (2021) Optimizing Support and “Staying Connected” with Medical Students During a Fully Virtual Curriculum, Group on Student Affairs (GSA) National Meeting, April 2021
23. Lawrence, E, Rea, M, **Lizotte-Waniewski, M,** Young C (2022). Developing a Wellness Curriculum for Medical Students: What to Include and How to Deliver. AAMC GSA-CiM-OSR national meeting, April 2022, Denver, CO
24. **Lizotte-Waniewski, M.** (2022). Medical Education Summit and Faculty Development” Louisiana State University (Streveport). Active Teaching Techniques, Case-Based Teaching/Learning and Curriculum Development, two-day workshop-based event; January 20–21, 2022.
25. **Lizotte-Waniewski, M** (2022) “Facilitation of Inquiry Cases”, Quillen School of Medicine (virtual)
26. **Lizotte-Waniewski, M** “Medical Education Retreat, Quillen School of Medicine, Tennessee – Keynote Presenter. “Writing and Facilitating Inquiry Cases for Problem-Based Learning”, June 21, 2022.
27. Magan, E, **Lizotte-Waniewski, M,** Whitehair C, et al (2022) “Best Practices in Suicide Prevention: Across the UME GME Continuum”, AAMC National Webinar; September 21, 2022
28. Lawrence, E, Rea, M and **Lizotte-Waniewski, M** (2022). Wellness Curricula and Structural Initiatives to Positively Impact Medical Student Wellbeing, AAMC GSA National Community Call, September 22, 2022
29. **Lizotte- Waniewski, M.** (2022). “Methods for Assessing Culture and Climate Through Real-Time Monitoring of the Well-being of Learners and Other Health Care Professionals” Discussion Topic, AAMC National Meeting, November, 2022.
30. Alford, C, Pavlovsky, A, Kandah, M, Marshall, C, Caceres, J and **Lizotte-Waniewski, M** (2022). “The Outcomes of Implementing a Multi-Pronged Approach for Improving Medical Students’ Mental Health” AAMC National Meeting, November, 2022.
31. **Lizotte-Waniewski, M,** Woods, J and Daly, K (2023). “Establishing and Strengthening Medical Student Well-Being Offices” AAMC SGSA/CGSA Joint Meeting, Workshop Presentation, Kansas City, MO. March 2023.
32. **Lizotte- Waniewski, M.** (2024). “Guiding Principles Regarding the Use of Artificial Intelligence in Medical Education Curricula: Considerations for Faculty and Students” Discussion Topic, AAMC National Meeting, November, 2024.

Local/Regional

33. Schwartz M., Robinson, P., Azzarolo, A.M., **Lizotte-Waniewski, M.,** Louda, D., Nouri-Shirazi, M., Schmidt-Kastner, R., and Henson, L. (2014). Purposeful Use of Different Models of Problem-Based Learning as an Integral Component of the Curriculum at a New Medical School. Southern Group On Educational Affairs (SGEA) Annual Meeting, Miami FL. (regional poster)
34. Louda, D., Azzarolo, A.M., **Lizotte-Waniewski, M.,** Henson, L., Iragavarapu-Charyulu, V., and Robosto, P. (2014). Utilizing Team-Based Learning for Content Review in an Integrated First-Year Medical Curriculum. Southern Group On Educational Affairs (SGEA) Annual Meeting, Miami FL. (regional poster)
35. Azzarolo, A.M., **Lizotte-Waniewski, M.,** Louda, D., Iragavarapu-Charyulu, V., Nouri-Shirazi, M., Shibata, Y., Henson, L., Linger, B., Servoss, J., and Markowitz, S. (2014). Identifying Students with Weak Foundations in the Basic Sciences: Strategies to Facilitate Successful Transition to Medical School and Academic Success. Southern Group On Educational Affairs (SGEA) Annual Meeting, Miami FL. (regional poster)
36. **Lizotte-Waniewski, M.,** Azzarolo, A.M., Louda, D., Schmidt-Kastner, R., Moxham, T., and Henson, L. (2014). Integration of Lifelong Learning Skills into the First Year Medial Curriculum at the Charles E. Schmidt College of Medicine. Southern Group On Educational Affairs (SGEA) Annual Meeting, Miami FL. (regional poster)

37. Louda D. and **Lizotte-Waniewski, M.** “PBL Case-Writing Workshop” (invited workshop facilitator, Nova Southeastern School of Medicine, February 2017) (local workshop)
38. **Lizotte-Waniewski** (2017). Active Teaching and Learning for Long Term Retention. Nova Southeastern University Faculty Development Workshop (local workshop).
39. Louda D. and **Lizotte-Waniewski, M.** (2017). “PBL Case-Writing Workshop” (invited workshop facilitator for Roosevelt High School and Forest Hill Middle School faculty and administrators (May,2017). (local workshop)
40. **Lizotte-Waniewski, M.**, Louda, D.W., Caceres, J., Markowitz, S., and Wood, S.K. A Multifaceted Holistic Approach to Preparing Students for the USMLE Step 1 Exam. SGEA, Jackson MS, April 2018 (regional poster)
41. Drowos, J and **Lizotte-Waniewski, M** (2018). Living HER Purposeful Life. Hidden Figures Empower HER of Palm Beach Counties Annual Meeting (local)
42. Wood, SK, Louda DW, **Lizotte-Waniewski, M**, DiCorcia, M, Goldman, M and Schwartz, M (2019). Enhancing Student Preparation for Clerkships through Student-Led Problem-Based Learning in the Pre-Clinical Years. March 2019 SGEA (regional poster)
43. **Lizotte-Waniewski, M**, Iragavarapu-Charyulu, VJ, Louda, DW, Wood, SK. (2019). Paving the Way for Success in the Basic Sciences for Incoming Medical Students. March 2019 SGEA (regional poster)
44. **Lizotte-Waniewski M** (2019). Meditation Basics, FL Blue, Delray Beach (local)
45. **Lizotte-Waniewski, M** (2019). Student Success in College: Long Term Learning, Managing Time and State, Barb Schmidt Fellowship Program (FAU)
46. **Lizotte-Waniewski, M** (2019). Breath Meditation, Marcus Institute for Integrative Medicine (local)
47. **Lizotte-Waniewski, M** (2019). Meditation 101: The Basics of Mindfulness, FL Blue, Marcus Institute for Integrative Medicine (local)
48. **Lizotte-Waniewski, M**, Louda, DW, Caceres, J, Markowitz, S, and Wood, SK. (2019). Student Engagement in a Holistic USMLE Step 1 Preparation Course March 2019 SGEA (regional poster)
49. **Lizotte-Waniewski, M** (2020). Meditation: Mind full – or Mindful?, Marcus Institute for Integrative Medicine (local)
50. **Lizotte-Waniewski, M** (2020). Mindfulness Meditation, Boca Library (local)
51. **Lizotte-Waniewski, M** (2020). A Basic Guide to Mindfulness Meditation, Levy Jewish Center (local)
52. Drowos, J, **Lizotte-Waniewski, M** and Perumareddi, P (2020). Discover Wellness: Mind, Body and a Dose of Prevention Panel Presentation, Osher Lifelong Learning Institute Presentation (FAU)
53. **Lizotte-Waniewski, M** (2021). Meditation 101: The Benefits of Meditation. Boca West (local)
54. **Lizotte-Waniewski, M** (2022). “Mental Wellness: The Science of Mindfulness” – part of the Wellness Lecture Series co-sponsored by the School for Social Work and the Marcus Institute of Integrative Health (local)
55. Hennekens, CH, **Lizotte-Waniewski, M**, Lewis, S, and Caceres, J. (2022). “Physical Activity: A Virtual Magic Bullet” Panel Presentation, Osher Lifelong Learning Institute Presentation (FAU) December 7, 2022
56. **Lizotte-Waniewski, M** (2023). Wellness Series: “Mindfulness 101” Marcus Institute of Integrative Health, February 15, 2023
57. **Lizotte-Waniewski, M**, Whitehair, C, Magan, E et al (2023). “Suicide Prevention: Best Practices in Continuous Quality Improvement for UME and GME”, AAMC NEGEA Webinar, March 3, 2023.
58. Lawrence, EC, Lee, W, Rea, M, Woods, J and **Lizotte-Waniewski, M** (2023). “Establishing and Strengthening Medical Student Well-Being Offices”. Workshop Presentation, AAMC WGEA/WGSA Joint Meeting, Waikiki, HI, April 2023.

Curriculum Vitae

Lawrence Lottenberg, MD FACS **Trauma and Acute Care Surgeon**

14884 Rapolla Drive
Delray Beach, FL 33446
lawrence.lottenberg@gmail.com

PERSONAL INFORMATION

Age: 75
Date of Birth: February 2, 1950
Place of Birth: New York, New York
Marital Status: Married to Mary Rose Lottenberg
Medical License Number: 27008 – Florida

EDUCATION

Postgraduate: Chief Resident, Surgery, Jackson Memorial Hospital 1979-1980
Surgical Residency, Jackson Memorial Hospital 1975-1980
Graduate: University of Miami Miller School of Medicine – MD - 1971-1975
Undergraduate: University of Florida - BS with Honors in Chemistry - 1968-1971
High School: North Miami Senior High School - 1965-1968

PROFESSIONAL EXPERIENCE

December 2022 – Present
Trauma and Acute Care Surgeon
Professor of Surgery
Chairman Department of Surgery
Interim Program Director
Director Simulation and Technology
Department of Surgery
Charles E. Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL

July 2021 – December 2022
Interim Chairman Department of Surgery (as of November 1, 2021)
Interim Program Director Department of Surgery
Charles E. Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL

April 2015 – July 2021
Associate Professor of Surgery
Director of Surgical Simulation and Technology
Education Committee Surgical Residency
Clinical Competency Committee Surgical Residency
Site Director St. Mary's Medical Center
Charles E. Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL

April 1, 2015 – June 2022
Director of Trauma Research and Education
St. Mary's Medical Center
West Palm Beach, FL

January 2017 – Present
Physician Consultant to the Trauma Service
Parkview Regional Medical Center
Ft. Wayne, IN

July 2015 – December 2022
Associate Dean for Academic Affairs/St. Mary's Medical Center
Charles E. Schmidt College of Medicine
Boca Raton, FL

July 2015 – January 2020
Clinical Associate Professor of Surgery
University of Vermont School of Medicine
Burlington, VT
Mentor to Medical Student Rotation
St. Mary's Medical Center

December 2014 – December 2016
Acute Care Surgeon/Trauma Surgeon
Parkview Regional Medical Center
Ft. Wayne, IN

November 2014 – Present
Medical Director, Trauma and Critical Care
Paradigm Catastrophic Care Management
Walnut Creek, CA

January 2004 – November 2014
Associate Professor of Surgery and Anesthesiology
Trauma Medical Director
Division of Acute Care Surgery
Department of Surgery
University of Florida, College of Medicine
Gainesville, FL

January 1991 – November 2003
Director Trauma, Acute Care Surgery and Surgical Critical Care
Memorial Regional Hospital
Hollywood, FL

July 1993 – November 2003
Director Surgical Residency Program at Memorial Regional Trauma Center
Mt. Sinai Hospital Surgical Residency Program
Miami Beach, FL

July 1980 – November 2003
Staff Surgeon
Memorial Healthcare System
Hollywood, FL

Currently serving as Chairman and Interim Program Director of the Department of Surgery at Florida Atlantic University Schmidt College of Medicine in Boca Raton, Florida. Responsible for forty (41) surgical residents from PGY1 to PGY7 at five consortium hospitals in Palm Beach County. Responsible for approving every surgical resident rotation schedule, mentoring residents, assisting in obtaining research fellowships during value added years, completion of all benchmarks for graduation of the residents and assisting in obtaining post graduate fellowship positions nationally. Responsible to the College of Medicine in meeting all the ACGME benchmarks to maintain validation of the Program.

Currently serving on all trauma quality improvement committees at the Level I Trauma Center at St. Mary's Medical Center in West Palm Beach, Florida. Assisting and advising staff trauma surgeons in complex management of critically ill and injured patients, providing mentorship in surgical stabilization of rib fractures and diaphragm pacemaker insertion for ventilator dependent quadriplegics. Also, actively involved with clinical research, responsible for ten (ten) active ongoing clinical research projects at any time as the Principal Investigator with trauma surgeons and surgical residents. Publication of twelve (12) peer reviewed papers in the last 12 months.

Former Trauma Medical Director (2004 to 2010) of the Trauma and Emergency Surgery Services at a major academic medical center and Level I Trauma Center and Pediatric Trauma Referral Center in North Central Florida at UF Health Shands Hospital at the University of Florida College of Medicine. Responsible for oversight of coordinating all aspects of care for trauma patients across the continuum including clinical, educational, research, pre-hospital and for monitoring all patient outcomes.

Previously practicing trauma, surgical critical care and emergency surgery on a daily basis. Duties include daily walk rounds, bi-weekly multidisciplinary sit down rounds, and caring for an average daily census of 30 to 50 patients, including approximately 450 operative cases per year in the operating room and over 500 bedside surgical procedures in the intensive care unit. Complex surgical procedures including entero-cutaneous fistula repair and complex ventral hernia repair. Expert in abdominal wall reconstruction after open abdomen. Expert in surgical fixation of rib fractures and chest wall reconstruction. Referral sources from throughout Florida and Georgia.

Responsible for co-authoring the State of Florida Application for a Level I Adult and Pediatric Trauma Center at Shands/UF, establishment of all policies and procedures related to trauma care at Shands/University of Florida and directs quality improvement initiatives in the care of trauma patients.

Daily teaching responsibilities include mentoring surgical residents, medical students, physician extender students, and formal didactic lectures and laboratory training sessions.

Responsible for the training and mentorship of twenty five actively practicing Trauma Surgeons in the United States.

Innovator and Establishment:

Diaphragm Pacing System Program for ventilator-dependent quadriplegic patients at UF Health

Diaphragm Pacing System Program for patients with Pompei Disease at UF Health

Rib Fracture Operative Fixation Program at UF Health

Rib Fracture Operative Fixation Program at St. Mary's Medical Center

Rib Fracture Operative Fixation Program at Parkview Regional Medical Center

ATLS Site Director Simulation Center Florida Atlantic University College of Medicine

**Trauma Medical Director/Director Resident Program Mt. Sinai Hospital
Department of Surgery at Memorial Regional Hospital
1992-2003**

Practicing Trauma Surgeon participating in daily trauma call, admitting and treating all trauma patients, rounding, and caring for all patients in the 16-bed combined trauma and neurotrauma intensive care unit. Administrates and directs the Trauma Service to include implementation and design of all procedures and policies related to the care of the trauma patient. Responsible for quality improvement both within the Trauma Center and at county and regional levels. Director of all surgical education at Memorial Regional Hospital including surgical resident rotations in trauma, general surgery, and vascular surgery as well as design and structure of clinical rotations for third- and fourth-year medical students from two medical schools and second year physician assistant students from three university physician assistant schools.

1980-1992

Private Practice General and Vascular Surgery, Hollywood, FL

HOSPITAL AFFILIATIONS:

Parkview Regional Medical Center – Ft. Wayne, IN

St. Mary's Medical Center – West Palm Beach, FL

UF Health Shands Hosptial – Courtesy Staff - Gainesville, FL

Memorial Regional Hospital – Emeritus Staff – Hollywood, FL

FACULTY APPOINTMENTS

Clinical Affiliate Professor of Surgery Florida Atlantic University 2015 – present
Associate Professor of Surgery University of Vermont School of Medicine 2016 - 2020
Associate Professor of Surgery and Anesthesiology University of Florida – 2004 to 2014
Courtesy Staff UF Health Shands Hospital Gainesville, FL – 2016 - present
Clinical Associate Professor University of Miami School of Medicine - past
Adjunct Clinical Professor Nova Southeastern School of Medicine - past
Adjunct Clinical Professor Nova Southeastern Physician Assistant Program - past
Adjunct Clinical Professor Barry University Physician Assistant Program - past
Clinical Associate Professor Saba University Medical School - past

HOSPITAL APPOINTMENTS - Past

Former Chief of Staff – Humana Hospital Pembroke
Former Member Executive Committee – Humana Hospital Pembroke
Former Director Trauma and Critical Care – Memorial Healthcare System
Former Director Surgical Residency Program – Memorial Healthcare System
Former Clinical Associate Professor – Department of Surgery – University of Miami
Former Clinical Associate Professor – Nova Southeastern College of Osteopath
Former Clinical Professor of Physician Assistant Sciences – Nova Southeastern University
Chairman of Trauma Quality Improvement Committee – Memorial Hospital
Chairman of Disaster Committee – Memorial Regional Hospital
Member of Informatics Task Force – Memorial Regional Hospital
Clinical Teaching Faculty – Mt. Sinai Hospital/Surgical Residency Program

INTERNATIONAL DIRECTORSHIP

Medical Director – Superboat International Productions

NATIONAL COMMITTEES

American College of Surgeons Committee on Trauma, Member 1998 -2010
Publication Sub-Committee American College of Surgeons Committee on Trauma: 2007
Disaster Management Sub-Committee American College of Surgeons Committee on Trauma 2009
American Association for the Surgery of Trauma: Ad-Hoc Sub-Committee, Developing a State Trauma System, Chair 2008
Site Surveyor: Pennsylvania Trauma System Foundation: 2006 – Current
Disruptive Physician Behavior, Panel Member at American College of Surgeons Leadership and Advocacy Meeting.
Senior Committee at Eastern Association for the Surgery of Trauma, Chair: 2008-Current
Eastern Association for the Surgery of Trauma, Board Member 2008- 2011

Board Member Eastern Association for the Surgery of Trauma Foundation – 2009-
Current
Reviewer for the Journal of Trauma and Acute Care Surgery
Reviewer for the American Surgeon

STATE AND LOCAL COMMITTEES

President – Florida Chapter American College of Surgeons 2008- 2010
Medical Consultant, State of Florida Department of Health, Division of Trauma 2007-
Current
Florida Council Member, Southeastern Surgical Congress
Board Member, Southeastern Surgical Congress
Mini-Internship Leadership Gainesville Program, Participant 2009
Vice Chairman - Florida Committee on Trauma – 1995 to 1997
Chairman - Florida Committee on Trauma – 1997 to 2003
Broward County Trauma Agency – 1996 to 1998, 2002 to 2003
Co-Chairman - State of Florida EMS Access to Trauma Care 1999 to present
Provider - Advanced Trauma Life Support
Provider - Advanced Cardiac Life Support
Regional Course Director and Instructor - Advanced Trauma Life Support
Regional Course Director and Instructor - Advanced Trauma Operative Management
Regional Course Director and Instructor – Advanced Surgical Skills for Exposure in
Trauma
Regional Course Director and Instructor – Disaster Management and Emergency
Preparedness
Director - State of Florida Trauma Medical Director – 2005 to 2006
State Faculty - Advanced Trauma Life Support

COMMITTEES AND DIRECTORSHIPS UNIVERSITY OF FLORIDA

Iatrogenic Pneumothorax Prevention Committee, Member 2009
Preventive Urinary Tract Infection Committee, Chair, Shands UF 2009
Massive Transfusion Protocol Committee, Member 2007
Massive Pulmonary Embolism Committee, Member 2007
Central Venous Line Infection Committee, Chair,
Anti-Infective Sub-Committee, Member
Transfusion Committee – Member
Operating Room Committee – Member
Trauma Quality Improvement – Chairman
Brain & Spinal Cord Committee – Member
Course Director ATLS – Advanced Trauma Life Support
Course Director ATOM – Advanced Trauma Operative Management
Course Director ASSET – Advanced Surgical Skills for Exposure in Trauma

Course Director DMEP – Disaster Management and Emergency Preparedness
Central Line Instruction Video and Hands On Course for Surgical Residents
Focused Assessment Using Sonography for Trauma for Surgical Residents
Intraosseous Placement Instructional Course for Residents/Attendings
MS 4 Senior Medical Student Surgical Skills Course
Rib Plating Instructional Course for Surgical Residents/Attendings
Surgical Skills Course for Neurosurgical PGY1 Residents
Trauma Lecture to MS3 Clerkship Students each rotation
Director of the Trauma Chief Resident Conference – weekly review of “Top Knife”
Trauma Quality Management – Chaired meeting 3 times – 2011/12
Disaster Management Committee – Physician Representative – 2011/12
Sepsis Committee for Computerized Decision Making in 4 West ICU – 2011/12
Trauma Resuscitation Committee for Computerized Decision Support in 4 West ICU – 2011/12

PROFESSIONAL AFFILIATIONS AND CERTIFICATIONS

Associate Member ACS Academy of Master Educators - 2025

Member:

Alpha Omega Alpha Honor Society – 1975
Iron Arrow Honor Society University of Miami – 1975
South Florida Chapter American College of Surgeons – 1984
Eastern Association for the Surgery of Trauma – 1994 - present
American Association for the Surgery of Trauma – 2003 – present
American College of Surgeons COT ATLS Subcommittee
Florida Department of Health EMS Advisory Council –1998 to 2002
Florida Department of Health Brain and Spinal Cord Trauma Committee - 1998 to 2003
Society of Critical Care Medicine – 1998 to present.
Pan American Trauma Association – 1998 to present.
American Trauma Society – 1998 to present.
American Association of Medical Informatics – 2001
Chest Wall Injury Society – 2017 to present – Inaugural President, Board Member

Certified:

Master Educator, Medical Education Faculty Development Program UF: 2008
Instructor: Advanced Trauma Life Support
Instructor: Advanced Trauma Operative Management (ATOM)
Course Director-Advanced Trauma Life Support Provider and Instructor Courses-**ATLS**
Course Director – Advanced Trauma Operative Management - **ATOM**
Course Director – Advanced Surgical Site Exposures for Trauma - **ASSET**
Course Director-Disaster Management and Emergency Preparedness-
DMEP

ATLS Regional Faculty – 2015 - Present
American Board of Surgeons – Recertification in Critical Care Surgery 2007
American Board Of Surgery - # 27214 - 1981, 1991, 2001, 2012, 2022, 2024
ACLS – 1992, 1998, 2003, 2015
PALS - 2015
Added Qualifications in Surgical Critical Care ABS - #1449-1995, 2005

Fellow:

Southeastern Surgical Congress – 1982 to present
American College of Surgeons – 1985 to present
American Association for the Surgery of Trauma – 1997 to present
Southern Surgical Association – 2000 to present
Pan American Trauma Society – 2002 to present
Eastern Association for the Surgery of Trauma – 1994 - present

Visiting Professorships:

1. Visiting Professor Hershey Medical Center Trauma Service May 2018
2. Visiting Professor, Grand Rounds, "Anticoagulation Reversal for Trauma and Surgical Patients: Big Trouble Is Here" University of Florida, FL, September 4, 2013.
3. Visiting Professor, Grand Rounds, Bay Medical Center, Panama City, FL August 2012.
4. Visiting Professor, Grand Rounds, "The Fracture Rib... Not Just Another Broken Bone." University of Florida, FL, July 2012.
5. Visiting Professor, "Resuscitation 2009" Stony Brook University Hospital, Islip, NY, 2009
6. Visiting Professor, Grand Rounds, University of Tennessee, Knoxville, TN, May 1999.
7. Visiting Professor, Grand Rounds, University of Mississippi, Jackson, MS, May 1999.

Funding/Source/Studies

1. A Multicenter Randomized, Open-Label, Phase 3 Study to Compare the Safety and Efficacy of Intravenous Doripenem with that of Intravenous

Piperacillin/Tazobactam in Hospital-Acquired Pneumonia, 07/08/04- Complete.
Principal Investigator \$83,812.50.

2. A Multicenter Randomized, Open-Label, Phase 3 Study to Compare the Safety and Efficacy of Intravenous Doripenem with that of Intravenous Imipenem in Ventilator-Associated Pneumonia, July 5th, 2004 – Complete. Sub-Investigator \$117,225.00
3. Development of a Shark Attack Severity Score using the International Shark Attack File, October 5, 2005 Complete. Sub-Investigator Funding- Physician Initiated
4. The Effects of Estrogen on CTGF and TGF-B in Pre/Post Menopausal Women and Men of Varying Ages Following Burn Injury, October 5, 2005 – Complete. Sub-Investigator Funding- Physician Initiated
5. A Prospective Study to Evaluate the Erythropoietic Responsiveness Associated with Once Weekly (QW) Administration of Darbepoetin alfa (Aranesp) in Patients Admitted to the ICU, Jenica, November, 1st 2005 – Complete, \$43,375.00 Sub-Investigator
6. F7Trauma-1648: A multi center, randomized, double-blind, parallel group, placebo controlled trial to evaluate the efficacy and safety of activated recombinant factor VII (rFVIIa/NovoSeven®/NiaStase®) in the treatment of refractory bleeding in severely injured trauma patients. BB-IND.9864. Novo Nordisk, February 10, 2006 – Complete. Principal Investigator \$68,900.00
7. A Randomized Double Blinded Pilot Study Evaluating the Efficacy of Lidoderm 5% Transdermal Patches in Treating Pain in Trauma Patients with Rib and Sternum Fractures, February 22, 2006 –N/A.
8. Evaluation of the GORE TAG Thoracic Endoprosthesis for the Treatment of Complex Pathology of the Descending Thoracic Aorta, GORE, March 5, 2006 – present.
9. Bard Recovery Filter Study, BARD, October 3, 2006 – present.
10. A Retrospective Review to Evaluate Outcomes of Two Feeding Tubes Used to Provide Nutritional Support for Surgical Patients, August 28, 2006 – present.
11. Dexmedetomidine versus Propofol for the Sedation of Trauma Patients at-risk for Alcohol Withdrawal in an Intensive Care Unit, September 28, 2006 –
12. A Comprehensive Assessment of the Florida Trauma System, University of South Florida, July 15, 2004 – February 8, 2005, \$73,499.00.

13. A Multicenter, Retrospective, Observational Study to Evaluate Erythropoietic Stimulating Protein (ESP) Use and Clinical Outcomes in Hospitalized Patients (ASSESS), Amgen, March 22nd, 2005 – February 2, 2006, \$14,000.00.

PUBLICATIONS

Book Chapters

1. Winfield, RD, Lottenberg, L. Secondary and Tertiary Triage of the Trauma Patient. Civetta, Taylor, & Kirby's Critical Care, Fourth Edition, Philadelphia, Lippincott Williams & Wilkins, a Wolters Kluwer Business, 2009, 1109-1128.
2. Hoyt DB, Coimbra R, Potenza BM (Commentary: Lottenberg L). Trauma Systems, Triage, and Transport. Trauma. New York. McGraw Hill. 2008, 57-82.
3. Gonzalez, Jr. P, Lottenberg L, Layon AJ. Abdominal Compartment Syndrome. Complications in Anesthesiology. 2008, 581-589.
4. Lottenberg L, Ang D. Geriatric Trauma, Trauma Contemporary Principles and Therapy. Philadelphia, Lippincott Williams & Wilkins, a Wolters Kluwer Business, 2008, 607-612.
5. Taheri PA, Butz DA, Lottenberg L, et al. The cost of trauma center readiness. In Year Book of surgery 2005. Philadelphia: Mosby Inc; 2005: 32-33. Copeland EM III, et al,

Peer Reviewed Articles/Publications

.

1. [The Florida Geriatric Head Trauma CT Clinical Decision Rule.](#)
Shih RD, Alter SM, Wells M, Solano JJ, Engstrom G, Clayton LM, Hughes PG, Goldstein L, Lottenberg L, Ouslander JG.
J Am Geriatr Soc. 2024 Sep;72(9):2738-2751. doi: 10.1111/jgs.19057. Epub 2024 Jul 3. PMID: 38959158
2. [A prognostic model for use before elective surgery to estimate the risk of postoperative pulmonary complications \(GSU-Pulmonary Score\): a development and validation study in three international cohorts.](#)
NIHR Global Health Research Unit on Global Surgery; STARSurg Collaborative.

Lancet Digit Health. 2024 Jul;6(7):e507-e519. doi: 10.1016/S2589-7500(24)00065-7. PMID: 38906616

3.

[Propensity weighted analysis of chemical venous thromboembolism prophylaxis agents in isolated severe traumatic brain injury: An EAST sponsored multicenter study.](#)

Ratnasekera AM, Seng SS, Kim D, Ji W, Jacovides CL, Kaufman EJ, Sadek HM, Perea LL, Poloni CM, Shnaydman I, Lee AJ, Sharp V, Miciura A, Trevizo E, Rosenthal MG, Lottenberg L, Zhao W, Keininger A, Hunt M, Cull J, Balentine C, Egodage T, Mohamed AT, Kincaid M, Doris S, Cotterman R, Seegert S, Jacobson LE, Williams J, Moncrief M, Palmer B, Mentzer C, Tackett N, Hranjec T, Dougherty T, Morrissey S, Donatelli-Seyler L, Rushing A, Tatebe LC, Nevill TJ, Aboutanos MB, Hamilton D, Redmond D, Cullinane DC, Falank C, McMellen M, Duran C, Daniels J, Ballow S, Schuster KM, Ferrada P. Injury. 2024 Sep;55(9):111523. doi: 10.1016/j.injury.2024.111523. Epub 2024 Apr 9. PMID: 38614835

4.

[Compartment Syndrome Resulting From Improper Intraosseous Cannulation: A Case Report.](#)

Desai KK, Mann AJ, Azar F, Lottenberg L, Borrego R. Cureus. 2023 Dec 9;15(12):e50248. doi: 10.7759/cureus.50248. eCollection 2023 Dec. PMID: 38196424 Free PMC article.

5.

[Ultramassive transfusion and adjunctive therapies in a case of blood bank depletion.](#)

Jackson M, Berman S, Rueda M, Borrego R, Lottenberg L, Azar F. Trauma Case Rep. 2023 Oct 18;48:100955. doi: 10.1016/j.tcr.2023.100955. eCollection 2023 Dec. PMID: 37955000 Free PMC article.

6.

[Persistent pseudoaneurysm after non-operative management of a Grade 4 liver injury.](#)

Mann AJ, Rueda M, Azar F, Ramseyer M, Lottenberg L, Borrego R. Trauma Case Rep. 2023 Sep 25;48:100946. doi: 10.1016/j.tcr.2023.100946. eCollection 2023 Dec. PMID: 37822491 Free PMC article.

7.

[Does lower extremity fracture fixation technique influence neurologic outcomes in patients with traumatic brain injury? The EAST Brain vs. Bone multicenter trial.](#)

Ghneim M, Kufera J, Zhang A, Penaloza-Villalobos L, Swentek L, Watras J, Smith A, Hahn A, Rodriguez Mederos D, Dickhudt TJ, Laverick P, Cunningham K, Norwood S, Fernandez L, Jacobson LE, Williams JM, Lottenberg L, Azar F, Shillinglaw W, Slivinski A, Nahmias J, Donnelly M, Bala M, Egodage T, Zhu C, Udekwu PO, Norton H, Dunn JA, Baer R, McBride K, Santos AP, Shrestha K, Metzner CJ, Murphy JM, Schroepfel TJ, Stillman Z, O'Connor R, Johnson D, Berry C, Ratner M, Reynolds JK, Humphrey M, Scott M, Hickman ZL, Twelker K, Legister C, Glass NE, Siebenburgen C, Palmer B, Semon GR, Lieser M, McDonald H, Bugaev N, LeClair MJ, Stein D; Brain vs. Bone Study Group. J Trauma Acute Care Surg. 2023 Oct 1;95(4):516-523. doi: 10.1097/TA.0000000000004095. Epub 2023 Jun 19.

PMID: 37335182

8.

[Early VTE prophylaxis in severe traumatic brain injury: A propensity score weighted EAST multicenter study.](#)

Ratnasekera AM, Kim D, Seng SS, Jacovides C, Kaufman EJ, Sadek HM, Perea LL, Monaco C, Shnaydman I, Lee AJ, Sharp V, Miciura A, Trevizo E, Rosenthal M, Lottenberg L, Zhao W, Keininger A, Hunt M, Cull J, Balentine C, Egodage T, Mohamed A, Kincaid M, Doris S, Cotterman R, Seegert S, Jacobson LE, Williams J, Whitmill M, Palmer B, Mentzer C, Tackett N, Hranjec T, Dougherty T, Morrissey S, Donatelli-Seyler L, Rushing A, Tatebe LC, Nevill TJ, Aboutanos MB, Hamilton D, Redmond D, Cullinane DC, Falank C, McMellen M, Duran C, Daniels J, Ballow S, Schuster K, Ferrada P.

J Trauma Acute Care Surg. 2023 Jul 1;95(1):94-104. doi:

10.1097/TA.0000000000003985. Epub 2023 Apr 5.

PMID: 37017458

9.

[A Non-Fatal Impalement Injury to the Right Thorax: A Case Report.](#)

Mann AJ, Lottenberg L, Azar F, Hus N.

Cureus. 2023 Jan 8;15(1):e33517. doi: 10.7759/cureus.33517. eCollection 2023 Jan.

PMID: 36779161 Free PMC article.

10.

[Biomechanical characteristics of rib fracture fixation systems.](#)

Prins JTH, Van Wijck SFM, Leeftang SA, Kleinrensink GJ, Lottenberg L, de la Santa Barajas PM, Van Huijstee PJ, Vermeulen J, Verhofstad MHJ, Zadpoor AA, Wijffels MME, Van Lieshout EMM.

Clin Biomech (Bristol). 2023 Feb;102:105870. doi: 10.1016/j.clinbiomech.2023.105870.

Epub 2023 Jan 4.

PMID: 36623327

11.

[Using Right-Sided Roll to Improve Reliability of Focused Assessment with Sonography in Trauma: An Eastern Association for the Surgery of Trauma Multicenter Prospective Study.](#)

Cibulas Shumway M, Granet J, Solomon RJ, Parreco JP, Lee SK, Pigneri DA; FASTeR Study Group.

J Am Coll Surg. 2023 Jan 1;236(1):99-104. doi: 10.1097/XCS.0000000000000443. Epub 2022 Dec 15.

PMID: 36519913

12.

[AAST multicenter prospective analysis of prehospital tourniquet use for extremity trauma.](#)

Schroll R, Smith A, Alabaster K, Schroepel TJ, Stillman ZE, Teicher EJ, Lita E, Ferrada P, Han J, Fullerton RD, McNickle AG, Fraser DR, Truitt MS, Grossman Verner HM, Todd SR, Turay D, Pop A, Godat LN, Costantini TW, Khor D, Inaba K, Bardes J, Wilson A, Myers JG, Haan JM, Lightwine KL, Berdel HO, Bottiggi AJ, Dorlac W, Zier L, Chang G, Lindner M, Martinez B, Tatum D, Fischer PE, Lieser M, Mabe RC, Lottenberg L,

Velopoulos CG, Urban S, Duke M, Brown A, Peckham M, Gongola A, Enniss TM, Teixeira P, Kim DY, Singer G, Ekeh P, Hardman C, Askari R, Okafor B, Duchesne J.

J Trauma Acute Care Surg. 2022 Jun 1;92(6):997-1004. doi:

10.1097/TA.0000000000003555. Epub 2022 Jan 18.

PMID: 35609289

13.

[Student Perspectives on Implementing Stop the Bleed Training into Medical School Curriculum.](#)

Marsh AM, Winslow W, Cohen J, Yi S, Jacomino M, Luck GR, Moreland R, Lottenberg L. Am Surg. 2022 Apr;88(4):633-637. doi: 10.1177/00031348211050829. Epub 2021 Nov

11.

PMID: 34761688

14.

[Acute and Delayed Intracranial Hemorrhage in Head-Injured Patients on Warfarin versus Direct Oral Anticoagulant Therapy.](#)

Hughes PG, Alter SM, Greaves SW, Mazer BA, Solano JJ, Shih RD, Clayton LM, Trinh NQ, Lottenberg L, Hughes MJ.

J Emerg Trauma Shock. 2021 Jul-Sep;14(3):123-127. doi: 10.4103/JETS.JETS_139_20.

Epub 2021 Sep 30.

PMID: 34759629 Free PMC article.

15.

[Study of Alteplase for Respiratory Failure in SARS-CoV-2 COVID-19: A Vanguard Multicenter, Rapidly Adaptive, Pragmatic, Randomized Controlled Trial.](#)

Barrett CD, Moore HB, Moore EE, Wang J, Hajizadeh N, Biffl WL, Lottenberg L, Patel PR, Truitt MS, McIntyre RC Jr, Bull TM, Ammons LA, Ghasabian A, Chandler J, Douglas IS, Schmidt EP, Moore PK, Wright FL, Ramdeo R, Borrego R, Rueda M, Dhupa A, McCaul DS, Dandan T, Sarkar PK, Khan B, Sreevidya C, McDaniel C, Grossman Verner HM, Percy C, Anez-Bustillos L, Baedorf-Kassis EN, Jhunjunwala R, Shaefi S, Capers K, Banner-Goodspeed V, Talmor DS, Sauaia A, Yaffe MB.

Chest. 2022 Mar;161(3):710-727. doi: 10.1016/j.chest.2021.09.024. Epub 2021 Sep 27.

PMID: 34592318 Free PMC article. Clinical Trial.

16.

[Eastern Association for the Surgery of Trauma Multicenter Trial: Comparison of pre-injury antithrombotic use and reversal strategies among severe traumatic brain injury patients.](#)

Yorkgitis BK, Tatum DM, Taghavi S, Schroepfel TJ, Noorbakhsh MR, Philips FH, Bugaev N, Mukherjee K, Bellora M, Ong AW, Ratnasekera A, Nordham KD, Carrick MM, Haan JM, Lightwine KL, Lottenberg L, Borrego R, Cullinane DC, Berne JD, Rodriguez Mederos D, Hayward TZ 3rd, Kerwin AJ, Crandall M.

J Trauma Acute Care Surg. 2022 Jan 1;92(1):88-92. doi:

10.1097/TA.0000000000003421.

PMID: 34570064

17.

[SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study.](#)

COVIDSurg Collaborative; GlobalSurg Collaborative.

Anaesthesia. 2022 Jan;77(1):28-39. doi: 10.1111/anae.15563. Epub 2021 Aug 24.

PMID: 34428858 Free PMC article.

18.

[Effects of pre-operative isolation on postoperative pulmonary complications after elective surgery: an international prospective cohort study.](#)

COVIDSurg Collaborative; GlobalSurg Collaborative.

Anaesthesia. 2021 Nov;76(11):1454-1464. doi: 10.1111/anae.15560. Epub 2021 Aug 9.

PMID: 34371522 Clinical Trial.

19.

[Therapeutic Hypothermia With Progesterone Improves Neurologic Outcomes in Ventricular Fibrillation Cardiac Arrest After Electric Shock.](#)

Qafiti FN, Rubay D, Shin R, Lottenberg L, Borrego R.

Cureus. 2021 Jun 18;13(6):e15749. doi: 10.7759/cureus.15749. eCollection 2021 Jun.

PMID: 34290928 Free PMC article.

20.

[Sick from what? Trauma during the SARS-CoV-2 pandemic.](#)

Rawlinson D, Vega J, Lottenberg L, Borrego R, Rueda M, Azar F.

Trauma Case Rep. 2021 Jun;33:100477. doi: 10.1016/j.tcr.2021.100477. Epub 2021 Apr 21.

PMID: 33898696 Free PMC article.

21.

[SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study.](#)

COVIDSurg Collaborative, GlobalSurg Collaborative.

Br J Surg. 2021 Sep 27;108(9):1056-1063. doi: 10.1093/bjs/znac101.

PMID: 33761533 Free PMC article.

22.

[Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study.](#)

COVIDSurg Collaborative; GlobalSurg Collaborative.

Anaesthesia. 2021 Jun;76(6):748-758. doi: 10.1111/anae.15458. Epub 2021 Mar 9.

PMID: 33690889 Free PMC article.

23.

[Revascularization of a Crushed Foot and Ankle Mortis.](#)

El Haddi J, Garbar V, Lottenberg L, Borrego R, Rueda M.

Cureus. 2020 Nov 19;12(11):e11561. doi: 10.7759/cureus.11561.

PMID: 33364088 Free PMC article.

24.

[Impact of the SARS-CoV-2 pandemic on emergency surgery services-a multi-national survey among WSES members.](#)

Reichert M, Sartelli M, Weigand MA, Doppstadt C, Hecker M, Reinisch-Liese A, Bender F, Askevold I, Padberg W, Coccolini F, Catena F, Hecker A; WSES COVID-19 emergency surgery survey collaboration group.

World J Emerg Surg. 2020 Dec 9;15(1):64. doi: 10.1186/s13017-020-00341-0.

PMID: 33298131 Free PMC article.

25.

[Where did the patients go? Changes in acute appendicitis presentation and severity of illness during the coronavirus disease 2019 pandemic: A retrospective cohort study.](#)

Neufeld MY, Bauerle W, Eriksson E, Azar FK, Evans HL, Johnson M, Lawless RA, Lottenberg L, Sanchez SE, Simianu VV, Thomas CS, Drake FT.

Surgery. 2021 Apr;169(4):808-815. doi: 10.1016/j.surg.2020.10.035. Epub 2020 Dec 4.

PMID: 33288212 Free PMC article.

26.

[Tracheoinnominate Artery Fistula Treated With Endovascular Stent Graft at a Level I Trauma Center.](#)

[Laswi M](#), Vega J, Jones K, Lottenberg L.

Cureus. 2020 Aug 13;12(8):e9710. doi: 10.7759/cureus.9710.

PMID: 32944432 Free PMC article.

27.

[Authors' Response to letter by Elkbuli et al.](#)

Pieracci FM, Leasia K, Bauman Z, Eriksson EA, Lottenberg L, Majercik S, Powell L, Sarani B, Semon G, Thomas B, Zhao F, Dyke C, Doben AR.

J Trauma Acute Care Surg. 2020 Oct;89(4):e123-e124. doi:

10.1097/TA.0000000000002844.

PMID: 32618966 No abstract available.

28.

[Traumatic Intercostal Splenic Herniation.](#)

Rawlinson D, Henry JA, Lama T, Genuit T, Lottenberg L.

Am Surg. 2020 Jan 1;86(1):e31-e32.

PMID: 32077431 No abstract available.

29.

[A multicenter, prospective, controlled clinical trial of surgical stabilization of rib fractures in patients with severe, nonflail fracture patterns \(Chest Wall Injury Society NONFLAIL\).](#)

Pieracci FM, Leasia K, Bauman Z, Eriksson EA, Lottenberg L, Majercik S, Powell L, Sarani B, Semon G, Thomas B, Zhao F, Dyke C, Doben AR.

J Trauma Acute Care Surg. 2020 Feb;88(2):249-257. doi:

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DEVELOPER

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RESEARCH ACTIVITIES

Ongoing

1. Vidacare clinical trial – Insertion of IO for CT scanning
2. NeuRx- Diaphragm Pacing System for use in stable, high spinal cord injuries; HUD Exemption
3. NeuRx- Diaphragm Pacing System for use patient with Amyotrophic Lateral Sclerosis
4. Methicillin-Resistant Staphylococcus Aureus in a Trauma Population: Does Decolonization Prevent Infection (MRSA)
5. Advanced Trauma Operative Management Course (ATOM)
6. An Observational Study to Determine the Safety and Effectiveness of Intraosseous Contrast Dye Vascular Access for the Delivery of CT
7. Extra-Peritoneal Pelvic Packing: Description and Analysis Data Collection and Entry complete.

8. Utility of Point of Care Testing (POCT) in Predicting Outcomes in Trauma Patients
9. Acute Care Surgery Database
10. Management of Blunt Splenic Injury: A Single Institution Retrospective Study

Completed

1. A Multicenter Randomized, Open-Label, Phase 3 Study to Compare the Safety and Efficacy of Intravenous Doripenem with that of Intravenous Piperacillin/Tazobactam in Hospital-Acquired Pneumonia, 07/08/04- Complete. Principal Investigator \$83,812.50.
2. A Multicenter Randomized, Open-Label, Phase 3 Study to Compare the Safety and Efficacy of Intravenous Doripenem with that of Intravenous Imipenem in Ventilator-Associated Pneumonia, July 5th, 2004 – Complete. Sub-Investigator \$117,225.00
3. Development of a Shark Attack Severity Score using the International Shark Attack File, October 5, 2005 Complete. Sub-Investigator Funding- Physician Initiated
4. The Effects of Estrogen on CTGF and TGF-B in Pre/Post Menopausal Women and Men of Varying Ages Following Burn Injury, October 5, 2005 – Complete. Sub-Investigator Funding- Physician Initiated
5. A Prospective Study to Evaluate the Erythropoietic Responsiveness Associated with Once Weekly (QW) Administration of Darbepoetin alfa (Aranesp) in Patients Admitted to the ICU, Jenica, November, 1st 2005 – Complete, \$43,375.00 Sub-Investigator
6. F7Trauma-1648: A multi center, randomized, double-blind, parallel group, placebo controlled trial to evaluate the efficacy and safety of activated recombinant factor VII (rFVIIa/NovoSeven®/NiaStase®) in the treatment of refractory bleeding in severely injured trauma patients. BB-IND.9864. Novo Nordisk, February 10, 2006 – Complete. Principal Investigator \$68,900.00
7. A Randomized Double Blinded Pilot Study Evaluating the Efficacy of Lidoderm 5% Transdermal Patches in Treating Pain in Trauma Patients with Rib and Sternum Fractures, February 22, 2006 –N/A.
8. Evaluation of the GORE TAG Thoracic Endoprosthesis for the Treatment of Complex Pathology of the Descending Thoracic Aorta, GORE, March 5, 2006

9. Bard Recovery Filter Study, BARD, October 3, 2006
10. A Retrospective Review to Evaluate Outcomes of Two Feeding Tubes Used to Provide Nutritional Support for Surgical Patients, August 28, 2006
11. Dexmedetomidine versus Propofol for the Sedation of Trauma Patients at-risk for Alcohol Withdrawal in an Intensive Care Unit, September 28, 2006
12. A Comprehensive Assessment of the Florida Trauma System, University of South Florida, July 15, 2004 – February 8, 2005, \$73,499.00.
13. A Multicenter, Retrospective, Observational Study to Evaluate Erythropoietic Stimulating Protein (ESP) Use and Clinical Outcomes in Hospitalized Patients (ASSESS), Amgen, March 22nd, 2005 – February 2, 2006, \$14,000.00.
14. Incidence of Venous Thromboembolism in High Risk Trauma Patients with Retrievable Inferior Vena Cava Filter Prophylaxis; A Pilot Feasibility Study, October 2008-February 2013. Sub-Investigator Funding-Physician Initiated

Invited Lecturer

National:

1. Invited presenter for Haemonetics Corporation, Experiences with TEG, Milwaukee, MN, November 12, 2013.
2. Invited speaker, Rib Plating, Indianapolis, IN; August 26, 2013.
3. Invited speaker, Rib Plating Consortium, Henderson, NV; June 1, 2013.
4. Invited Grand Rounds speaker, University of Texas San Antonio, San Antonio, TX; May 16, 2013.
5. Invited Grand Rounds speaker, University of South Alabama, Mobile, AL; February 22, 2013.
6. Invited Grand Rounds speaker, Rib Plating, Savannah, GA; January 10, 2013.
7. Speaker at Scientific Program, Eastern States Trauma, National Harbour, MD; June 10-12, 2012.
8. Speaker at 14th Annual Trauma Conference, "Controversies in Trauma: Where Have We Been, Where Are We Going?" Rib Plating; Ft. Worth, TX, April 5, 2012.
9. Speaker at Synthes National Meeting, "Rib Fracture Fixation" Palm Springs, CA; March 10-13, 2012.

10. Invited Lecturer, Pancreatitis, Point/Counterpoint on Acute Care Surgery, National Harbor, MD; June 12-14, 2011.
- 11.** "Advanced Complex Ventral Hernia Repair Symposium", Covidien, Las Vegas, NV; January 29, 2009.
12. Invited Lecturer, Visiting Professor, "Resuscitation 2009" Stony Brook University Hospital, Islip, NY, May 13, 2009.
13. Invited Lecturer, Covidien, "Trauma and Emergency Surgery, Simple Solutions for Complex Cases using Biologics", Boston, MA, May 8, 2009.
14. Invited Lecturer, Harris Methodist Annual Trauma Conference, "Advanced resuscitation Technique to Decrease Compartment Syndrome", Fort Worth, TX, April 22, 2009.
- 15.** Invited Lecturer, Covidien, "Trauma and Emergency Surgery, Simple Solutions for Complex Cases using Biologics", Chicago, IL, April 1, 2009.
- 16.** Invited Lecturer, Covidien, "Trauma and Emergency Surgery, Simple Solutions for Complex Cases using Biologics", Charlottesville, VA, March 4, 2009
17. Invited Lecturer, sanofi-aventis – "Prophylaxis of VTE in Patients Undergoing Abdominal Surgery" – Thomasville, GA October 17th 2006.
18. Invited Speaker - Point/Counterpoint – Williamsburg, VA June 4th – 6th, 2006.
19. Invited Senior Site Surveyor for the Pennsylvania Trauma Foundation – Pennsylvania University and Allen, Pennsylvania April 18th – 21st, 2006.
20. ATS, Trauma Information and Exchange Program, Washington, DC, November 13-14, 2005.
21. Physician Assistants in Trauma, Eastern Association for the Surgery of Trauma, Amelia Islands, FL January 2004.
22. Trauma & Critical Care Meeting, Las Vegas, NV, March 2001
23. "The Impact of a Transfusion Alternatives Program on Surgical Transfusion Practice and Costs", Southeastern Surgical Congress, New Orleans, LA. February 2001
24. Early Intervention By The Multidisciplinary Team Improves Outcome During Inpatient Rehabilitation, Southeastern Surgical Congress, New Orleans, LA, Feb. 2001

25. Annual Trauma Center Leadership Conference, Newport Beach, CA, February. 2001
26. Symposium By the Sea, Captiva, FL August 2000
27. Annual Multidisciplinary Trauma Conference, Sparrow Hospital, Lansing, MI, May 2000
28. Space Coast Trauma Symposium, Melbourne Beach, FL November 1999
29. Surgery Advisory Board Meeting, Knoxville, TN, May 1999

Regional:

1. Invited Lecturer for Haemonetics, "TEG in trauma" Southeastern Surgical Meeting, Savannah, GA; February 21, 2014.
2. Invited presenter for Haemonetics Corporation, Experiences with TEG, Ft. Lauderdale, FL; June 10-11, 2013.
3. Invited Lecturer, "Inspiring Quality", Rollins College, Orlando, FL; January 23, 2013.
4. Invited Lecturer, Grand Rounds, Panama City, FL; August 22, 2012.
5. Invited Lecturer, Symposium By The Sea - Controversies in Emergency Medicine Conference, "Coagulation Reversal in Head Trauma Patients" – Amelia Island, FL; August 5, 2012.
6. Invited Lecturer, "Rib Plating" – Orlando, FL; June 15, 2012.
7. Invited Lecturer, Shands Live Oak, "Rural Trauma Systems," – Live Oak, FL; May 13, 2011.
8. Invited Lecturer, "Resuscitation 2009", Sacred Heart Hospital, Pensacola, FL November 17, 2008.
9. Disaster Management, Speaker –, Orlando, FL November 21, 2008.
10. Invited Lecturer, sanofi-aventis – "Prophylaxis of VTE in Patients Undergoing Abdominal Surgery" – Tallahassee, FL October 23rd 2006
11. Invited Lecturer, sanofi-aventis – "Prophylaxis of VTE in Patients Undergoing Abdominal Surgery" – Pensacola, FL September 25-26th 2006

12. Invited Lecturer, sanofi-aventis – “Prophylaxis of VTE in Patients Undergoing Abdominal Surgery” – Ocala, FL September 14th 2006
13. Invited Lecturer, Shands Jacksonville – Disaster Management Seminar “Disaster Management in the Austere (Rural) Environment” – Jacksonville, FL October 23rd 2006
14. Disaster Management, Speaker – Topic: “Current Status and Future of HRSA/CDC Grants for Florida”, October 11th, 2005
15. Florida Chapter American College of Surgeons Meeting, Speaker – Topic: “Update of Florida Trauma System” – Boca Grande, Florida, May 27th, 2005.
16. Robert Zeppa Memorial Lecture “Florida’s Trauma System: 25 years of Progress”, Jackson Memorial Hospital, June 12th, 2004.
17. Invited lecturer, Disaster Planning Conference, Hurricane Andrew: Ten Years After, New Jersey. April 2002.
- 18.** Invited Lecturer, Florida Surgical Society/Florida Chapter ACS Annual Meeting, Key West, FL. June 2001

Local:

1. Invited Lecturer, "Management of complex pelvic fractures" University of Florida, Gainesville, FL; February 18, 2014.
2. Invited Lecturer, “Rib Plating” Jacksonville, FL; February 17, 2014.
3. Invited Lecturer, University of Florida Surgery 201 Course, “Management of enterocutaneous fistulas” – Gainesville, FL; March 27, 2012.
4. Invited Lecturer, "Management of Pelvic Fractures," Surgery Course PGY201, University of Florida, May 2011.
5. Invited Lecturer, New Housestaff Orientation Program, UF Graduate Medical Education, June 2009.
6. Lecturer, Disruptive Physicians, 3rd year Medical Students, January 22, 2009
7. Lecture to the Medical Students – Topic: “Trauma” Dragstedt Conference Room, April 4, 2006
8. DVT Prophylaxis in Trauma/Surgery – Gainesville, FL, March 2, 2006.

9. Lecture FCCS, Shands & University of Florida, School of Nursing, FL, November 19, 2005.
10. Lecture to the Medical Students – Topic: “Trauma” Comunicore Classroom C1-4, November 8, 2005.
11. ATOM, Speaker – Topic: “Splenic Trauma”, Hartford Hospital, October 27, 2005.
12. Lecture to the Medical Students – Topic: “Trauma” Dragstedt Conference Room, October 12, 2005.
13. Lecture to the Rotary – Topic: “Trauma Care at Shands & University of Florida”, Paramount Resort Hotel, Gainesville, August 23, 2005.
14. Grand Rounds in OB/GYN, Lecture – Topic: “Management of Trauma in Pregnancy” – Barron Library, 3rd Floor, Medical Science Bldg, April 22, 2005.
15. Multidisciplinary Approaches to Multisystem Trauma: “Issues and Priorities” – Post Graduate Course, April 18, 2005.
16. Lecture to the Medical Students – Topic: “Trauma” Dragstedt Conference Room, March 31, 2005.
17. In-Service – Topic: “Trauma” with Jim Howard and ShandsCair Team in Chiefland, FL, March 30, 2005.
18. AACN Monthly Chapter Meeting Lecture – Topic: “End Points of Resuscitation”, Shands/UF Room 6120, March 8, 2005.
19. In-Service – Topic: “Trauma” with Jim Howard and ShandsCair Team in Gilchrist County Sheriffs Office, February 23, 2005.
20. Lecture to the Medical Students – Topic: “Trauma”, Dragstedt Conference Room, February 17, 2005.
21. Critical Care Medicine Journal Club Meeting Lecture – Topic: “Emergency Airway Management”, Steve’s Café American, February 8, 2005.
22. Lecture to the Medical Students – Topic: “Trauma”, Commincore Classroom CG-56, February 4, 2005.
23. Journal Club Meeting Lecture – Topic: “Invasive Procedures”, 706 Restaurant, January 25, 2005.

24. General ATLS Approach Lecture, Shands Hospital, January 4, 2005.
25. Anesthesiology Lecture – Topic: “Characteristics, Infrastructures & Lines of Command in the Level 1 Trauma Sytem at Shands”, January 3, 2005.
26. Inservice – Topic: “Pain Control” to Nursing staff at Shands Hospital, December 16, 2004.
27. Lecture – Topic: “Bedside Surgery”, Panamerican Trauma Society Conference Meeting, Miami FL, November 17, 2004.
28. Initial Management of Trauma, Union County EMS, Bradford, FL, March 30, 2004.
29. Sedation and Pain Management, Halifax Hospital, Daytona Beach, FL, March 26, 2004.
30. Blood Conservation in Trauma and Critical Care, Surgery Grand Rounds, Shands/Jacksonville Department of Surgery, March 17, 2004.
31. Sedation and Pain Management in Trauma and Critical Care, Surgery Grand Rounds, University of Florida Department of Surgery, February 25, 2004.
32. Trauma in North Central Florida 2004, Alachua County Medical Society, January 2004.
33. Invited lecturer, Nutritional Support in Trauma & Critical Care, Mission Hills, CA, September 2003.
34. Invited lecturer, Nutritional Support in Trauma & Critical Care, Los Angeles, CA, September 2003.
35. Invited lecturer, Sedation & Pain Management in Critical Illness, 5th Annual Total Trauma Care Conference, Greeley, CO, August 2003.
36. Invited lecturer, Sedation & Pain Management in Critical Illness, May Day Trauma Conference, Melbourne, FL, May 2003.
37. Invited lecturer, Sedation & Pain Management in Critical Illness, New Orleans, LA, April 2003.
38. Invited lecturer, Sedation & Pain Management in Critical Illness, Chattanooga, TN, April 2003.
39. Invited lecturer, Sedation & Pain Management in Critical Illness, Las Vegas, NV, March 2003.

40. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Minneapolis, MI. December 2002.
41. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Trauma Grand Rounds, Dearborn, MI. October 2002.
42. Invited lecturer, Broward County Physician Assistant Association, Fort Lauderdale, FL. October 2002.
43. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit. September 2002.
44. Invited lecturer, Sedation & Pain Management in the ICU, Fort Lauderdale, FL. August 2002.
45. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Atlanta, GA. July 2002.
46. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Birmingham, AL. July 2002.
47. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Fort Lauderdale, FL. May 2002.
48. Invited lecturer, Ant fungal Medication in the Intensive Care Unit, Fort Lauderdale, FL., May 2002.
49. Invited lecturer, Acute Abdominal Trauma, Nova Southeastern University, Florida, January 2002.
50. Invited lecturer, Fluid & Electrolyte Management in Adults, Nova Southeastern University, Florida. January 2002.
51. Invited lecturer, Parenteral & Enteral Nutrition Symposium. November 2001.
52. Invited lecturer, North Florida Region Trauma Agency, Status of Trauma Care in Florida, Ocala, FL. November 2001.
53. Invited lecturer, Sedation & Pain Management in the Intensive Care Unit, Wisconsin. October 2001.
54. Invited Lecturer, New Strategies in Gram Positive Infections, Melbourne, FL. August 2001.

55. Invited Lecturer, New Strategies in Gram Positive Infections, Fort Lauderdale, FL. August 2001.
56. Invited Lecturer, New Strategies in Gram Positive Infections, Davie FL. July 2001.
57. Invited Lecturer, Canidida Infections, Captiva, FL. May 2001.
58. Invited Lecturer, Clarion Methodist Hospital Grand Rounds, Indianapolis, IN. May 2001.
59. Invited Lecturer, Sacred Heart Hospital Grand Rounds, Pensacola, FL., April 2001.
60. Invited Lecturer, Carraway Injury Institute Grand Rounds, Birmingham, AL., April 2001.
61. Invited Lecturer, University of Miami Grand Rounds, Miami, FL., March 2001.
62. Invited Lecturer, New Strategies in Gram Positive Infections, N. Miami, FL., March 2001.
63. Invited Lecturer, Nova Southeastern University Medical School, Davie, FL, Jan. 2001.
64. Invited Lecturer, Grand Rounds, St. Mary's Hospital, West Palm Beach, FL, August 2000.
65. Invited Lecturer, Trauma Conference, Holmes Regional Trauma Center, Melbourne, FL, August 2000.
66. Invited Lecturer, Yeast Infections in the ICU, Charlotte, NC, July 2000.
67. Invited Lecturer, Trauma & Critical Care - Point/Counterpoint Annual Meeting, Atlantic City, NJ, May 2000.
68. Invited Lecturer, Yeast Infections in the ICU, Orlando FL, April 2000.
69. Invited Lecturer, Yeast Infections in the ICU, Miami FL, February 2000.
70. Invited Lecturer, "Tough Trauma Talk", Pinecrest High School, Fort Lauderdale FL, February 2000.
71. Invited Lecturer, Nova Southeastern University Medical School, Davie FL, January 2000.

72. Invited Lecturer, Grand Rounds, Mount Sinai Medical Center, Miami FL, November 1999.
73. Invited Lecturer, New Antibiotic Strategies, Savannah GA, September 1999.
74. Invited Lecturer, New Antibiotic Strategies, Orlando FL, May 1999.
75. Invited Lecturer, New Antibiotic Strategies, Knoxville TN, May 1999.
76. Invited Lecturer, New Antibiotic Strategies, Columbia SC, May 1999.
77. Invited Lecturer, New Antibiotic Strategies, Pensacola FL, May 1999.
78. Invited Lecturer, New Antibiotic Strategies, Jackson MS, May 1999.
79. Invited Lecturer, Trauma Conference, Pelvic Fractures, Greenville Memorial Hospital, Greenville, SC, May 1999.
80. Invited Lecturer, Pensacola Surgical Society Meeting, Pensacola, FL, May 1999.
81. Invited Lecturer, New Antibiotic Strategies, Nashville TN, April 1999.
82. Invited Lecturer, New Antibiotic Strategies, Fort Lauderdale FL, April 1999.
83. Invited Lecturer, New Antibiotic Strategies, Miami Beach FL, April 1999.
84. Invited Lecturer, New Antibiotic Strategies, Washington DC, March 1999.
85. Invited Lecturer, New Antibiotic Strategies, Florence SC, February 1999.
86. Invited Lecturer, New Antibiotic Strategies, Miami FL, January 1999.
87. Invited Lecturer, New Antibiotic Strategies, Savannah GA, January 1999.
88. Invited Lecturer, University of Central Florida Pre-Professional Medical Society, Gainesville FL, January 1999.
89. Invited Lecturer, Nova Southeastern University, Davie FL, January 1999.
90. Invited Lecturer, Surgical Grand Rounds, Mt. Sinai Medical Center, Miami Beach FL, January 1999.
91. Invited Lecturer, Trauma Team 98 Conference, Orlando Regional Healthcare System, Orlando, FL, October 1998.

92. Invited Lecturer, Grand Rounds, Department of Surgery, University of Florida Health Science Center, Jacksonville, FL, October 1998.
93. Invited Lecturer, Grand Rounds, Department of Surgery, University of South Alabama, Mobile, AL, September 1998.
94. Invited Lecturer, Deep Vein Thrombosis Prophylaxis and Vena Cava Filter Insertion, Sparrow Hospital, Lansing, MI, June 1998.
95. Invited Lecturer, Ventilation Care - A Trauma Surgeons Prospective - Multidisciplinary Trauma Conference, North Broward Medical Center, Pompano Beach, FL, May 1998.
96. Invited Lecturer, Pelvic Care - A Trauma Surgeons Prospective, 2nd Annual First There First Care EMS Conference, sponsored by Broward County EMS, Margate, FL, May 1998.
97. Invited Lecturer, Trauma Center Implementation, Holmes Regional Medical Center, Melbourne, FL, March 1998.

Invited Presentations:

1. Podium Presentation, History of Medicine- Robert Zeppa: A Southern Transplant that Survived. Southern Surgical Congress, December 2008.
2. Presentation, Project CARGO, Olson Middle School, Dania, FL, May 2000.
3. Video Presentation – WLRN Channel 17, “Protecting America’s Children”, Miami, FL, April 2000.
4. Presentation, “Tough Trauma Talk”, Leadership Hollywood Organization, Holly, FL, March 2000.
5. Presentation, Project CARGO, Davie FL, November 1999.
6. Presentation, Project CARGO, Miramar FL, May 1999.
7. Presentation, Project CARGO, Pembroke Pines FL, February 1999.

Other

8. Participant – Antifungal Speaker Training Workshop for Surgeons – Chicago July 28th-29th, 2006

9. Invited Senior Site Surveyor for the Pennsylvania Trauma Foundation – Temple University Trauma Center and Albert Einstein Trauma Center, Pennsylvania June 7th – 9th, 2006
10. Moderator, ABS Oral Exams – Tampa, FL, December 11th, 2005
11. Moderator, ACS Clinical Congress, “Trauma Video”, San Francisco, October 17-29th, 2005.
12. Moderator “Colloquim for Decubiti”, Boardroom, Shands Hospital, August 12th, 2005.
13. Pocket Chart Demo – Topic: “How it increase revenues through electronic charge capture system” for Laura Wilson – the new Director of Business Development for the Vascular, TCV & Plastic Surgery Divisions – Dragstedt Conference Room, April 13th, 2005.
14. CardioQ Inservice, March 15th, 2005.
15. Course Instructor – Ultrasound, Sacred Heart Hospital, Pensacola, FL. July 2001.
16. Course Instructor – Ultrasound, Clarion Methodist Hospital, Indianapolis, IN. May 2001.
17. Course Director for the Memorial Regional Hospital Annual Trauma Symposium, Ft. Lauderdale, FL, 1994-2003.
18. Reviewer for North Carolina Office of Emergency Medical Services for Level I Trauma Center Renewals, March 2000.
19. Director, MRH Trauma Symposium, Fort Lauderdale, FL, February 2000.
20. Reviewer for American College of Surgeons Committee on Trauma.
21. Verification/Consultation Program for Hospitals, March 1999, June 1999, July 1999, November 1999.
22. Director, Trauma Symposium, Ft, Lauderdale FL, February 1999.
23. Director of Ultrasound in Trauma Course, Memorial Regional Hospital Annual Trauma Symposium, Ft. Lauderdale, FL, 1996-1998.
24. Guest Panelist, Implementation of the Trauma System, Michigan Committee on Trauma Meeting, Gaylord, MI, June 1998.

25. Guest Panelist, Homicide Investigators Seminar, co-sponsored by the Broward County State Attorneys Office and the Medical Examiners Office, Ft. Lauderdale, FL, May 1998.
26. Instructor, Refresher Course on Advanced Surgical Airway Management, Broward County Fire Rescue Flight Medic Program, April 1998.
27. Guest Examiner for the American Board of Surgery, Miami, FL 1990.

COMMITTEE MEETINGS

National:

1. ACS Annual Meeting, Washington DC, October 6-9, 2013.
2. Leadership / Joint Advocacy Meeting, Washington, DC, March 22, 2009
3. Committee on Trauma Meeting, Chicago, IL, March 18, 2009
4. ACS Annual Meeting, San Francisco, CA October 12, 2008
5. AAST Annual Meeting, Maui, HI, September 23, 2008
6. AAMC – SGEA Master Educator, Nashville, TN, April 3, 2008
7. ACS Annual Meeting – Chicago, - October 8-11th, 2006
8. AAST Annual Meeting – New Orleans, - September 27-29th, 2006
9. ACS COT Annual Meeting – Chicago, IL – March 16th, 2006
10. ACS Leadership Conference – Washington, DC – June 12th, 2005
11. American College of Surgeons Annual Meeting – Washington, DC – March 3rd, 2005
12. Pan American Trauma Society Conference Meeting – Miami, FL – November 17th, 2004
13. ACS Site Survey – Evansville, Indiana – October 14th, 2004
14. American College of Surgeons Clinical Congress National Trauma Meeting – New Orleans, LA – October 10th, 2004

Regional

1. EAST Annual Conference, Naples, FL, January 13-18, 2014.
2. Southeastern Surgical Congress, Atlanta, GA. February 11, 2009
3. EAST Annual Conference – Orlando, FL, January 12, 2009
4. IHI Annual Form, Nashville, TN, December 18, 2008
5. Southern Surgical Association Annual Meeting, Palm Beach, FL November 30, 2008
6. Southeastern Surgical Congress, Birmingham, AL, February 9, 2008
7. Southeastern Surgical Congress, Savannah, GA, February 10, 2007.
8. Southern Surgical Association, Palm Beach, FL, December 3, 2006
9. Southern Surgical Association Conference – Hot Springs, VA – December 4th, 2005
10. Dori 9 & 10 Investigators Meeting – Atlanta, GA – February 2nd, 2005
11. Eastern Association for the Surgery of Trauma Meeting – Fort Lauderdale, FL – January 11th, 2005.
12. Southern Surgical Committee Meeting – Palm Beach, FL – December 4th, 2004.
13. EAST Site Evaluation – Fort Lauderdale, FL – November 4th, 2004.

State

1. Florida Committee on Trauma Meeting, Tampa, FL, October 24-25, 2013.
2. Florida Chapter American College of Surgeons, Palm Coast, FL May 20, 2009
3. Air Medical Safety Summit, Clermont, FL May 1, 2009
4. Life Quest Advisory Meeting, Jacksonville, FL February 5, 2009
5. FL Disaster Management Program, Miami, FL November 24, 2008
6. FL Disaster Management Program, Tallahassee, FL November 20, 2008

7. FL Chapt. American College of Surgeons, Palm Beach, FL May 22, 2008
8. FL Chapt. American College of Surgeons, Palm Beach, FL, May 24, 2007
9. FL COT Annual Meeting, Jacksonville, FL, January 24, 2007
10. FCOT - Fire Rescue East – Jacksonville, FL – January 26th, 2006
11. Rule Development Workshop - Tampa, FL - October 31st, 2005
12. DOH Leadership Team & North Carolina Trauma Team - Tallahassee, FL - August 15th, 2005.
13. Alcohol Impaired Drivers Conference - Raddison Hotel Ronald Regan Airport - July 18th, 2005.
14. State EMS Meetings/FCOT Meeting – Orlando, FL - July 5-7th, 2005
15. CDC/HRSA Statewide Advisory Board Meeting – Orlando, FL – April 21st, 2005.
16. Emergency Medicine & Trauma Surgery joint Journal Club Meeting – 706 Restaurant, Gainesville, FL – April 19th, 2005.
17. EMS Advisory Council Meeting – Tallahassee, FL – April 13th, 2005.
18. ED Meeting – Orlando, FL – March 29th, 2005.
19. Trauma Office Meeting – Tallahassee, FL – March 22nd, 2005.
20. Trauma Registry Meeting – Tampa Airport, Tampa FL – March 11th, 2005.
21. Current Trends in Trauma and Critical Care Meeting – St. Petersburg, FL – February 18th, 2005.
22. State AFTC Meeting – Tallahassee, FL – February 2nd, 2005.
23. Trauma Study Board Meeting – Shands Jacksonville, FL – January 7th, 2005.
24. Trauma Study Board Meeting – Tampa, FL – October 28th, 2004.
25. Orthopedic Trauma Association Meeting – Fort Lauderdale, FL – October, 8th, 2004
26. Florida Committee Meeting on Trauma Annual Meeting – Orlando, FL - July 7th, 2004

Institutional

1. Texas Trauma Conference, Ft Worth, TX, April 22, 2009
2. Navigating the Future of Trauma – St Petersburg, FL – February 23rd, 2006
3. Rule Development Workshop – Tampa, FL - August 10th, 2005.
4. National Steering Committee Meeting for Trauma Study, Participant: Tampa, FL - June 24th, 2005.
5. National Steering Committee Meeting for Trauma Study – Tampa, FL – June 24th, 2005.
6. Senate Chambers Meeting – Tallahassee, FL – February 2nd, 2005.
7. Gainesville Sun Editorial Board Meeting – Gainesville, FL – January 27th, 2005.
8. Pharmacy & Therapeutics Committee Meeting – Topic: “Possible addition of Dexmedetomidine (Precedex) in the Formulary” – Shands/UF – January 18th, 2005.
9. CCM Journal Club Meeting – Steve’s Café American – December, 14th 2005.
10. ICU Improvement Committee CY – Shands/UF Room 2154 – September 23rd, 2004.

CERTIFICATES/AWARDS

1. Raymond H. Alexander, MD Award Florida Chapter of the American College of Surgeons “In Recognition of outstanding dedication and service to the medical profession in the field of surgery” (2013)
2. Outstanding Faculty Award/General Surgery “In Recognition of Academic Excellence In Service to Housestaff & Students” (2008-2009).
3. Certificate of Appreciation for the “Contributions as a Clinical Preceptor to the College of Nursing (2004-2005).
4. Outstanding Faculty Award/General Surgery “In Recognition of Academic Excellence In Service to Housestaff & Students” (2004-2005).

PERSONAL INTERESTS

- Second Degree Black Belt GoJu Karate.
- Handheld Computer Technology and Software Development.

- Deep Sea Fishing.
- Avid Miami Dolphins and Florida Gators Football Fan.
- Avid Florida Gators Fan

CURRICULUM VITAE

NAME: Michael L. Lu, Ph.D.

INSTITUTIONAL AFFILIATION: Associate Professor of Biomedical Science
College of Medicine
Florida Atlantic University

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EDUCATION:

1988	Ph.D.	University of Massachusetts, Amherst (Molecular and Cellular Biology)
1981	D.V.M.	National Board of Veterinary Medicine, Taiwan, R.O.C.
1981	B.V.M.	National Taiwan University, Taipei, Taiwan, R.O.C.

POSTDOCTORAL TRAINING:

1991-1992	National Research Service Award, NIH
1989-1990	Neuromuscular Disease Research Fellow Muscular Dystrophy Association
1988-1990	Postdoctoral Research Fellow in Pathology Dana-Farber Cancer Institute and Harvard Medical School

EMPLOYMENT/PROFESSIONAL APPOINTMENTS:

Academic Appointments:

2006-	Associate Professor, Florida Atlantic University
1994-2006	Assistant Professor of Surgery, Harvard Medical School

1993 Instructor of Surgery, Harvard Medical School

Hospital Appointments:

1992-2006 Director, Urologic Oncology Research,
Brigham and Women's Hospital

1981 Resident, Veterinary Hospital, National Taiwan University,
Taipei, Taiwan

1979 Intern in Infectious Disease
Veterinary Hospital, National Taiwan University, Taipei, Taiwan

Licensure and Certification

1981 D.V.M. National Board of Veterinary Medicine, Taiwan

SCHOLARSHIP/RESEARCH/CREATIVE ACTIVITY

Publications in Print (newest to oldest; H-index 34, Citation 4,598):

1. Iannotta L, Fasiczka R, Favetta G, Zhao Y, Giusto E, Dall'Ara E, Wei J, Ho FY, Ciriani C, Cogo S, Tessari I, Iaccarino C, Liberelle M, Bubacco L, Taymans JM, Manzoni C, Kortholt A, Civiero L, Hilfiker S, Lu ML, Greggio E. PAK6 rescues pathogenic LRRK2-mediated ciliogenesis and centrosomal cohesion defects in a mutation-specific manner. *Cell Death Dis.* 2024 Oct 17;15(10):752. doi: 10.1038/s41419-024-07124-4. PubMed [citation] PMID: 39419978, PMCID: PMC11487180
2. Gaudet ID, Xu H, Gordon E, Cannestro GA, Lu ML, Wei J. Elevated SLC7A2 expression is associated with an abnormal neuroinflammatory response and nitrosative stress in Huntington's disease. *J Neuroinflammation.* 2024 Feb 28;21(1):59. doi: 10.1186/s12974-024-03038-2. PubMed [citation] PMID: 38419038, PMCID: PMC10900710
3. Xu H, Bensalel J, Raju S, Capobianco E, Lu ML, Wei J. Characterization of huntingtin interactomes and their dynamic responses in living cells by proximity proteomics. *J Neurochem.* 2023 Feb;164(4):512-528. doi: 10.1111/jnc.15726. Epub 2022 Nov 27. PubMed [citation] PMID: 36437609, PMCID: PMC10312121
4. Brennan J, Lu ML, Kang Y. A New Model of Esophageal Cancers by Using a Detergent-Free Decellularized Matrix in a Perfusion Bioreactor. *Bioengineering (Basel).* 2023 Jan 11;10(1):96. doi: 10.3390/bioengineering10010096. PMID: 36671668
5. Wang X, Nie Z, Chang J, Lu ML, Kang Y. Multiple channels with interconnected pores in a bioceramic scaffold promote bone tissue formation. *Sci Rep.* 2021 Oct 14;11(1):20447.

6. Xu H, Bensalel J, Capobianco E, Lu ML, Wei J. Impaired Restoration of Global Protein Synthesis Contributes to Increased Vulnerability to Acute ER Stress Recovery in Huntington's Disease. *Cell Mol Neurobiol*. 2021 Aug 4;. doi: 10.1007/s10571-021-01137-9. [Epub ahead of print]
7. Bensalel J, Xu H, Lu ML, Capobianco E, Wei J. RNA-seq analysis reveals significant transcriptome changes in huntingtin-null human neuroblastoma cells. *BMC Med Genomics*. 2021 Jul 2;14(1):176.
8. Chaitin H, Lu ML, Wallace MB, Kang Y. Development of a Decellularized Porcine Esophageal Matrix for Potential Applications in Cancer Modeling. *Cells*. 2021 Apr 29;10(5). doi: 10.3390/cells10051055. PubMed PMID: 33946915; PubMed Central PMCID: PMC8144998.
9. Huang N, Erie C, Lu ML, Wei J. Aberrant subcellular localization of SQSTM1/p62 contributes to increased vulnerability to proteotoxic stress recovery in Huntington's disease. *Mol Cell Neurosci*. 2018 Apr;88:43-52. doi: 10.1016/j.mcn.2017.12.005. Epub 2017 Dec 12. PubMed PMID: 29246658; PubMed Central PMCID: PMC5893379.
10. Xu B, Lefringhouse J, Liu Z, West D, Baldwin LA, Ou C, Chen L, Napier D, Chaiswing L, Brewer LD, St Clair D, Thibault O, van Nagell JR, Zhou BP, Drapkin R, Huang JA, Lu ML, Ueland FR, Yang XH. Inhibition of the integrin/FAK signaling axis and c-Myc synergistically disrupts ovarian cancer malignancy. *Oncogenesis*. 2017 Jan 30;6(1):e295.
11. Zhou P, Erfani S, Liu Z, Jia C, Chen Y, Xu B, Deng X, Alfaro JE, Chen L, Napier D, Lu M, Huang JA, Liu C, Thibault O, Segal R, Zhou BP, Kyprianou N, Horbinski C, Yang XH. CD151- $\alpha 3\beta 1$ integrin complexes are prognostic markers of glioblastoma and cooperate with EGFR to drive tumor cell motility and invasion. *Oncotarget*. 2015 Oct 6;6(30):29675-93.
12. Erie C, Sacino M, Houle L, Lu ML, Wei J. Altered lysosomal positioning affects lysosomal functions in a cellular model of Huntington's disease. *Eur J Neurosci*. 2015 Aug;42(3):1941-51.
13. Paz S, Lu ML, Takata H, Trautmann L, Caputi M. SRSF1 RNA Recognition Motifs Are Strong Inhibitors of HIV-1 Replication. *J Virol*. 2015 Jun;89(12):6275-86.
14. Jia C, Efrani SF, Liu Z, Chen Y, Lu ML, Huang J, van Nagell JR, Yang XH. Emerging links of CD151 and Integrins to Tumorigenesis and EMT Induction in Ovarian Cancer. *Cancer cell & microenvironment*. 2015; 2:e670. doi: 10.14800/ccm.670.
15. Baldwin LA, Hoff JT, Lefringhouse J, Zhang M, Jia C, Liu Z, Erfani S, Jin H, Xu M, She QB, van Nagell JR, Wang C, Chen L, Plattner R, Kaetzel DM, Luo J, Lu M, West D, Liu C, Ueland FR, Drapkin R, Zhou BP, Yang XH. CD151- $\alpha 3\beta 1$ integrin complexes suppress ovarian tumor growth by repressing slug-mediated EMT and canonical Wnt signaling. *Oncotarget*. 2014 Dec 15;5(23):12203-17.

16. Jean-Philippe J, Paz S, Lu ML, Caputi M. A truncated hnRNP A1 isoform, lacking the RGG-box RNA binding domain, can efficiently regulate HIV-1 splicing and replication. *Biochim Biophys Acta*. 2014;1839(4):251-8.
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18. Liu H, Lu M, Guthrie KM. Anterograde trafficking of neurotrophin-3 in the adult olfactory system in vivo. *Exp Neurol*. 2013 Mar;241:125-37.
19. Kaur R, Yuan X, Lu ML, Balk SP. Increased PAK6 expression in prostate cancer and identification of PAK6 associated proteins. *Prostate*. 2008 Oct 1;68(14):1510-6.
20. Wang H, Leav I, Ibaragi S, Wegner M, Hu GF, Lu ML, Balk SP, Yuan X. SOX9 is expressed in human fetal prostate epithelium and enhances prostate cancer invasion. *Cancer Res*. 2008 Mar 15;68(6):1625-30.
21. Wang H, McKnight NC, Zhang T, Lu ML, Balk SP, Yuan X. SOX9 is expressed in normal prostate basal cells and regulates androgen receptor expression in prostate cancer cells. *Cancer Res*. 2007 Jan 15;67(2):528-36.
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24. Freeman MR, Cinar B, Lu ML. Membrane rafts as potential sites of nongenomic hormonal signaling in prostate cancer. *Trends Endocrinol Metab*. 2005 Aug;16(6):273-9.
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- reduces atherosclerosis in LDL receptor-deficient mice. *J Clin Invest.* 2003 Mar;111(6):897-906.
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 35. Yuan X, Lu ML, Li T, Balk SP. SRY interacts with and negatively regulates androgen receptor transcriptional activity. *J Biol Chem.* 2001 Dec 7;276(49):46647-54.
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 37. Zheng Y, Richie JP, Lu ML. Geldanamycin downregulates androgen receptor-mediated transcriptional activation in human prostate cancer cells. *Surgical Forum.* 2000; 51:620-22.
 38. Zhang X, Richie JP, Lu ML. Downregulation of Androgen Receptor Transactivation Activity by Cholesterol Synthesis Inhibitor Lovastatin in Prostate Cancer Cells. *Surgical Forum.* 1999; 50:698-10.
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 40. Gattas N, Richie JP, Lu ML. Overexpression of a new candidate tumor suppressor PTEN gene causes decreased cell growth rate and tumorigenicity in human prostate carcinoma cells. *Surgical Forum.* 1998; 49:671-3.
 41. He B, Richie JP, Lu ML. Activation of a novel ser/thr kinase MST-1 in β -lapachone induced apoptosis in prostate carcinoma cell via intracellular ceramide accumulation. *Surgical Forum.* 1997; 48:574-6.

42. Lu ML, Sato M, Cao B, Richie JP. UV irradiation-induced apoptosis leads to activation of a 36-kDa myelin basic protein kinase in HL-60 cells. *Proc Natl Acad Sci U S A*. 1996 Aug 20;93(17):8977-82.
43. Sato M, Richie JP, Lu ML. Activation of a novel ser/thr protein kinase in TNF induced apoptosis of human prostatic carcinoma LNCap cells. *Surgical Forum*. 1995; 46:778-80.
44. Goldstein DS, Lu ML, Hattori T, Ratliff TL, Loughlin KR, Kavoussi LR. Inhibition of peritoneal tumor-cell implantation: model for laparoscopic cancer surgery. *J Endourol*. 1993 Jun;7(3):237-41.
45. Lu ML, McCarron RJ, Jacobson BS. Initiation of HeLa cell adhesion to collagen is dependent upon collagen receptor upregulation, segregation to the basal plasma membrane, clustering and binding to the cytoskeleton. *J Cell Sci*. 1992 Apr;101 (Pt 4):873-83.
46. Ho GT, Lu ML. The effect of fibroblast growth factor antagonists on growth of benign prostate hyperplasia in transgenic mice. *Surgical Forum*. 1992; 43:736-8.
47. Davis S, Lu ML, Lo SH, Lin S, Butler JA, Druker BJ, Roberts TM, An Q, Chen LB. Presence of an SH2 domain in the actin-binding protein tensin. *Science*. 1991 May 3;252(5006):712-5.
48. Mafune K, Wong JM, Staniunas RJ, Lu ML, Ravikumar TS, Chen LB, Steele GD Jr. Ubiquitin hybrid protein gene expression during human colon cancer progression. *Arch Surg*. 1991 Apr;126(4):462-6.
49. Staniunas RJ, Mafune K, Lu ML, Chen L, Steele GD. Increased expression of ribosomal protein S6 in colon cancer: a marker of tumor cell proliferation. *Surgical Forum*. 1990; 41:457-9.
50. Lu ML, Beacham DA, Jacobson BS. The identification and characterization of collagen receptors involved in HeLa cell-substratum adhesion. *J Biol Chem*. 1989 Aug 15;264(23):13546-58.
51. Mason PW, Lu ML, Jacobson BS. Cell substrate adhesion-induced redistribution of proteins among the apical, basal, and internal domains of the plasma membrane of HeLa cells spreading on gelatin. *J Biol Chem*. 1987 Mar 15;262(8):3746-53.
52. Lee SC, Chang FS, Lu ML. Purification and properties of lymphotoxins derived from human B lymphocytes. *Proc Natl Sci Council, ROC*. 1983; 7:734-8.

FUNDED GRANT AWARDS:**Funded Grant Awards:****Research Grant Awards:**

Years	Funding Source	PI/Co-PI	Grant Title
2025-2026	Florida Dept. of Health	PI	Targeting actin-microtubule network to enhance Taxane efficacy in advanced prostate cancer
2019-2020	Florida Dept. of Health	PI	Centrosomal signaling in advanced prostate cancer
2010-2013	NIH/NCI (R15)	PI	Hormone regulated prostate cancer metastasis
2008-2011	Department of Defense (Idea Development Award)	PI	PAK6 Activation in Advanced Prostate Cancer
2008-2009	Florida Department of Health	PI	Kinases in advanced prostate cancer
2002-2007	NIH/NCI (R01)	PI	Molecular regulation of androgen receptor activation
2002-2005	Department of Defense (Idea Development Award)	PI	Caveolin-1 modulates androgen receptor signaling in advanced prostate cancer
2001-2003	Mass. Dept. of Public Health	PI	Novel signal pathway in advanced prostate cancer
2002-2003	Hershey Family Foundation	PI	Hormone-dependent Prostate Cancer Cell Motility
2001-2002	NIH/NIGMS	PI	Gene pathways of tumor cell motility

1997-2002	NIH/NIGMS (R29)	PI	Ste20p related kinases in ceramide-induced cell death

1992-1997	NIH/NIDDK (R01)	Co-PI	Transgenic mouse as BPH model

Funding from Commercial Sources:

2017-2019	Beijing Yujung Biotech	PI	Anti-tumor effects of formula HJ-88

Research Fellowship Awards:

1991-1992	Postdoctoral Fellowship National Research Service Award, NIH

1988-1990	Neuromuscular Disease Research Fellowship Muscular Dystrophy Association

ADDITIONAL GRANT SUBMISSIONS (Un-Funded):

2024	Nitrosative stress in Huntington's disease National Institute of Health (1R21 NS133606-01A1) Project Role: Co-PI (PI; Dr. Jianning Wei)
2024	Targeting actin-microtubule network to enhance taxane efficacy in advanced prostate cancer Department of Defense Concept Award (PC240116) Project Role: PI
2023	Nitrosative stress in Huntington's disease National Institute of Health (1R21 NS133606-01) Project Role: Co-PI (PI; Dr. Jianning Wei)
2023	Targeting HIPPO pathway in Prostate Cancer Frank-invasion and/or Oligo-metastasis Progression Department of Defense Concept Award (PC230074)

- Project Role: PI
- 2023 Inhibition of late-stage breast cancer by combining a two-pronged treatment strategy using gut support and repurposed veterinary drugs, benzimidazole.
- FDOH Bankhead Coley Cancer Research Program
- 2022 Project Role: Co-PI (PI, Ceylan Isgor
Nitrosative Stress in Huntington's Disease
National Institute of Health (1R01NS127859-01)
Project Role: Co-PI (PI; Dr. Jianning Wei)
- 2021 Centrosome Signaling in Advanced Prostate Cancer
National Cancer Institute, NIH/NCI (1R15 CA267867-01)
Project Role: PI
- 2021 Engineering a biomimetic bone tissue in a perfusion chamber to model the dynamic microenvironment of prostate cancer bone metastasis
National Institute of Health (R15)
Project Role: Co-PI (PI, Yunqing Kang)
- 2021 Engineering a biomimetic bone tissue in a perfusion chamber to model the dynamic microenvironment of prostate cancer bone metastasis
National Institute of Health (R15)
Project Role: Co-PI (PI, Yunqing Kang)
- 2021 Amyloid-beta and altered neuroinflammation.
FDOH Ed & Ethel Moore Alzheimer's Disease Research Program
Project Role: Co-PI (PI: Rui Tao)
- 2020 The Proteostasis-Ciliogenesis Connection in Neuronal Physiology and Pathology
Human Frontier Science Program International

Project Role: Multi-PI (Additional PIs: Drs. Elis Greggio, Enrico Capobianco)

- 2017 PAK6 in Prostate Cancer
National Cancer Institute, NIH/NCI (R03 ; 1R03CA212820-01A)
Project Role: PI
- 2016 PAK6 in Prostate Cancer Progression
National Cancer Institute, NIH/NCI (R21; 1R21CA205740-01A)
Project Role: PI
- 2016 PAK6 in Prostate Cancer
National Cancer Institute, NIH/NCI (R03 ; 1R03CA212820-01)
Project Role: PI
- 2015 PAK6 in Prostate Cancer Progression
National Cancer Institute, NIH/NCI (R21; 1R21CA205740-01)
Project Role: PI
- 2009 Aneuploidy in Breast Cancer Progression.
Department of defense BCRP-Concept Award (BC091089)
Project Role: PI

Internal Award (Funded):

- 2014 Development of an ex vivo human esophageal cancer model for testing drug-eluting stents
FAU Faculty Research Mentoring Program Award
Project Role: Mentor
(Mentee Dr. Yunqing Kang, College of Science Dept. Engineer)

2021 Engineering of Bone Tissue in a Chamber for Prostate Cancer Bone Metastasis model

FAU: ISENSE

Project Role: Co-PI (PI: Dr. Yunqing Kang)

TEACHING - COURSES TAUGHT AT FAU:

2008-2009 TOPICS IN BIOMEDICAL SCIENCE, Course director, group taught
Lecturer, Dept. of Biomedical Science (Graduate course).

2008-2025 FOUNDATIONS OF BIOMEDICAL SCIENCE 2, Faculty
Instructor/Facilitator, Year 1 Medical class (fall), Problem-Based
learning course, FAU College of Medicine

2008-2013, FOUNDATIONS OF BIOMEDICAL SCIENCE 1 LECTURE, Basic Cell
Structure, Function and Growth Control lecturer (FBS unit 1, 5
lectures/session), Year 1 medical class, lecture course (Fall). FAU
College of Medicine

2014-2025 FOUNDATIONS OF BIOMEDICAL SCIENCE 1 LECTURE, Cell biology,
cell cycle and carcinogenesis1Faculty lecturer (FBS unit 1, 4
lectures/session), Year 1 medical class, (Fall). FAU College of
Medicine

2009-2025 MOLECULAR MECHANISM OF HUMAN CANCER (PCB 6235), 3
credits, Graduate course. Cross listed started 2018 to enroll
undergraduates

2014-2021	ICA 1, Year 1 medical student Core Competency Exams, Faculty Competency Evaluator, FAU College of Medicine (Spring)
2014-2019	NEUROSCIENCE AND BEHAVIOR, Faculty Instructor/Facilitator, Problem-based learning course, Year 1 medical students (Spring) FAU College of Medicine
2017-2018	FUNDAMENTAL TOPICS OF HUMAN HEALTH (GMS6841) Group taught course with multiple lectures, Biomedical Graduate program
2019-2023	BIOMEDICAL CONCEPTS AND TRANSLATIONAL APPLICATIONS (GMS6841). Group taught course with multiple lectures, Biomedical Graduate program
2019-2025	PATHOPHYSIOLOGY AND THERAPEUTICS 1 (PT1), Faculty Instructor-Facilitator, Problem-Based learning course, Year 1 Medical class (Spring) College of Medicine
2022-2025	PATHOPHYSIOLOGY AND THERAPEUTICS 4 (PT4), Faculty Instructor-Facilitator, Problem-Based learning course, Year 2 Medical class (Spring) College of Medicine
2023-2025	MOLECULAR MECHANISM OF AGING AND AGE-RELATED DISEASES (PCB6817) 3 credits, Graduate course. Cross listed to enroll undergraduates

SUPERVISION OF GRADUATE STUDENTS:

Ph.D. Students

2018-2023	PhD Dissertation, Co-Adviser and Committee Co-Chair, Jordan Brenner, Department of Biomedical Engineering, FAU

Dissertation Title: Development of A New Model of Esophageal Cancers Using a Detergent-Free Decellularized Matrix in a Perfusion Bioreactor.

2024- PhD Dissertation, Adviser and Committee Chair, **Felipe Carvalho**, Integrative Biology, FAU
Title: Targeting Actin-Microtubule Network Integrity to Enhance Taxane Cytotoxic Efficacy in Advanced Prostate Cancer

M.S. Students

2009-2012 Master Thesis, Adviser and Committee Chair, **Joann Roberts**, Department of Biomedical Science, FAU
Thesis Title: An Investigation of the Role of P21 Activated Protein Kinase in Tumorigenesis

2010-2013 Master Thesis, Adviser and Committee Chair, **Ciny John**, Department of Biomedical Science, FAU
Thesis Title: Deterining the Subcellular Localization of a GroupII P21 - Activated kinase 6

2024- present Master Thesis, Advisor and Committee Chair, **Joubin Jebelli**, Department of Biomedical Science, FAU
Thesis Title: Targeting Aneupolidy in Advance Prostate Cancer

Member of Graduate Student Dissertation Committees for the following Students

2025-Present PhD student, **Ian Gaudet**, Department of Engineering

2021-Present PhD Student, **Elena Bisotto**, Integrative Biology, Department of Biology

2018-2019 PhD student, **Bingwei Xu**, Integrative Biology, Department of Biology, (transferred)

2016-2020 PhD student, **Ramon Garcia**, Integrative Biology, Department of Biology

2016-2021 PhD student, **Sean Paz**, Integrative Biology, Department of Biology

2015-2020 PhD student, **Hersh Chitin**, Department of Biomedical Engineering and Department of Ocean and Mechanical Engineering

2014-2020 PhD student, **Sulochan Malla**, Integrative Biology, Department of Biology

2012-2017 PhDstudent, **Ravi Kumar**, ntegrative Biology, Department of Biology

2012-2013 PhD student, **Ciny John**, Integrative Biology, Department of Biology, (transferred)

2012-2018 PhD student, **Haiying Zou**, Integrative Biology, Department of Biology

2009-2012 PhD student, **Huan Liu**, Integrative Biology, Department of Biology

2007-2008 PhD student, **Channana Buddhala**, Integrative Biology, Department of Biology, (transferred)

Member of Graduate Student Thesis Committee and Independent Study (DIS) for the following Students

2022-2024	MS student, Felipe Carvalho , Biomedical Science, Department of Biomedical science
2019-2021	MS student, Sajewannie Wijetunga , Biomedical Science, Department of Biomedical science
2018-2020	MS student, Paola Gonelaze , Biomedical Science, Department of Biomedical science
2019-2021	MS student, Ahjane Jones , Biomedical Science, Department of Biomedical science
2018-2020	MS student, Michael Arget , Biomedical Science, Department of Biomedical science
2017-2019	MS student, Anatasia Ritchie , Biomedical Science, Department of Biomedical science
2017-2019	MS student, Harris Goldman , Biomedical Science, Department of Biomedical science
2016-2017	MS student, Miti Dorzeus , Biomedical Science, Department of Biomedical science

Supervision for Medical Student Summer Research Lab Rotation

2021 (Summer)	Medical Student yr1, Joshua Tang , Charles E. Schmidt College of Medicine
2017 (Summer)	Medical Student yr1, John Mallow , Charles E. Schmidt College of Medicine
2017 (Summer)	Medical Student yr1, Micahel Perttunen , Charles E. Schmidt College of Medicine
2016 (Summer)	Medical Student yr1, Daniel Kushner , Charles E. Schmidt College of Medicine
2016 (Summer)	Medical Student yr1, Travis Altman , Charles E. Schmidt College of Medicine
2016 (Summer)	Medical Student yr1, Naveen Maliakkai , Charles E. Schmidt College of Medicine
2015 (Summer)	Medical Student yr1, Deborah Soong , Charles E. Schmidt College of Medicine
2010-2012	Medical Student yr1-2, Barry Paul , Charles E. Schmidt College of Medicine

Supervision of Undergraduate Independent Research

2025- 2019-2020	Tanvi Dessi (Honor thesis: Cytoskeleton as Anti-Cancer Drug Target) Yilan Liu

2018-2019	Marintha Karadakis
2016-2017	Natasha Noguera
2016-2017	Nathaly Gallego
2014-2015	Edward Kempf
2014-2015	Sahnnon Hedmen
2013-2014	Christpher Schillen
2009-2011	Tyson Schwartz

SERVICE AND PROFESSIONAL DEVELOPMENT:

Profesional Memberships:

2013-	Member, Society of Neuroscience
2001-	Member, American Association for Cancer Research
2001-	Member, Society of Basic Urologic Research
1990-	Member, American Society of Cell Biology
1988-	Member, American Association for the Advancement of Science

Study Section/Review Committee Assignments:

2002-2019	Scientific Review Panelist Cancer Endocrine Study Section Cancer Cell Biology Study Section Prostate Cancer Program Department of Defense
2003-2008	Scientific Review Panelist Cancer Biology Study Section Breast Cancer Program Department of Defense
2002-2005	Scientific Review Panelist Specialist of Cancer Molecular Endocrinology CRS, Reproductive Endocrinology Study Section National Institutes of Health

Editorial board & manuscript reviews:

2018-	Member, Editorial Board. Frontiers in Medicine
2014-	Ad Hoc Reviewer: PlosOne, J. Cell Science, J. Biol. Chem, Scitific Reports,

Department Service:

2007-2009	Biomedical Science Graduate Study Committee; Chair
2007	Biomedical Science P&T committee, member
2008-2010	Biomedical Science Research Committee, Member
2011-2013	Biomedical Science Research Committee, Chair
2012-2014	Ad hoc Committee Department P&T Criteria Revision, Member
2015-2023	Biomedical Science Graduate Study Committee, Member
2016	Biomedical Science P&T committee, member
2017-2019	Biomedical Science Research Committee, Chair
2018-19	Biomedical Science Sustained Performance Evaluation Committee, Chair
2018	Biomedical Science P&T committee, member
2019	Biomedical Science RCR Training Workshop, Section Member
2019-2022	Biomedical Science Research Committee, Member

College Service:

2007-2008	College P&T Committee, Member
2007-2009	College Bridge Funds Committee, Member
2009-2010	Medical Student Sub-committee LCME Committee, Member
2010-2011	COM M1 Curriculum Committee, Member
2011-2013	College Research Committee, Chair
2010-2011	COM Peer Review Committee, Member
2013	COM Commencement Marshall
2015-12016	COM Diversity Engagement Committee. Member
2017-2018	COM Faculty Task Force, Member
2017-2019	COM Research Committee, Chair
2018	Commecement, Reader
2021-24	COM Research Scholarship Committee, Member
2019-2022	COM Research Committee, Member
2023	COM Commencement, Marshall

University Service:

2009-2010	University Planning Committee (Traffic and Parking), Member
2010-2012	University IRB (Human Protocol), Member
2011-2013	University Research Committee, Member
2013-2017	FAU Graduate Research Symposium, Poster Judge
2024-present	Faculty Senate

Professional Development:

- 2018 Attended a two-day workshop for COM faculty on workplace culture and efficiency in Fall 2018, entitled “Team First, building our future together”, presented by the firm Senn Delany.
- 2017 Online workshop, Broad Institute, MIT (Oct 26-27, 2017) “Cellular Lineage in Mouse and Human Cancer”. Overview of the Cancer Cell Types Database (open source). Gained experience in accessing and using Cellprofiler’s open source cancer databases. The workshop provided hands-on training for computer navigation of the Cell/Cancer Types Database for accessing proteomic and transcriptome data, along with linked mouse models and clinical data collection.

AWARDS AND HONORS:

2022	Outstanding Lecturer Award Charles E. Schmidt Cooleof Medicine, FAU
2012	Excellence in Graduate Mentoring Charles E. Schmidt Cooleof Medicine, FAU
2002	Hershey Fellow for Prostate Cancer Research, Hershey Family Foundation
1997-2002	First Award, NIH
1991-1992	National Research Service Award, NIH
1989-1990	Neuromuscular Disease Research Fellowship
1974-1979	Dr. Sun Yat-Sen Scholarship Award, Taiwan, R.O.C.
1973	National Award for Outstanding Youth, Taiwan, R.O.C. Muscular Dystrophy Association

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Boca Raton Regional Hospital-Florida Atlantic University College of Medicine*

Education

Fellowship	University of Texas Pain Center Pain Medicine; Houston, Texas	Houston, TX Mar 1988 - Sep 1988
	Prince of Henry Hospital Cardiovascular Anesthesia	Sydney, Australia Aug 1987 - Mar 1988
Residency	University of Texas Texas Heart Institute/MD Anderson/Texas Children/Hermann Hospital Chief Resident	Houston, TX Aug 1985 – Jul 1987 Aug 1986 – Jul 1988
Internship	Charity Hospital (Tulane) Transitional	New Orleans, LA Jul 1984 – Jun 1985
MD	Tulane University School of Medicine	New Orleans, LA Aug 1980 - May 1984
Undergraduate	Tulane University Bachelor of Science: Biology	New Orleans, LA Aug 1976 - May 1980

Board Certification

American Board of Anesthesiology	1988
Hospice and Palliative Medicine	2008; recert- 2019

Hospital Appointments

Boca Raton Community Hospital	1999 – present

Medical Licensure

Florida, ME54460	Oct 1988 – Jun 2027

Professional Experience

ASA Alternate Delegate: Florida Society of Anesthesiologists <i>Elected to represent anesthesiologists</i> <i>Contribute to advocacy, education, and clinical policy development</i>	2025 – present
Associate Professor of Anesthesiology Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL	2023 – present
Associate Program Director Hospice/Palliative Care Fellowship Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL	2019 – present
Associate Director of M3 Clerkship Longitudinal Anesthesia / Critical Care Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL	2012 – present
Director of Professional Education Simulation Center Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL	2008 – present
Hospice by the Sea / Trustbridge Associate Hospice Medical Director Boca Raton, FL	2001 – present
Scare Resource Task Force: “Content” Expert/Boca Regional Hospital <i>Served as a content expert on the Scare Resource Allocation Task Force during COVID-19 pandemic, providing ethical guidance on triage protocols, crisis standards of care and ventilator allocation.</i>	2020 – 2021
Associate Professor Integrated Medical Science Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL	2008 – 2018
Chief, Palliative Care <i>Developed the first inpatient Palliative Care Program,</i> <i>Creating an interprofessional model of care in collaboration with a</i> <i>social worker and nurse. Led the development of clinical guidelines,</i> <i>workflows, and service delivery processes to support patients with serious illnesses</i>	2004 – 2009 2011 – 2014 2019 – 2023

Medical Director, Pain Clinic 2000 – 2008
Developed the first Comprehensive Pain Clinic serving both inpatient and outpatient populations. Established protocols, oversaw clinical operations, an integrated multidisciplinary approach to managing complex pain conditions.

Department of Anesthesia 1989 – 2008
 Boca Raton Regional Hospital
 Boca Raton, FL

Assistant Professor, Department of Anesthesia 1988 – 1989
 Hermann Hospital
 University of Texas
 Houston, TX

Awards and Recognition

Professional Awards:

Michael L. Friedland Education Leadership Award	2024 – 2025
FAU College of Medicine: Outstanding Mentor	2024
Editor's Choice, The Gerontologist for "Advance Directives Revisited (2002 vs 2023): Are We Closer to Uniformity?"	Oct 2024
Gold Humanism Honor Society Inductee – Student and Faculty nominated	2023
FAU College of Medicine: Outstanding Mentor Award	2022
FAU College of Medicine: Outstanding IQ Facilitator	2021
Winning the Ventilator Lottery: AMA-Tied for first place –over 1000 submissions	2021
FAU College of Medicine: Outstanding Lab, SIM, or Thread Director	2020
Palm Beach County Medical Society: Health Care Educator Hero Nominee	2020
2 nd Place, FAU GPSA Research Day – Arts, Education, and Social Sciences Division	2020
Florida Pain Task Force Member	2018
Rotary Club: Honor Your Doctor	2014
Boca Raton Hospital Ball: Physician Honoree	2014
Dwight W. Warren Award for Excellence in Teaching	2012
Teaching in Excellence Award	2012
AAHPM: Fellow of the Academy	2011
America's Top Physician	2003
Television Consultant – ABC 20/20 Pain Management Special	2003
Listed in America's Top Doctors	2001
Listed in Best Doctors South Florida	1988

Teaching Excellence and Student Recognition:

Consistently rated $\geq 4.5/5.0$ on student evaluations across multiple pre-clinical and clinical courses

Selected student comments:

"Dr. Luck is fantastic. He's the model of what physicians should be like – compassionate, knowledgeable, and committed to shaping the next generation."

"He challenges our thinking without intimidating us...I cannot wait to mature my way of thinking in future sessions."

Grants

Integrating AI into Medical Education

Sponsor: AMA ChangeMedEd 2025 Bright Ideas Showcase

Funding \$20,000 Pending- Submission (June 2025)

Co-Investigators: Michele Retrouvey, MD; Luck G, MD; Jennifer Caceres, MD

Barriers to Accessing Medical Marijuana Among Clinicians and Patients in Florida Nursing Homes

Sponsor: Consortium for Medical Marijuana Outcomes Research

Funding: \$75,000 July 2021 – June 2022

Co-Investigators: Ximena Levy, MD-MPH (CIP); Luck G, MD; Kathy Freeman, DrPH;

Bernardo Reyes, MD; Melanie Bone, MD

DCF SAMH Opioid Grant: Opioid Use Disorder (OUD) Training for UME, GME, and Faculty

Sponsor: Florida Department of Children and Families, Substance Abuse and Mental Health Program

Funding: \$250,000 (2019 – 2020)

Co-PIs: Luck G, MD; Prakash N

Co-Investigators: Ferris AH, Howard H, Morales A, Jacomino M

Opening and Sustaining Loving, Caring Conversations for Advance Care Planning for Patients/Families with Alzheimer's

Sponsor: Ed and Ethel Moore Alzheimer's Disease Research Program

Funding: \$100,000 (2021-2022)

PI: Luck G, MD

Service

Medical School and University

Chair, Faculty Assembly Executive Committee

2024 – present

Lead faculty governance meetings and guide strategic dialogue with administration.

National Academy of Medicine- Collaborative to Combat Substance Use

2024 – present

Selected as core faculty to represent FAU-COM on an interprofessional team recognized for advancing best practices in substance use disorder education.

Promotion and Tenure Committee, Member

2024 – present

Participate in faculty review and advancement processes.

Library Resource Committee, Member

2024 – present

Advise on educational and clinical resources supporting students, faculty, and curriculum needs.

Continuing Medical Education (CME) Committee, Member

2024 – present

Support faculty development and continuing education efforts.

Committee on Appointments and Promotions (CAP), Member <i>Contribute to evaluation of candidates for appointment and promotion.</i>	2022 – present
Feedback Coach, FAU COM <i>Support third-year students during clinical rotations with guidance in core clinical skills and professional development.</i>	2018 – present
Judge, FAU Research Day <i>Evaluate student and resident scholarly presentations across clinical and educational domains.</i>	2018 – present
Curriculum Integration and Program Evaluation Committee (CIPEC) <i>Align curriculum with LCME standards and assess program effectiveness.</i>	2015 – present
College of Medicine Curriculum Committee, Member <i>Shape longitudinal curriculum across all four years of UME.</i>	2010 – present
Member, Grading Committees	2010 – present
Interviewer, BSMD Program Admissions	2023 – 2024
Judge Florida Medical Association	2022
Judge Graduate Research Day	2021
Mentor, Department of Engineering, FAU <i>Guided undergraduate students on a summer research project integrating simulation and healthcare technology.</i>	2020
Founder and Faculty Advisor, Substance Use Disorder (SUD) Advisory Council <i>Mentored student-led initiatives on curriculum feedback, research, and QI related to pain and substance use education.</i>	2019
Faculty Search Committees, Member <i>Contributed to selection of academic hospitalists, simulation faculty, and associate deans.</i>	2015 – 2025
Learning Community Advisor (LCA), FAU College of Medicine <i>Provided longitudinal mentorship and professional development to medical students.</i>	2015 – 2018
Advisor, Clinical Practice Organization FAU College of Medicine <i>Provided strategic guidance on clinical operations and faculty practice development</i>	2013
Admissions Committee <i>Engage in holistic admissions review and applicant interviews.</i>	Member: 2010 – 2023 Vice Chair: 2016

Professional

ASA Alternate Delegate: Florida Society of Anesthesiologists (FSA) 2025 – present
Represent regional anesthesiologists on the FSA Board; contribute to advocacy, education, and clinical policy development

Associate Director, Hospice and Palliative Medicine Fellowship Program 2019 – present
Contribute to graduate medical education leadership, curriculum development, and mentorship in palliative care at a regional referral center

Founder, Community Case Collaboration Initiative 2018 – present
Created a program linking community physicians with medical students and residents to co-author case reports and abstracts. The initiative supports 3–5 peer-reviewed publications or national/international presentations annually, fostering academic engagement and scholarly output beyond traditional faculty channels.

Community Site Liaison for Anesthesiology, ICU and Palliative Care 2012 – present
Collaborate with affiliated hospitals and physicians to support student placements, mentoring, and research.

Director of Professional Education, FAU Clinical Skills Simulation Center 2010 – present
Lead simulation-based education initiatives, faculty development, and curricular integration across all four years of medical education and interprofessional programs.

Curriculum Developer, Simulation-Based Safety Training (Ongoing) 2010 – present
Designed all UGME and GME simulations with an intentional focus on the hidden curriculum of patient safety, reinforced through debriefings. This work promotes a culture of safety and accountability, contributing to national efforts to improve patient care.

Simulation-Based Safety Training Leader 2025
Developed interdisciplinary safety simulations to train residents on hospital room hazards and improve patient safety awareness.

Consultant, CAE Healthcare; International 2023
Invited to Montreal to consult with CAE Healthcare, a global leader in medical simulation, advising engineers and executive leadership on the development of next-generation high-fidelity mannequins.

Content Expert, Scarce Resource Allocation Task Force 2020 – 2021
Invited to consult during the COVID-19 pandemic on hospital policy for ethical allocation of limited medical resources. Provided expertise in palliative care, triage ethics, and crisis standards of care. Boca Regional Hospital

Medical Director, Inpatient Palliative Care Program, 2019 – 2023
Boca Raton Regional Hospital 2010 – 2013
Oversaw program development, quality improvement initiatives, and education for physicians, residents, and hospital staff in serious illness communication and end-of-life care.

Member, Medical Executive Committee 2019 – 2023
Boca Raton Regional Hospital 2010 – 2013

Participated in hospital leadership and governance, contributing to policy development, credentialing, and quality improvement initiatives that impact clinical operations and patient care.

Member, Florida Pain Task Force 2018 – 2020

Participated in statewide efforts to improve pain management practices and policy. Contributed clinical expertise in anesthesia and palliative care to guide recommendations on opioid prescribing, education, and regulatory frameworks.

Board Member, International Center for Crisis Management, 2017 – 2018
Command and Disaster Simulation Center

Invited to serve on the Board of Advisors, contributing expertise in simulation-based training and crisis response planning to advance interdisciplinary disaster management education and preparedness

Member, Boca Raton Regional Hospital Ethics Committee 2010 – 2015

Participated in ethics consultations and case reviews, 2001 – 2008
Contributing to policy development and ethical guidance on complex clinical decision-making and end-of-life care.

Community

Founder and President, Serving Those Who Served (Nonprofit) 2024 – present

Organize annual Thanksgiving meal distribution to underserved veterans and military families in South Florida.

Public Education Advocate, Harm Reduction and Narcan Training 2022-Present

Partner with local health organizations to deliver opioid response training to students and community members.

Stop the Bleed Program Lead and Instructor 2016 – present

Trained medical students (>500) to become certified Stop the Bleed instructors and serve as liaisons to the community. Integrated hemorrhage control training into the medical curriculum and expanded outreach to over 200 community members.

Interprofessional Planning Team Leader Stop the Bleed 2022

National Campus Safety Month

Collaborated with the FAU Department of Emergency Management to deliver certified Stop the Bleed training to faculty and students across three campuses.

Interprofessional Planning Team Leader, Stop the Bleed 2022

Community High School Staff

Provided certified Stop the Bleed training to over 100 faculty and staff at a local high school to improve community emergency preparedness.

**Interprofessional Planning Team Leader, National Healthcare Decisions Day
“Compassionate Conversations”**

2019

Helped lead FAU’s first interprofessional advance care planning event, engaging over 40 community stakeholders. Organized campus-wide outreach booths to promote dialogue and encourage completion of advance directives.

Published Works

Articles:

1. Knopf E, Leidy L, Peters D, **Luck G**, Jacomino M. Social Media Policies in U.S. Medical Education: An Analysis on Content, Consistency, and Gaps. Manuscript Submitted.
2. Knopf E, Corrada G, Mohamed A, **Luck G**, Perumareddi P. The Artificial Intelligence Revolution in Medical School: Exploring Perceptions and Experiences in the Early Years of Medical School. Manuscript Submitted.
3. Knopf E, Leidy L, Mohamed A, Perumareddi P, Luck G. Bridging the AI Policy Gap in Medical Education: Assessing the Lack of Standardized Guidelines in U.S. Medical Schools. Manuscript Submitted.
4. Pellagra in Complex Clinical Settings: A Case Involving Bariatric Surgery, Whipple Procedure, and Alcohol Use Disorder. Kathryn Lotharius, MS3, Gabrielle Gerguson, MS3, Sebastian Camargo, PGY1, **George Luck MD**, Parvathi Perumareddi, DO. 2025 Submitted
5. Sohmer, J.S., Fridman, S., Peters, D., Jacomino, M., **Luck, G**. Winning the Lottery: A Simulation Study Comparing Scarce Resource Allocation Protocols in Crisis Scenarios. Cureus. 2025;17(1):e76977. doi:10.7759/cureus.76977.
6. **Luck, G.R.**, Bautista, A., Peters, D., Attonito, J., Fridman, S., Sohmer, J., Jacomino, M. Advance Directives Revisited (2002 vs 2023): Are We Closer to Uniformity? The Gerontologist. 2024;64(10):gnae103. doi:10.1093/geront/gnae103. (**Editor’s Choice** – October 2024)
7. **Luck, G.**, Eggenberger, T.L., Bautista, A., Peters, D., Mellman, R.T., Keller, K.B., Jacomino, M. Fearing Pain at the End of Life: A Review of Advance Directives. American Journal of Hospice and Palliative Medicine. 2024;41(7):824-830. doi:10.1177/10499091231190063
8. Bautista, A., Jacomino, M., Peters, D., Fridman, S., **Luck, G**. Rest in Peace or in Pieces: Post-Mortem Care Options in U.S. Advance Directives. Journal of Applied Gerontology. 2024. Advance online publication. doi:10.1177/07334648241282817.
9. Attonito, J., Freeman, K., Bone, M.K., Howard, H., Blum, C., **Luck, G**. Knowledge, Attitudes, and Beliefs Regarding Medical Cannabis Among Patients and Providers in Florida’s Long-Term Care Facilities. Cureus. 2024 Aug 4;16(8).

10. Lee, J.E., Murchison, K., Hassanein, L., Peters, D., Jacomino, M., **Luck, G.** Trends in HIV-Related Services Offered by Substance Abuse Treatment Facilities. *Cureus*. 2024;16(4):e57400. doi:10.7759/cureus.57400. PMID: 38694649.
11. Suragarn, U., **Luck, G.R.**, Goldstein, M., Jacomino, M., Pfaff, G. Simulation-Based Training for Interprofessional and Patient-Centered Communication Skills: A Community-Based Approach for Nursing and Medical Students. *Health Workforce Education Journal*. 2023;1(1):23-35. <https://he02.tci-thaijo.org/index.php/hwejournal/article/view/253548>
12. Ardeljan, A.D., Fiedler, B., Fiedler, L., **Luck, G.R.**, Maki, D.G., Clayton, L., Hennekens, C.H., Ferris, A. Naloxone Over the Counter: Increasing Opportunities and Challenges for Health Providers. *American Journal of Medicine*. 2023 Jun;136(6):504-506. doi:10.1016/j.amjmed.2023.01.027. Epub 2023 Feb 5. PMID: 36750143.
13. Sial, N.K., Jacomino, M., Miskin, H., Freeman, K., Blum, T., Blum, C., Whiteman, A., Root, K., Kosches, A., **Luck, G.** The Impact of COVID-19 on Completion of Advance Directives in Healthcare Workers in the United States. *Journal of Medical Practice Management*. Jan-Feb 2022. <https://www.researchgate.net/publication/361563012>
14. Marsh, A.M., Winslow, W., Cohen, J., Yi, S., Jacomino, M., **Luck, G.R.**, Moreland, R., Lottenberg, L. Student Perspectives on Implementing Stop the Bleed Training into Medical School Curriculum. *American Surgeon*. 2022 Apr;88(4):633-637. doi:10.1177/00031348211050829. Epub 2021 Nov 11. PMID: 34761688.
15. Attonito, J., Van Arsdale, W., Fishman, K., Darya, M., Jacomino, M., **Luck, G.** Sociodemographic Disparities in Access to COVID-19 Vaccines Upon Initial Rollout in Florida. *Health Affairs (Millwood)*. 2021 Dec;40(12):1883-1891. doi:10.1377/hlthaff.2021.01055. PMID: 34871075.
16. Garcia, J., Ohanian, L., Sidley, A., Ferris, A., **Luck, G.**, Basich, G., Garcia, A. Resident Knowledge and Perception of Pain Management. *Cureus*. 2019 Nov 8;11(11):e6107. doi:10.7759/cureus.6107. PMID: 31886047.
17. Kucharik, M., Gupta, A., Averkiou, P., **Luck, G.R.**, Ross, A.S. Complicated Postoperative Course Secondary to Kratom Withdrawal: A Case Report. *Journal of Surgical Case Reports*. 2019 Nov 5;2019(11):rjz309. doi:10.1093/jscr/rjz309. PMID: 31719971.
18. Fiedler, B., Fiedler, L., DeDonno, M.A., Anago, K., Cruz, L., **Luck, G.R.**, Hennekens, C.H. Lack of Reliability of Self-Reports by Patients with Advanced Colorectal Polyps. *Intestinal Research*. 2019 Apr;17(2):278-280. doi:10.5217/ir.2018.00144. Epub 2018 Dec 14. PMID: 30541225.
19. Fiedler, B., Fiedler, L., DeDonno, M., Anago, K., De la Cruz, L., **Luck, G.R.**, Hennekens, C.H. Underutilization of Aspirin in Patients with Advanced Colorectal

Polyps. American Journal of Medicine. 2019 Jul;132(7):884-885.
doi:10.1016/j.amjmed.2018.12.037. Epub 2019 Jan 24. PMID: 30684451.

20. Eggenberger, T., **Luck, G.R.**, Howard, H., Prescott, D.E. Advanced Directives and Family Practice: Implications and Ethics for “Greying” Family Systems and Interdisciplinary Collaboration. Journal of the American Academy of Matrimonial Lawyers. 2019;32(1):1–28. <https://www.aaml.org/wp-content/uploads/AdvancedDirectivesandFamilyPractice2.pdf> **(Lead Article)**
21. **Luck, G.R.**, Eggenberger, T., Newman, D., Cortizo, J., Blankenship, D.C., Hennekens, C.H. Advance Directives in Hospice Healthcare Providers: A Clinical Challenge. American Journal of Medicine. 2017 Nov;130(11):e487-e489.
doi:10.1016/j.amjmed.2017.07.019. Epub 2017 Aug 7. PMID: 28797645.

Book Chapters / Other

1. Co-author of the chapter **Adversity in End-of-Life Care**: in the upcoming book *Beyond Adversity: Global Perspectives on Family Dispute Processes for Peace and Justice 2025*
2. Hospice and Palliative Care Consultant, Local Newsletter
Answered community questions and provided expert content on hospice and palliative care 2023
3. **Pain Management and Opioid Stewardship Education for Florida Medical Schools Task Force and Contributor 2021**
4. **The Hospice Team – Who We Are, Why We Care**
2019– Chapter Contributor Chaim Wender – Patricia E Morrison

National Presentations

1. Knopf E, Leidy L, Mohamed AA, Perumareddi P, **Luck G.** *Medical School Policies for Artificial Intelligence Use in U.S. Medical Education* - Accepted presentation at Learn Serve Lead 2025: AAMC Annual Meeting held in San Antonio, TX, November - 2025.
2. Nathan Flothe, BS1, Milayna Kokoska, BS1, Seif Elbualy, M.D.2, **George Luck, M.D.** FAAHPM1 *Beyond the Endplate: Disc Herniation After BVN Ablation* American Society of Pain and Neuroscience July 2025
3. Balza A, Eggenberger T, Jacomino M, **Luck G.** Assessing interprofessional socialization through an interprofessional (IP) communication simulation. Presented at: International Meeting on Simulation in Healthcare (IMSH); January 10–14, 2025; Orlando, FL. (Poster)

4. Pavlovsky A, Tieppo Francio V, Florio J, Jivani G, **Luck G**. The impact of pre-operative transversus abdominis plane (TAP) block on post-operative pain and opioid consumption: a narrative review. Presented at: American Society of Anesthesiologists Annual Meeting; 2024; Henderson, NV. (Oral Presentation)
5. **Luck G**, Bautista A, Peters D, Attonito J, Fridman S, Sohmer J, Jacomino M. Advance directives revisited (2002 vs 2023): Are we closer to uniformity? Presented at: American Geriatrics Society (AGS) Annual Scientific Meeting; May 11, 2024. (Poster)
6. Sohmer J, Fridman S, Peters D, Bautista A, Jacomino M, **Luck G**. Advance directives revisited (2002 vs 2023): are we closer to uniformity? Presented at: JAG Conference; 2024; FAU & FIU Colleges of Medicine. (Poster)
7. Alwahabi S, Perrone C, Schmidt N, **Luck G**, Erney A. Ascending aorta atheroma discovered on TEE during CABG procedure – what now? Presented at: American Society of Anesthesiologists (ASA) Conference; 2024; San Francisco, CA. (Poster)
8. Handa I, Jaen L, Saffer R, **Luck G**. Detours in the OR: Navigating an Intraoperative Arterial Embolus During Pneumonectomy for Lung Cancer. American Society of Anesthesia National Conference; 2024. (Oral Presentation)
9. Attonito J, Freeman K, Levy X, **Luck G**. Acceptance of and Access to Medical Marijuana among Patients and Providers in Florida Residential Long-Term Care Facilities. Presented at: American Public Health Association Annual Meeting; 2022; Boston, MA.
10. Sial N, **Luck G**. Planning in a Pandemic: The Impact of COVID-19 on Completion of Advance Directives Among Healthcare Workers. Presented at: American Academy of Hospice and Palliative Medicine (AAHPM) Annual Meeting; February 9–12, 2022; Nashville, TN. (Poster)
11. Danan V, Godinez J, Fridman S, Kelly J, **Luck G**. Winning the Ventilator Lottery: A Comparison of Five Scarce Resource Allocation Protocols in the Midst of the COVID-19 Pandemic. Presented at: **AMA International Conference**; April 2021; Virtual.
(Tied for First Place among 1,000+ national submissions)
12. **Luck G**, Ferris A, Ohanian L, Garcia J, Sidley A, Basich G, Garcia A. Resident knowledge and perception of undergraduate medical school curriculum regarding pain management: does quantity = quality? Presented at: AAMC National Workshop to Advance Medical Education to Combat Opioid Misuse; 2020. (Poster)
13. Ferris A, **Luck G**, Wood S, Bautista A, Parra A. Taking charge at discharge when it comes to opioids. Presented at: AAMC National Workshop to Advance Medical Education to Combat Opioid Misuse; 2020. (Poster)

14. Adams, C.A., Pierce, B., Bautista, A., Kassner, S., Johnson, K., Witcher, R., Chistov, S., Jacomino, M., **Luck, G.** Advance Directives: Are There Too Many Options on the Menu? Presented at: Conference on Medical Student Education; January 31, 2020; Portland, OR. (Poster)
15. **Luck G**, Eggenberger T, Newman D, Cortizo J, Blankenship DC, Hennekens CH. Advance directives in hospice providers: a clinical challenge. Presented at: Annual Assembly Hospice & Palliative Care; March 2018; Boston, MA. (Poster)
16. David DW, **Luck G**, Eggenberger T, Newman D. Should states allow physician assisted suicide or euthanasia? A survey of hospice personnel. Presented at: Annual Assembly Hospice & Palliative Care; March 2018; Boston, MA. (Poster)
17. Keller KB, Eggenberger TL, Luck G, Goldman M. Interprofessional communication & collaboration: starting early! Presented at: International Conference of the Society for Simulation in Healthcare; January 23–27, 2010; Phoenix, AZ. (Poster)
18. Schwartz S, **Luck G**, Radice P, Kelly M, Kelly J, Babaev P, Jordan M. Refusal of Palliative Care Consultations: An Analysis of the Data. National Hospice and Palliative Care Organization Annual Meeting; April 2006; San Diego, CA. (Oral Presentation)
19. Luck G, Schwartz S, Radice P, Kelly M, Kelly J, Gill M, Perez C, Patel N. Do Not Resuscitate Orders and Hospital Deaths in a Community Hospital: The Influence of the Palliative Care Team. National Hospice and Palliative Care Organization Annual Meeting; April 2006; San Diego, CA. (Oral Presentation)
20. Radice P, **Luck G**, Schwartz S, Kelly M, Kelly J. Advance Directives in a Community Hospital Outpatient Setting: A Survey of Attitudes, Perceptions, and Behaviors. National Hospice and Palliative Care Organization Annual Meeting; April 2006; San Diego, CA. (Oral Presentation)
21. Kelly J, Schwartz S, Radice P, **Luck G**, Kelly M. Merging palliative care in critical care: the role of a critical care nurse liaison. Presented at: National Teaching Institute and Critical Care Exposition; May 2006; Anaheim, CA. (Poster)
22. Schwartz S, Kelly J, Radice P, **Luck G**, Kelly M, Westphal D. Terminal geriatric patients in the critical care unit: the impact of a palliative care team. Presented at: National Teaching Institute and Critical Care Exposition; May 2006; Anaheim, CA. (Poster)

Local & Regional Presentations

1. Brandon J.; Zorc, Stephen A., PhD; Onubogu, Ugoma, PhD; **Luck, George, MD.** *Persistent Neuropsychiatric Disorder After Postpartum Hemorrhage-Induced Hypoxic Brain Injury.* Florida Atlantic University, Charles E. Schmidt College of Medicine Research Day, 2025.
2. Kathryn Lotharius, MS3, Gabrielle Ferguson MS3, Sebastian Camargo, DO, **George Luck, MD**, Parvathi Perumareddi, MD *Pellagra in Complex Clinical Settings: A Case*

Involving Bariatric Surgery, Whipple Procedure, and Alcohol use Disorder Florida Atlantic University, Charles E. Schmidt College of Medicine Research Day, 2025

3. Knopf E, Leidy L, Peters D, **Luck G.**, Jacomino M, Perumareddi P. Medical School Policies for Social Media Use in U.S. Medical Education. April 2025. Oral Presentation. SGEA/SGSA/SOSR Regional Conference, Miami, FL.
4. Knopf E, Corrada GH, Mohamed A, **Luck G.**, Perumareddi P. Analyzing the Experiences and Perception of Artificial Intelligence Amongst Pre-Clinical Medical Students. Poster Presentation. April 2025. SGEA/SGSA/SOSR Regional Conference, Miami, FL.
5. Knopf E, Leidy L, Mohamed AA, Perumareddi P, **Luck G.** *Medical School Policies for Artificial Intelligence Use in U.S. Medical Education SGEA April 2025*
6. Knopf E, Leidy L, Mohamed AA, Perumareddi P, **Luck G.** Medical school policies for artificial intelligence in U.S. medical education. FAU College of Medicine Research and Scholarship Day; 2025; Boca Raton, FL. (Poster)
7. Elimelech, A., Fukuoka-Armitage, K., Eldawy, N., Mouhawasse, E., Kumar, P., Peters, D., **Luck, G.** The Influence of Social Media on Medical Students: Implications for Education, Attention Span, and Sleep. Florida Medical Association Annual Conference 2024, August 3, 2024. (Poster)
8. Etzel M, Eldawy N, Elimelech A, Fukuoka-Armitage K, Peters D, Kumar P, Mouhawasse E, **Luck G.** The influence of social media on medical students. Florida Medical Association Annual Meeting; July 2024; FL. (Poster)
9. Schmidt N, **Luck G.**, Erney A. The importance of intraoperative TEE during CABG. Florida Society of Anesthesiologists (FSA) Conference; June 2024; Palm Beach, FL.
10. Peters D, Cesare J, Dixon M, Patel S, Jaramillo C, Shugar S, Jacomino M, **Luck G.** Loneliness levels in hospice nurses. FAU Research Day; April 2024; Boca Raton, FL. (Poster)
11. Peters D, Cesare J, Dixon M, Patel S, Jaramillo C, Shugar S, Jacomino M, **Luck G.** Social isolation and the elderly. FAU Research Day; April 2024; Boca Raton, FL. (Poster)
12. Sohmer J, Fridman S, Haff C, Jacomino M, **Luck G.** Ventilator lottery: who will win the next pandemic? Baptist Health Academic Conference; April 2023; Virtual. (Poster)
13. Sagar A, Peters D, Sohmer J, Jacomino M, **Luck G.** Ventilator allocation by AI platforms. FAU Research Day; Feb 2023; Boca Raton, FL. (Poster)

14. Marmarshteyn I, Miller V, Peters D, Cesare J, Dixson M, Patel S, Jaramillo C, **Luck G.** Multimorbidities, hospice, and Baker Act. FAU Research Day; Feb 2023; Boca Raton, FL. (Poster)
15. Elimelech A, Fukuoka-Armitage K, Eldawy N, Mouhawasse E, Kumar P, Peters D, **Luck G.** Social media's effect on education & sleep. FAU Research Day; Feb 2023; Boca Raton, FL. (Poster)
16. Lee JE, Idris A, Yarlagadda C, Peters D, Keleher R, **Luck G.** Opioid overdose knowledge among college students. FAU Research Day; Feb 2023; Boca Raton, FL. (Poster)
17. Sial N, **Luck G.** COVID-19 vaccine acceptance and rationing among healthcare workers and the general public. Presented at: FAU College of Medicine Research and Scholarship Day; February 2021; Boca Raton, FL. (Oral Presentation)
18. Gureck A, Steinberg D, Jooryabi D, Hagan V, Matott S, Jacobs D, Weiss D, Jacomino M, Trelka D, **Luck G.** Exercise videos in anatomy education. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
19. Sial N, Jacomino M, Blum T, Sommerlad-Rogers D, **Luck G.** COVID-19 vaccine acceptance in the general public. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
20. Stamatiou C, **Luck G.** COVID-19 vaccine hesitancy. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
21. Rothberg B, **Luck G.** Deprioritizing COVID vaccination in children. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
22. Jooryabi D, **Luck G.** Jacomino M, Weiss D, Trelka D. Exercise videos in anatomy education. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
23. Sial N, Luck G. Advance directives among healthcare workers during COVID-19. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
24. Fridman S, **Luck G.** Pregnancy and ventilator allocation. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
25. Twadell S, **Luck G.** Ventilator allocation disparities in Florida. FAU Research Day; Feb 2021; Boca Raton, FL. (Poster)
26. Darya M, Kosches A, Fishman K, Blum CG, Jacomino M, Attonito J, **Luck G.** Publix vaccine ZIP code disparities. FAU Graduate Research Day; 2021; Boca Raton, FL. (Poster)

27. J. Attonito, X. Levy, **G. Luck**, B. Reyes, M. Bone, K. Freeman Knowledge of and beliefs about MMJ among clinicians in FL long term care settings. Poster presentation at Medical Marijuana Clinical Outcomes Research Conference, Orlando 2021.
28. **Luck G**, Ferris AH. Stigma in substance use disorder care. **Grand Rounds**; Sept 2020; Boca Raton Regional Hospital. (Oral Presentation)
29. **Luck, G.**, Ferris, A.H. Recognizing and Managing Stigma Towards Patients with Substance Use Disorders. Grand Rounds, Boca Raton Regional Hospital; September 8, 2020; Boca Raton, FL. (Oral Presentation)
30. Cohen, J., Winslow, W., Jacomino, M., **Luck, G.** Should Stop the Bleed (STB) Training Be Integrated Into the Medical School Curriculum? Presented at Palm Beach Medical Society; Jan, 2020; **Awarded 3rd place in the Research category**
31. Mielke-Maday, H., Chistov, S., Lalani, R., Kragel, M., Jacomino, M., **Luck, G.** Medical Student Attitudes Toward Substance Use Disorder Across Undergraduate Medical Education. Presented at: FAU GPSA Research Day; April 17–20, 2020; **Awarded 2nd place (Oral-Virtual Poster)**
32. Adams CA, Pierce B, Bautista A, Kassner S, Johnson K, Witcher R, Chistov S, Jacomino M, **Luck G.** Too many choices: Advance directives overload. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
33. Bautista A, Adams CA, Jacomino M, **Luck G.** Comparing Advance Directives: A Focus on Artificial Sustenance and Artificial Breathing. Presented at: FAU College of Medicine Research and Scholarship Day; February 2020; Boca Raton, FL. (Poster)
34. Chistov S, Kassner S, Johnson K, Adams CA, Witcher R, Jacomino M, **Luck G.** Advance directives: choice overload. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
35. Daley L, Mellman R, Vorster J, Jacomino M, **Luck G.** Permission to hasten death. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
36. Fridman S, Bautista A, Jacomino M, **Luck G.** Advance directives in younger populations. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
37. Innis A, Govada V, Chistov S, Ferris A, **Luck G**, Jacomino M. Resident attitudes toward addiction. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
38. Fridman S, Bautista A, Jacomino M, **Luck G.** I Have to Choose What I Want After I Die Too?: A Review of Advance Directives. FAU College of Medicine Research Day; 2020; Boca Raton, FL. (Poster)

39. Giovinazzo V, Winslow W, Conine S, Johnson K, Kelly J, **Luck G**, Ferris A, Jacomino M. Medical marijuana education. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
40. Montgomery C, Goldstein J, Winslow W, Shashoua N, Florio J, Jacomino M, **Luck G**. Opioid education in med school. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
41. Belnavis Z, Vorster J, Giovinazzo V, Ferris A, Jacomino M, **Luck G**. Educator attitudes on marijuana. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
42. Wilson M, Daley L, Giovinazzo V, Florio J, Winslow W, Jacomino M, Ferris A, **Luck G**. Student attitudes on marijuana. FAU Research Day; Feb 2020; Boca Raton, FL. (Poster)
43. Cohen J, Winslow W, Jacomino M, **Luck G**. Stop the Bleed in medical education. FAU GPSA Research Day; April 2020; Virtual. (Poster)
44. Mielke-Maday H, Chistov S, Lalani R, Kragel M, Jacomino M, **Luck G**. SUD attitudes in UME. FAU GPSA Research Day; April 2020; Virtual. (Poster)
45. Ferris A, **Luck G**, Wood S, Bautista A, Parra A. Discharge planning and opioids. Baptist Health Scholarship Showcase; Aug 2019; Boca Raton, FL. (Poster)
46. **Luck G**, Ferris A, Ohanisian L, Garcia J, Sidley A, Basich G, Garcia A. Pain management education. Baptist Health Scholarship Showcase; Aug 2019; Boca Raton, FL. (Poster)
47. Beale O, Parker DN, **Luck G**, Eggenberger T, Howard H, Prescott D. Advance directives review. FAU Research Day; 2019; Boca Raton, FL. (Poster)
48. Cioci A, Kravitz A, Shapiro S, Morocs R, Trelka D, **Luck G**. Exercise in anatomy curriculum. FAU Research Day; 2019; Boca Raton, FL. (Poster)
49. Fiedler, B., et al., **Luck, G.**, Hennekens, C.H. Underutilization of Aspirin in Patients with Biopsy-Proven Advanced Colorectal Polyps to Decrease Risk of Colorectal Cancer. Presented at: FAU College of Medicine; 2019; Boca Raton, FL. (Poster)
50. Fiedler, B., et al., **Luck, G.**, Hennekens, C.H. Lack of Reliability of Self-Reports by Patients with Advanced Colon Polyps. Presented at: FAU College of Medicine; 2019; Boca Raton, FL. (Poster)
51. Ohanisian, L., et al., **Luck, G.**, Eggenberger, T., et al. Defining the Finish Line: A Comparison of State Advance Directives Revisited. Presented at: FAU Charles E. Schmidt College of Medicine; 2019; Boca Raton, FL. (Poster)
52. Cortizo J, Perdsock R, **Luck G**, Eggenberger T, Newman D, Roshan R. Advance directive use in healthcare workers. FAU Research Day; 2016; Boca Raton, FL. (Poster)

Institutional Review Board (IRB)

1. **Investigating Loneliness Levels in Caregivers: A Study on the Impact of Caring for the Elderly**
Principal Investigator: George Luck, M.D.
IRB ID: IRB2311304
2. **Investigating Social Isolation and Its Impact on the Elderly: A Study on Loneliness in Aging Populations**
Principal Investigator: George Luck, M.D.
IRB ID: IRB2311303
3. **Effects of Social Media on Medical School Students' Attention Span and Education**
Principal Investigator: George Luck, M.D.
IRB ID: 2055228-1
4. **Risks, Attitudes, and Knowledge surrounding Opioid Overdose Emergencies among High-risk College Populations**
Principal Investigator: George Luck, M.D.
IRB ID: 1996611-1
5. **Using the Theory of Planned Behavior to Predict HPV Vaccination Intentions and HPV Vaccine Completion Rates Among Medical College Students: A Cross-sectional Study**
Principal Investigator: George Luck, M.D.
IRB ID: 1988577-1
6. **Evaluating the effect of exercise videos on medical student knowledge, satisfaction and retention of anatomy**
Principal Investigator: George Luck, M.D.
IRB ID: 1629306-2
7. **Planning in a Pandemic: An Investigation Into Resource Allocation and End-of-Life Care During COVID-19**
Principal Investigator: George Luck, M.D.
IRB ID: 1620495-1

Teaching & Presentations

1. **Panel Speaker:** *"Lessons Learned: Liabilities and Living Wills"*
Boca Raton Community Hospital, Boca Raton, Florida.
With colleagues P. Radice, MD, **G. Luck, MD**, M. Kelly, RN, BSN, M. Poncy, Esq., and P. Risner, JD.
2. **Panel Speaker:** *"Everything You Need to Know About Advance Directives"*
Boca Raton Community Hospital, Boca Raton, Florida.
With colleagues P. Radice, MD, **G. Luck, MD**, M. Kelly, RN, BSN, M. Poncy, Esq., and P. Risner, JD.
3. **Lecturer:** *"Death and Dying in America"*
University of Miami Miller School of Medicine Regional Medical Campus at Florida Atlantic University, Boca Raton, Florida. 1st Year Medical Students.

4. **Small Group Facilitator:** *“Palliative Care and Advance Directives”*
University of Miami Miller School of Medicine Regional Medical Campus at Florida Atlantic University, Boca Raton, Florida. Facilitated small groups with 1st Year Medical Students.
5. **Lecturer:** *“Advance Care Planning”*
Florida Atlantic University College of Medicine, Boca Raton, Florida.
Medical Students in Science of Clinical Practice.
6. **Lecturer:** *“Breaking Bad/Serious News”*
Florida Atlantic University College of Medicine, Boca Raton, Florida.
Surgical Residents.
7. **Keynote Speaker:** *“End of Life Decision-Making: A Panel Discussion”*
Elder Care Concert, Florida Atlantic University, Boca Raton, Florida, September 21, 2018.
8. **Keynote Speaker:** *“Compassionate Conversations: Advance Care Planning”*
Florida Atlantic University, Boca Raton, Florida, March 2019.

Mentorship and Advising

• Research Mentor

Ongoing

Guided medical students in designing and conducting research projects, with a focus on publishing in peer-reviewed journals and presenting at regional and national meetings

Mentees: Adams, C.A.; Adris, Ali; Alwahabi, Samira; Bautista, Adriana; Cioci, A.; Cohen, J.; Danan, V.; Darya, Maral; Eldawy, Nada; Elimelech, Aviv; Etzel, M.; Fishman, Keren; Flothe, Nathan; Fridman, Sabina; Fukuoka-Armitage, Kisho; Garcia, J.; Gureck, A.; Gupta, A.; Hagan, V.; Handa, Ishan; Hassanein, Lillian; Idris, A.; Jaen, L.; Jacobs, D.; Jooryabi, D.; Kaminsky, S.; Kasgarli, Emel; Knopf, Elisheva; Kokoska, Milayna; Kravitz, A.; Kumar, Preet; Lee, Jordyn; Lee, J.E.; Leidy, Lea; Marmarshteyn, Ilana; Matott, S.; Mellman, R.; Mellman, Ross; Milev, Victor; Mohamed, Ali; Mouhawasse, Edwin; Murchison, Kyle; Ohanisian, L.; Palovsky, Arthur; Pavlovsky, A.; Perrone, Cameron; Peters, Darian; Pierce, B.; Sagar, Amit; Saffer, R.; Schmidt, Natalie; Shapiro, S.; Shugar, Simon; Sohmer, Joshua; Steinberg, D.; Twadell, Sara; Weiss, D.; Winslow, W.; Yarlagaadda, Chetan

• Clinical Feedback Coach

2018 – present

Provided longitudinal, competency-based feedback and guidance to third-year medical students throughout the year, supporting their transition into clinical training and professional development.

Mentees: Rihannon Anderson, Julianne Baker, Jesse Beacker, Loren Breen, Shimron Brown, Claire Connelly, Victoria Danan, John Dunn, Jared Florio, Natalie Gaughan, Jake Goguen, Everett Kim, Michael Kucharik, Luke Lamos, Alec MacKinnon, Gerard Mackinnon, Jesse Meagher, Hannah Milke-Maday, Ali Mohamed, Clayton Olinger, William Pallissery, Viren Parmar, Cameron Perrone, Bailey Pierce, Stephanie Salgueiro, Natalie Schmidt, Neil Shah,

Steven Shiba, Aiden Snell, Shad Sommerville, Sara Twadell, Andrew Wang, Kai Yoshinaga, Rebecca Zhang, Stephan Zorc

• **Residency Advising**

2015 – present

Primarily advise students pursuing Anesthesiology, while also supporting applicants to other specialties. Provide individualized application advising, interview preparation, and detailed clerkship evaluations and Chair's letters to strengthen residency applications.

Mentees: H. Daniel Adams, Travis Altman, Jesse Beacker, Daniel Bryan, Cara Busheme, Jauleene Chamu, Lynn Chi, Kyle Chin Shue, Jamshed Desai, Thinh Do, Daniel Douzjian, Joshua Drourr, Aj Ferrone, Jared Florio, Kayla Florio, Steven Freeland, Alexandria Garcia, Jivani Gaurang, Sarah Girshfeld, Keshel Greene, David Greenstein, Bengt Grua, Ishan Handa, Arielle Henderson, Ronnie Ibrahim, Benjamin Katz, Brandon Knopp, Megan Koenig, Patrick Le, Michael Leary, Eric Steven Longfellow, Kevin Lukose, Lulu, Ayaan McKenzie, Sherrie Moore, Gloria Nadayil, Neil Nagda, Clayton Olinger, Arthur Palovsky, Daniel Parker, Shamik Patel, Justin Patton, David Rotberg, Jacob Rubin, Ryan Saffer, Emily Salmon-Denikos, Jennifer Saluck, Natalie Schmidt, Yitzchak Schultz, Ned Shashoua, Shad Sommerville, Kiley Southall, Ryan Stadler, Joshua Tang, Oghosa Urhoghide, Yen N. Vuong, Matthew Wall, Rebecca Zhang

• **Post-Baccalaureate Program Mentor**

Mentees: Julia Cesare, Cristina Jaramillo, Mariella Dixson, Staumi Patel

2022 – 2024

• **Learning Community Advisor (LCA) 38/year**

2015 – 2018

Provided longitudinal academic and professional mentorship to medical students through regular individual meetings, personalized guidance, and ongoing support for their development.

Mentees: H. Daniel Adams, Tyler Anderson, Kristen Baker, John Beauchamp, Andrew Brown, Daniel Bryan, Veronica Caballero, Andrew Camacho, Rey Carvajal, Jauleene Chamu, Kasey Conklin, Thomas Difato, Thinh Do, Daniel Douzjian, Eric Downes, Anamaria Duvnjak, Ryan Evans, Timothy Fitzgerald, Kayla Florio, Steven Freeland, Sarah Gennette, Anya Goldstein, Keshel Greene, Stephanie Hernandez, Robert Horn, Ronnie Ibrahim, Maryanne Joseph, Emel Kasgarli, Benjamin Katz, Maria Kosyrikhina, Raven Lambert, Sarah Elizabeth Langdon, Eric Steven Longfellow, Elizabeth Martino, Ayaan McKenzie, Sherrie Moore, Alicia Morrison, Gloria Nadayil, Chris Nguyen, Lisa Oliveri, Aaron Fletcher Osborne, Shamik Patel, Robert Bradley Robinson, David Rotberg, Emily Salmon-Denikos, Adam Schertz, Susie Sennhauser, Kailee Smith, Tyler Sparks, Tristan Tanner, Yen N. Vuong, Nicholas Warren, Erica Weber, Erika Wheeler, Cassandra Yoder

• **Research Mentor**

Guided medical students in designing and conducting research projects, with a focus on publishing in peer-reviewed journals and presenting at regional and national meetings

Mentees: Adams, C.A.; Adris, Ali; Alwahabi, Samira; Bautista, Adriana; Cioci, A.; Cohen, J.; Danan, V.; Darya, Maral; Eldawy, Nada; Elimelech, Aviv; Etzel, M.; Fishman, Keren; Flothe, Nathan; Fridman, Sabina; Fukuoka-Armitage, Kisho; Garcia, J.; Gureck, A.; Gupta, A.; Hagan, V.; Handa, Ishan; Hassanein, Lillian; Idris, A.; Jaen, L.; Jacobs, D.; Jooryabi, D.; Kaminsky, S.; Kasgarli, Emel; Knopf, Elisheva; Kokoska, Milayna; Kravitz, A.; Kumar, Preet; Lee, Jordyn; Lee, J.E.; Leidy, Lea; Marmarshteyn, Ilana; Matott, S.; Mellman, R.; Mellman, Ross; Milev,

Victor; Mohamed, Ali; Mouhawasse, Edwin; Murchison, Kyle; Ohanisian, L.; Palovsky, Arthur; Pavlovsky, A.; Perrone, Cameron; Peters, Darian; Pierce, B.; Sagar, Amit; Saffer, R.; Schmidt, Natalie; Shapiro, S.; Shugar, Simon; Sohmer, Joshua; Steinberg, D.; Twadell, Sara; Weiss, D.; Winslow, W.; Yarlagadda, Chetan

Additional Mentorship

- Supported Chad Summerville (ASA Delegate, 2021 – Medical Student) with a nomination for institutional recognition based on leadership and academic excellence
- Special Interest Group Advisor (Anesthesia) 2015-Present
- Endorsed Ryan Perdzock (Internal Medicine Resident) with a letter of recommendation for a competitive Palliative Care Fellowship in 2016
- Supported Milayna Kokoska for the MSARF Summer Program Selection Committee – Scholarship
- Letter of support for scholarship Elisheva Knopf to attend the SGEA-Funding

Invited Speaking Engagements

- **Palliative Care in the U.S.** – Thailand, 2025
- **5th World Congress on Global Healthcare and Medicine**
November 17-18, 2025, in Paris, France.
- **3rd International Conference on Medical Nursing and Health Care**
June 12-13, 2024 -Dubai
- **Dying in the Americas** Conference
Advance Directives for Alzheimer's and Dementia Patients/Henderson, NV, 2018

**Maria Carmenza Mejia,
M.D., M.P.H., F.A.C.P.M., F.A.S.A.M.**

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ME-104, Room 231
Boca Raton, FL, 33431
(832) 427- 2020
mejiam@health.fau.edu

EDUCATION & TRAINING

Preventive Medicine and Public Health Residency – Meharry Medical College, Nashville, TN
(2011–2014)

Health Policy Scholar – Robert Wood Johnson Foundation (2012–2014)

M.P.H. – University of Florida, Gainesville, FL (2010)

M.D. – Universidad Pontificia Bolivariana, Medellin, Colombia (1998)

BOARD CERTIFICATIONS

- Addiction Medicine – American Board of Preventive Medicine (2019–2029)
- Public Health and General Preventive Medicine – ABPM (2015–2028)

MEDICAL LICENSURE

- **Florida Medical License #ME120049** – Active
- **Texas Medical License #S6687** – Active

ACADEMIC APPOINTMENTS

Professor, Department of Population Health
Schmidt College of Medicine, Florida Atlantic University (2024–Present)

Associate Professor, Department of Family and Community Medicine
Baylor College of Medicine (2019–2024)

Assistant Professor, Department of Family and Community Medicine
Baylor College of Medicine (2014–2019)

FACULTY MEMBERSHIP IN FAU INITIATIVES

- COM Faculty Member. Research Committee. University Faculty Senate. (2025-2026)
- Faculty Member, Cannabis Task Force, Owls Care Health Promotion, FAU (2025)
- Faculty Member, Healthy Campus Inventory, Division of Student Affairs, FAU (2025)
- Co-Chair, Clinical Faculty Promotion and Tenure Committee, Schmidt College of Medicine (2024–2026)
- Representative, Research Committee, Schmidt College of Medicine (2024–2026)
- Member, Continuing Medical Education Committee, Schmidt College of Medicine (2024–2026)

OTHER EXPERIENCE

Site Director, El Centro de Corazón, Addiction Services (2023–2024)

Led development and implementation of addiction services tailored for Hispanic populations in a federally qualified health center; supervised multidisciplinary teams across three clinic sites.

Director MOUD/MAUD Program, Grant-Funded Integrated Care Programs (2015–2024)

Led the expansion of medications for opioid and alcohol use disorder (MOUD/MAUD) services at Santa Maria Hostel, one of Texas’s largest multi-site, gender-responsive treatment centers for women and their

families. Designed and implemented culturally aligned care models addressing co-occurring mental health conditions, trauma, and social barriers, while supervising interprofessional clinical teams.

Program Director, Lung Cancer and Tobacco Cessation (2017–2024)

Developed and scaled lung cancer screening and tobacco cessation interventions at Harris Health and Baylor St. Luke's; contributed to state-level models.

Director of Community Engagement, Baylor College of Medicine (2017–2024)

Established cross-sector collaborations and helped launch the Community Engagement Core of the Baylor–University of Houston CTSA. Led initiatives to build trust, promote access, and integrate community perspectives into health innovation.

Medical Liaison, Chase Corporate Clinic, Baylor College of Medicine (2015–2023)

Delivered onsite care to JPMC employees and served as liaison between corporate leadership and Baylor providers. Supported quality assurance and co-led employee health education events.

OTHER ADVANCED TRAINING

- **Physician Leadership Development Institute** Program, American College of Healthcare Executives – *Leadership development for academic affiliates and Harris Health-employed physicians* (2023)
- **Community Health Worker (CHW) Instructor** Certification, TX Health and Human Services – *Certified to train CHWs and CHW instructors* (2023)
- **Career Advancement & Leadership** Series, Baylor College of Medicine (2022)
- **National Hispanic Medical Association Leadership** Fellowship (2022)
- **Tobacco Use Treatment Specialist** Training, MD Anderson Cancer Center, Houston, TX (2017)

HONORS & AWARDS

- Unsung/Hidden Hero Award– National Hispanic Medical Association (NHMA) (2025)
- Authors and Artists Recognition– Provost & University Libraries, Florida Atlantic University (2025)
- Norton Rose Fulbright Faculty Excellence Award– Baylor College of Medicine (2024)
- Clark Faculty Service Award – Baylor College of Medicine (2023)
- Fellow – National Hispanic Medical Association Leadership Fellowship (2022)
- Women of Excellence Award – Baylor College of Medicine (2022)
- Star Faculty Award for Excellence in Patient Care – Baylor College of Medicine (2022)
- Loan Repayment Award, Independent Clinical Investigator – National Institute on Drug Abuse (2022)
- Honorable Mention, Abstract Submission – ASAM 53rd Annual Conference: “The Female Offender Re-Entry Movement (FOR-Me)” (2022)
- Fellow – American Society of Addiction Medicine (2020)
- Loan Repayment Award, Independent Clinical Investigator – National Institute on Drug Abuse (2019)
- Outstanding Researcher – Dep of Family & Community Medicine, Baylor College of Medicine (2018)
- Inductee – Beta Upsilon Chapter of Delta Omega Honorary Society of Public Health (2018)
- Fellow – American College of Preventive Medicine (2017)
- Excellence in Research Award – Meharry Medical College (2014)
- Outstanding Resident Award – Meharry Medical College (2014)
- Chief Resident Award – Preventive Medicine Residency, Meharry Medical College (2014)
- Hispanic Leadership Development Scholarship – United Methodist Committee on Relief (2013)
- Scholar – Robert Wood Johnson Foundation Health Policy Scholars Program (2012)

PROFESSIONAL SERVICE & LEADERSHIP

- **Development Committee Task Force**. National Hispanic Medical Association. (2025–Present)
- **Continuing Education Committee Member** – American Society of Addiction Medicine (2025–2028)

- **Travel Scholarship Subcommittee Member** – American Society of Addiction Medicine (2023–2025)
- **Shared Decision-Making Task Group Member** – National Lung Cancer Roundtable, American Cancer Society (2022–Present)
Invited member recognized for expertise in lung cancer prevention, tobacco treatment, and patient-centered care.
- **Advisory Committee Member** – *Vaccinate For All* Campaign, National Hispanic Medical Association (2022–Present)
Collaborated on national campaign to strengthen vaccine confidence in Hispanic communities.
- **Co-Chair, Disparities Priority Area Workgroup**– Cancer Alliance of Texas (2022–2024)
Led initiatives to build coalition capacity and promote inclusive cancer prevention and control efforts across Texas
- **American Lung Association Texas Advisory Committee. Member.** (2022-2024)
- **American Board of Preventive Medicine.** Practice Analysis and Examination Update Study for Public Health and General Preventive Medicine. (2022-2023)
- **Lead IRB Committee**, Department of Family and Community Medicine, Baylor College of Medicine. Principal reviewer for the department's IRB ESP1 submissions (2016- 2023)
- **Texas Center for Human Advancement, Houston Texas** (2021-2024)
- **5th Ward Center for Urban Transformation.** Council Member of the Social Determinants of Health Initiative (2019-2023)
- **Medication Assisted Therapy Waiver Training** (Trainer) (PCSS, SAMHSA funded) (2018-2021)
- **Meharry Medical College Preventive Medicine Residency Advisory Committee - Program Evaluation Committee (RAC-PEC).** (2014-2021)
- **Diversity and Inclusion Outreach Partner.** Baylor College of Medicine (2017-2024)
- **Ligums Grant Steering Committee** Board Member. Texas Children Hospital (2016-2021)
- Echo Medical Group, New Haven, CT. Advisory Committee Member (2016- 2021)
- **Tennessee Cancer Coalition**, Nashville, TN. Co-Chair. (2010-2014)

PROFESSIONAL SOCIETIES

- American Society of Addiction Medicine (2015-present)
- National Hispanic Medical Association (2012- present)
- American College of Preventive Medicine (2011- present)
- Society of Teachers of Family Medicine (2015- 2020)
- American Public Health Association (2010-2019)

JOURNAL REVIEWER

American Journal of Preventive Medicine
Preventive Medicine
BMJ Open – Public Health or Preventive Medicine sections
Journal of Cancer Education
Journal of Substance Abuse Treatment (JSAT)
Substance Abuse
Addiction Science & Clinical Practice

PUBLICATIONS

Book Chapters

1. Zoorob RJ, **Mejia MC** and Levine R (2022). Clinical Prevention. In: Paulman PM, Taylor RB, Paulman AA and Nasir LS, (eds.). *Family Medicine: Principles and Practice*. Springer, Cham, pp. 71-98. ISBN: 978-3-030-54441-6

2. Kowalchuk A, Gonzalez SJ, **Mejia MC**, Zoorob RJ. (2022). Substance Use Disorders. In: Paulman, P.M., Taylor, R.B., Paulman, A.A., Nasir, L.S. (eds) Family Medicine. Springer, Cham. pp 855–872 https://doi.org/10.1007/978-3-030-54441-6_174
3. Kowalchuk, A. A., **Mejia de Grubb**, M., Gonzalez, S. J., & Zoorob, R. J. (2019). Addressing Substance Use with the Adolescent in Primary Care: the SBIRT Model. In Morelli (Ed.), Adolescent Health Screening: An Update in the Age of Big Data.

Peer Review Journals

1. Karve Z, Calpey J, Machado C, Knecht M, **Mejia MC**. New Doc on the Block: Scoping Review of AI Systems Delivering Motivational Interviewing for Health Behavior Change. *J Med Internet Res* 2025;27:e78417 URL: <https://www.jmir.org/2025/1/e78417/> doi: 10.2196/78417
2. Volk RJ, Lettieri JS, Leal VB, Duhon GF, Maki KG, Bernal MP, Tan N, Dougla E, Coles S, Ebell, M, **Mejia MC**, Kazerooni E, Rosenthal L, Smith R. et al. The Quality of Patient Decision Aids for Lung Cancer Screening: Results from an Environmental Scan. *Cancer*. 2025 Sep 1;131(17):e70008. doi: 10.1002/cncr.70008. PMID: 40889250; PMCID: PMC12401189.
3. Campson, A., Ernst, K., Lewis, K., Starr, A., Dasilva, G., Decker, M., Romeus, T., Knecht, M., **Mejia, M.**, & Sacca, L. The role of community health workers (CHWs) in improving cervical cancer screening rates and access to treatment in underserved US populations: a scoping review. *Cancer causes & contro*. 2025 Aug 18. doi: 10.1007/s10552-025-02047-7. PMID: 40826255.
4. **Mejia MC**, Ma HY, Lowenstein LM, Spooner KK, Duhon G, Douglas E, Leal V, Volk RJ. Provider readiness and implementation barriers for lung cancer screening in a safety-net system. *Prev Med Rep*. 2025;56:103164. doi:10.1016/j.pmedr.2025.103164
5. Gines V, Rodriguez, Lobaina D, Sacca L, Torres M, **Mejia MC**. Generational perspectives and advocacy barriers among community health workers: implications for public health workforce leadership. *Front. Public Health*. 2025;13:1616506. doi: 10.3389/fpubh.2025.1616506
6. Miranda H, Ostanin J, Shugar S, **Mejia MC**, Sacca L, Doucette ML, Hennekens CH, Kitsantas P. Disparities in Treatment Outcomes for Cannabis Use Disorder Among Adolescents. *Pediatric Reports*. 2025; 17(4):74. <https://doi.org/10.3390/pediatric17040074>
7. Price-Wise G, Duffy E, Benson K, Willet Y, Dunn J, Hennekens C, Kitsantas P, **Mejia MC**. Healthcare Provider and Public Health Challenges: Decreasing “Us” versus “Them”. *Southern Medical Journal*. 118(8), 576–577. <https://doi.org/10.14423/SMJ.0000000000001854>
8. Gurivreddygari S, Hicks S, Hayes E, Rao M, Densley S, Choudhury S, Kitsantas P, **Mejia MC**, Sacca L. Barriers Experienced During Fatherhood and the Role of Adverse Childhood Experiences: A Mixed-Methods Approach. *Societies*. June 2025
9. Mendonca J, Etzel M, Eldawy N, Lent A, Jimenez S, Brinzo P, Kaleem S, Dean A, Burgoa S, Follin T, **Mejia M**, Kitsantas P, Sacca L. The role of patient–provider communication and social support in improving adherence to breast cancer screening and treatment guidelines among United States underserved communities: A systematic review. *J Public Health*. June 2025. <https://doi.org/10.1007/s10389-025-02514-0>
10. Zerrouki, Y., Burgoa, S., Okwaraji, G. Mendonca J, Jhumkhawala, Kelly S, Bulut E, Arshad S, Knopf E, Follin T, Kitsantas P, **Mejia M**, Sacca L. Prenatal screening educational interventions for U.S. pregnant women: a scoping review. *Discov Public Health* 22, 244 (2025). <https://doi.org/10.1186/s12982-025-00596-5>
11. Brinzo P, Dean A, Dunn A, Lobaina D, Densley S, Kitsantas P, **Mejia MC**, Sacca L. The Rising Tide: Disparities in Fentanyl-Related Mortality Among Hispanic and Non-Hispanic Adolescents and Young Adults in the United States. *Youth*. 2025; 5(2):39. <https://doi.org/10.3390/youth5020039>
12. Sacca L, Lobaina D, Burgoa S, Jhumkhawala V, Rao M, Okwaraji G, Zerrouki Y, Sohmer J, Knecht M, **Mejia MC**, et al. Period Poverty and Barriers to Menstrual Health Equity in U.S. Menstruating

- College Students: A Scoping Review. *International Journal of Environmental Research and Public Health*. 2025; 22(4):619. <https://doi.org/10.3390/ijerph22040619>
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 73. Gonzalez S, **Mejia de Grubb MC**, Zoorob R. Patient-Centered Medical Home And Integrated Care In The United States: An Opportunity To Maximize Delivery Of Primary Care. Review. *Family Medicine and Community Health J.* June 2015, 3(2): 48-53. (*BCM*)
 74. Wang H, Warwick E, **Mejia de Grubb MC**, Deng N. Evaluation of Obstetrical Procedural Competence of Family Medicine Residents. *Family Medicine and Community Health J.* June 2015, 3(2): 69-78. (*BCM*)
 75. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Levine RS. Demographic and Geographic Variations in Breast Cancer Mortality Among U.S. Hispanics. *J Health Care Poor Underserved.* 2013 Feb;24(1 Suppl):140-52. doi: 10.1353/hpu.2013.0043.
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Other Publications Without Peer Review

1. **Mejia MC**. The Tennessee Cancer Coalition (TC2). (2010). Parity of Coverage In Health Insurance Plans For Orally And Intravenously Administered Chemotherapy Agents. Analysis Of Tennessee Senate 3166/ House Bill 3322, To Amend Tenn. Code Ann. § 56-7-2368, Known As The “Cancer Treatment Fairness Act Of 2010”; As Requested By The Tennessee House Industrial Impact Subcommittee. Nashville, TN.

GRANTS & RESEARCH SUPPORT

Active Research Support

1. **Rising Strong: Empowering Youth for Substance-Free Futures**
Program Director | Substance Abuse and Mental Health Services Administration
 Center for Substance Abuse Prevention
 09/30/2025-09/29/2030 | \$3,000,000

Completed Research Support

1. **Medical Cannabis Use among Pregnant and Non-Pregnant Women of Reproductive Age**
Co-Investigator | Consortium for Medical Marijuana Clinical Outcomes Research
 07/01/2024 – 06/30/2025
2. **Comorbidities in Pregnant Women with Prenatal Alcohol Exposure and Adverse Birth Outcomes**
Co-Investigator | NIH | PI: Kitsantas
 08/01/2024 – 07/31/2026 | \$50,000
3. **El Centro de Corazón Addiction Services – Fellowship Expansion**
Site Director (0.4 FTE) | TX Child Mental Health Care Consortium / ARPA
 09/01/2023 – 08/31/2025
4. **I-CARE Clinic: Integrated Care & SMH Expansion**
Addiction Medicine Specialist (0.2 FTE) | Harris County ARPA | PD: Gilmore
 10/01/2022 – 09/30/2024 | \$1,256,851

5. **MAT-AUD Program at Santa Maria Hostel**
Medical Provider (0.1 FTE) | Be Well Texas / HHSC
 09/01/2023 – 08/31/2024 | \$669,192
6. **BCM BEARS: Buprenorphine Education Among Residents and Students**
Co-Investigator (0.1 FTE) | SAMHSA | PI: Kowalchuk
 09/30/2021 – 09/29/2024 | \$147,506
7. **Lung Cancer Screening & Tobacco Control Network Expansion**
Co-Program Director | CPRIT | PD: Zoorob
 09/01/2021 – 08/31/2024 | \$1,999,667
8. **RCMI Center for Biomedical & Minority Health Research**
Co-Investigator, Community Engagement Core (0.05 FTE) | Texas Southern University | PI: Xie
 09/01/2020 – 08/31/2025
9. **Bringing Alcohol & Drug Research to Primary Care**
Co-Investigator (0.1 FTE) | NIH/NIAAA | Co-PIs: Zoorob, Kowalchuk
 04/01/2020 – 03/31/2024
10. **COVID-19 Vaccine Awareness & Equity Initiative**
Principal Investigator | National Hispanic Health Foundation
 06/2022 – 12/31/2022 | \$5,000
11. **COVPN 5002: SARS-CoV-2 Prevalence – Moderna Vaccine Trial**
Co-Investigator (0.1 FTE) | NIH | PI: El Sahly
 08/01/2020 – 11/01/2021
12. **BCM BEAMS: Buprenorphine Education Among Medical Students**
Co-Investigator (0.1 FTE) | SAMHSA | PD: Kowalchuk
 09/30/2018 – 09/29/2021 | \$448,695
13. **Equitable Access to Lung Cancer Screening and Smoking Cessation**
Co-Program Director | CPRIT | PD: Zoorob
 03/01/2018 – 02/28/2021 | \$1,472,918
14. **Cancer Moonshot: Tobacco Cessation for Patients with Cancer**
Co-Program Director (0.2–0.4 FTE) | NCI | PI: Osborne
 07/01/2017 – 06/30/2019 | \$500,000
15. **Female Offender Re-Entry Movement (FOR ME)**
Site PI (0.1 FTE) | SAMHSA | PI: Bland
 09/30/2017 – 09/29/2020 | \$87,574 annually (subaward), \$1.2M total
16. **FASD Practice & Implementation Center: Primary Care & Social Work Focus**
Co-Investigator | CDC | PI: Zoorob
 09/30/2014 – 09/29/2018 | \$404,562 (Year 3)
17. **Parental Perceptions of Child Weight Status in Low-Income Hispanic Families**
Principal Investigator | RWJF Health Policy Center (Meharry)
 06/01/2013 – 11/30/2014 | \$20,000
18. **Training Residents on Cancer-Related Health Disparities**
Principal Investigator | APA/CDC SESRCD Program
 08/01/2013 – 04/30/2014 | \$10,000

ABSTRACTS

1. Gines V, Rodriguez J, Lobaina D, Torres M, Sacca L, **Mejia MC**. Addressing Workforce Diversity and Advocacy Barriers Among Community Health Workers: The Role of Age and Experience. Roundtable: CHW Professional Support and Workforce Development. APHA. Washington DC, 2025.

2. Karve Z, Machado C, Calpey J, **Mejia MC**. New Doc on the block: Can AI improve motivational interviewing to augment health behaviors? A scoping review. FL Medical Association. July 24-27, 2025. Orlando, FL.
3. Calpey J, Karve Z, Machado C, Levine R, **Mejia MC**. Trends in Mortality from Hypertensive Diseases versus Hypertensive Diseases with Co-occurring Obesity. United States of America. 2001-2023. FL Medical Association. July 24-27, 2025. Orlando, FL.
4. **Mejia M**, Calpey J, Karve Z, Machado C, Levine R Trends in Mortality from Hypertensive Diseases versus Hypertensive Diseases with Co-occurring Obesity. United States of America. 2001-2023. ACPM Annual Meeting, May 3-8, 2025. Seattle, WA.
5. **Mejia MC**, Kitsantas P, Sacca L, Caceres J. Better Together: Collaborative Approaches To Population Health In Medical Education. 2025 SGEA/SGSA/SOSR Regional Conference. April 28-30, 2025, at Miami, FL. *Workshop*.
6. **Mejia, MC**, Hilary YH, Lowenstein L, Spooner K, Duhon G, Douglas E, Volk R. Readiness to implement Lunch Cancer Screening among Health Care Professionals from a Safety-Net Healthcare System in the U.S., ISDM Conference July 2024. Lausanne, Switzerland.
7. **Mejia MC**, Kitsanta, P., Hennekens, C. H., & Ferris, A. H. (2024, May). Admissions for Cannabis Use Disorder among Pregnant Women in the United States: Publicly Funded Treatment Facilities from 2000 to 2021. Cannabis Clinical Outcomes Research Conference (CCORC 2024). Lake Nona, FL. May 2024.
8. Gutierrez, J.A., Lopez, J., Hirth, J., Shorter, D., & **Mejia, M.C**. Disparities in unintentional drug and alcohol overdose deaths preceding and during the COVID-19 pandemic. American Psychiatric Association. May 2024. New York
9. **Mejia MC**, Levine R, Hennekens C, Kitsantas P. Deaths of Despair: A major and increasing contributor to US deaths. ACPM April 18-21, 2024. Washington, DC.
10. Ostovar-Kermani TG, **Mejia MC**, Hirth JM, Stafford IA, Zoorob R, Levine RS. Hypertension mortality among females of childbearing age in the United States. ACPM April 18-21, 2024. Washington, DC.
11. Gutierrez JA, Hirt JM, Levine RS, **Mejia MC**, Zoorob R. Opposite Trends in Colon and Rectal/Rectal Sigmoid Cancer Mortality Rates Among Persons 25 to 64 Years of Age in the US. 1999-2020. ACPM. April 18-21, 2024. Washington, DC.
12. Diaz V, Rosas A, Tai A, Elisarraras F, Olvera A, Hernandez A, **Mejia MC**. Needs of Latinx Health Fair Participants: The Role of Medical Students as General Health Screeners. ACPM 2024, Washington, DC.
13. **Mejia MC**, Zoorob R, Matas J, Levine R. Shared decision-making and decisional conflict in a lung cancer screening program for underserved populations. CPRIT Innovations Conference. October 2-3, 2023. Galveston, TX.
14. Zoorob R, **Mejia MC**, Walker R, Rangel A, Rodriguez J, Gonzalez S. Lung Cancer Screening and Tobacco Cessation: Barriers, Facilitators, and the Role of Tobacco Counselors, Patient Navigators, and Clinician Education in Addressing Social Determinants of Health. CPRIT Innovations Conference. October 2-3, 2023. Galveston, TX.
15. Diaz V, Rosas A, Tai A, Elisarraras F, Olvera A, Hernandez A, **Mejia MC**. Needs of Latinx Health Fair Participants: The Role of Medical Students as General Health Screeners. 18th Annual LMSA National Conference. September 14-17, 2023. Atlanta, GA.
16. **Mejia MC**, Gonzalez S, Webb L, Scamp N, Kowalchuk A. Understanding pandemic health inequities among marginalized and medically underserved populations. ACPM. Preventive Medicine Annual Meeting. March 20-23, 2023. New Orleans, LA.
17. **Mejia MC**, Zoorob R, Matas J, Levine R. Shared decision-making and decisional conflict in a lung cancer screening program for underserved populations. ACPM. Preventive Medicine Annual Meeting. March 20-23, 2023. New Orleans, LA.

18. **Mejia MC**, Gittner L, Levine R. United States mortality from conditions amenable and not amenable to health care:1999-2020. ACPM. Preventive Medicine Annual Meeting. March 20-23, 2023. New Orleans, LA.
19. Ghaddar T, Ravi S, Levine R, **Mejia MC**, Hennekens C, Caceres J. Evolving Trends in US Drug Overdose Mortality. 1st Annual Addiction Weekend on October 28-29, 2022. Boca Raton, FL.
20. Levine R, Patterson D, **Mejia MC**, Gittner L. Deaths from causes amenable and not amenable to health care: Natural experiments in local politics. APHA 2022 Annual Meeting and Expo (Nov. 6 - Nov. 9) Boston, MA.
21. Levine R, Patterson D, **Mejia MC**, Gittner L. Firearm and non-firearm fatality: Natural experiments in local politics. APHA 2022 Annual Meeting (Nov. 6 - Nov. 9) Boston, MA.
22. **Mejia MC**, Gill B, Kowalchuk A, McMaster S. The Female Offender Re-Entry Movement (FOR-Me): Increasing access to SUD treatment. The ASAM 53rd Annual Conference. March 31 - April 3, 2022 in Hollywood, Florida.
23. Levine RS, **Mejia MC**, Gonzalez S, Walia N, Hennekens CH, Zoorob RJ. Texas schoolchildren are experiencing alarming increases in firearm-related mortality. Texas Public Health Association Meeting. May 17-19, 2021.
24. Levine RS, **Mejia MC**, Gonzalez S, Walia N, Hennekens CH, Zoorob RJ. Lung cancer (LC) and hepatocellular cancer (HCC) on the United States (US)-Mexico border: Facts and myths. Texas Public Health Association Meeting. May 17-19, 2021.
25. **Mejia MC**, Mosqueda M, Zoorob R, Levine R, Sarkar P. Preliminary Outcomes of a comprehensive Lung Cancer Screening and Tobacco Cessation Program in a Safety-net System. Society of Teachers of Family Medicine 2021 Annual Spring Conference (May 3-6, 2021). Lecture-Discussion.
26. Levine RS, **Mejia MC**, Gonzalez S, Zoorob R, Hennekens C. Facts and Myths about Lung cancer (LC) and hepatocellular cancer (HCC) on the United States (US)-Mexico border. Society of Teachers of Family Medicine 2021 Annual Spring Conference (May 3-6, 2021). Lecture-Discussion.
27. Levine RS, Levine E, **Mejia MC**, Gonzalez S, Zoorob R, Muppala V, Hennekens C. The Leading Cause of Death in Young American Teenagers. Society of Teachers of Family Medicine 2021 Annual Spring Conference (May 3-6, 2021). Poster presentation.
28. Levine RS, Walia N, **Mejia MC**, Gonzalez S. Trends in United States Opioid mortality in Non-Hispanic Women of Childbearing age. Society of Teachers of Family Medicine 2021 Annual Spring Conference (May 3-6, 2021). Poster presentation.
29. Lalani R, Levine RS, **Mejia MC**, Gonzalez S, Hennekens CH, Drowos J. Interrelationships Between Assault Mortality Among Women Of Childbearing Age And Adverse Birth Outcomes. APHA 2020. Virtual Annual Meeting (October 24.28, 2020). Poster presentation.
30. Gadela N, Rubenstein A, **Mejia MC**, Gonzalez S, Hennekens CH, , Levine RS, Wood S. Increasing Inequalities in US Mortality from Pediatric Asthma: Clinical and Public Health Challenges. . APHA 2020. Virtual Annual Meeting (October 24.28, 2020). Poster presentation.
31. Jian P, Wang H, Gonzalez S, Rustveld L, Sidani M, **Mejia MC**. Creation of an Integrated Multi-Disciplinary Team Model for Obesity Management in a Family Medicine Clinic. 2020 Conference on Practice & Quality Improvement. Abstract.
32. **Mejia MC**, Mosqueda M, Zoorob R, Levine R. Implementing a Comprehensive Lung Cancer Screening Program in a Safety Net System: Leadership, Successes and Barriers. Society of Teachers of Family Medicine. Annual Spring Conference (August 24, 2020), Salt Lake City, UT. Lecture Discussion.
33. **Mejia MC**, Mosqueda M, Zoorob R, Levine R. Harnessing the Synergy of Improvement and Implementation Sciences to Adopt Lung Cancer Screening Practices in Primary Care. Society of Teachers of Family Medicine. Annual Spring Conference (August 24, 2020), Salt Lake City, UT. Oral Presentation.
34. Salemi J, Modak S, Raza S, Raza S, **Mejia de Grubb MC**, Zoorob R. Opioid Use During Pregnancy Increases Postpartum Readmission Rates in Women With and Without Major Obstetric Comorbidities.

- Society of Teachers of Family Medicine. Annual Spring Conference (April 28, 2019), Toronto. Oral Presentation.
35. Gonzalez, S, Kowalchuk A, **Mejia de Grubb MC**, Zoorob R. Development, Implementation, and Evaluation of a Nationwide Screening and Brief Intervention Training Program for Family Medicine Residencies. Society of Teachers of Family Medicine. Annual Spring Conference (April 28, 2019), Toronto. Oral Presentation.
 36. Zoorob R, Salemi J, **Mejia de Grubb MC**, Modak S, Levine RS. A Nationwide Study of Breast Cancer, Depression, and Multimorbidity in the US: An Increasing Problem Among Women and Men. Society of Teachers of Family Medicine. Annual Spring Conference (April 28, 2019), Toronto. Oral Presentation.
 37. Wang H, **Mejia de Grubb MC**, Levine R, Zoorob L. The incidence, trend and survival of infant cancer in the US from 1975-2014. Society of Teachers of Family Medicine. Annual Spring Conference (April 29, 2019), Toronto. Oral Presentation.
 38. **Mejia de Grubb MC**, Levine R, Weiss M, Salemi J, Zoorob R, Hennekens C. FDA Certification of Treatments for Infection With Hepatitis C Virus and Increased Racial Disparities in Mortality From Hepatocellular Carcinoma. Society of Teachers of Family Medicine. Annual Spring Conference (April 30, 2019), Toronto. Oral Presentation.
 39. Fu J, **Mejia de Grubb MC**, Levine R, Salemi J, Zoorob R, Hennekens C. Persistent Racial Inequalities in Mortality From HIV After Introduction of Highly-Active Antiretroviral Treatment (HAART). Society of Teachers of Family Medicine. Annual Spring Conference (April 30, 2019), Toronto. Oral Presentation.
 40. Wang H, **Mejia de Grubb MC**, Salemi J, Sidani M, Zoorob L. Timeliness of HbA1c Testing in Patients With Diabetes in an Urban Family Medicine Private Practice. Society of Teachers of Family Medicine. Annual Spring Conference (April 30, 2019), Toronto. Poster Presentation.
 41. **Mejia de Grubb MC**, Mosqueda M, Zoorob R, Levine R. Equitable Access to Lung Cancer Screening and Tobacco Cessation Treatment: Key Informant Responses Prior to Implementation of a New Program. 16th Annual Dan L. Duncan Comprehensive Cancer Center Symposium. March 1, 2019, Houston, TX. Poster Presentation.
 42. Aguinaga MP, Levine R, O'Hara H, **Mejia de Grubb M**, Hennekens C. Differential Changes in Mortality from Sickle Cell Disorders by Age in the United States. 12th Annual Sickle Cell Disease Research and Educational Symposium. June 17, 2018, Washington, DC. Oral Presentation
 43. Levine R, Aguinaga MP, O'Hara H, **Mejia de Grubb M**, Wood S, Hennekens C. Temperature-Related Indices and Mortality from Sickle Cell Disease. ACPM 2018. May 23, 2018, Chicago, IL
 44. Levine RS, Salemi JL, **Mejia de Grubb MC**, Wood S, Brown J, Gittner LS, Langston MA, Husaini BA, Rust G, Hennekens CH. Post-neonatal infant mortality and firearm-related homicide: correlated indicators of population health. Society of Teachers of Family Medicine. Annual Spring Conference (May 6, 2018), Washington DC. Poster Presentation
 45. Gonzalez S, Juneja M, **Mejia de Grubb MC**, Harris J, Zoorob R. A pre-post assessment of primary care and psychiatry providers' experiences, beliefs, and perceived needs related to behavioral health integration. Society of Teachers of Family Medicine. Annual Spring Conference (May 7, 2018), Washington DC. Poster
 46. Wang H, **Mejia de Grubb MC**, Sidani M, Zoorob R. Primary care physicians' adherence to diabetes screening guidelines. Society of Teachers of Family Medicine. Annual Spring Conference (May 7, 2018), Washington DC. Oral Presentation
 47. Gonzalez S, Kowalchuk A, **Mejia de Grubb MC**, Zoorob R. Preventing alcohol exposed pregnancies: Overview and application of a national model. Society of Teachers of Family Medicine. Annual Spring Conference (May 7, 2018), Washington DC. Lecture Discussion
 48. **Mejia de Grubb MC**, Salemi J, Gonzalez S, Zoorob R. Opioid, Other Drug Use Disorders and 30-Day Inpatient-Readmission in the US, 2010-2014. ASAM 49th Annual Conference - Innovations in Addiction Medicine and Science, April 12-15, 2018, San Diego, CA.

49. **Mejia de Grubb MC**, Gonzalez S, Levine R, Zoorob R. Lung cancer screening guidelines in primary care: A survey on Knowledge of, Attitudes Toward, and Practices. CPRIT (Nov 13-15, 2017, 2017), Austin, TX. Poster Presentation.
50. Levine R, **Mejia de Grubb MC**, Salemi J, Zoorob R. Accidental Infant Suffocation and Strangulation in Bed. United States. 1999-2014. ACPM Annual Meeting (May 23-26, 2017), Portland, OR. Poster Presentation.
51. **Mejia de Grubb MC**, Salemi J, Gonzalez S, Zoorob R, Levine R. Correlates and temporal trends of substance use disorders among women aged 13-49 years in the US. ACPM Annual Meeting (May 23-26, 2017), Portland, OR. Poster Presentation.
52. Levine R, **Mejia de Grubb MC**, Salemi J, Rust G, Langston M, Kilborne B, Gittner L, Zoorob R, Sanderson M, Brown J, Wood S, Hennekens C. Reductions of Infant Mortality in New York City: Lessons Learned and to be Learned. ACPM Annual Meeting (May 23-26, 2017), Portland, OR. Poster Presentation.
53. Kihlberg C, Levine R, **Mejia de Grubb MC**, Nchako E, Ohara H, Etling M, Ekundayo E. A Brief Educational Intervention To Improve HBCU Medical Students' Knowledge And Intention To Address Nutrition Topics In Future Practice. ACPM Annual Meeting (May 23-26, 2017), Portland, OR. Poster Presentation.
54. Salemi J, Zoorob R, **Mejia de Grubb MC**, Gonzalez S, Wang M. Clinical and sociodemographic disparities in rates and temporal trends of depression in patients hospitalized with type II diabetes mellitus. Society of Teachers of Family Medicine. Annual Spring Conference (May 5-9, 2017), San Diego, CA. Oral Presentation.
55. **Mejia de Grubb MC**, Gonzalez S, Levine R, Zoorob R. Lung cancer screening guidelines in primary care: A survey on Knowledge of, Attitudes Toward, and Practices. Society of Teachers of Family Medicine. Annual Spring Conference (May 5-9, 2017), San Diego, CA. Poster Presentation.
56. Salemi J, **Mejia de Grubb MC**, Gonzalez S, Zoorob R. Opioid Use Disorders and 30-Day Inpatient Readmission Rates in the United States, 2013. Society of Teachers of Family Medicine. Annual Spring Conference (May 5-9, 2017), San Diego, CA. Oral Presentation.
57. Gonzalez S, Juneja M, Zoorob R, **Mejia de Grubb MC**, Harris J. Understanding primary care and psychiatry providers' experiences, beliefs, and perceived needs related to behavioral health integration. Society of Teachers of Family Medicine. Annual Spring Conference (May 5-9, 2017), San Diego, CA. Oral Presentation.
58. Salemi J, Spooner K, Aggarwal A, **Mejia de Grubb MC**, Matas J, Salihu H. Differences in the national trends of hepatitis B and hepatitis C during pregnancy across sociodemographic, behavioral, and clinical characteristics, United States, 1998-2011. APHA Annual Meeting (October 29- November 2, 2016), Denver, CO. Poster presentation
59. **Mejia de Grubb MC**, Salemi J, Levine R, Gonzalez S, Zoorob RJ. Alcohol-related Health Disparities among Hispanics in the US. Society of Teachers of Family Medicine. Annual Spring Conference (April 30-May 4, 2016), Minneapolis, MN. Oral Presentation
60. Wang H, **Mejia de Grubb MC**, Zoorob RJ. Utilization of Nutrition Counseling Services In a Family Medicine Practice: Towards The Integration Of Dietitians Into Primary Care. Society of Teachers of Family Medicine. Annual Spring Conference (April 30-May 4, 2016), Minneapolis, MN. Poster Presentation.
61. **Mejia de Grubb MC**, Salemi J, Levine R, Gonzalez S, Zoorob R. Disparities In Accuracy Of Maternal Perceptions Of Obesity Among Hispanic. ACPM Annual Meeting (February 24-27, 2016), Arlington, VA. Oral presentation.
62. **Mejia de Grubb MC**, Levine R, Gonzalez S, Zoorob RJ, Mkanta W. Community Engagement Approach to address Parental Perceptions of Their Children's Weight Status among Low-Income Hispanic Populations. APHA Annual Meeting (October 31- November 4, 2015), Chicago, IL. Poster presentation.
63. Levine R, **Mejia de Grubb MC**, Gittner L, Kilbourne B, Zoorob R. Implication of Race-Specific Hispanic or Latino Infant Mortality for Health in All Policies. APHA Annual Meeting (October 31- November 4, 2015), Chicago, IL. Poster presentation

64. Wang H, **Mejia de Grubb M**, and Zoorob R. Glycemic Control Among Private-Insured Patients with Diabetes in a Primary Care Setting: Characteristics and associated factors. APHA Annual Meeting (October 31- November 4, 2015), Chicago, IL. Oral presentation.
65. Gonzalez S, **Mejia de Grubb MC**, Zoorob R, Levine R. Using Geographic Information System (GIS) Technology to Inform Access to Primary Care/Behavioral Health Services. APHA Annual Meeting (October 31- November 4, 2015), Chicago, IL. Poster presentation.
66. Zoorob R, Gonzalez S, Snell H, **Mejia de Grubb MC**. Alcohol Screening and Brief Intervention in Primary Care: Strategies for Successful Implementation. APHA Annual Meeting (October 31- November 4, 2015), Chicago, IL. Poster presentation.
67. Gonzalez S, **Mejia de Grubb MC**, Zoorob R. Prevention and Wellness: The New Normal in Health Care Social Work? Council on Social Work Education (CSWE). 2015 Annual Program Meeting (October 15–18, 2015), Denver, CO. Discussion Group.
68. **Mejia de Grubb MC**, Zoorob RJ, Gonzalez S, Levine R. Primary Care Medicine Residents and Cancer related health disparities: A survey of knowledge, attitudes, and practice. Society of Teachers of Family Medicine. Annual Spring Conference (April 25-29, 2015), Orlando, FL. Scholastic Poster.
69. Gonzalez S, **Mejia de Grubb MC**, Zoorob RJ. Innovation in Family Medicine: The Use of Geographic Information Systems (GIS) to develop and enhance one Patient-Centered Medical Home's Integrated Care Model. Society of Teachers of Family Medicine. Annual Spring Conference (April 25-29, 2015), Orlando, FL. Scholarly Topic Roundtable Presentation.
70. Kihlberg, C, Levine, R, O'Hara H, Foderingham N, **Mejia de Grubb MC**, et al. Children Eating Well (CHEW) for Health: Nutrition Education Training Partnership between College of Agriculture and Preventive Medicine. APHA Annual Meeting (November 15-19, 2014), New Orleans, LA. Oral presentation.
71. Kihlberg, C, Levine, R, Foderingham N, **Mejia de Grubb MC**, Munro D, Emerson J, Husaini B. Nashville Children Eating Well (CHEW) for Health: Education Component Society of Nutrition Education and Behavior Conference, June 2014.
72. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Foderingham N, Levine RS. Demographic and geographic variations in drug-related mortality between Hispanic and non-Hispanic populations in the United States (US). ACPM Annual Meeting (February 19-22, 2014), New Orleans, LA. Poster presentation.
73. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Levine RS. Absence of the "Hispanic Paradox" for Assault Mortality. 141st APHA Annual Meeting (November 2-6, 2013), Boston, MA. Poster presentation.
74. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Levine RS. Demographic and Geographic Variations in Lung Cancer Mortality Among US Hispanics, 1999-2009. 141st APHA Annual Meeting (November 2-6, 2013), Boston, MA. Poster Presentation.
75. Levine RS, Kilbourne K, Robinson P, Kilbourne B, Skelton T, **Mejia de Grubb MC**, Hood D, Juarez P. Hot-spot analysis of malignant neoplasm of the trachea, bronchus and lung in the US. 141st APHA Annual Meeting (November 2-6, 2013), Boston, MA.
76. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Levine RS. Racial and Gender Differences in Colon and Recto-Sigmoid Cancer Mortality Between Hispanic and Non-Hispanic U.S. Residents, 1999-2009. 13th RCMI International Symposium on Health Disparities (December 10-13, 2012), San Juan, Puerto Rico. Poster presentation.
77. Foderingham N, **Mejia de Grubb MC**. Mapping Social Vulnerability to Chemical Hazards Using Geographic Information Systems as a Measure of Environmental Justice in Corpus Christi, Texas. 13th RCMI International Symposium on Health Disparities (December 10-13, 2012), San Juan, Puerto Rico. Poster presentation.
78. **Mejia de Grubb MC**, Kilbourne B, Kihlberg C, Levine RS. Demographic and Geographic Variations in Breast Cancer Mortality Among US Hispanics. 140th APHA Annual Meeting (October 27- October 31, 2012), San Francisco, CA. Abstract 265360. Oral Presentation: Presenter.

79. **Mejia de Grubb MC** and Grubb J. A Community Responds to a Natural Disaster: The Nashville Flood's Story Tellers. 139th APHA Annual Meeting (October 29 - November 2, 2011), Washington, DC. Abstract 242412. Poster presentation.
80. Mkanta, W., Lartey, G., **Mejia, M.**, Abrefa-Gyan, T., Singh, S., Ansari, H., Duncan, R. P. Duration of AIDS and Its Influence on Service Use for Serious Mental Illness, Anxiety and Sexual Disorders. Oral presentation at the 138th Annual American Public Health Association Meeting and Exposition. (November 6-10, 2011), Denver, CO.

TEACHING INFORMATION

FAU- COM

- **Foundations of Medicine 3- SCP** for M2. Fall 2025. Facilitator
- **FAU COM Medical Students Research & Scholarship Day.** Judge. February 14, 2025
- **Year 1 OSCE.** Class of 2028 OSCE Exam. December 9, 2024.
- **Foundations of Medicine 3- SCP** for M2. BMS 6017 001. Fall 2024. Facilitator
- **Summer Research Project.** Summer 2024

Curriculum Development Work

- **Community Engagement and Responsibility to Stakeholders**
GSBS Practical Skills in Translational Research Workshop – Facilitator/Developer
Dates: May 12, 2022; June 1, 2023 | Audience: GSBS students
Empowered graduate students to center community voices in research through equity-oriented, collaborative learning.
- **Lung Cancer Screening and Personalized Medicine**
Course Director/Developer | Date: February 10, 2023 | Audience: 120 CHWs
Addressed stigma and introduced evidence-based early detection practices and precision medicine concepts.
- **Myths and Facts about COVID-19 Vaccines**
Course Director/Developer | Date: August 13, 2022 | Audience: 200 CHWs
Combatted misinformation and promoted accurate vaccine education.
- **Together We Can: Cancer Awareness, Screening & Prevention**
Course Director/Developer | Date: September 13, 2022 | Audience: 100+ CHWs and community members. Addressed barriers and promoted screening for breast, colon, cervical, and lung cancers.
- **Vaccine Hesitancy and the Role of CHWs**
Course Director/Developer | Date: March 4, 2022 | Audience: 300+ CHWs
Empowered CHWs to promote vaccine uptake in historically hesitant communities.
- **American Board of Preventive Medicine Practice Analysis Panel**
Expert Contributor | Date: February 17, 2022
Participated in core competency updates for national certification in preventive medicine.
- **BCM Buprenorphine Education Among Residents and Students (BEARS)**
Core Contributor/Expert Faculty | Dates: 2020–2022
Provided SUD clinical training to medical students and residents, ensuring completion of DATA waiver requirements.
- **Addiction Medicine Elective – BCM**
Core Contributor/Developer | Dates: 2021–present | Audience: 3rd–4th Year Medical Students
Delivered comprehensive clinical exposure to SUD care across diverse patient populations.
- **Bringing Alcohol and Other Drug Research to Primary Care**
Co-Investigator/Developer | Dates: 2021–2023 | Audience: 645 PCPs
Designed a 6-module, CME/CEU-approved, interactive training on evidence-based SUD care.

- **Buprenorphine Education for BCM Medical Students**
Core Contributor | Dates: 2018–2020
Led curricular integration of SBIRT and DATA waiver training.
- **Self-Care Assessment Curriculum for CHWs**
Course Director/Developer | Date: May 17, 2021 | Audience: 100 CHWs
Promoted long-term self-care strategies to reduce burnout among frontline workers.
- **Smoking Cessation & Lung Cancer Screening: Shared Decision Making**
Course Director | Date: May 11, 2019 | Audience: 250 Primary Care Providers
Accredited for 3.5 AAFP CME credits.

FACULTY DEVELOPMENT & CONTINUING MEDICAL EDUCATION

- *Addiction as a Chronic Disease: Practical Approaches to Managing Opioid Use Disorder in Medical Settings*. Baptist Health. Grand Rounds. (10/21/25)
- *Methadone Matters: Clinical and Regulatory Perspectives to Bridge Care in Florida*. Florida Society of Addiction Medicine. Annual Summit 2025. Orlando, FL
- *Lung Cancer Screening: Who, When, and How?* – Ambulatory Care Services Grand Rounds, Harris Health System (04/18/2023)
- *PCSS: The Half and Half Course (Buprenorphine Training)* – Presenter (04/13/2023)
- *Addiction, Opioid Misuse, and At-Risk Patients* – Geriatric & Palliative Medicine Grand Rounds, UT Health San Antonio (04/06/2023)
- *Vaping in the LGBTQ+ Community and Lung Cancer Screening* – Breathe With Pride Coalition Meeting (04/13/2023)
- *Harris Health Lung Cancer Screening Program* – Aldine Clinic Staff Meeting (04/21/2023)
- *Harris Health Lung Cancer Screening Program* – Squatty Lyons CHC Provider/Manager Meeting (04/20/2023)
- *Implementation of the Lung Cancer Screening Program at Harris Health* – American Cancer Society Executive Leadership Meeting (01/27/2023)
- *Shared Decision-Making: Integrating Lung Cancer Screening into Tobacco Treatment & Cessation* – Project TEACH ECHO, MD Anderson (12/13/2022)
- *Opioid Misuse and OUD in Older Adults: Screening, Management, and Challenges* – Geriatric & Palliative Medicine Grand Rounds, UT Health San Antonio (01/06/2022)
- *Conversatorio: Juntos Contra El Cáncer* – Panelist, Guatemalan Consulate Event (08/31/2021)
- *Lung Cancer Screening & Tobacco Cessation Training for Navigators and Counselors* – Developer & Presenter, various sessions (2018–2020)
- *Shared Decision-Making Tools for Lung Cancer Screening* – Family Medicine Grand Rounds, Baylor College of Medicine (08/14/2018)
- *IRB Do's and Don'ts: Educational Faculty Mentorship Seminar* – Baylor College of Medicine, Dept. of Faculty Development (2018)
- *Smoking Cessation and Lung Cancer Screening Shared Decision-Making (3.5 AAFP CME)* – Department of Family and Community Medicine, Baylor College of Medicine (05/11/2019)
- *FASDs and Alcohol Screening & Brief Intervention* – St. Joseph Hospital, Chicago, IL (05/23/2018)
- *FASDs and Alcohol Screening & Brief Intervention* – Valley Family Medicine Residency, Modesto, CA (04/11/2018)
- *FASDs and Alcohol Screening & Brief Intervention* – LSU Rural Family Medicine Residency, Bogalusa, LA (02/16/2018)
- *ABHI: Advanced Behavioral Health Integration in Primary Care* – Harris Health System Leadership Team Member (2017)
- *Clinical Preventive Services in Family Medicine* – Visiting Chinese Primary Care Fellows, BCM (05/16/2017)

- *Clinical Prevention* – Visiting Chinese Primary Care Fellows, BCM (10/21/2016)
- *Medical Quality Management* – Visiting Chinese Primary Care Fellows, BCM (10/25/2015)

Other Works Communicating Research Results to the General Public

- *Substance Use Prevention in At-risk Youth*. WLRN, the NPR-station for South Florida. 10/16/25
- *Chatbots the New ‘Doc?’ Exploring AI in Health Behavior Coaching*.
<https://www.fau.edu/newsdesk/articles/chatbots-new-doc-behavior-coaching> (10/1/25)
- *Breathe Easy: Expert Tips for Maintaining Lung Health*, FAU Schmidt College of Medicine (11/2024)
- *Teen Suicide: Mental Health in Youth*, Interview with WEAR News 3, NW Florida (10/25/2024)
- *Alarming Rise of Electronic Vaping Use in American Teens*, Interview with Bloom TV, Tampa Bay (10/22/2024)
- *Octubre Sobrio*, Univision (10/16/2023)
- *We Can All Be Citizen and Community Scientists!*, RCMi CEC Magazine, English and Spanish (09/2023)
- *Heat Illness*, BCM social media campaign / YouTube Shorts (08/2023)
Reconocer los peligros de las enfermedades causadas por el calor, Univision (06/12/2023)
- *Recognizing the Stages of Heat Illness*, e-ROUNDS, Baylor College of Medicine (06/09/2023)
- *Vaccination Toolkit*, National Hispanic Medical Association (2022–2023). *Toolkit to support Hispanic healthcare professionals in improving vaccination uptake across key U.S. cities*.
- *Healthy Habits for Traveling*, Univision (01/05/2023)
- *Is Your Kid's Runny Nose Going on Forever?* Children's Hospital of the King's Daughter 12/24/2022)
- *Young Children Get 6 to 8 Viruses a Year*, Click2Houston (12/19/2022)
- *Mide las porciones que consumes: consejos navideños*, Univision (12/15/2022)
- *Should We Wear Masks During the Holidays?*, KPRC 2 News (12/14/2022)
- *Understanding Your Child's Runny Nose*, Baylor College of Medicine News (12/12/2022)
- *Hablando entre nos: Vacunación e Influenza*, Facebook Live – Día de la Mujer Latina (12/10/2022)
- *Hablando entre nos: Abuso de Substancias*, Facebook Live – Día de la Mujer Latina (10/01/2022)
- *Health Equity Tour: COVID-19 Vaccine Myths & Facts*, Fiesta de la Salud, Chicago, IL (08/13/2022)
- *How to Stay Safe During Texas Summers*, Fort Worth Star-Telegram (07/14/2022)
- *Beat the Heat and Heat-Related Illness*, e-ROUNDS, Baylor College of Medicine (07/13/2022)
- *Lung Cancer Screening: One Scan Can Save Your Life*, RCMi CEC Magazine (Spring 2022)
Seasonal Allergies vs. COVID-19, Univision-Houston (03/17/2022)
- *COVID-19 and Omicron Variant*, KTSU Radio, Houston, TX (02/05/2022)
- *Impact of COVID-19 in the Hispanic Community*, La Nueva 94.1 FM, Houston (08/31/2021)
- *SARS-CoV-2 Prevalence in Houston Study*, Univision-Houston (04/21/2021)
- *How Masks Help with Allergies*, Univision-Houston (04/08/2021)
- *Women's Health Awareness*, Telemundo-Houston (03/05/2021)
- *Safe to Gather During Holidays*, Telemundo-Houston (12/29/2020)
- *Baylor's Position on Youth Smoking and Vaping*, Telemundo-Houston (08/27/2019)

CURRICULUM VITAE

Mahyar Nouri-Shirazi, D.V.M., Ph.D.

INSTITUTIONAL AFFILIATION Florida Atlantic University
Charles E. Schmidt College of Medicine
Department of Medicine

CONTACT INFORMATION Florida Atlantic University
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Boca Raton, FL 33431
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EDUCATION / EMPLOYMENT HISTORY

ACADEMIC DEGREES

1996 Ph.D., Immunology
Chiba University, School of Medicine,
Chiba, Japan

1992 D.V.M., Doctor of Veterinary Medicine, 6 years' course
Tottori University, School of Veterinary Medicine
Tottori, Japan

ACADEMIC APPOINTMENTS

2024-present Interim Associate Dean of Faculty Affairs, Charles E. Schmidt College of Medicine, Florida Atlantic University

2017-present Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2011-2017 Associate Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2008-2011 Assistant Professor, Charles E. Schmidt College of Medicine, Florida Atlantic University

2008-2011 Affiliated Assistant Professor of Microbiology & Immunology, University of Miami Miller School of Medicine

2008-2017 Director of Flow Cytometry Core Facility, Charles E. Schmidt College of Medicine, Florida Atlantic University

2005-2008 Adjunct Assistant Professor, Baylor University, Texas

2001-2008	Assistant Professor, Texas A&M University System Health Science center, Baylor College of Dentistry, Texas
1998-2001	Senior Research Scientist Fellow, Baylor Institute for Immunology Research, Texas
1996-1998	Research Scientist, Bayer Pharmaceutical Ltd, Research Center Kyoto, Division of Autoimmunity. Kyoto, Japan
1994-1996	Research Scientist, Columbia University, College of Physician and Surgeons, Department of Microbiology. New York, NY

ACADEMIC COURSES TAUGHT

COURSES TAUGHT

2020-2023	Medical Post-Baccalaureate Program	FAU-COM PCB6238
2017-2024	Fundamental Topics in Human Health (<i>Lecturer</i>)	FAU-COM PCB 6933
2012-present	Pathophysiology & Therapeutic 4: Infectious, hematological and immunological diseases (<i>Course Director</i>)	FAU-COM BMS 6544
2012-2014	Pathophysiology & Therapeutic 1 (<i>PBL facilitator</i>)	FAU-COM BMS 6541
2012-present	Institutional Competency Assessment (Facilitator)	FAU-COM ICA
2011-2013	Host Defense and Inflammation (<i>Lecturer</i>)	FAU-COM PCB 6933 002
2011-2015	Immunology Seminars (<i>Organizer</i>)	FAU-COM PCB 6905 022
2010-present	Directed Independent Study	FAU-COM PCB 6905 014
2010-present	Problem-Based Immunology (<i>Course Director</i>)	FAU-COM PCB 6238 001
2009-present	Fundamentals of Biomedical Science (<i>Lecturer</i>)	FAU-COM FBS1&2&3
2008-present	Fundamentals of Biomedical Science (<i>PBL Facilitator</i>)	FAU-COM FBS1&2&3
2007	Immunology Institute of Biomedical Sciences Baylor University (<i>Lecturer</i>)	BAYLOR 5302

2006	Immunology Institute of Biomedical Sciences Baylor University (<i>Lecturer</i>)	BAYLOR	5100
2004-2007	Immunology I (<i>Course Director</i>)	TAMUSHSC	5251
2004-2007	General Histology (<i>Lecturer</i>)	TAMUSHSC	6600
2002-2004	Oral Microbiology/Immunology (<i>Lecturer</i>)	TAMUSHSC	5350
2002-2007	Microbiology/Immunology Lab (<i>Lecturer</i>)	TAMUSHSC	6740
2002-2003	Microbiology/Immunology (<i>Lecturer</i>)	TAMUSHSC	3430
2001-2004	Cellular and Molecular biology (<i>Lecturer</i>)	TAMUSHSC	15V40

SUPERVISION OF GRADUATE STUDENTS

2019-2023	Czdari Lee – Medical student, Charles E. Schmidt College of Medicine Project title: Preexisting Immune Memory to Childhood Immunization Role: Mentor • <i>1st place in the Health and Life Sciences division</i> • <i>Chosen to do an NPR radio interview on the poster</i> • <i>Chosen to be Student Spotlight in Graduate College Newsletter</i> • <i>People's Choice Award- Master's Category</i> • <i>People's Choice Award- Master's Category</i> • <i>2nd place winner for Poster Presentation</i>
2017-2018	Zack Ramilevich – Medical student, Charles E. Schmidt College of Medicine Project title: Contribution of host immune cells to xenograft rejection Role: Mentor
2016-2017	Gilles Zribi - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Current and future approaches to cancer immunotherapy Role: Mentor
2015	Tyler Anderson - Medical student, Charles E. Schmidt College of Medicine Project title: Immune surveillance towards cancer cells Role: Mentor
2015	Trevor Kauffmann - Medical student, Charles E. Schmidt College of Medicine Project title: Immune surveillance towards cancer cells Role: Mentor
2015	Anthony Cavalieri - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Current and future approaches to cancer immunotherapy Role: Mentor

2014	Amanda Hanvivatpong - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Human dendritic cell response to TLR agonists Role: Mentor
2013-2015	Saba Tamjidi - Master's program Charles E. Schmidt College of Medicine Project title: Human DC-NK cross talk in response to TLR agonists Role: Mentor • <i>Awarded first place at the 17th Annual Biomedical and Comparative Immunology Symposium, Florida International University</i>
2013-2015	Brittany Bible - Master's program Charles E. Schmidt College of Medicine Project title: Characterization of bottlenose dolphins' dendritic cells and their response to environmental stressors. Role: Mentor
2013	Natalie Israel - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Human dendritic cell response to immunological adjuvants Role: Mentor
2013-2015	Menghua Zeng MD/PhD - Postdoctoral Fellow, Charles E. Schmidt College of Medicine Project title: Improving current and future vaccines using TLR agonists Role: Mentor
2011-2013	Kevin Lang - Ph.D program Charles E. Schmidt College of Science Project title: Impact of nicotine on innate immune cells response to TLR agonists Role: Mentor
2011	Mary Goodyear - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Current progress in organ transplantation research Role: Mentor
2010	Lauren Andreolas - Master's Degree in Biomedical Science program, Directed Independent Study Project title: The impact of nicotine on host immunity Role: Mentor
2010	Michael Baratta - Master's Degree in Biomedical Science program, Directed Independent Study Project title: Overview of immunological tolerance Role: Mentor
2007	Ambereen Ansari - DDS program, Summer Research Training Program Project title: Nicotine affects anti-tumor immunity elicited by therapeutic vaccine

Role: Mentor

- 2006 Peter Nishino - DDS program, Summer Research Training Program
Project title: Host response to nicotine-exposed dendritic cells
Role: Mentor
- *Awarded first place at the 2007 BCD research day and the Johnson & Johnson 2007 research award*
- 2006 Christopher R. Kahlden - DDS program, Summer Research Training Program
Project title: Expression of Notch ligands on nicotine-exposed human dendritic cells.
Role: Mentor
- *Awarded third place at the 2007 BCD research day*
- 2006 Shankar R. Venugopalan - DDS/Ph.D program, Baylor College of Dentistry
Project title: Expression of Notch ligands on nicotine-exposed human dendritic cells
Role: Mentor
- 2006 Lindsay D. Butcher BS, MS - PhD program in BMS/Baylor University, Waco
Project title: Expression of Notch ligands on nicotine-exposed human dendritic cells
Role: Mentor
- 2006-2008 Menghua Zeng MD - Postdoctoral Fellow
Project title: Development of a clinically applicable strategy to prolong graft survival
Role: Mentor
- 2005 Rosa Tinajero - DDS program, Summer Research Training Program
Project title: The impact of nicotine on dendritic cell differentiation
Role: Mentor
- *Awarded second place at the 2006 BCD research day*
- 2005-2006 Daohu Wang MD, PhD - Postdoctoral Fellow
Project title: Therapeutic potential of dendritic cells for the induction of tolerance
Role: Mentor
- 2005-2006 Akilla Neeraja BS, MS - PhD program in BMS/Baylor University, Waco
Project title: Effects of nicotine on host immunity and cancer vaccine
Role: Mentor
- 2004 Parinaz Sekandari BS - Research Assistant
Project title: Effects of nicotine on host immunity and cancer vaccine.
Role: Mentor

2002-2003 Keiichiro Yoshida MD, PhD - Research Scientist
Project title: The Impact of nicotine on dendritic cells and host immunity
Role: Mentor

2001-2003 Paul Ezzo DDS, PhD - Research Assistant Professor
Dendritic Cells & Actinobacillus Actinomycetemcomitans
K23 DE00-469-01/NIH-NIDCR
Role: Mentor

SUPERVISION OF UNDERGRADUATE STUDENTS

2023 Mia Johnson - Undergraduate student, Directed Independent Study
Project title: Assessment of Existing Immunity to the New COVID-19 Vaccine
Antigen SARS-CoV-2
Role: Mentor

2021- Sara Thoma - Undergraduate student, Directed Independent Study
Project title: Assessment of Existing Immunity to the New COVID-19 Vaccine
Antigen SARS-CoV-2
Role: Mentor

- *People's Choice Award- Master's Category*
- *2nd place winner for Poster Presentation*
- *2nd place in the Health and Medical Sciences division*

2019- Imtisal Imran - Undergraduate student, Directed Independent Study
Project title: Monitoring immune status to childhood immunizations
Role: Mentor

- *Chosen to do an NPR radio interview on the poster*
- *Chosen to be Student Spotlight in Graduate College Newsletter*
- *People's Choice Award- Master's Category*
- *2nd place winner for Poster Presentation*
- *1st place in the Health and Medical Sciences division*

2018 Stephanie Eliassin - Undergraduate student, Directed Independent Study
Project title: Contribution of Immune Cells in Direct and Indirect Alloreactivity
Role: Mentor

2017-2019 Lisa Vector - Undergraduate student, Directed Independent Study
Project title: Contribution of immune cells in xenograft rejection
Role: Mentor

- *Awarded second place at the 2018 Autumn Immunology Conference for best undergraduate poster presentation*
- *Awarded 2019 undergraduate researcher of the year for the College of Medicine*

2016-2018 Haley Katz - Undergraduate student, Directed Independent Study
Project title: Immune surveillance of autologous and allogeneic tumors
Role: Mentor

- *Awarded 2018 undergraduate researcher of the year for the College of Medicine*

2015-2016 Emily Abu-Nuwar - Undergraduate student, Directed Independent Study
Project title: Human dendritic cell response to TLR agonists
Role: Mentor

SUPERVISION OF HIGH SCHOOL STUDENTS

2015 Bao-Anh Nguyen - High School student
Project title: The relationship between harvesting sites and the extraction of stem cells
Role: Mentor

2018 Jaclyn Levine – High School student
Project title: Immune response to allograft
Role: Mentor

ADVISING ACTIVITIES

2023- Heather Butler - Ph.D program Charles E. Schmidt College of Science
Project title: Characterizing the specific and combined impact of IL-1 β and matrix metalloproteinase-9 in neutrophils using an animal model of Multiple Sclerosis
Advisor: Dr. Gregg Fiels
Role: Thesis Committee Member

2023-2024 Homan Rahbar - Masters program Florida Atlantic University Charles E. Schmidt College of Science
Project title: The Role of Endothelial c-Myc in Cardiac Dysfunction
Advisor: Dr. Claudia Rodrigues
Role: Thesis Committee Member

2011-2016 Ramon Garcia-Areas - Ph.D program Charles E. Schmidt College of Science
Project title: Exploring the novel role of Semaphorin7A in breast cancer
Advisor: Dr. Vijaya Iragavarapu
Role: Thesis Committee Member

2012-2013 Duniel Viera - Masters program Florida Atlantic University
Project title: Phytotherapeutic Potential of Genistein-Vitamin D combination in Prostate Cancer cells
Advisor: Dr. J. Kumi-Diaka
Role: Thesis Committee Member

2010-2015 Stephania Libreros - Ph.D program Charles E. Schmidt College of Science
Project title: Investigating the role of CHI3L1 in promoting tumor growth and metastasis using a mammary tumor model
Advisor: Dr. Vijaya Iragavarapu
Role: Thesis Committee Member

2010-2014	Rebecca Leon - Ph.D program Charles E. Schmidt College of Science Project title: The role of BH3-only protein BimEL in the pathogenesis of Huntington's Disease Advisor: Dr. Jianning Wei Role: Thesis Committee Member
2010-2013	Amjad Munim MD - Ph.D program Charles E. Schmidt College of Science Project title: Effects of vitamin D in Asthma Advisor: Dr. James Hartmann Role: Thesis Committee Member
2010-2013	Ozge Oztan - Ph.D program Charles E. Schmidt College of Medicine Project title: Implications of epigenetic and hippocampal structural plasticity. Advisor: Dr. Ceylan Isgor Role: Thesis Committee Member
2010-2011	Safinaz Mostafa - M.S program Charles E. Schmidt College of Medicine Project title: The effect of sex hormone and genetics on the pathogenesis of Sjorgen Syndrome. Advisor: Dr. Ana-Maria Azzarolo Role: Thesis Committee Member
2010-2013	Anna Kats - Ph.D program Charles E. Schmidt College of Science Project title: Studies of the mechanisms involved in the hydrolytic activity of ssDNA abzymes present in Lupus Erythematosus. Advisor: Dr. James Hartmann Role: Thesis Committee Member
2010-2011	Kevin Lang - Ph.D program Charles E. Schmidt College of Science Project title: Innate Immune System Activation in GcMAF Immunotherapy for Chronic Lymphocytic Leukemia Advisor: Dr. James Hartmann Role: Thesis Committee Member
2004	Julia Chang DDS - Resident BMS/Oral Pathology program, Baylor College of Dentistry Project title: Role of epithelial-mesenchymal transition in oral cancer progression Role: Thesis Committee Member
2003-2007	Ingrid Proenca - DDS/MS in BMS/Oral Pathology program, Baylor College of Dentistry Project title: The effects of Sanguinarine on oral epithelial cell proliferation and apoptosis Advisor: Dr. John Wright Role: Thesis Committee Member
2002-2006	Joe Rawlins - DDS/PhD program, Baylor College of Dentistry

Project Title: The flow cytometry analysis of Tgf genes expression in rat coronal sutures

Advisor: Dr. Lynne Opperman

Role: Thesis Committee Member

SCHOLARSHIP / RESEARCH / CREATIVE ACTIVITY

PUBLICATIONS IN PRINT

- 2024 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. A comprehensive method for the phenotypical and functional characterization of recalled human memory B and T cells specific to vaccine antigens. Journal of Immunological Methods. 2024 February 527
- 2022 Nouri-Shirazi M, Guinet E. TLR3 and TLR7/8 agonists improve immunization outcome in nicotine exposed mice through different mechanisms. Immunol Lett. 2022 Jun; 246:18-26.
- 2022 Zhou J, Nouri-Shirazi M, Tang H, Shen Y, Zeng M. R848/TLR7-Mediated Stronger CD8+ T Immunity Is Dependent on DC-NK Cell Interactions. Int Arch Allergy Immunol. 2022 Mar 9:1-16.
- 2021 Katz H, Victor L, Guinet E, Nouri-Shirazi M. Human T cells show plasticity for direct recognition of xenogeneic dendritic cells. Immunol Lett. 2022 August: 248: 90-95
- 2020 Katz H, Victor L and Nouri-Shirazi M. Human Immune Cells Directly Recognize Xenogeneic MHCs. FAURJ 2019
- 2019 Nouri-Shirazi M, Katz H, and Victor L. Human Immune Cells Directly Recognize Xenogeneic MHCs. Abstract 846 (69.18) Immunology 2019 May 9-13, 2019 San Diego, California
- 2018 Nouri-Shirazi M, Tamjidi S, Nourishirazi E, and Elisabeth Guinet. Combination of TLR8 and TLR4 agonists reduces the degrading effects of nicotine on DC-NK mediated effector T cell generation. INTERNATIONAL IMMUNOPHARMACOLOGY 61 (2018) 54-63
- 2018 Nouri-Shirazi M, Tamjidi S, Nourishirazi E, and Elisabeth Guinet. TLR8 combined with TLR3 or TLR4 agonists enhances DC-NK driven effector Tc1 cells. IMMUNOLOGY LETTERS 193 (2018) 58-66
- 2018 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. Combination of TLR8 and TLR4 agonists reduces the degrading effects of nicotine on DC-NK mediated effector T cell generation. The JOURNAL OF IMMUNOLOGY. Abstract VAC.1255 May 2018

- 2017 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. TLR8/7 combined with TLR3 or TLR4 enhances DC-NK driven effector T cells THE JOURNAL OF IMMUNOLOGY Abstract 2328 May 2017
- 2017 Bible B, Zeng M, Bossart G. and Nouri-Shirazi M. Phenotyping and comparing the immune cell populations of free-ranging Atlantic bottlenose dolphins (*Tursiops truncatus*) and dolphins under human care. BMC VETERINARY RESEARCH Volume: 13 Issue: 1 Pages 78-92 Mar 27, 2017
- 2016 Zeng M, Nourishirazi E, Guinet E, and Nouri-Shirazi M. Genetic background influences the cellular and humoral immune responses to vaccines. CLINICAL AND EXPERIMENTAL IMMUNOLOGY Volume: 186 Issue: 2 Pages 190–204 Nov 2016
- 2016 Zeng M, Nourishirazi E, Guinet E, and Nouri-Shirazi M. Genetic background influences the humoral responses to vaccines. EUROPEAN JOURNAL OF IMMUNOLOGY Volume: 46 Supplement 1 Number 1344 August 2016
- 2016 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. Selected TLR agonists act in synergy to reprogram DC-NK cross-talk and generate effector T cells in nicotinic environment. THE JOURNAL OF IMMUNOLOGY May1, 2016 vol. 196 no.1 Supplement 215.17
- 2016 Nouri-Shirazi M, Abu-Nuwar E, and Nourishirazi E. Genetic background influences the Cellular and humoral responses to vaccines. THE JOURNAL OF IMMUNOLOGY May1, 2016 vol. 196 no.1 Supplement 215.16
- 2015 M. Nouri-Shirazi, C. Kahlden, P. Nishino, and E. Guinet. Nicotine Exposure Alters the mRNA Expression of Notch Ligands in Dendritic Cells and Their Response to Th1-/Th2-Promoting Stimuli. SCANDINAVIAN JOURNAL OF IMMUNOLOGY 81(2): 110-120 FEB 2015
- 2014 Nouri-Shirazi M, Bible B, Zeng M, Tamjidi S and Bossart G. Characterizing Immune Cells of Atlantic Bottlenose Dolphins. JOURNAL OF IMMUNOLOGY 2014 192:1 Suppl. 1
- 2014 Nouri-Shirazi M, Zeng M, Bible B, Tamjidi S. Genetic background influences the NK recruitment and Th1 polarization in response to TLR agonists. JOURNAL OF IMMUNOLOGY 2014 192:1 Suppl. 1
- 2012 Nouri-Shirazi M and Guinet E. Exposure to nicotine adversely affects the dendritic cell system and compromises host response to vaccination. THE JOURNAL OF IMMUNOLOGY 188 (5): 2359-70 MAR 2012
- 2012 Nouri-Shirazi M, Nourishirazi E, Lang K, and Guinet E. Candidate adjuvant restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. JOURNAL OF IMMUNOLOGY 188 MAY 2012

- 2012 Shibata Y, Kogiso M, Huang CJ, Nouri-Shirazi M, Mizoguchi E, Dorsey CK. Macrophage chitin binding proteins in phagocytosis and M1 activation in response to chitin microparticles. JOURNAL OF IMMUNOLOGY 188 MAY 2012
- 2011 Kogiso M, Nishiyama A, Shinohara T, Nakamura M, Mizoguchi E, Misawa Y, Guinet E, Nouri-Shirazi M, Dorey CK, Henriksen RA, Shibata Y. Chitin particles induce size-dependent but carbohydrate-independent innate eosinophilia. JOURNAL OF LEUKOCYTE BIOLOGY 90 (1): 167-76 JUL 2011
- 2009 Zeng MH, Guinet E, Nouri-Shirazi M. Comparative analysis of dendritic cells and anti-CD3/CD8 expanded regulatory T cells for application in transplantation. TRANSPLANT IMMUNOLOGY 22 (1-2): 82-92 2009
- 2009 Zeng M, Guinet E, Nouri-Shirazi M. B7-1 and B7-2 differentially control peripheral homeostasis of CD4(+)CD25(+)Foxp3(+) regulatory T cells. TRANSPLANT IMMUNOLOGY 20 (3): 171-179 2009
- 2008 Nouri-Shirazi M, Zeng MH, Guinet E. Dendritic cells and anti-CD3/CD28 expand naturally occurring regulatory T cells with different magnitude and nature. AMERICAN JOURNAL OF TRANSPLANTATION 8: 418-418 2008
- 2008 Zeng M, Guinet E, Nouri-Shirazi M. Dendritic cells (DCs) have a clinical advantage over anti-CD3/CD28 antibodies (Abs) for expansion of naturally occurring regulatory T cells (Tregs). FASEB JOURNAL 22 APR 2008
- 2008 Zeng M, Guinet E, Nouri-Shirazi M. B7-1 and B7-2 contribute unequally to peripheral homeostasis of regulatory T cells (Tregs). FASEB JOURNAL 22 APR 2008
- 2008 Nouri-Shirazi M, Guinet E, Zeng M. Nicotine impairs cancer vaccines. FASEB JOURNAL 22 APR 2008
- 2008 Nouri-Shirazi M, Zeng M, Guinet E. Dendritic cells and anti-CD3/CD28 expand naturally occurring regulatory T cells with different magnitude and nature. AMERICAN JOURNAL OF TRANSPLANTATION 8 S2: 418-418 MAY 2008
- 2008 Kahlden CR, Nishino P, Guinet E, Nouri-Shirazi M. Nicotine affects immunity by changing the expression of Notch ligands on dendritic cells. JOURNAL OF DENTAL RESEARCH A0062 2007
- 2007 Nouri-Shirazi M, Tinajero R, Guinet E. Nicotine alters the biological activities of developing mouse bone marrow-derived dendritic cells (DCs). IMMUNOLOGY LETTERS 109 (2): 155-164 APR 15 2007
- 2007 Nouri-Shirazi M. Dendritic cells in transplant tolerance. IRANIAN JOURNAL OF IMMUNOLOGY 4 (1): 1-14 FEB 2007

- 2007 Kahlden CR, Nishino P, Guinet E, Nouri-Shirazi M. Nicotine affects immunity by changing the expression of Notch ligands on dendritic cells. JOURNAL OF DENTAL RESEARCH A0062 2007
- 2007 Nouri-Shirazi M, Guinet E, Zeng M. Nicotine affects antigen-specific immune responses both in vitro and in vivo. THE JOURNAL OF IMMUNOLOGY Abstract #178, B211 MAY 2007
- 2006 Nouri-Shirazi M, Thomson AW. Dendritic cells as promoters of transplant tolerance. EXPERT OPINION ON BIOLOGICAL THERAPY 6 (4): 325-339 APR 5 2006
- 2006 Nouri-Shirazi M, Guinet E. A possible mechanism linking cigarette smoke to higher incidence of respiratory infection and asthma. IMMUNOLOGY LETTERS 103 (2): 167-176 MAR 15 2006
- 2006 Nouri-Shirazi M, Guinet E, Tinajero R. Nicotine alters the biological activities of developing mouse dendritic cells. JOURNAL OF IMMUNOLOGY 176: S294-S294 2006
- 2006 Nouri-Shirazi M, Kusek J, Tinajero R, Guinet E. Nicotine endows developing mouse dendritic cells with Th2-promoting capacity. CLINICAL IMMUNOLOGY 119: S199-S199 2006
- 2005 Nouri-Shirazi M, Guinet E, Sekandari P. The dynamics of Th1/Th2 priming in smokers may depend on the nature of DCs and their response to tissue-type factors. FASEB JOURNAL 19 (5): A1412-A1412 2005
- 2005 Tinajero R, Guinet E, Nouri-Shirazi M. Nicotine affects the immunoregulatory function of dendritic cells. JOURNAL OF DENTAL RESEARCH A75365 2005
- 2004 Guinet E, Yoshida K, Nouri-Shirazi M. Nicotinic environment affects the differentiation and functional maturation of monocytes derived dendritic cells (DCs). IMMUNOLOGY LETTERS 95 (1): 45-55 AUG 15 2004
- 2004 Nouri-Shirazi M, Guinet E. IFN-gamma switches incompetent dendritic cells (DCs) differentiated in a nicotinic environment to competent Th1 polarizing DCs. FASEB JOURNAL 18 (4): A437-A437 2014
- 2004 Nouri-Shirazi M, Guinet E. In nicotinic environment monocytes differentiate into incompetent Th1 polarizing dendritic cells (DCs). FASEB JOURNAL 18 (4): A426-A426 2014
- 2003 Nouri-Shirazi M, Guinet E. Evidence for the immunosuppressive role of nicotine on human dendritic cell functions. IMMUNOLOGY 109 (3): 365-373 JUL 2003
- *Recommended by Stella C. Knight in The Faculty of 1000 Biology: New Finding*
 - *Commented by Nancy Hogg the editor of the Immunology Journal*

- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Nicotine skews the differentiation of monocytes to dendritic cells (DCs) incapable of triggering type-1 effector memory T cells. FASEB JOURNAL 17 (7): C310-C310 2003
- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Impact of nicotinic environment on monocyte to dendritic cells (DCs) differentiation. FASEB JOURNAL 17 (7): C200-C200 2003
- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Nicotine skews the differentiation of monocytes to dendritic cells (DCs). JOURNAL OF DENTAL RESEARCH 82 (SI:B): B219-B219 JUN 2003
- 2002 Nouri-Shirazi M, Guinet E. Direct and indirect cross-tolerance of alloreactive T cells by dendritic cells retained in the immature stage. TRANSPLANTATION 74 (7): 1035-1044 OCT 15 2002
- 2002 Nouri-Shirazi M, Guinet E. A defective role in type-1 T helper (T(H)1) cell differentiation by dendritic cells (DCs) exposed to nicotine. FASEB JOURNAL 16 (4): A717-A717 Part: 1 MAR 2002
- 2002 Rawlins JT, Nouri-Shirazi M, Opperman LA. Tgf- beta 2 down regulates Twist and up regulates Fgfr2 in rat coronal sutures in vitro. FASEB JOURNAL 16 (5): A752-A753 Part: 2 MAR 2002
- 2002 Nouri-Shirazi M, Guinet E. Direct-, and indirect cross-tolerance of alloreactive T cells by dendritic cells (DCs) retained in immature stage. FASEB JOURNAL 16 (5): A1031-A1031 Part: 2 MAR 2002
- 2002 Nouri-Shirazi M, Guinet E. Nicotine hampers type-1 cell-mediated immunity through down-regulation of IL-12 production by dendritic cells. JOURNAL OF DENTAL RESEARCH 81 (SI): A119-A119 MAR 2002
- 2001 Jotwani R, Palucka AK, Al-Quotub M, Nouri-Shirazi M, Kim J, Bell D, Banchereau J, Cutler CW. Mature dendritic cells infiltrate the T cell-rich region of oral mucosa in chronic periodontitis: In situ, in vivo, and in vitro studies. JOURNAL OF IMMUNOLOGY 167 (8): 4693-4700 OCT 15 2001
- 2000 Berard F, Blanco P, Davoust J, Neidhart-Berard E, Nouri-Shirazi M, Taquet N, Rimoldi D, Cerottini JC, Banchereau J, Palucka AK. Cross-priming of naive CD8 T cells against melanoma antigens using dendritic cells loaded with killed allogeneic melanoma cells. JOURNAL OF EXPERIMENTAL MEDICINE 192 (11): 1535-1543 DEC 4 2000
- 2000 Nouri-Shirazi M, Banchereau J, Bell D, Burkeholder S, Kraus ET, Davoust J, Palucka KA. Dendritic cells capture killed tumor cells and present their antigens to elicit tumor-specific immune responses. JOURNAL OF IMMUNOLOGY 165 (7): 3797-3803 OCT 1 2000

- 2000 Nouri-Shirazi M, Banchereau J, Fay J, Palucka K. Dendritic cell based tumor vaccines. IMMUNOLOGY LETTERS 74 (1) SI: 5-10 SEP 15 2000
- 2000 Palucka K, Nouri-Shirazi M, Blanco P, Berard F, Neldhart-Berard E, Burkeholder S, Kraus E, Davoust J, Banchereau J. Dendritic cells capture tumor cell bodies and process/present their antigens to elicit tumor-specific immune responses. JOURNAL OF INVESTIGATIVE DERMATOLOGY 114 (1): 236-236 JAN 2000
- 2000 Nouri-Shirazi M, Banchereau J, Palucka KA. Induction of antigen-specific naive CD 4+T cell tolerance by N-acetyl-L-cysteine treated dendritic cells. FASEB JOURNAL 14 (6): A1105-A1105 Supplement: S APR 2000
- 2000 Blanco P, Berard F, Davoust J, Taquet N, Rolland A, Nouri-Shirazi M, Kraus ET, Rimoldi D, Cerottini JC, Banchereau J, Palucka KA. Dendritic cells loaded with killed allogeneic melanoma cells induce melanoma specific immunity. FASEB JOURNAL 14 (6): A946-A946 Supplement: S APR 2000
- 1999 Nouri-Shirazi M, Palucka K, Burkeholder S, Banchereau J. Dendritic cells (DC) phagocytose tumor derived apoptotic bodies and prime tumor-specific CTL responses. FASEB JOURNAL ALB358 1999
- 1998 Nouri-Shirazi M, Palucka KA, Chomarat P, Burkeholder S, Banchereau J. DCs phagocytose carcinoma-derived apoptotic bodies. JOURNAL OF LEUKOCYTE BIOLOGY 49-49 Supplement: 2 1998
- 1998 Chomarat P, Palucka KA, Bell D, Burkeholder S, Nouri-Shirazi M, Banchereau J. Binding of dendritic cells to breast carcinoma cell lines. JOURNAL OF LEUKOCYTE BIOLOGY Supplement: 2 1998
- 1997 Ye BH, Cattoretti G, Shen QO, Zhang JD, Hawe N, deWaard R, Leung C, Nouri-Shirazi M, Orazi A, Chaganti RSK, Rothman P, Stall AM, Pandolfi PP, DallaFavera R. The BCL-6 proto-oncogene controls germinal-center formation and Th2-type inflammation. NATURE GENETICS 16 (2): 161-170 JUN 1997
- 1996 Cattoretti G, Ye BH, Hawe N, Nouri-Shirazi M, Stall A, Chaganti RSK, Pandolfi PP, Dalla Favera R. BCL-6 is involved in germinal center formation. BLOOD 88 (10): 555-555 Part: 1 Supplement: 1 NOV 15 1996
- 1995 Yamamoto H, Hatano M, Iitsuka Y, Nouri-Shirazi M, Yamamoto M, Tokuhisa T. Two forms of HOX11, a T cell leukemia oncogene, are expressed in fetal spleen but not in primary lymphocytes. MOLECULAR IMMUNOLOGY 32 (16): 1177-1182 NOV 1995
- 1993 Nouri-Shirazi M, Fukuta K, Ohta Y. Purification of rabbit blood basophils by isopycnic banding on Percoll. IN VIVO 7 (1): 31-36 1993

MANUSCRIPTS IN PREPARATION

Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Comparative Analysis of SARS-CoV-2 Immune Memory in Vaccinated and Hybrid individuals Two Years Post-Exposure.

REFEREED PRESENTATIONS AND PROCEEDINGS – INTERNATIONAL / NATIONAL

- 2023 Mia Johnson, Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Evaluating recall responses of memory cells in peripheral blood samples of COVID-19 vaccinated individuals, 10th Annual LSSF STEM Undergraduate Research Symposium at Florida Gulf Coast University, April 15, 2023
- 2021 Imtisal Imran, Czdari Lee, Sara Thomas, and Mahyar Nouri-Shirazi. Approach for the Detection of Preexisting Memory B and T Cells to Childhood Immunizations within Adult Peripheral Blood Samples, 2021 Autumn Immunology Conference, November 19-22, 2021
- 2019 Nouri-Shirazi M, Katz H, and Victor L. Human Immune Cells Directly Recognize Xenogeneic MHCs. Abstract 846 (69.18) *Immunology 2019 May 9-13, 2019 San Diego, California*
- 2019 Victor L, Katz H, and Nouri-Shirazi M. Human Immune Cells Directly Recognize Xenogeneic MHCs. *National Collegiate Research Conference (NCRC) Harvard University, Boston Jan 24-26, 2019*
- 2018 Victor L, Katz H, and Nouri-Shirazi M. Human Immune Cells Recognize Intact Xenogeneic MHCs. *Autumn Immunology Conference Nov 16-18, 2018 Chicago, IL*
- *Awarded second Place Award for Best Undergraduate Poster Presentation Trends in Immunology*
- 2018 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. Combination of TLR8 and TLR4 agonists reduces the degrading effects of nicotine on DC-NK mediated effector T cell generation. *Immunology 2018 May 4-8, 2018 Austin, Texas*
- 2017 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. TLR8 combined with TLR3 or TLR4 enhances DC-NK driven effector T cells. *Immunology 2017 May 11-16, 2017 Washington DC*
- 2017 Katz H, Ramilevich Z, Victor L, Nouri-Shirazi M. Direct and Indirect Contribution of Immune Cells in Xenograft Rejection. Gulf Coast Undergraduate Research Symposium, *RICE University. November 4, 2017*
- 2016 Nouri-Shirazi M, Zeng M, Nourishirazi E, and Abu-Nuwar E. Genetic background influences the Cellular and humoral responses to vaccines. *2016 International Congress of Immunology in Melbourne, Australia*

- 2016 Nouri-Shirazi M, Tamjidi S, and Nourishirazi E. Selected TLR agonists act in synergy to reprogram DC-NK cross-talk and generate effector T cells in nicotinic environment. *The American Association of Immunologists 2016 in Seattle, Washington*
- 2016 Nouri-Shirazi M, Abu-Nuwar E, and Nourishirazi E. Genetic background influences the Cellular and humoral responses to vaccines. *The American Association of Immunologists 2016 in Seattle, Washington*
- 2015 Nouri-Shirazi M, Zeng M, Bible B, and Tamjidi S. Selected TLR agonists improve vaccination outcome in nicotine exposed mice. *4th European Congress of Immunology 2015, Vienna, Austria*
- 2014 Nouri-Shirazi M, Bible B, Zeng M, Tamjidi S and Bossart G. Characterizing Immune Cells of Atlantic Bottlenose Dolphins. *The American Association of Immunologists 2014 in Pittsburgh*
- 2014 Nouri-Shirazi M, Zeng M, Bible B, Tamjidi S. Genetic background influences the NK recruitment and Th1 polarization in response to TLR agonists. *The American Association of Immunologists 2014 in Pittsburgh*
- 2012 Nouri-Shirazi M, Nourishirazi E, Lang K, and Guinet E. Candidate adjuvant restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. *The American Association of Immunologists meeting 2012 in Boston*
- 2009 Nouri-Shirazi M, Zeng MH, Guinet E. Comparative analysis of dendritic cells (DCs) and anti-CD3/CD28 (Abs) expanded regulatory T cells (Tregs) for application in transplantation. *1st International Conference on Immune Tolerance 2009 in Boston, USA*
- 2008 Nouri-Shirazi M, Zeng MH, Guinet E. Dendritic cells and anti-CD3/CD28 expand naturally occurring regulatory T cells with different magnitude and nature. *2008 American Transplant Congress in Toronto*
- 2008 Zeng M, Guinet E, Nouri-Shirazi M. Dendritic cells (DCs) have a clinical advantage over anti-CD3/CD28 antibodies (Abs) for expansion of naturally occurring T cells (Tregs). *Experimental Biology 2008 meeting in San Diego*
- 2008 Nouri-Shirazi M, Guinet E, Zeng M. Nicotine impairs cancer vaccines. *Experimental Biology 2008 meeting in San Diego*
- 2008 Zeng M, Guinet E, Nouri-Shirazi M. B7-1 and B7-2 contribute unequally to peripheral homeostasis of regulatory T cells (Tregs). *Experimental Biology 2008 meeting in San Diego*
- 2008 Ansari A, Guinet E, Zeng M, Nouri-Shirazi M. Nicotine affects anti-tumor immunity elicited by therapeutic vaccine. *37th Annual meeting of the American Association of Dental Research in Dallas*

- 2007 Nouri-Shirazi M, Guinet E, Zeng M. Nicotine affects antigen-specific immune responses both in vitro and in vivo. *94th Annual meeting of The American Association of Immunologist in Miami*
- 2007 Nishino P, Kahlden CR, Guinet E, Nouri-Shirazi M. Nicotine affects immunity by suppressing Th1-effector cells/IgG2a production in vivo. *36th Annual meeting of the American Association of Dental Research in New Orleans*
- Awarded 1st place at the 2007 TAMHSC-BCD Research Day
- 2007 Kahlden CR, Nishino P, Guinet E, Nouri-Shirazi M. Nicotine affects immunity by changing the expression of Notch ligands on dendritic cells. *36th Annual meeting of the American Association of Dental Research in New Orleans*
- Awarded 3rd place at the 2007 TAMHSC-BCD Research Day
- 2006 Nouri-Shirazi M, Guinet E, Tinajero R. Nicotine alters the biological activities of developing mouse dendritic cells. *Immunology 2006 meeting in Boston*
- 2006 Nouri-Shirazi M, Kusek J, Tinajero R, Guinet E. Nicotine endows developing mouse dendritic cells with Th2-promoting capacity. *Federation of Clinical Immunology Societies meeting in San Francisco 2006*
- 2005 Nouri-Shirazi M, Guinet E, Sekandari P. The dynamics of Th1/Th2 priming in smokers may depend on the nature of DCs and their response to tissue-type factors *Experimental Biology 2005 meeting in San Diego*
- 2005 Nouri-Shirazi M, Guinet E. Inactivation of recipient T cells with direct and indirect allospecificities in vivo. *2005 American Transplant Congress in Seattle*
- 2005 Tinajero R, Guinet E, Nouri-Shirazi M. Nicotine affects the immunoregulatory function of dendritic cells. *2005 International Association for Dental Research in Orlando.*
- Awarded 2nd place at the 2006 TAMHSC-BCD Research Day
- 2004 Nouri-Shirazi M, Guinet E. IFN-gamma switches incompetent dendritic cells (DCs) differentiated in a nicotinic environment to competent Th1 polarizing DCs. *Experimental Biology 2004 meeting in Washington*
- 2004 Nouri-Shirazi M, Guinet E. In nicotinic environment monocytes differentiate into incompetent Th1 polarizing dendritic cells (DCs). *Experimental Biology 2004 meeting in Washington*
- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Nicotine skews the differentiation of monocytes to dendritic cells (DCs). *International Association of Dental Research 2003 meeting in Goteborg*

- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Nicotine skews the differentiation of monocytes to dendritic cells (DCs) incapable of triggering type-1 effector memory T cells. *Immunology 2003 meeting in Denver*
- 2003 Nouri-Shirazi M, Guinet E, Yoshida K. Impact of nicotinic environment on monocyte to dendritic cells (DCs) differentiation. *Immunology 2003 meeting in Denver*
- 2002 Nouri-Shirazi M, Guinet E. Nicotine hampers type-1 cell-mediated immunity through down-regulation of IL-12 production by dendritic cells. *International Association of Dental Research 2002 meeting in San Antonio*
- 2002 Nouri-Shirazi M, Guinet E. A defective role in type-1 T helper (TH1) cell differentiation by dendritic cells (DCs) exposed to nicotine. *Experimental Biology 2002 meeting in New Orleans*
- 2002 Rawlins JT, Nouri-Shirazi M, Opperman LA. Tgf- beta 2 down regulates Twist and up regulates Fgfr2 in rat coronal sutures in vitro. *Experimental Biology 2002 meeting in New Orleans*
- 2002 Nouri-Shirazi M, Guinet E. Direct-, and indirect cross-tolerance of alloreactive T cells by dendritic cells (DCs) retained in immature stage. *Experimental Biology 2002 meeting in New Orleans*
- 2000 Nouri-Shirazi M, Banchereau J, Palucka KA. Induction of antigen-specific naive CD 4+T cell tolerance by N-acetyl-L-cysteine treated dendritic cells. *The American Association of Immunologists meeting 2000*
- 2000 Blanco P, Berard F, Davoust J, Taquet N, Rolland A, Nouri-Shirazi M, Kraus ET, Rimoldi D, Cerottini JC, Banchereau J, Palucka KA. Dendritic cells loaded with killed allogeneic melanoma cells induce melanoma specific immunity. *The American Association of Immunologists meeting 2000*
- 1999 Nouri-Shirazi M, Palucka K, Burkeholder S, Banchereau J. Dendritic cells (DC) phagocytose tumor derived apoptotic bodies and prime tumor-specific CTL responses. *The American Association of Immunologists meeting 1999*
- 1998 Nouri-Shirazi M, Palucka KA, Chomarat P, Burkeholder S, Banchereau J. DCs phagocytose carcinoma-derived apoptotic bodies. *5th International Symposium on Dendritic cells in fundamental and clinical immunology meeting in Pittsburgh 1998*
- 1998 Chomarat P, Palucka KA, Bell D, Burkeholder S, Nouri-Shirazi M, Banchereau J. Binding of dendritic cells to breast carcinoma cell lines. *5th International Symposium on Dendritic cells in fundamental and clinical immunology meeting in Pittsburgh 1998*

REFEREED PRESENTATIONS AND PROCEEDINGS – REGIONAL / LOCAL

- 2024 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Memory Cells and Antibody Responses to COVID-19 Vaccination and Hybrid Immunity, 2024 College of Medicine Graduate Student Research Day at Florida Atlantic University, April 5, 2024
- 2024 Imtisal Imran, Czdari Lee, Sara Thomas, and Mahyar Nouri-Shirazi. A method for the phenotypical and functional characterization of human memory B and T cells specific to vaccine antigens, Research Renewal at Stiles-Nicholson Brain Institute, April 20, 2024
- 2024 Imtisal Imran, Czdari Lee, Sara Thomas, and Mahyar Nouri-Shirazi. A method for the phenotypical and functional characterization of human memory B and T cells specific to vaccine antigens, 2024 College of Medicine Graduate Student Research Day at Florida Atlantic University, April 5, 2024
- 2023 Mia Johnson, Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Assessing humoral and cellular immune memory generated in response to COVID-19 immunization, 13th Annual Undergraduate Research Symposium at Florida Atlantic University, April 7, 2023
- 2023 Mia Johnson, Czdari Lee, Imtisal Imran, Sara Thomas, and Dr. Mahyar Nouri-Shirazi. Quantification of COVID-19 specific memory cells generated in vaccinated individuals, 1st Annual Science Fest at Florida Atlantic University, April 14, 2023
- 2023 Sara Thomas, Czdari Lee, Imtisal Imran, Mia Johnson, and Dr. Mahyar Nouri-Shirazi. Quantification of COVID-19 specific memory cells generated in vaccinated individuals, 5th Annual Undergraduate Research Poster Competition at Nova Southeastern University, April 18, 2023
- 2023 Czdari Lee, Imtisal Imran, Sara Thomas, Mia Johnson, and Mahyar Nouri-Shirazi. Quantification of COVID-19-specific memory cells in peripheral blood samples of vaccinated individuals, 2023 College of Medicine Graduate Student Research Day at Florida Atlantic University, April 14, 2023
- 2022 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Recall in vitro conditions for preexisting humoral and cellular memory to live and subunit childhood vaccine antigens within peripheral blood, 13th Annual Graduate and Professional Student Association (GPSA) Research Day at Florida Atlantic University, April 12, 2022
- 2022 Sara Thomas, Imtisal Imran, Czdari Lee, and Dr. Mahyar Nouri-Shirazi. Recall conditions for the detection of preexisting memory B and T cells to subunit and live childhood vaccine antigens within peripheral blood, Data-Driven Science and AI Conference at Florida Atlantic University, May 21, 2022

- 2022 Sara Thomas, Imtisal Imran, Czdari Lee, and Dr. Mahyar Nouri-Shirazi. Recall conditions for the detection of preexisting memory B and T cells to subunit and live childhood vaccine antigens within peripheral blood, 2022 Undergraduate Research Symposium at Florida Atlantic University, April 9, 2022
- 2022 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Recall in vitro conditions for preexisting humoral and cellular memory to live and subunit childhood vaccine antigens within peripheral blood, 2022 College of Medicine Graduate Student Research Day at Florida Atlantic University, April 1, 2022
- *2nd place winner for Poster Presentation*
- 2022 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Recall in vitro conditions for preexisting humoral and cellular memory to live and subunit childhood vaccine antigens within peripheral blood, 13th Annual Graduate and Professional Student Association (GPSA) Research Day at Florida Atlantic University, April 12, 2022
- 2021 Sara Thomas, Imtisal Imran, Czdari Lee, and Dr. Mahyar Nouri-Shirazi. Recall conditions for the detection of preexisting memory B and T cells to subunit and live childhood vaccine antigens within peripheral blood, 2022 Undergraduate Research Symposium at Florida Atlantic University, April 9, 2021
- 2021 Czdari Lee, Imtisal Imran, Sara Thomas, and Mahyar Nouri-Shirazi. Approach for the detection of preexisting immunity to childhood immunizations within peripheral blood, 11th Annual Broward Student Research Symposium, November 19, 2021
- *People's Choice Award- Master's Category*
- 2021 Imtisal Imran, Czdari Lee, Sara Thomas, and Mahyar Nouri-Shirazi. Approach for the Detection of Preexisting Memory B and T Cells to Childhood Immunizations within Adult Peripheral Blood Samples, 2021 Autumn Immunology Conference, November 19-22, 2021
- 2020 Lee C, Imran I, and Nouri-Shirazi M. Establishment of culture conditions to assess preexisting immunity to childhood immunizations. *10th Annual Broward Student Research Symposium*. November 23, 2020
- *Chosen to do an NPR radio interview on the poster*
 - *Chosen to be Student Spotlight in Graduate College Newsletter*
 - *People's Choice Award- Master's Category*
- 2020 Lee C, Imran I, and Nouri-Shirazi M. Approach for the quantification and functional assessment of preexisting humoral and cellular immunity in peripheral blood. *Graduate and Professional Student Association (GPSA) 11th Annual Graduate Research Day, Florida Atlantic University*. April 17, 2020
- *Awarded 1st place in the Health and Life Sciences division*

- 2018 Ramilevich Z, Katz H, Victor L, Nouri-Shirazi M. Direct and Indirect Contribution of Immune Cells in Xenograft Rejection. *Undergraduate Research Symposium, Florida Atlantic University*. March 31, 2018
- 2018 Katz H, Ramilevich Z, Victor L, Nouri-Shirazi M. Direct and Indirect Contribution of Immune Cells in Xenograft Rejection. *Florida Undergraduate Research Symposium, Eastern Florida State College*. February 23-24, 2018
- 2018 Ramilevich Z, Katz H, Victor L, Nouri-Shirazi M. Direct and Indirect Contribution of Immune Cells in Xenograft Rejection. *Medical Student and Resident Research and Scholarship Day*. February 23, 2018
- 2018 Katz H, Ramilevich Z, Victor L, Nouri-Shirazi M. Direct and Indirect Contribution of Immune Cells in Xenograft Rejection. *Florida Undergraduate Research Symposium, Eastern Florida State College*. February 23-24, 2018
- 2017 Katz H, Ramilevich Z, Victor L, and Nouri-Shirazi M. Direct and Indirect contribution of Immune cells in xenograft rejection. *OURI Summer Retreat, Florida Atlantic University*. August 16, 2017
- 2017 Tamjidi S and Nouri-Shirazi M. *TLR8 combined with TLR3 or TLR4 enhances DC-NK driven effector T cells*. *Graduate Student Research Day at Florida Atlantic University, College of Medicine*, April 14 2017
- 2016 Abu-Nuwar E, Nourishirazi E, Zeng M, and Nouri-Shirazi M. Genetic background influences the humoral responses to vaccines. *18th Annual Biomedical and Comparative Immunology Symposium 2016, FIU, Miami*
- 2016 Abu-Nuwar E, Tamjidi S, Nourishirazi E, and Nouri-Shirazi M. Selected TLR agonists act in synergy to reprogram DC-NK cross-talk and generate effector T cells in nicotinic environment. *2016 Undergraduate Research Day at Florida Atlantic University*
- 2016 Abu-Nuwar E, Nourishirazi E, and Nouri-Shirazi M. Genetic background influences the Cellular and humoral responses to vaccines. *2016 Biomedical Research Day, Florida Atlantic University Charles E. Schmidt College of Medicine*
- 2015 Bible B, Zeng M, Tamjidi S, Bossart G, and Nouri-Shirazi M. Ex vivo generation and comparison of free-ranging Atlantic bottlenose dolphins (*Tursiops truncatus*) and dolphins under human care dendritic cells (DCs). *17th Annual Biomedical and Comparative Immunology Symposium 2015, FIU, Miami*
- 2015 Zeng M, Bible B, Tamjidi S, Nouri-Shirazi M. TLR agonists improve vaccination outcome in nicotine exposed mice through different mechanisms. *17th Annual Biomedical and Comparative Immunology Symposium 2015, FIU, Miami*
- 2015 Tamjidi S, Nourishirazi E, Bible B, Zeng M, and Nouri-Shirazi M. Selected TLR agonists improve the ability of nicotine-exposed dendritic cells to generate

effector T cells. *17th Annual Biomedical and Comparative Immunology Symposium 2015, FIU, Miami*

- *Awarded 1st place at the 17th Comparative Immunology symposium*

- 2015 Bible B, Zeng M, Tamjidi S, Bossart G, and Nouri-Shirazi M. Ex vivo generation and comparison of free-ranging Atlantic bottlenose dolphins (*Tursiops truncatus*) and dolphins under human care dendritic cells (DCs). *2015 The Graduate and Professional Student Association's 6th Annual Research Day, FAU*
- 2015 Tamjidi S, Nourishirazi E, Bible B, Zeng M, and Nouri-Shirazi M. Selected TLR agonists improve the ability of nicotine-exposed dendritic cells to generate. *2015 The Graduate and Professional Student Association's 6th Annual Research Day, FAU*
- 2014 Bible B, Zeng M, Tamjidi S, Bossart G and Nouri-Shirazi M. Characterizing Immune Cells of Atlantic Bottlenose Dolphins. *2014 Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida*
- 2014 Zeng M, Bible B, Tamjidi S, Nouri-Shirazi M. Genetic background influences the NK recruitment and Th1 polarization in response to TLR agonists. *2014 Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida*
- 2014 Schwartz M, Robinson P, Azzarolo AM, Lizotte-Waniewski M, Louda D, Nouri-Shirazi M, Schmidt-Kastner R, and Henson L. Purposeful Use of Different Models of Problem-Based Learning as an Integral Component of the Curriculum at a New Medical School. *2014 Southern Group on Educational Affairs (SGEA) in Miami*
- 2014 Azzarolo AM, Lizotte-Waniewski M, Louda D, Iragavarapu-Charyulu V, Nouri-Shirazi M, Shibata Y, Henson L, Linger B, Servoss J, and Markowitz S. Identifying Students with Weak Foundations in the Basic Sciences: Strategies to Facilitate Successful Transition to Medical School and Academic Success. *2014 Southern Group on Educational Affairs (SGEA) in Miami*
- 2014 Tamjidi S, Nourishirazi E, Bible B, Zeng M and Nouri-Shirazi M. TLR agonists differentially induce maturation of nicotine-exposed dendritic cell. *2014 Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida*
- 2013 Nouri-Shirazi M and Guinet E. Improving the immunogenicity of vaccines through TLR agonists. *2013 Florida Atlantic University Charles E. Schmidt College of Medicine Research Day*

- 2013 Nourishirazi E, Guinet E, and Nouri-Shirazi M. The Impact of TLR Agonists on Nicotine Exposed Human Immune Cells. *2013 Undergraduate Research Day at Florida Atlantic University*
- 2012 Nourishirazi E, Guinet E, Lang K, and Nouri-Shirazi M. Candidate TLR agonist restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. *2012 Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida*
- 2012 Lang K, Guinet E, Nourishirazi E, Andreolas L, and Nouri-Shirazi M. Candidate TLR agonist restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. *2012 Florida Atlantic University Research Day*
- 2012 Lang K, Guinet E, Nourishirazi E, Andreolas L, and Nouri-Shirazi M. Candidate TLR agonist restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. *2012 Florida Atlantic University Habor Branch Oceanographic Institute*
- 2012 Lang K, Guinet E, Nourishirazi E, Andreolas L, and Nouri-Shirazi M. Candidate TLR agonist restores DC-NK cross-talk and improves immunization outcomes in nicotine-exposed hosts. *2012 Florida Atlantic University Charles E. Schmidt College of Medicine Research Day*
- 2011 Nouri-Shirazi M, Guinet E. Exposure to nicotine adversely affects the DC system and compromises host response to vaccination. *2011 Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida*
- 2009 Guinet E, Nouri-Shirazi M. Adjuvant Resiquimod R848 repairs nicotine-impaired host's immune response to protein-based vaccine. *2009 Florida Atlantic University Charles E. Schmidt College of Medicine Research Day*
- 2008 Guinet E, Zeng M, Nouri-Shirazi M. Nicotine impairs therapeutic cancer vaccines. *Florida Atlantic University Charles E. Schmidt College of Medicine Research Day 2008*
- 2008 Guinet E, Zeng M, Nouri-Shirazi M. Dendritic cells (DCs) but not anti-CD3/CD28 (Abs) expand and maintain regulatory T cells with therapeutic potential in transplantation. *2008 Florida Atlantic University Charles E. Schmidt College of Medicine Research Day*

ORAL PRESENTATIONS AND PROCEEDINGS

- 2024 Sara Thomas, Czdari Lee, Imtisal Imran, and Mahyar Nouri-Shirazi. Approach for the Recall of Rare Memory Cells Specific to Childhood Immunizations, 11th Annual LSSF STEM Undergraduate Research Symposium at Florida International University, April 13, 2024

- 2022 Sara Thomas, Imtisal Imran, Czdari Lee, and Dr. Mahyar Nouri-Shirazi. Recall conditions for the detection of preexisting memory B and T cells to subunit and live childhood vaccine antigens within peripheral blood, 2022 Undergraduate Research Symposium at Florida Atlantic University, April 9, 2021
- *2nd place in the Health and Medical Sciences division*
- 2021 Imtisal Imran, Czdari Lee, and Mahyar Nouri-Shirazi. Assessment of Preexisting Immunity to Childhood Immunizations within Peripheral Blood, 2021 Undergraduate Research Symposium at Florida Atlantic University, April 9, 2021
- *1st place in the Health and Medical Sciences division*
- 2021 Imtisal Imran, Czdari Lee, and Mahyar Nouri-Shirazi. Assessment of Preexisting Immunity to Childhood Immunizations within Peripheral Blood, 2021 Gulf Coast Undergraduate Research Symposium at RICE University, October 16, 2021
- 2021 Imtisal Imran, Czdari Lee, Sara Thomas, and Mahyar Nouri-Shirazi. Approach for the Detection of Preexisting Memory B and T Cells to Childhood Immunizations within Adult Peripheral Blood Samples, 2021 Autumn Immunology Conference, November 19-22, 2021
- 2020 Lee C, Imran I, and Nouri-Shirazi M. Establishment of culture conditions to assess preexisting immunity to childhood immunizations. *10th Annual Broward Student Research Symposium*. November 23, 2020
- *Awarded People's Choice Award- Master's Category*
- 2020 Lee C, Imran I, and Nouri-Shirazi M. Approach for the quantification and functional assessment of preexisting humoral and cellular immunity in peripheral blood. *Graduate and Professional Student Association (GPSA) 11th Annual Graduate Research Day, Florida Atlantic University*. April 17, 2020
- *Awarded 1st place in the Health and Life Sciences division*
- 2017 Katz H, Ramilevich Z, Victor L, Nouri-Shirazi M. *Direct and Indirect Contribution of Immune Cells in Xenograft Rejection* National: Gulf Coast Undergraduate Research Symposium, RICE University. November 4, 2017
- 2015 4th European Congress of Immunology 2015, Vienna, Austria. *Selected TLR agonists improve vaccination outcome in nicotine exposed mice*
- 2013 Florida Atlantic University, Charles E. Schmidt College of Medicine. *Smoking: a barrier to vaccine effectiveness and herd immunity*
- 2012 Habor Branch Oceanographic Institute (HBOI)-Charles E. Schmidt College of Medicine (COM) retreat. *Dendritic cell-based evaluation of natural compounds for immunotherapy*

- 2012 Florida International University. *Smoking: a barrier to vaccine-induced heard immunity*
- 2011 Vaccine and Gene Therapy Institute Symposium, Florida Atlantic University, Charles E. Schmidt College of Science, Boca Raton, Florida. *Improving the efficacy of vaccination in smokers*
- 2008 University of Texas at Dallas, Texas. *Dendritic cells as a viable tool for manipulating and understanding host immunity*
- 2008 Claflin University, Greenville, Charleston & Columbia, South Carolina. *Dendritic cells as a viable tool for manipulating and understanding host immunity*
- 2007 Florida Atlantic University, Charles E. Schmidt College of Medicine. *Dendritic cells in tumor and transplant immunology*
- 2006 Baylor-Charles A. Sammons Cancer Center, Dallas, Texas. *Dendritic cells as a viable tool for inducing immunity and tolerance*
- 2004 Baylor College of Dentistry. *Nicotine, Dendritic cells and host immunity*
- 2003 Baylor-Charles A. Sammons Cancer Center, Dallas, Texas. *Nicotine, Dendritic cells and host immunity*
- 2001 Mojave therapeutics, INC, New York. *Dendritic cells as a viable tool for inducing immunity and tolerance*

CREATIVE ACTIVITIES AND ACHIEVEMENTS - PATENTS

- 2012 Title: Vaccine formulation that works optimally in nicotine-exposed individuals
Inventors: Mahyar Nouri-Shirazi, Elisabeth Guinet
Agency: Florida Atlantic University
US Provisional patent #61/596,919
- 2011 Title: Vaccine formulation that works optimally in nicotine-exposed individuals
Inventors: Mahyar Nouri-Shirazi, Elisabeth Guinet
Agency: Florida Atlantic University
FAU Provisional patent #201103
- 2002 Title: Use of allogeneic cell lines to load antigen-presenting cells to elicit or eliminate immune responses
Inventors: Jacques Banchereau, Mahyar Nouri-Shirazi, Anna Karolina Palucka
Agency: Baylor Research Institute
Type: US file patent number US10/110,553
- 2001 Title: Methodology to identify authentic tumor rejection antigens (TRAs) for cancer diagnosis and immunotherapy
Inventors: Mahyar Nouri-Shirazi

Agency: Texas A&M University Health Science Center
TAMUS Disclosure of Invention 1787HSC01

1999 Title: Vaccines composed of dendritic cells loaded with dying cells and their use in vitro and in vivo
Inventors: Jacques Banchereau, Mahyar Nouri-Shirazi, Anna Karolina Palucka
Agency: Baylor Research Institute
Type: US file patent number 60/159,903

GRANTS – EXTERNAL FUNDED

2014-2017 The National Natural Science Foundation of China (NSFC)
Total cost: \$40,000
Title: Mechanisms by which resiquimod-mediated enhancement of DC-NK cross-leads to a strong Th1 immunity
Role: Mentor

2013-2017 1R03AI103750-01A1
NIH-NIAID
Total cost: \$144,500
Title: Overcoming the degrading effects of nicotine on vaccines using TLR agonists
Role: Principal Investigator

2012-2017 Georgia Aquarium
Total cost: \$127,250
Title: Characterization of Atlantic Bottlenose Dolphin Dendritic Cells
Role: Principal Investigator

2009-2011 1R15NS066339
NIH-NINDS
Total costs: \$211,200
Title: Regulation of BimEL phosphorylation in the pathogenesis of Huntington's disease
Role: Collaborator
Principal Investigator: Dr. Jianning Wei

2006-2007 Research Development Award
OVPRGS
Total cost: \$15,000
Title: Determining the parameters of tolerance to allograft
Role: Principal Investigator

2005-2010 Philip Morris External Research Program
Phillip Morris Inc., USA
Total cost: \$600,000
Title: The impact of nicotine on dendritic cells and host immunity
Role: Principal Investigator

2005-2006	Research Development Award OVPRGS Total cost: \$25,000 Title: The effects of nicotine on dendritic cell system Role: Principal Investigator
2001-2003	K23 DE00-469-01 NIH-NIDCR Total cost: \$577,986 Title: Dendritic Cells & Actinobacillus Actinomycetemcomitans Role: mentor Principal Investigator: Paul Ezzo
1999-2000	R01CA78846-01A1 NIH-NIAID Total cost: \$1,200,000 Title: Subpopulations of Human Dendritic Cell Role: Senior Research Fellow Principal Investigator: Jacques Banchereau
1999-2000	CaPCURE Total cost: \$100,000 Title: Generation of prostate carcinoma Specific T cell lines and clones using dendritic cells. Role: Co-investigator Principal Investigator: Jacques Banchereau

GRANTS – INTERNAL FUNDED

2023	Title: Assessment of Immunity in Exposed and Unexposed Individuals to COVID-19 Natural Infection OURI Undergraduate Research Grant Total cost: \$600 Role: Mentor
2022	OURI Undergraduate Research Grant Title: Assessment of Immunity in Smokers to the COVID-19 Vaccine Antigen SARS-CoV-2 Total cost: \$600 Role: Mentor
2022	OURI Undergraduate Research Grant Title: Assessment of Existing Immunity to the New COVID-19 Vaccine Antigen SARS-CoV-2 Total cost: \$600 Role: Mentor
2022	Summer 2022 Student Research Assistantship Title: Preexisting immunity to childhood immunizations

Total cost: \$5,000

Role: Mentor

- 2021 OURI Undergraduate Research Grant
Title: Assessment of Preexisting Immunity to the Childhood Vaccine Antigen Tetanus Toxoid
Total cost: \$1,200
Role: Mentor
- 2021 OURI Undergraduate Research grant, FAU
Title: Establishment of culture conditions to assess preexisting immunity to childhood immunizations
Total cost: \$600
Role: Mentor
- 2020 OURI Undergraduate Research grant, FAU
Title: Monitoring Immune status to childhood immunization
Total cost: \$600
Role: Mentor
- 2020 Summer 2020 Student Research Assistantship, FAU-COM
Title: Approach for the quantification and functional assessment of preexisting humoral and cellular immunity in peripheral blood
Total cost: \$5000
Role: Mentor
- 2018 OURI-Faculty Development Funds Office of Undergraduate Research and Inquiry, FAU
Total cost: \$500
Role: Faculty&Mentor
- 2018 OURI-Undergraduate Research Grant, FAU
Total cost: \$600
Title: Contribution of Immune Cells in Direct and Indirect Alloreactivity
Role: Mentor
- 2018 OURI-Undergraduate Research Grant, FAU
Total cost: \$600
Title: Direct and Indirect Immune Recognition of Xenoantigen by Immune cells
Role: Mentor
- 2017 OURI-Undergraduate Research Grant, FAU
Total cost: \$600
Title: Immune protection against autologous and allogeneic tumors
Role: Mentor
- 2017 OURI-SURF grant Office of Undergraduate Research and Inquiry, FAU
Total cost: \$4000
Title: Immune surveillance towards autologous and allogeneic cells

Role: Mentor

2015	OURI-Undergraduate Research Grant, FAU Total cost: \$500 Title: Improving the outcome of vaccination in smokers Role: Mentor
2015	FAU-IMSD Academic enrichment fund Total cost: \$4,905 Title: Cancer Immunotherapy Role: Principal Investigator
2012	OURI-Undergraduate Research Grant, FAU Total cost: \$600 Title: Flow cytometry analysis of dendritic cells (DCs) response to Th1 adjuvants Role: Mentor
2011-2012	FAU-College of Medicine Research Stimulus Grant Funding Total cost: \$7,000 Role: Principal Investigator
2011-2012	FAU-College of Science-Department of Biological Science Impact of nicotine on innate immune cells response to TLR agonists Total cost: \$10,000 Role: Principal Investigator
2003-2004	Intramural grant TAMUHSC-BCD Total cost: \$10,000 Title: The impact of direct and indirect cross-tolerance by dendritic cells on allograft survival Role: Principal Investigator
2002-2003	Intramural grant TAMUHSC-BCD Total cost: \$10,000 Title: The effects of Nicotine on Dendritic Cells and T-cell Polarization Role: Principal Investigator
2001-2002	Intramural grant TAMUHSC-BCD Total cost: \$10,000 Title: Immunotoxicological effects of tobacco on human dendritic cells Role: Principal Investigator

SERVICE AND PROFESSIONAL DEVELOPMENT

SERVICE TO THE INSTITUTION – COLLEGE

2013-2022	Chair, Faculty Assembly, FAU-Charles E. Schmidt College of Medicine
2013-2022	Chair, Faculty Assembly Executive (FAX) committee, FAU-Charles E. Schmidt College of Medicine
2022-present	Vice Chair, Faculty Assembly, FAU-Charles E. Schmidt College of Medicine
2022-present	Vice Chair, Faculty Assembly Executive (FAX) committee, FAU-Charles E. Schmidt College of Medicine
2012-2013	Vice Chair, Faculty Assembly, FAU-Charles E. Schmidt College of Medicine
2011-2012	Secretary, Faculty Assembly, FAU-Charles E. Schmidt College of Medicine
2011-2013	Member, Faculty Assembly Executive (FAX) committee, FAU-Charles E. Schmidt College of Medicine
2013-2022	Member, Deans and Chairs Executive Committee, FAU-Charles E. Schmidt College of Medicine
2011-2024	Chair, Graduate Program Committee, FAU-Charles E. Schmidt College of Medicine
2011-2024	Chair, Graduate Admissions Committee, FAU-Charles E. Schmidt College of Medicine
2009-2011	Member, Graduate Program Committee, FAU-Charles E. Schmidt College of Medicine
2018-2024	Member, Graduate Strategic Planning Committee, FAU-Charles E. Schmidt College of Medicine
2010-present	Member, Graduate Thesis Committee, FAU-Charles E. Schmidt College of Medicine
2022-2023	Reviewer, Graduate Student Research Award, FAU-Charles E. Schmidt College of Medicine
2012- 2019	Member, Medical Admissions Committee, FAU-Charles E. Schmidt College of Medicine
2023-present	Lead M1/M2 Basic Science Course Director
2012-2017	Member, M1/M2 Committee, FAU-Charles E. Schmidt College of Medicine

2014-present	Member, Curriculum Integration and Program Evaluation (CIPEC) Committee, FAU-Charles E. Schmidt College of Medicine
2014-present	Member, Medical Student Promotions and Professional Standards Committee (MSPPSC), FAU-Charles E. Schmidt College of Medicine
2012-present	Member, College of Medicine Curriculum Committee (COMCC), FAU-Charles E. Schmidt College of Medicine
2011-present	Member, Research Committee, FAU-Charles E. Schmidt College of Medicine
2011-2022	Member, College Promotion and Tenure Committee, FAU-Charles E. Schmidt College of Medicine
2013	Member, Ad Hoc IMS P&T committee, FAU-Charles E. Schmidt College of Medicine
2012	Mentor, IMS Department mentoring Program, FAU-Charles E. Schmidt College of Medicine
2010-2020	Member, Post-bac Committee, FAU-Charles E. Schmidt College of Medicine
2014-present	Member, Faculty Evaluation Committee, Charles E. Schmidt College of Medicine
2008-2022	Director of Flow Cytometry, FAU-Charles E. Schmidt College of Medicine
2009-present	Judge, Medical Student Research and Scholarship Day, FAU-Charles E. Schmidt College of Medicine
2024	Member, Search Committee, Academic Hospitalist/UME Educator, FAU-Charles E. Schmidt College of Medicine
2023-2024	Member, Search Committee, Alzheimer's Data Scientist, FAU-Charles E. Schmidt College of Medicine
2013-2014	Member, Search Committee, Pharmacologist, FAU-Charles E. Schmidt College of Medicine
2021-present	Member, USMLE Step 1 Course Grading Committee, FAU-Charles E. Schmidt College of Medicine
2021-2022	Member, Grading Committee meeting M3 step 1 study elective, FAU-Charles E. Schmidt College of Medicine
2020-2022	Faculty, DEI Curriculum Work Group, FAU-Charles E. Schmidt College of Medicine

2020-present	Member, Phase 1 Curriculum Review Committee, FAU-Charles E. Schmidt College of Medicine
2016-2020	Member, Student Competency Review Committee, FAU-Charles E. Schmidt College of Medicine
2013	Member, Metrics Task force, FAU-Charles E. Schmidt College of Medicine
2013	Representative, The United Way campaign, FAU-Charles E. Schmidt College of Medicine
2012	Member, HBOI-COM retreat, FAU-Charles E. Schmidt College of Medicine
2010-2022	Member, Faculty Affairs, LCME meeting, FAU-Charles E. Schmidt College of Medicine
2010	Representative, Graduate Recruitment Workshop, FAU-Charles E. Schmidt College of Medicine
2009-2013	Organizer, Immunology journal club, FAU-Charles E. Schmidt College of Medicine
2015-2020	Member, Student Evaluation Overall Workshop, FAU-Charles E. Schmidt College of Medicine
2014-2016	Member, IMSD Academic Enrichment Fund Committee, FAU-Charles E. Schmidt College of Medicine
2006-2007	Organizer, Research and Teaching Update (Faculty development)
2004-2008	Member, Research Advisory Council, Texas A&M University Health Science Center
2004-2005	Chair, Research Committee, Texas A&M University Health Science Center
2002-2005	Member, Biomedical Sciences Search Committee (Faculty recruitment), Texas A&M University Health Science Center
2002-2005	Member, Research Facility Task Force, Texas A&M University Health Science Center
2001-2008	Member, Research Committee, Texas A&M University Health Science Center

SERVICE TO THE INSTITUTION - UNIVERSITY

2023-present	Member, Clinical Research Unit (CRU) Internal Advisory Board (IAB)
2022	Judge, 13th Annual Graduate and Professional Student Association (GPSA) Research Day

2022	Marshal, Graduate Commencement ceremony, Florida Atlantic University
2020	Member, Research Misconduct and Inquiry Committee
2020	Judge, 11th Annual Graduate Research Day
2015-2016	Member, Graduate Research & Inquiry Program (GRIP) Committee, Florida Atlantic University
2015	Judge, Graduate & Professional Student Association (GPSA) Research day, Florida Atlantic University
2015	Judge, 5 th Annual Undergraduate Research Symposium, Florida Atlantic University
2014	Member, HBOI Faculty Search Committee, Florida Atlantic University
2014	Marshal, Graduate Commencement ceremony, Florida Atlantic University
2014-2019	Member, Institutional Animal Care and Use Committee (IACUC), Florida Atlantic University
2013-2022	Senator, University Faculty Senate, Florida Atlantic University
2011-2015	Adviser, The Association of Biological and Biomedical Students (ABBS), Florida Atlantic University
2011	Judge, Graduate Student Association Research day posters and presentations, Florida Atlantic University
2011-2024	Member, University Graduate Council, Florida Atlantic University
2009	Marshal, Graduate Commencement ceremony, Florida Atlantic University
2008-present	Member, Graduate School of Biomedical Sciences, Florida Atlantic University
2005-2008	Member, Graduate School of Biomedical Sciences (GSBS), Baylor University
2001-2008	Member, Graduate School of Biomedical Sciences (GSBS), Texas A&M University Health Science Center

SERVICE TO THE DISCIPLINE - PEER REVIEWER & EDITORIAL BOARD, AND CONSULTANTSHIP

2022-present	Editorial board member, Frontiers Immunology Journal
2020	Peer-Reviewer FAU Undergraduate Research Journal (FAURJ)
2020	Peer-Reviewer Undergraduate Research Fellowship

2020	Peer-Reviewer, Journal of Clinical Laboratory Analysis
2020	Peer-Reviewer, OURI UG Research Grant Review
2020	Peer-Reviewer, Cancer Immunology and Immunotherapy
2019	Peer-Reviewer, Cytokine Journal
2019	Peer-Reviewer, PLOS ONE Journal
2019	Peer-Reviewer, Journal of Immunological Sciences
2019	Peer-Reviewer, BMS Pilot Funding Application
2019	Peer-Reviewer, OURI-FAURI
2018	Peer-Reviewer, Veterinary Immunology and Immunopathology
2018	Peer-Reviewer, Journal of Immunology Research
2018	Peer-Reviewer, Summer Undergraduate Research Fellowship
2018	Peer-Reviewer, BMS Pilot Funding Application
2016	Peer-Reviewer, International Immunopharmacology
2015	Peer-Reviewer, Analytical Cellular Pathology
2014	Peer-Reviewer, Journal of Immunology Research
2014-2019	Editorial Board, Journal of Annals of Vaccines and Immunization
2010	Peer-reviewer, Cancer Immunology and Immunotherapy
2008	Abstract reviewer, American Society of Transplantation (ASTS/AST)
2007	Peer-Reviewer, Immunology Letters
2007	Peer-Reviewer, Toxicology and Applied Pharmacology
2007	Peer-Reviewer, Expert Opinion on Drug Discovery
2007-2008	Vice-president, D-AADR
2006-2007	Secretary/Treasurer, D-AADR
2006	Study Section reviewer, NIAID/NIH Transplantation, Tolerance and Tumor Immunology (TTT)

2005-2008	Consultant, ODC Therapy Inc.
2005-2007	Consultant, Murex Pharmaceutical Inc.
2005-2007	Peer-Reviewer, Phillip Morris Inc., External Research Program
2005	Peer-Reviewer, Transplant Immunology Journal
2005	Peer-Reviewer, Clinical Immunology Journal
2002-2005	Consultant, US Oncology

PROFESSIONAL DEVELOPMENT - ATTENDED CONFERENCES & SCIENTIFIC MEETINGS

2025	Faculty Retreat
2011-present	Medical Education Retreat
2022	Teaching Academy's visiting lecture
2022	Art and Science of Pain Management Conference
2021	Faculty Development Seminar
2021	STRIDE Training
2016	Leadership retreat – Faculty Development, Charles E. Schmidt College of Medicine
2016	Uncovering Hidden Pearls in NIH Grant Writing: Part II
2016	Leadership/Faculty Retreat 2016
2016	The 18th Annual Biomedical and Comparative Immunology Symposium, Florida International University, Miami, Florida
2016	Undergraduate Research Day at Florida Atlantic University, Boca Raton, Florida
2016	The American Association of Immunologists, Seattle, Washington
2016	International Congress of Immunology ICI 2016, Melbourne, Australia
2015	Faculty Recognition and Development: Teaching Pearls Presentation II
2015	Medical Education Retreat: Reaching and Teaching Millennial Learners

2015	The Graduate and Professional Student Association's 6th Annual Research Day, FAU, Mar 13, 2015, Boca Raton, Florida
2015	The 17th Annual Biomedical and Comparative Immunology Symposium, Florida International University, Miami, Florida
2015	The 4th European Congress of Immunology, Vienna, Austria
2014	Advisory Board/Deans & Chairs Retreat
2014	Faculty Recognition and Development: Teaching Pearls Presentation
2014	The Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida
2014	The Southern Group on Educational Affairs (SGEA), Miami, Florida
2014	The American Association of Immunologists, Pittsburgh, Pennsylvania
2014	NIH Peer Review Webinar
2013	FAU Grant Writers' Seminars and Workshops
2013	University of Minnesota PT4 Course evaluation workshop
2013	FAU Charles E. Schmidt College of Science, Introduction to honor research program
2013	AAMC Group Webinar
2013	Undergraduate Research Day at Florida Atlantic University, Boca Raton, Florida
2013	Research Day at Florida Atlantic University, Charles E. Schmidt College of Medicine, Boca Raton, Florida
2012	Comprehensive Assessment of Student Performance
2012	The Learning Environment and the Hidden Curriculum
2012	Habor Branch Oceanographic Institute (HBOI)-Charles E. Schmidt College of Medicine (COM) retreat
2012	Seminar series, Florida International University
2012	The Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida
2012	Research Day at Florida Atlantic University, Boca Raton, Florida

2012	Harbor Branch Oceanographic Institute, Florida Atlantic University, Fort Pierce, Florida
2012	Research Day at Florida Atlantic University, Charles E. Schmidt College of Medicine
2012	The Comparative Immunology Symposium at Florida International University, Miami, Florida
2011	The FAU COM Assessment System
2011	Providing High Quality Narrative Feedback
2011	PBL Facilitator Training
2011	Simulation-based Education with Deliberate Practice for Skill Acquisition
2011	Fundamentals of Simulation-Based Educational Research
2011	Twelve Teaching Roles Critical to Implementing the College of Medicine Curriculum
2011	Competency Based Education, Assessment Systems and Portfolios
2011	Faculty Retreat: Desired Attributes of Graduates of the Medical School
2011	Use of Portfolios in Assessment of Medical Students
2011	Using Blackboard for Your Syllabus
2011	Successful Course Directing
2011	USMLE Exam Writing Workshop
2011	FAU Charles E. Schmidt College of Science and Vaccine and Gene Therapy Institute (VGTI) Symposium
2011	International Tech Week, FAU-Charles E. Schmidt College of Medicine
2011	Immunology Seminar, FAU-Charles E. Schmidt College of Medicine
2011	The Biomedical and Comparative Immunology Symposium at Florida International University, Miami, Florida
2011	International Tech Week, Florida Atlantic University, Charles E. Schmidt College of Medicine, Boca Raton, Florida

2011	Immunology Seminar, Florida Atlantic University, Charles E. Schmidt College of Medicine, Boca Raton, Florida
2011	Vaccine and Gene Therapy Institute Symposium, Florida Atlantic University, Charles E. Schmidt College of Science, Boca Raton, Florida
2009	1 st International Conference on Immune Tolerance, Boston, MA
2009	Research Day, Charles E. Schmidt College of Biomedical Science, Boca Raton, Florida
2008	Research seminar, University of Texas at Dallas, Texas
2008	Research seminar, Claflin University, Greenville, Charleston & Columbia, South Carolina
2007	3 rd Annual Baylor Symposium and Workshop on Human Immunology and Biodefense, Baylor Institute for Immunology Research, Dallas, Texas
2007	Research seminar, Florida Atlantic University, Charles E. Schmidt College of Biomedical Science. Boca Raton, Florida
2006	Research seminar, Baylor-Charles A. Sammons Cancer Center, Dallas, Texas
2005	Research seminar, Baylor University Medical Center, Dallas
2005	2 nd Annual Baylor Symposium and Workshop on Human Immunology and Biodefense, Baylor Institute for Immunology Research, Dallas
2004	Scientific meeting, D-AADR/IADR, Dallas, Texas
2004	Research training, Thomas E. Starzl Transplantation Institute, University of Pittsburgh, Biomedical Science Tower, Pittsburgh, PA
2004	Research seminar, Baylor University Medical Center, Dallas
2003	Research seminar, Baylor-Charles A. Sammons Cancer Center, Dallas, Texas
2001	Research seminar, Mojave therapeutics, INC, New York
2000	CapCURE 2000, 7th Annual Scientific Retreat Program, Nevada

PROFESSIONAL MEMBERSHIPS

2019-present	Society of Leucocyte Biology (SLB)
2000-present	American Association of Immunologists (AAI)

2000-2004	International Association for Dental Research (IADR)
2001-2010	American Association of Cancer Research (AACR)
2002-2008	American Association of Dental Research (AADR)
2005-2012	American Society of Transplantation (AST)
2005-2008	American Association for the Advancement of Science (AAAS)

HONORS AND AWARDS

2025	Outstanding Course Director Award, Charles E. Schmidt College of Medicine
2024	Bruce Rendina Hero in Medicine, Palm Beach County Medical Society and Services
2024	Distinguished Mentor of the Year Award: Excellence in Undergraduate Research and Inquiry Mentorship
2022	Outstanding Problem-Based Learning (PBL) Facilitator Award, Charles E. Schmidt College of Medicine
2021	Nominated by the College for the Distinguished Mentor of the Year Award: Excellence in Undergraduate Research and Inquiry Mentorship
2020	Nominated by the College for the Distinguished Mentor of the Year Award: Excellence in Undergraduate Research and Inquiry Mentorship
2019	Employee service Award, Florida Atlantic University
2019	Outstanding Course Director Award, Charles E. Schmidt College of Medicine
2016	AAI Travel Award, International Congress of Immunology 2016
2016	Nominated by the College for the Distinguished Mentor of the Year Award: Excellence in Undergraduate Research and Inquiry Mentorship
2015	AAI Laboratory Travel Award, The American Association of Immunologists
2015	Awarded in recognition of exceptional Dedication and hard work in support of the Admissions Committee
2014	Employee service Award, Florida Atlantic University
2014	Funded Project Awards Recognition, Division of Research - Florida Atlantic University
2014	AAI Laboratory Travel Award, The American Association of Immunologists

2013	Outstanding Problem-Based Learning (PBL) Facilitator Award, Charles E. Schmidt College of Medicine
2012	Researcher Excellence Award, American Association for Laboratory Animal Science
2012	AAI Laboratory Travel Award, The American Association of Immunologists
2012	Funded Project Awards Recognition, Division of Research - Florida Atlantic University
2011	Dwight W. Warren Award for Excellence in Graduate Teaching, Florida Atlantic University- Charles E. Schmidt College of Medicine
2011	Certificate of Academic Appreciation, In recognition of exemplary contributions as a member of the Admissions Committee for the Inaugural Class
2011	Teaching and presentation Award, American Association for Laboratory Animal Science
2006-2007	Basic Science Faculty Research Award, Texas A&M University Health Science Center- Baylor College of Dentistry
1992-1996	Doctoral scholarship Award, Japan Ministry of Education
1986-1992	Graduate scholarship Award, Japan Ministry of Education

CURRICULUM VITAE
Andrew V. Oleinikov

Contact Information:

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Boca Raton, FL 33428

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Citizenship: USA

SUMMARY

Extensive experience in protein biochemistry, infectious diseases, drug discovery, immunology, vaccine development, autoimmune disease models, as well as in molecular and cell biology, including extremely dynamic areas of high-throughput approaches, siRNA technology, signal transduction, and nanobiotechnology. Great problem-solving abilities and creativity based on unique broad knowledge and experience in several fields of basic science and in technology/bioengineering. Strong funding history and publication record in peer reviewed journals. High and broad peer reviewer activity. Experience in teaching and mentoring of students with diverse backgrounds. Head of a lab.

EDUCATION

M.S. Engineering Physics (specialization in **Biophysics and Molecular Biology**)
(1977 – 1983) St. Petersburg Polytechnical University, Physical-Mechanical
Faculty, Department of Biophysics, St. Petersburg, USSR

Ph.D. Biology (Biochemistry/Molecular Biology)
(1985 – 1989) Moscow State University,
Moscow, USSR

PROFESSIONAL EXPERIENCE

2019 – present Professor
Department of Biomedical Science, College of Medicine,
Florida Atlantic University, Boca Raton, FL

2013 – 2019 Associate Professor (tenured since 2017)
Department of Biomedical Science, College of Medicine,
Florida Atlantic University, Boca Raton, FL

Accomplishments at the Florida Atlantic University**Research related:**

- *Obtained a 1 percentile score for the NIH R01 application as MPI. Funding is pending.*
- *Obtained funding from Dr. Ralph and Marian Falk Medical Research Trust as a Multi-Principal Investigator and a PI of Sub-award for a Transformational grant*

- Obtained **funding** from NIH for **three R21 grants** as a *Principal Investigator*
- Obtained **funding** from NIH for **STTR grant** as a *Principal Investigator*
- Obtained **funding** from NIH for **U01 grant** as a *Principal Investigator of Sub-award*
- Obtained **funding** from Dr. Ralph and Marian Falk Medical Research Trust as a *Multi-Principal Investigator and a Principal Investigator of Sub-award* for a Pilot grant
- Obtained **funding** from **FAU** for the **four Seed and Pilot grants** as a *Principal Investigator*
- Transferred and maintained **two NIH R01 grants** as a *Principal Investigator from previous place of work*
- Elected to the *National Academy of Inventors* (FAU chapter)
- Received **FAU 2018 Researcher of the Year** (Associate Professor category) **Award**
- **Published** four book chapters in “Encyclopedia of Malaria”, in “Understanding and Treating Small Vessel Disease”, in “Biosensors: Recent Advances and Future Challenges”, and in “Methods in Molecular Biology” series.
- **Published** twenty-five papers in peer-reviewed journals (cited >360 times), including publication (2020) in *Nature*

Teaching related:

- Nominated by the College of Medicine for the **FAU 2015 Distinguished Teacher of the Year Award**
- Received **FAU 2015 “Degree of Difference” Award** for teaching graduate students
- Mentoring and supervising research work of several graduate (PhD), master (MS), medical, and undergraduate students. **Thirteen papers** were **published by twelve students** in the lab or co-supervised in FAU
- Several works were presented at local, national, and international conferences by students contributing to the projects currently ongoing in the lab, some presentations were published as papers
- **Twenty-one students’ awards** were received by **twelve students** involved in research projects in the lab
- *Course Director* for Cell and Molecular Mechanisms of Human Disease in College of Medicine Graduate Program
- Created and currently **teaching new Graduate Course** “Advanced Molecular and Cell Biology”
- Teaching Problem Based Learning course (moderator for medical students)
- PT4 SLIQ course (moderator for medical students)

Faculty Mentoring related:

- **Mentor/Reviewer** at the FAU Proposal Development Series Program (2024-2025)
- **Mentor** at the Faculty Research Mentoring Program (2015-2018). Mentee: Dr. E. Du, Assistant Professor at the College of Engineering, FAU
- Obtained **Faculty Research Mentoring Program Award** (2015) shared with the mentee Dr. E. Du
- **Mentor** at the Faculty Research Mentoring Program (2016 – 2021). Mentee: Dr. P. Yi, Assistant Professor at the College of Engineering, FAU
- Obtained **Faculty Research Mentoring Program Award** (2016) shared with the mentee Dr. P. Yi

Service related (Department, COM, and University):

- Current member of FAU IBC committee; I-HEALTH Executive Committee; COM Graduate Program Strategic Planning Committee; Search Committee for the FAU Amyloidosis Project PI search; The Center for Sensing, Monitoring, Analytics, Remote, and Technology (SMART) Health affiliated faculty; The David and Lynn Nicholson Center for Neurodegenerative Disease Research (CNDP) affiliated Faculty. **Chair** of the Biomedical Science Faculty Search Committee. Past member of the University Graduate Committee; the College of Medicine Graduate Program committee; IBBS Graduate Program Admissions Committee; and the COM Graduate admission committee. Director of the Proteomics core at COM.

2004-2013**Principal Scientist/Independent Lab**

Seattle Biomedical Research Institute, Seattle, WA

Accomplishments:

- Identified several vaccine candidates in pregnancy malaria and severe malaria using high throughput methods including functional protein arrays
- Developed quantitative functional protein microarrays based on various platforms for high throughput drug, ligand, and antibody screening
- Developing a vaccine against pregnancy malaria for pre-clinical studies
- Initiated studies of malaria nucleic acid maintenance apparatus (miRNA/siRNA/splicing) and sub-telomeric gene silencing phenomenon using small molecule drugs
- **Published** seven papers in peer-reviewed journals (cited more than 380 times). One of the papers highlighted as a “hot paper” in Nature Reviews Microbiology (November 2007)
- **Published** a book chapter on siRNA drugs in “Handbook of Pharmaceutical Biotechnology”
- Presented work at several national and international meetings
- Filed two patent application (one patent is currently awarded)
- Served as an **adviser for the World Health Organization** (Malaria Vaccine Development)
- Served on multiple occasions as a panel reviewer for National Institute of Health
- Obtained **funding** from Bill and Melinda Gates Foundation as a collaborator in international consortium for identification of vaccine candidates in severe malaria in children (PI, Dr. P.E. Duffy)
- Obtained **funding** from Bill and Melinda Gates Foundation as a collaborator in international consortium for development of vaccine in Pregnancy Malaria (PI, Dr. P.E. Duffy)
- Appointed as a new *Principal Investigator on several NIH grants* including R01, U19, and D43
- Obtained **funding** from NIH for R21 proposal as a *Principal Investigator*
- Obtained **funding** from NIH for R56 proposal as a *Principal Investigator*
- Obtained **funding** from NIH for two R01 proposals as a *Principal Investigator*

2000 - 2003**Principal Scientist and Group Leader**

CombiMatrix Corp., Mukilteo, WA

Company business was built on the use of semiconductor microchip with thousands individually addressable electrodes used for parallel chemical synthesis of biomolecules in so-called “virtual flasks”

Accomplishments:

- Discovered a major problem in a base technology platform (electrochemical synthesis of oligonucleotides on semiconductor biochip), identified the nature of this problem, and helped to successfully solve this problem allowing an increase in yields of products by 3 to 6 orders of magnitude (depending on the number of cycles)
- Developed novel technologies for protein microarray manufacturing using *in vitro* and *in situ* protein biosynthesis and array of electrodes on semiconductor chips
- Developed (in collaboration with others) antibody microarrays for cytokine detection
- Developed technology for long gene assembly using electrochemical synthesis of oligonucleotide arrays and biochemical methods
- Developed technology for anti-sense drug compound screening using custom oligonucleotide microarrays

- Developed technology for fast and efficient preparation of siRNA mixtures using custom electrochemical synthesis of oligonucleotides on semiconductor biochip for use in gene down-regulation by RNA interference (RNAi) and for potential drug discovery
- Filed two patent applications (one patent is currently awarded)
- Obtained **funding** from NIH for **two grants** as a Principal Investigator
- Qualified for scientific merit and advanced to the second stage with a grant proposal to Advanced Technology Program as Principal Investigator
- **Published** three papers (cited more than 240 times). One of the published papers was selected in September 2003 among *Top 10 Hidden Jewels in Chemical Biology* Section by Faculty 1000 - an online research tool that highlights the most interesting papers in biology, based on the recommendations of over 1000 leading scientists

1997 - 2000

Research Assistant Professor

Department of Pediatrics, Division of Nephrology,
School of Medicine, University of California, Davis

Accomplishments:

- Identified Dab2 adaptor protein as the first intracellular ligand of megalin, an endocytic receptor belonging to LDL-receptor superfamily and major autoantigen of Heymann nephritis (a model for human acute and chronic glomerular nephritis and end-stage renal failure).
- Suggested and published a hypothesis for dual role of Dab2 in endocytosis and signaling, confirmed later by others
- Cloned and characterized megalin promoter
- Characterized roles for T- and B-cell epitopes in Heymann nephritis
- Identified and characterized immunopathogenic region of megalin
- **Published** five papers on megalin biology in peer reviewed journals and a paper on structure-function relationships of ribosomal protein L7/L12 using combination of genetic methods, chemical cross-linking, and biochemical assays in PNAS USA, which was communicated by National Academy member H. Noller (cited more than 310 times)
- **Obtained several grants** as Principal Investigator to support scientific work of my own lab with a total value of direct costs of more than \$213,000

1995 - 1996

Postdoctoral Fellow with Prof. S.P. Makker

Department of Pediatrics, Division of Nephrology,
School of Medicine, University of California, Davis

Accomplishments:

- Initiated work on pathogenic and tolerogenic potential of megalin B-cell epitopes in experimental glomerular nephritis (Heymann nephritis)
- Identified new form of gp330/megalyn using primary structure studies
- Presented work at several national and international meetings and **published** a paper in peer reviewed journal. Created basis for future independent studies in megalin field

1991 - 1995

Postdoctoral Fellow with Prof. R.R. Traut

Department of Biological Chemistry,
School of Medicine, University of California, Davis

Accomplishments:

- **Published** eleven papers in peer reviewed journals and a book chapter describing our studies on the process of ribosomal elongation during protein biosynthesis and structure-function relationship of ribosomal protein L7/L12 using different genetic constructions, chemical cross-linking, biochemical and biophysical techniques (cited more than 470 times).
- One of the papers was published in PNAS USA. It was communicated to the journal by D. E. Koshland Jr., member of the National Academy of Sciences and former editor of the journal "Science".

1988 – 1991**Research Scientist**

Protein Chemistry Lab,
Institute of Protein Research, Russian Academy of Science,
Pushchino, Russia.

Accomplishments:

- Solved primary structure of eukaryotic elongation factor 2 (EF-2) using molecular biological, biochemical and biophysical approaches
- Determined primary structure of N-terminal part of α -actinin
- Developed project for studies of partial activities of EF-2
- Characterized appearance of a reticulocyte population low in lipoxigenase mRNA during the recovery from a phenylhydrazine-induced anemia in rabbits
- *Published* three papers in peer reviewed journals (cited more than 30 times)
- Defended Ph.D. thesis at Moscow State University

1985 - 1988**Graduate Student with Prof. Yu. B. Alakhov**

Protein Chemistry Lab,
Institute of Protein Research, Russian Academy of Science,
Pushchino, Russia.

Accomplishments:

- Developed primer-extension method for specific cDNA cloning and applied it for cloning rat EF-2 cDNA
- Discovered and described specific effects of mRNA secondary structure on efficacy of EF-2 cDNA synthesis
- Sequenced full-length rat EF-2 cDNA
- Prepared Ph.D. thesis for defending at Moscow State University

1983 - 1985**Research Associate**

Protein Chemistry Lab,
Institute of Protein Research, Russian Academy of Science,
Pushchino, Russia.

Accomplishments:

- Mastered molecular-biological, biochemical and biophysical methods for structure-functional studies of EF-2
- Participated in biochemical and biophysical characterization of EF-2

TEACHING EXPERIENCE**2007 – 2013**

Mentor at the Seattle Pacific University Mentor Program

2006, 2011	Faculty at the annual East African training workshops for young African scientists in Tanzania (2 weeks duration each; teaching protein biochemistry, protein structure analysis and bioinformatics, vaccine development, infectious diseases, drug discovery)
2011 – 2013	PI for the Fogarty-funded training program focused on East Africa (see details below)
2011, 2012	Lectured for the graduate course Biochemistry and Genetics of Pathogens and their Hosts (PABIO 551) at the Department of Global Health at the University of Washington, Seattle
2013 – present	Mentored three PhD students as a chair and five as a committee member, ten MS students as a chair and three as a committee member, three medical students (summer work), one international medical student research (one semester), and five undergraduate students
2013 – present	Mentor at the FAU Faculty Research Mentoring Program
2014 – present	Developed a new curriculum and <u>currently teaching</u> Advanced Molecular and Cellular Biology course to graduate students. Lecture in a course in Biomedical Concepts and Translational Applications. Facilitate Problem Based Learning to the first-year medical students.

Recent presentations by students working on my projects at FAU at student's and research conferences

1. Tiffany Olier, Justin Gullingsrud, Atis Muehlenbachs, Andrew V. Oleinikov. “*Evaluation of Conditions for the Quantification of Megalin and Dab2 Proteins in Human Placenta by Immunofluorescence Assay*” – FAU Medical Students Research Day, March 10, 2014
2. Shalondria Sears, Jordan Merritt, Andrew V. Oleinikov and Ewa P. Wojcikiewicz. “*Single cell force spectroscopy to characterize the interaction between two PfEMP1 domains and monocytes*”. The Florida Undergraduate Research Conference (FURC), Embry-Riddle Aeronautical University in Daytona Beach, Florida, February 27-28, 2015.
3. Jordan Merritt, Yoshimi Shibata, Andrew Oleinikov. “*Discovery of highly reactive malaria-specific surface proteins*” – 6th GPSA Annual Research Day, FAU, March 13, 2015
4. Jared Lybbert, Justin Gullingsrud, Olga Chesnokov, Eleanor Turyakira, Mehul Dhorda, Philippe J. Guerin, Patrice Piola, Atis Muehlenbachs, Andrew V. Oleinikov. “*Abundance of megalin and Dab2 is reduced in syncytiotrophoblast during placental malaria, which may contribute to low birth weight*” – GPSA Research Day, FAU, April 7, 2016
5. Merritt J, Gullingsrud J, Oleinikov AV – “*Phagocytic Efficiency of Beads Coated with Various Malarial PfEMP1 Domains by Monocytes/Macrophages Depends on the Domain Identity and/or Binding Avidity to Monocyte Surface Receptors*”. GPSA Research Day, FAU, April 14, 2017. AWARDED 1st Place.
6. Merritt J, Gullingsrud J, Oleinikov AV – “*Phagocytic Efficiency of Beads Coated with Various Malarial PfEMP1 Domains by Monocytes/Macrophages Depends on the Domain Identity and/or Binding Avidity to Monocyte Surface Receptors*”. (2017) 66th Annual meeting of American Society of Tropical Medicine and Hygiene, November 4-9, 2017, Baltimore, MD. Poster session and Young Investigator Award presentations.
7. Khachatryan M, Merritt J Oleinikov AV – “*Determination of Equilibrium Constants of Interaction Between CD36 and Individual PfEMP1 Domains*”. 2018 College of Medicine Graduate Student Research Day. April 13, 2018. AWARDED 1st Place
8. Merritt J, Khachatryan M, Gullingsrud J, Oleinikov AV – “*An in-vitro malaria naïve host model correlating parasitic PfEMP1 domain specificity and avidity toward cell surface receptor CD36 with phagocytic efficiency by monocyte-like THP-1 cells*” (2018) 9th GPSA Annual Research Day 2018, March 20, 2018. AWARDED 1st Place

9. Matthew Araujo, Ashley Simkovitch, Irina Oleinikov, Tanbir Najrana, Adel Nefzi, Jake Kurtis, Andrew Oleinikov – “*Identification of Novel Drugs That Mimic Lethal Antibody Binding to PfGARP in P. falciparum*” (2025) GPSA Annual Research Day 2025, April 4, 2025. AWARDED 2nd Place
10. Liliana Ponkratova*, Sabrina Islam*, Hongyuan Xu, Irina V. Oleinikov, Andrew V. Oleinikov, Jeffrey Dvorin, Sarah E. Du – “*Biophysical Studies of Plasmodium falciparum Gametocyte Rigidity in relevance to PfBLEB Deficiency*” (2025) GPSA Annual Research Day 2025, April 4, 2025. AWARDED 3rd Place
11. Matthew Araujo, Ashley Simkovitch, Irina Oleinikov, Tanbir Najrana, Adel Nefzi, Jake Kurtis, Andrew Oleinikov – “*Identification of Novel Drugs That Mimic Lethal Antibody Binding to PfGARP in P. falciparum*” (2025). March Malaria Madness Meeting 2025, Orlando. Talk presented by Matthew Araujo.
12. Liliana Ponkratova*, Sabrina Islam*, Hongyuan Xu, Irina V. Oleinikov, Andrew V. Oleinikov, Jeffrey Dvorin, Sarah E. Du – “*Biophysical Studies of Plasmodium falciparum Gametocyte Rigidity in relevance to PfBLEB Deficiency*” (2025) March Malaria Madness Meeting 2025, Orlando. Talk presented by Sabrina Islam

Recent FAU Student Awards (total 27 awards by students doing research in the lab)

- Distinction through Discovery Summer Undergraduate Research Fellowship (SURF) Award
Student: Shalondria Sears
Project Period: Summer 2015
Student stipend of \$3500
- Distinction through Discovery Undergraduate Research Grant
Students: Shalondria Sears and Amrutha Sasikumar
Project Period: Feb 19, 2015- Feb 18, 2016
Budget: \$1000
- FAU GRIP Award
Student: Jared Lybbert
Project Period and budget: June 30, 2015 - July 1, 2016. \$1,500
- 2016 FAU-FAMU fund for research supply
Awarded by the decision of the Associate Dean for Diversity and Inclusion based on the training program
Student: Michelle Wilson
Project Period: May 23 – August 5, 2016
Budget: \$1,600
- 2017 COM BMS Spring Graduate Student Research Day Award
Awarded by COM judges based on the quality of the research and presentation
Student: Jordan Merritt
1st Place
- 2017 FAU GPSA Travel Award (for presentation of student work at the International 65th Meeting of the American Society of Tropical Medicine and Hygiene – Poster and Young Investigator Award).
Student: Jordan Merritt
Budget: \$600
- 2017 FAU-FAMU fund for research supply
Awarded by the decision of the Associate Dean for Diversity and Inclusion based on the proposed training program
Student: Amber Hannah
Project Period: May 25 – August 5, 2018
Budget: \$1,640
- 2018 FAU 9th Annual GPSA Research Day

Awarded by special panel of FAU judges based on the scientific quality of presented research in Category “Health Science”

Student: Jordan Merritt

1st Place, Budget \$750

- 2018 COM BMS Spring Graduate Student Research Day Award

Awarded by COM judges based on the quality of the research and presentation

Student: Mariam Khachatryan

1st Place

- 2018 COM Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Jordan Merritt

Project Period: January 2018 – December 2018

Budget: \$5,000

- 2019 FAU-FAMU fund for research supply

Awarded by the decision of the Associate Dean for Diversity and Inclusion based on the proposed training program

Student: Dalisa Sims

Project Period: June 10 – August 1, 2019

Budget: \$1,655

- 2019 COM Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Valentina Goldberg

Project Period: September 2019 – September 2020

Budget: \$5,000

- 2019 COM Student Summer Research Assistantship

Awarded by the decision of COM Graduate Strategic Planning Committee

Student: Pimnitah Visitdesotrakul

Project Period: Summer 2019

Budget: \$5,000

- 2020 FAU Undergraduate Research Grant Award

Awarded by the decision of the Office of Undergraduate Research and Inquiry (OURI)

Student: Amanda Balash

Project Period: Spring 2020

Budget: \$1,800

- 2020 FAU Undergraduate Research Grant Award

Awarded by the decision of the Office of Undergraduate Research and Inquiry (OURI)

Student: Amanda Balash

Project Period: Summer 2020 – Fall 2020

Budget: \$600

- 2020 FAU OURI UG Research Grant

Awarded by the decision of the Office of Undergraduate Research and Inquiry (OURI)

Student: Amanda Balash

Project Period: Fall 2020 – Spring 2021

Budget: \$600

- 2020 COM Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Pimnitah Visitdesotrakul

Project Period: Fall 2020 – Spring 2021

Budget: \$5,000

- 2021 FAU OURI UG Research Grant

Awarded by the decision of the Office of Undergraduate Research and Inquiry (OURI)

Student: Matthew Araujo

Project Period: Spring 2021

Budget: \$600

- 2022 FAU Undergraduate Research Grant Award

Awarded by the decision of the Office of Undergraduate Research and Inquiry (OURI)

Student: Hannah Wahba

Project Period: Summer 2022 – Fall 2022

Budget: \$600

- 2022 FAU Graduate Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Matthew Araujo

Project Period: Fall 2022 – Summer 2023

Budget: \$5,000

- 2024 Summer Undergraduate Research Fellowship (SURF) Award

Awarded by the decision of Office of Undergraduate Research and Inquiry (OURI) Student: Matthew Araujo

Student: Kaitlyn Morgan

Project Period: Summer 2024

Budget: \$4,000

- 2024 FAU Graduate Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Sabrina Islam

Project Period: Fall 2024 – Summer 2025

Budget: \$5,000

- 2025 FAU COM Graduate Student Summer Stipend

Student: Matthew Araujo

Project Period: Summer 2025

Budget: \$5,000

- 2025 FAU COM Graduate Student Summer Stipend

Student: Sabrina Islam

Project Period: Summer 2025

Budget: \$5,000

- 2025 FAU COM Graduate Program Student Summer Assistantship

Student: Larah Gorayeb

Project Period: Summer 2025

Budget: \$5,000

- 2025 FAU Graduate Student Research Award

Awarded by the decision of COM administration based on scientific review by the panel of Professors at COM

Student: Matthew Araujo

Project Period: Fall 2025 – Summer 2026

Budget: \$5,000

- 2025 Dr. Daniel B. Newell & Aurel B. Newell Doctoral Fellowship

Student: Matthew Araujo

Fellowship Period: Fall 2025 – Summer 2026

Budget: \$5,000

Long-term trainees

Pre-doctoral

SBRI, 2007 – 2013, 5 trainees

FAU, 2013 – Present, 21 trainees

Post-doctoral

UC Davis 1997 – 2000, 1 trainee

CombiMatrix Corp, 2000-2003, 2 trainees

SBRI, 2007 – 2013, 5 trainees

FAU, 2013 – Present, 3 trainees

In 2010 – 2013 served as a **PI on NIH D43 Fogarty Training grant** and participated in two D43 grant-funded East African Workshops (two-weeks duration each) in 2006 “Vaccines for Parasitic Diseases” and 2011 “Drugs and Drug Resistance” as a faculty teaching total of **48 trainees** from Tanzania, Kenya, and Uganda. Also, as a PI on this grant, I participated in **long-term training**:

Pre-doctoral

	<i>Name</i>	<i>Current position</i>
2010-2011	Gladys Keitany	Adaptive Biotechnologies Corp., Seattle, WA
2011-2013	Michael Odera	Egerton University, Department of Biological Sciences, Kenya

Post-doctoral

2011-2013	Moses Gwamaka	Senior Lecturer at Teofilo Kisanji University, Mbeya, Tanzania
2011-2013	Edward Kabyemela	Lecturer, Muhimbili University, Dar-es-Salaam, Tanzania

PROFESSIONAL SOCIETIES

2002 American Society for Cell Biology

2006-present American Society for Tropical Medicine and Hygiene

HONORS AND AWARDS

1977 HS Diploma with Honors

1883 MS Diploma with Honors

2003 A paper in the *Journal of Proteome Research* (#21 in Publication list) has been selected as ‘**Top 10 Hidden Jewels in Cell Biology**’ by “Faculty of 1000”

2005 A paper in the *Nucleic Acid Research* (24 in Publication list) has been added to a special ‘**NAR Hot Papers**’ web page by Oxford Journals.

2007 A paper in the *Infection and Immunity* (#26 in Publication list) has been highlighted in Nature Reviews Microbiology (November 2007) in a “hot papers” section.

2015 Nominee for the FAU *Distinguished Teacher of the Year* Award

2015 FAU “*Degree of Difference*” Award by FAU alumni for teaching graduate students

2015 FAU *Faculty Research Mentoring Program* Award (2015) shared with mentee Dr. E. Du

2016 FAU *Faculty Research Mentoring Program* Award (2016) shared with mentee Dr. P. Yi

2018 FAU *Researcher of the Year* Award

2022 Elected Member, *National Academy of Inventors*

GRANT AWARDS

Short summary. Dr. Oleinikov was awarded more than **6.2 million dollars in direct cost** on external grants from **NIH** (n=14), which he obtained as the **Principal Investigator (PI)**. In addition, he was a ***collaborator*** on two consortium grants from Bill and Melinda Gates Foundation (for the total amount of more than **28 million dollars**), on which he has also served as the **PI** at the Seattle Biomedical Research Institute in 2011 – 2013. He also received two collaborative Dr. Ralph and Marian Falk Medical Research Trust awards (**\$300,000** and **\$1,000,000** direct costs, respectively) as ***Multi Principal Investigator***. Internal FAU grants for **>\$145,000** have been obtained as well.

Ongoing (older to newer)

2022-2026 “Functional investigation of a novel and essential subcellular compartment in *Plasmodium falciparum* transmission stage parasites”
NIH R01AI169648 (Total Cost \$775,289/year; Total Direct Cost of sub-award \$200,000)
Co-Investigator and Principal Investigator of Sub-award

2023-2025 “Apoptosis-inducing Anti-Malaria Drugs Targeting PfGARP”
Dr. Ralph and Marian Falk Medical Research Trust *Transformational* Award (Total direct cost \$1,000,000, Total Direct cost of Sub-award \$302,000)
Multiple PI and Principal Investigator of Sub-award

Pending

2025-2030 “Discovery and development of novel antimalarial drugs”
NIH R01 AI195885-01 (Total direct cost \$2,499,285).
Grant proposal obtained **1%-tile** and is pending.
Multiple Principal Investigator

Completed (older to newer)

1997-1998 “Studies of T-cell epitopes of the autoantigen of active Heymann nephritis”.
UC Davis Health System Research Award (Direct cost: \$108,000)
Principal Investigator

1997-1999 “Studying the trafficking of endocytosis receptor gp330/600 - a major autoantigen of Heymann nephritis”
Children’s Miracle Network Research Grants (Direct cost: \$105,650).
Principal Investigator

2002-2003 “Self-assembling Protein Microchips”
NIH 1R43-HG02461-01 (Direct cost: \$100,000)
Principal Investigator

- 2003-2004** “Fast and efficient screening for antisense compounds using custom oligonucleotide arrays”
NIH SBIR grant proposal obtained fundable score; surrendered upon leaving the Company. (Direct cost: \$100,000)
Principal Investigator
- 2005-2013** “Protective Immunity Against Severe Malaria in Young Children”
Grant 1364, Grand Challenges in Global Health awarded by Bill and Melinda Gates Foundation (Direct cost \$17,830,000). Consortium grant.
Collaborator (Principal Investigator at SBRI from February 2011 till April 2013)
- 2007-2010** “High throughput analysis of malarial surface antigens”
NIH 5R21AI064503 (Direct cost \$275,000)
Principal Investigator
- 2007-2012** “Immunogens for a vaccine that will prevent pregnancy malaria globally”
Bill and Melinda Gates Foundation (Total cost \$8,998,623). Consortium grant.
Collaborator (Principal Investigator at SBRI from February 2011 till November 2012)
- 2010-2013** “Malaria at the Mother-child Interface”
NIH 5D43TW005509-08 REVISED (Direct cost \$129,720/year)
Principal Investigator
- 2009-2011** “Preventing Pregnancy Malaria: Maternal-Infant Outcomes”
NIH 5U19AI065664-05 REVISED (Total cost \$1,820,324/year)
Principal Investigator
- 2010-2012** “High throughput screening for anti-adhesion drugs to treat severe malaria”
NIH 1R56AI083668-01A2 (Direct cost \$250,000)
Principal Investigator
- 2010-2014** “Pathways of Maternal Anemia”
NIH 5R01HD058005-03 REVISED (Direct cost \$337,485/year)
Principal Investigator
- 2011-2016** “Identification of vaccine candidates against severe malaria”
NIH 1R01AI092120-01 (Direct cost \$250,000/year)
Principal Investigator
- 2016-2019** “Mechanisms of placental dysfunction in pregnancy malaria”
NIH 1R21AI105506 (Total direct cost \$275,000)
Principal Investigator
- 2017-2020** “Placenta-on-a-Chip Sensing Platform to Study Placental Malaria”
NIH 1R21HD092779-01 (Total cost: \$400,154)
Multi-Principal Investigator
- 2017-2019** “Highly sensitive isothermal method and instrument for field diagnostics to facilitate malaria eradication”
NIH 1R41AI129130-01A1 (Total cost: \$150,000)
Principal Investigator
- 2018-2022** “High throughput screening for anti-adhesion drugs against placental and cerebral malaria”

NIH R21AI137721 (Total cost \$476,438)

Principal Investigator

2020-2023 “Discovery and pre-clinical development of efficacious *P. vivax* pre-erythrocytic stage malaria vaccines”

NIH U01AI155363 (Total Cost \$579,000/year; Total Cost of sub-award \$92,336)

Principal Investigator of Sub-award

2021-2023 “Apoptosis-inducing Anti-Malaria Drugs Targeting PfGARP”

Dr. Ralph and Marian Falk Medical Research Trust *Pilot Award* (Total direct cost \$300,000, Total Direct cost of Sub-award \$60,000)

Multiple PI and Principal Investigator of Sub-award

Internal FAU Grants

2014-2015 “Mechanisms of Interaction between Malaria-infected Erythrocytes and Monocyte/Macrophages and Modulation of Innate Immune Activity”

FAU Seed Grant (Direct cost \$34,950)

Principal Investigator

2019-2020 “Global transcriptional changes in monocyte/macrophages in response to interactions with surface proteins of malaria-infected erythrocytes”

Pilot Research Award (Total cost \$20,000)

Principal Investigator

2020-2021 “Development of apoptosis-inducing anti-malarial drugs targeting PfGARP”

Bridge Fund (Total cost \$20,000)

Principal Investigator

2021-2022 “A novel mechanobiological approach for characterization of PfGARP – a promising vaccine and drug target for *P. falciparum* malaria”

COECS-ISENSE seed Award (Total cost \$20,000)

Principal Investigator

2022-2023 “Development of a microfluidic cell prism for label-free cell sorting between live and dead plasmodium falciparum parasites,”

I-HEALTH Pilot Award (Total cost \$25,000)

Multi-Principal Investigator

2024-2025 “Elucidation of the fundamental biophysical characteristics of malaria infection and parasite death”

ISENSE/COECS Pilot (SEED) award (Total cost \$25,121)

Co-Investigator

PATENTS

1. Oleinikov AV. “*In vitro* protein translation microarray device”, (2002) # 10/229714 and 2004/0043384 (filed with US Patent and Trademark Office and European Patent Office (EPO)).

2. Oleinikov AV. “Microarray synthesis and assembly of gene-length polynucleotides”. US Patents #7,323,320 (issued 01-29-2008), #7,563,600 B2 (issued 07-21-2009), # 8,058,004 (issued 11-15-2011), #9,023,601 (issued

05-05-2015), #9,051,666 (issued 05-05-2015), #10,450,560 B2 (issued 10-22-2019), and # 10,640,764 (issued 04-15-2020), # 10,774,325 (issued 09-15-2020) by US Patent and Trademark Office, also filed with EPO).

3. Fried M, Duffy PE, Francis S, Wendler JP, Mutabingwa TK, Oleinikov AV. “Malaria vaccines” Patent #7,655,247 B2 (**issued 02-02-2010**) and #8,012,493 B2 (**issued 09-06-2011**) by US Patent and Trademark Office. Assignees: SBRI and USA by Secretary of Army.

4. Oleinikov AV and Duffy PE. “*Plasmodium* Surface Antigen Binding Domain” (2009) (provisional, filed with US Patent and Trademark Office).

5. Kurtis J, Oleinikov AV, Dipak R. “Composition and methods for the treatment of *Plasmodium falciparum* malaria” (2022) (Application #20240156776, filed with US Patent and Trademark Office and International Patent Application).

PEER REVIEW ACTIVITIES

Member of the Editorial Board

- Scientific Reports

Ad Hoc reviewer for journals:

- Applied Biochemistry and Biotechnology
- Biochemistry
- Biochemical Journal
- BMC Microbiology
- eLife
- Frontiers in Cellular and Infection Microbiology
- Infection and Immunity
- Journal of Biological Chemistry
- Journal of Infectious Diseases
- Journal of Leukocyte Biology
- Nature Communications
- Nature Structural and Molecular Biology
- PLoS One
- Proteomics
- Scientific Reports

Member of Peer Review Board

- Journal of Visualized Experiments

Scientific Adviser for World Health Organization

- Development of vaccines against Malaria in Pregnancy

Reviewer for Natural Sciences and Engineering Research Council of Canada

- Discovery Grants Program

Ad Hoc reviewer for the Medical Research Council (United Kingdom) (August 2018)

Ad Hoc NIH reviewer:

- ZRG1 IDM-Z (55) R (**Panel reviewer**) (October 2018)
- ZRG1 BDCN-S(02) (**Panel reviewer**) (July 2017)

- PTHE (**Panel reviewer**) (February 2017)
- CNBT (**Panel reviewer**) (October 2015)
- ZRG1 BCMB-A (51) R (mail reviewer) (March 2015)
- IRAP (**Panel reviewer**) (September 2014)
- ZGM1-TWD-6 (SC) (**Panel reviewer**) (March 2014)
- ZRG1 IDM-U 56 R (Special Emphasis **Panel reviewer**) (November 2013)
- CNBT (**Panel reviewer**) (October 2012)
- ZRG1 AARR-D (42) (Special Emphasis **Panel reviewer**) (August 2012)
- ZRG1 BST-F (30) (Special Emphasis **Panel reviewer**) (October 2009)
- ZRG1 IDM-C (58) (mail reviewer) (July 2009)
- ZRG1 IMM-E (58) (mail reviewer) (July 2009)

PUBLICATIONS IN PRINT (peer-reviewed, newest on top)

Short Summary

Total number of citations is >2047 (papers only, n=57)

Average # of citations for all publications (excluding chapters) = 36/publication

6 book chapters, >70 abstracts, 5 filed patents resulted in 10 patents issued

30 papers and chapters with first, corresponding, or senior authorship*

ORCID ID: <https://orcid.org/0009-0009-9386-1208>

Hirsch Index = 27

1. Osmanli Z, Aldrian G, Leclercq J, Falgarone T, Gómez Bergna SM, Prada Gori TM, Oleinikov AV, Shahmuradov I, Kajava AV - Protein tandem repeats that produce frameshifts can generate new structural states and functions. (2025) *FASEB J*. Sep 24. doi: 10.1111/febs.70273. Epub ahead of print. PMID: 40988544
2. Oleinikov AV*, Seidu Z, Oleinikov IV, Tetteh M, Lamptey H, Ofori MF, Hviid L, Lopez-Perez M. – Profiling the PfEMP1-specific IgG response among Ghanaian children with hemoglobin S and C. (2024) *J. Infect. Dis.* 29(1):203-213. doi: 10.1093/infdis/jiad438. Epub ahead of print. PMID: 37804095.
3. Islam T[#], Chesnokov ON, Oleinikov AV, Yi P. – Supported Erythrocyte Membranes on Piezoelectric Sensors for Studying the Interactions with Nanoparticles. (2023) *Langmuir* 39(49):17770-17781. doi: 10.1021/acs.langmuir.3c02396. Epub 2023 Dec 1. PMID: 38039387
4. Mosavati B[#], Oleinikov AV, Du E. – 3D microfluidics-assisted modeling of glucose transport in placental malaria. (2022) *Sci Rep* 12, 15278. PMID: 36088464, DOI:10.1038/s41598-022-19422-y
5. Oleinikov AV*. Malaria Parasite Plasmodium falciparum Proteins on the Surface of Infected Erythrocytes as Targets for Novel Drug Discovery. (2022) *Biochemistry (Moscow)*, Vol. 87, Suppl. 1, pp. S192-S202 (ISSN 0006-2979) PMID: 35501996. (invited review)
6. Keitany GJ[#], Jenkins BJ, Obiakor HT, Daniel S, Muehlenbachs A, Semblat JP, Gamain B, Doritchamou JYA, Desai SA, MacDonald NJ, Narum DL, Morrison R, Saveria T, Vignali M, Oleinikov AV, Fried M, Duffy PE. An invariant protein that co-localizes with VAR2CSA on Plasmodium falciparum-infected red cells binds to chondroitin sulfate A. (2022) *J. Infect. Dis.* Vol. 225(11), pp. 2011-2022. doi:10.1093/infdis/jiab550. PMID: 34718641
7. Chesnokov O, Visitdesotrakul P[#], Kalani K, Nefzi A, Oleinikov AV* – Small Molecule Compounds Identified from Mixture-Based Library Inhibit Binding between Plasmodium falciparum Infected Erythrocytes and Endothelial Receptor ICAM-1 (2021) *Int J Mol Sci* V. 22, pp. 5659 (<https://doi.org/10.3390/ijms22115659>)
8. Rahman F, Libre C, Oleinikov A, Tcherniuk S – Chloroquine and pyrimethamine inhibit the replication of human Respiratory Syncytial Virus A (2021) *J Gen Virol*, V. 102(8). doi: 10.1099/jgv.0.001627.

9. Badaut C, Visitsottrakul P[#], Chabry A, Bigey P, Torniyigah B, Roman J, Alao MJ, Annick A, Serge A, Sagbo G, Tuikue-Ndam N, Oleinikov AV, Tahar R – IgG acquisition against PfEMP1 PF11_0521 domain cassette DC13, DBL β 3_D4 domain, and peptides located within these constructs in children with cerebral malaria (2021) *Scientific Reports*, V. 11, pp. 3680 (<https://doi.org/10.1038/s41598-021-82444-5>)
10. Padilla A[#], Dovell S, Chesnokov O, Hoggard M, Oleinikov AV*, Marí F. – *Conus venom* fractions inhibit the adhesion of *Plasmodium falciparum* erythrocyte membrane protein 1 domains to the host vascular receptors. (2021) *Journal of Proteomics*, V. 234, pp. 104083 (doi: 10.1016/j.jprot.2020.104083)
11. Mosavati B[#], Oleinikov AV, Du E. – Development of an Organ-on-a-Chip-Device for Study of Placental Pathologies (2020) *Int. J. Mol. Sci.* V. 21, pp. 8755. (doi:10.3390/ijms21228755).
12. Raj DK, Mohapatra AD, Jnawali A, Jha A, Cham-Kpu G, Sherman B, Nixon CE, Hilton N, Rudlaff RM, Dvorin JD, Oleinikov AV, Chesnokov O, Merritt J[#], Pond-Tor S, Jolly G, Mamoun CB, Kabyemela E, Muehlenbachs A, Lambert L, Orr-Gonzalez S, Fidock D, Gnädig N, Park S, Pardi N, Weissman D, Mui BL, Tam YK, Friedman JF, Fried M, Duffy PE, Kurtis JD – Antibodies to PfGARP kill *Plasmodium falciparum* malaria parasites by activating programmed cell death and protect against infection and severe disease. (2020) *Nature*, V. 582 (7810), pp. 104-108. PMID: 32427965. (<https://doi.org/10.1038/s41586-020-2220-1>).
13. Liu J[#], Chesnokov O, Oleinikov I, Qiang Y, Oleinikov AV, Du E. – Optimization of in vitro trophoblast assay for real-time impedimetric sensing of trophoblast-erythrocyte interactions in *Plasmodium falciparum* malaria. (2020) *Analytical and Bioanalytical Chemistry*, V. 412 (16), pp. 3915-3923. doi: 10.1007/s00216-020-02413-1.
14. Smith M, Smith K, Olstein A, Oleinikov A, Ghindilis A. – Restriction Endonuclease-Based Assays for DNA Detection and Isothermal Exponential Signal Amplification. (2020) *Sensors*, V. 20, pp. 3873; doi:10.3390/s20143873
15. Liu J[#], Mosavati B[#], Oleinikov AV, Du E. – Biosensors for Detection of Human Placental Pathologies: A Review of Emerging Technologies and Current Trends. (2019) *Translational Research*, pii: S1931-5244 (19), 30096-9
16. Quintana MP, Ecklu-Mensah G, Tcherniuk SO, Ditlev SB, Oleinikov AV, Hviid L, Lopez-Perez M – Comprehensive analysis of Fc-mediated IgM binding to the *Plasmodium falciparum* erythrocyte membrane protein 1 family in three parasite clones. (2019) *Scientific Reports* V. 9: 6050.
17. Ghindilis AL, Chesnokov O, Ngasala B, Smith MW, Smith K, Mårtensson A, Oleinikov AV*. Detection of sub-microscopic blood levels of *Plasmodium falciparum* using Tandem Oligonucleotide Repeat Cascade Amplification (TORCA) assay with an attomolar detection limit. (2019) *Scientific Reports*, V9: 2901.
18. Chesnokov O, Merritt J[#], Tcherniuk SO, Milman N, Oleinikov AV* – *Plasmodium falciparum* infected erythrocytes can bind to host receptors integrins α V β 3 and α V β 6 through DBL δ 1_D4 domain of PFL2665c PfEMP1 protein. (2018) *Scientific Reports*, V. 8:17871.
19. Tessema SK, Utama D, Chesnokov O, Hodder AN, Lin CS, Harrison GLA, Jespersen JS, Petersen B, Tavul L, Siba P, Kwiatkowski D, Lavstsen T, Hansen DS, Oleinikov AV, Mueller I, Barry AE – Antibodies to ICAM1-binding PfEMP1-DBL β are biomarkers of protective immunity to malaria in a cohort of young children from Papua New Guinea. (2018) *Infection & Immunity*, 86(8). pii: e00485-17 (doi:10.1128/IAI.00485-17)
20. Tcherniuk SO, Chesnokova O, Oleinikov IV, Oleinikov AV* – Nicotinamide inhibits the growth of *P. falciparum* and enhances the antimalarial effect of artemisinin, chloroquine and pyrimethamine. (2017) *Mol. Biochem. Parasitol.* V. 216, p. 14-20
21. Lybbert, J[#]. Gullingsrud J, Chesnokov O, Turyakira E, Dhorda M, Guerin PJ, Piola P, Muehlenbachs A, Oleinikov AV*. Abundance of megalin and Dab2 is reduced in syncytiotrophoblast during placental malaria, which may contribute to low birth weight. (2016) *Scientific Reports*, V. 6, 24508; doi: 10.1038/srep24508.

22. Tcherniuk SO, Chesnokova O, Oleinikov IV, Potopalsky AI, Oleinikov AV* – Anti-malarial effect of semi-synthetic drug Amitozyn. (2015) *Malaria Journal*, V. 14, p. 425-434
23. Tcherniuk SO and Oleinikov AV* – Pgp efflux pump decreases the cytostatic effect of CENP-E inhibitor GSK923295. (2015) *Cancer Letters*, V. 361 (1), p. 97–103
24. Gullingsrud J, Milman N, Saveria T, Chesnokov O, Williamson K, Srivastava A, Gamain B, Duffy PE, Oleinikov AV* – High throughput screening platform identifies small molecules that prevent sequestration of *Plasmodium falciparum*-infected erythrocytes. (2015) *Journal of Infectious Diseases*, V. 211 (7), p. 1134–43
25. Gullingsrud J, Saveria T, Amos E, Duffy PE, Oleinikov AV* – Structure-function-immunogenicity studies of PfEMP1 domain DBL2 β PF11_0521, a malaria parasite ligand for ICAM-1. (2013) *PLoS One*, V. 8(4), p. e61323
26. Saveria T, Oleinikov AV, Williamson K, Chaturvedi R, Lograsso J, Keitany G[#], Fried M, Duffy PE – Antibodies to *E.coli* expressed C-terminal domains of *Plasmodium falciparum* VAR2CSA inhibit binding of CSA-adherent parasites to placental tissue. (2013) *Infection & Immunity*, V.81 (4), p. 1031-1039
27. Fried M, Avril M, Chaturvedi R, Fernandez P, Lograsso J, Narum D, Nielsen MA, Oleinikov AV, Salanti A, Saveria T, Williamson K, Dicko A, Scherf A, Smith JD, Theander TG, Duffy PE – Multilaboratory approach to preclinical evaluation of vaccine immunogens for placental malaria. (2013) *Infection & Immunity*, 81 (2), p. 487-495.
28. Oleinikov AV*, Voronkova V, Frey TI, Amos E, Morrison R, Fried M, Duffy PE – A plasma survey using 38 PfEMP1 domains reveals frequent recognition of the *Plasmodium falciparum* antigen VAR2CSA among young Tanzanian children. (2012) *PLoS One*, V. 7, p.e31011.
29. Oleinikov AV*, Amos E, Frey TI, Rossnagle E, Mutabingwa TK, Fried M, Duffy PE – High throughput functional assays of the variant antigen PfEMP1 reveal a single domain in the 3D7 *P. falciparum* genome that binds ICAM1 with high affinity and is targeted by naturally acquired neutralizing antibodies. (2009) *PLoS Pathogens*, V. 5, p. e1000386
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- 65***. Ghindilis AL, Chesnokov O, Ngasala B, Smith MW, Smith K, Mårtensson A, Oleinikov AV. “Detection of sub-microscopic blood levels of Plasmodium falciparum using Tandem Oligonucleotide Repeat Cascade Amplification (TORCA) assay with an attomolar detection limit”. (2019) 68th Annual meeting of American Society of Tropical Medicine and Hygiene, November 20-24, 2019, National Harbor, MD
- 66.** Mosavati B, Oleinikov AV, Du E. “Development of an Organ-on-a-chip-device for nutrient transport measurement across the placental barrier”. (2020) Innovations in Microfluidics, August 17 – 18, 2020, Boston, MA
- 67***. Raj DK, Najrana T, Wu H, Zuromski J, Nixon C, Pond-Tor S, Naik M, Wang S-H, Pennell K, Manz K, Akala H, Ong'echa JM, Dvorin J, Nefzi A, Oleinikov AV, Kurtis JD. Apoptosis inducing anti-malaria drugs targeting PfGARP”. (2022) 71st Annual meeting of American Society of Tropical Medicine and Hygiene, October 30 – November 3, 2022, Seattle, WA.
- 68.** Mosavati B, Oleinikov AV, Du E. “Microfluidics-Assisted Modeling of Nutrient Transport in Placental Malaria”. (2022) 71st Annual meeting of American Society of Tropical Medicine and Hygiene, October 30 – November 3, 2022, Seattle, WA
- 69***. Raj DK, Najrana T, Wu H, Zuromski J, Nixon C, Pond-Tor S, Naik M, Wang S-H, Pennell K, Manz K, Akala H, Ong'echa JM, *Araujo M*, *Simkovitch A*, Dvorin J, Nefzi A, Oleinikov AV, Kurtis JD. “Apoptosis inducing anti-malaria drugs targeting PfGARP”. (2023). M4 - March Malaria Madness Meeting, March 25-26, 2023, St. Augustine, FL

70*. Oleinikov AV. “Apoptosis inducing anti-malaria drugs targeting PfGARP”. (2023) CRBM CNRS invited lecture series, October 5, 2023. CRBM CNRS Montpellier, France

71. Tanbir Najrana, Hannah Wei Wu, Alan Ardito, Brajesh Singh, Yannic Johnson, Nazrin Rustamzade, Michael Chan, Camille Hebert, Emilia Ferraro, Anthony Cruz, Sunthorn Pond-Tor, Rose Guilfoyle, Audrey Kertscher, Edwin W. Mwakio, Douglas O. Ochora, Farid A. Salim, *Ashley Simkovitch*, *Matthew Araujo*, Irina Oleinikov, Ashley Bunnell, Dipak K. Raj, John Michael Ong’echa, Hoseah M. Akala, Adel Nefzi, Andrew V. Oleinikov, Jonathan D. Kurtis. “Novel drug discovery for Plasmodium falciparum malaria”. (2024) 74th Annual meeting of American Society of Tropical Medicine and Hygiene, November 13 – 17, 2024, New Orleans, LA Program Book, pg. 143

72*. Matthew Araujo, Ashley Simkovitch, Irina Oleinikov, Tanbir Najrana, Adel Nefzi, Jake Kurtis, Andrew V. Oleinikov – “Identification of Novel Drugs That Mimic Lethal Antibody Binding to PfGARP in P. falciparum” (2025). March Malaria Madness Meeting 2025, March 27-29, 2025, Orlando. *Talk presented by student Matthew Araujo*.

73*. Liliana Ponkratova#, Sabrina Islam#, Hongyuan Xu, Irina V. Oleinikov, Andrew V. Oleinikov, Jeffrey Dvorin, Sarah E. Du – “Biophysical Studies of Plasmodium falciparum Gametocyte Rigidity in relevance to PfBLEB Deficiency” (2025) March Malaria Madness Meeting 2025, Orlando. *Talk presented by student Sabrina Islam*

* - invited oral presentations

- equal contributions

Link to Andrew V. Oleinikov bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/andrew.oleinikov.1/bibliography/public/>

or https://www.researchgate.net/profile/Andrew_Oleinikov/research

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Florida Atlantic University
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Office: 561-297-0975
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Cell: 561-886-8721
Email: jousland@health.fau.edu

Citizenship

United States

Current Titles and Affiliations

Professor of Geriatric Medicine 2009 – present
Senior Advisor to the Dean for Geriatrics
Charles E. Schmidt College of Medicine

Professor (Courtesy) 2009 – present
Christine E. Lynn College of Nursing
Florida Atlantic University

Boca Raton Community Hospital (Teaching Staff) Present
Delray Medical Center

Associate Medical Director, Harbour's Edge Health Center
Senior Advisor for Geriatrics and Healthy Aging, Lifespace Communities
Consultant Longevity Health Plan (Institutional Special Needs Program)
Consultant, Conviva Physicians Group

Associate Director, FAU/West Palm VA/Conviva Geriatric Medicine Fellowship Program

Previous Academic and Professional Appointments

Interim Chair 2021 – 2022
Senior Associate Dean for Clinical Affairs,
Department of Integrated Medical Science
Schmidt College of Medicine, Florida Atlantic University

Chair, Department of Integrated Medical Science 2013 - 2020
Schmidt College of Medicine, Florida Atlantic University

Interim Director 2015 – 2016
FAU Internal Medicine Residency Program

Professor, Charles E. Schmidt College of Biomedical Science 2008 - 2010
Professor and Associate Director, Division of Gerontology and Geriatric Medicine
University of Miami Miller School of Medicine at Florida Atlantic University

Director, Institute for Quality Aging 2008 - 2009
Boca Raton Community Hospital

Joseph G. Ouslander, M.D.

Professor of Medicine (with tenure) Director, Division of Geriatric Medicine and Gerontology Chief Medical Officer, Wesley Woods Center of Emory University Director, Emory Center for Health in Aging Research Scientist, Birmingham/Atlanta VA GRECC Professor, Adult and Elder Health, Nell Hodgson Woodruff School of Nursing Clinical Consultant, Georgia Medical Care Foundation, the Medicare Quality Improvement Organization for Georgia	1996 – 2007
Professor of Medicine (with tenure)	1995 – 1996
Associate Professor of Medicine (with tenure) Multicampus Program of Geriatric Medicine and Gerontology UCLA School of Medicine	1987 - 1995
Director of Research and Education Jewish Home for the Aging of Greater Los Angeles	1987 - 1992
Assistant Professor of Medicine (tenure track) Division of Geriatric Medicine Francis Scott Key Medical Center Johns Hopkins University School of Medicine	1986 - 1987
Assistant Professor of Medicine (tenure track) UCLA School of Medicine	1982 - 1986
Director of Medical Education and Research Jewish Homes for the Aging of Greater Los Angeles	1983 - 1984
Staff Physician Geriatric Research, Education and Clinical Center VA Medical Center, Sepulveda, California	1982 - 1984
Attending Physician Northridge Hospital Family Practice Program Northridge, California	1982 - 1984
Fellow in Geriatric Medicine UCLA Multicampus Division of Geriatric Medicine and Gerontology VA Medical Center, Sepulveda, California	1979 - 1982
Resident, Internal Medicine University Hospitals of Cleveland, Ohio	1977 - 1979

Previous Administrative Appointments

Vice President for Medical Affairs Jewish Home for the Aging	1993 - 1996
Director, Geriatric Medicine Encino/Tarzana Medical Center	1993 - 1996

Joseph G. Ouslander, M.D.

Associate Director UCLA Borun Center for Gerontological Research	1990 - 1996
Medical Director Mason F. Lord Chronic Hospital and Nursing Facility	1986 - 1987
Medical Director Nursing Home Care Unit Academic Nursing Home Program Coordinator, Extended Care Services VA Medical Center, Sepulveda, California	1984 - 1986

Licensures / Boards

Florida ME101797
Georgia #042909 (through December 2008)
American Board of Internal Medicine, 1980

Specialty Boards

Geriatric Medicine, Recertified, 2010 (Certificate of Added Qualifications)
Certified Medical Director, 1993 (American Medical Directors Association)
Internal Medicine, 1980

Education

1973, B.A., Johns Hopkins University
1977, M.D., Case Western Reserve University

Postgraduate Training

Institute for Academic Leadership University of Florida system	2013
Health and Aging Policy Fellow (Atlantic Philanthropies)	2011 - 2013
American College of Physician Executives (Courses 1 and 2)	1994
University of Minnesota School of Public Health (Biostatistics, Clinical Trails)	1981
UCLA School of Public Health Program Evaluation, Long-Term Care, Research Design Quality Assessment and Assurance (Course Audited)	1979 - 1981

Committee Memberships: National and International**Centers for Medicare and Medicaid Services**

Member, Nursing Home Five-Star Technical Expert Panel	2012 – present
Member, Technical Expert Panel, Quality Measures for Nursing Homes	2012 – present
Consultant, Center for Medicare/Medicaid Services	2011 - 2012
Nursing Home Quality Assurance and Performance Program	
Technical Expert Panels on Avoidable Hospitalizations	2009 – 2011

Guidance to Surveyors on Urinary Incontinence and Urinary Infection	2003
Technical Advisory Panel on MDS 3.0	2003
Center for Medicare/Medicaid Services	
VA Committees	
Geriatrics and Gerontology Advisory Committee (advisory to the VA Undersecretary of Health)	2017 – present
NIH/VA Review Activities	
Ad hoc reviewer NIA Aging Study Section	2010
Special Study Section, NIH/NIA	2006, 2009
Review for Claude Pepper Older American Independence Centers	
Steering Committee, AHRQ/Patient Safety Research Coordinating Center	2002
Special Study Section (Chairman)	1999
NIH/NIA, Older American Independence Centers	
Site Visit Team (Chair)	1998
Houston VA Rehabilitation Research and Development Center	
Special Study Section (Chairman)	1992
NIH/NIA, Review for Claude Pepper Older American Independence Centers	
Monitoring Board, NIH/NIA FICSIT Trails	1990 – 1993
Data Monitoring Board	1987 - 1993
VA Cooperative Study #246, Randomized Trial of TUR	
Other	
American Geriatrics Society Foundation for Health in Aging, Board of Directors	2000 – present
Florida Medical Director's Association	2020 – present
Task Force on COVID-19 in Nursing Homes	
American Medical Directors Foundation Board of Directors	2009 – 2019
Omnicare National Pharmacy and Therapeutics Committee	2000 – 2016
Post-Acute Care Center for Research (faculty)	2015 – 2016
National Quality Form Action Technical Expert Panel	2013
on Quality in Long Term Care	
Expert Panels, AHRQ projects on Nursing Home Quality and Safety	2010 – 2011
American Medical Directors Foundation Scientific Council	2009 – 2011
American Federation for Aging Research, Member, Board of Directors	2002 – 2008
Center for Medicare & Medicaid Services Urinary Incontinence Expert Panel	2004 – 2005
Commission for the Institute for the Future of Aging Services	2002 - 2003
of the American Association of Homes and Services for the Aging	
American Geriatrics Society, Chairman of the Board	2000 – 2001
American Geriatrics Society, President	1999 – 2000
American Geriatrics Society, President-Elect	1998 – 1999
American Geriatrics Society, Board of Directors	1990 – 2001
Member, Expert Panel on Nursing Home Care	June 1999
Assessing Care of the Vulnerable Elderly, Rand Corporation	
Federal Advisory Committee on the Future of Long-Term Care in the VA	1997 – 1998
Review Committee, Merck/American Federation for Aging Research	1997 - 2000
Medical Student Research Scholarships in Geriatric Pharmacology	
Membership Committee, American Geriatrics Society	1994 – 1996
Help for Incontinent People, Board of Directors	1992 – 1995
Clinical Practice Committee, American Geriatrics Society	1991 – 1994
Long-Term Care Task Force, American Geriatrics Society	1991 – 1994

Panel Member, Agency for Health Care Policy Research	1990 – 1992
Practice Guidelines on Incontinence	
Reappointed	1993 – 1995
Simon Foundation, Advisory Board	1986 – 1992
Test Committee, Geriatric Medicine Exam for Added Qualification	1989 – 1990
American Board of Internal Medicine	
Research Committee, American Geriatrics Society	1984 – 1991
Vice Chairperson, Clinical Medicine Section,	1987
Gerontological Society of American	
Clinical Medicine Section Representative, Finance Committee	1982 – 1985
Gerontological Society of American	

Committee Memberships: Regional and State

Florida Hospital Association Workgroup on Care Transitions	2010 – 2012
Florida Association of Medical Directors CME Committee	2008 – 2010
Georgia Nursing Home Quality Imitative Advisory Group	2006 – present
California Association of Medical Directors, Board of Directors	1988 – 1993

Committee Memberships: Institutional

FAU Search Committee for COM Dean	2016
FAU College of Medicine Admissions Committee	2011 – present
FAU College of Medicine Curriculum Committee	2011 – present
FAU Search Committee for VP Research	2010 – 2011
FAU Research Initiative Steering Committee	2010
Admissions Committee UMMSM at FAU	2009
Board of Directors, Wesley Woods Center	1998 – 2007
Department of Medicine Promotion Committee	2007
Emory Healthcare Clinical Performance Team	2002 – 2003
Bioethics Program Advisory Group	2005
Task Force on Post-Acute Care (Co-Chair)	2003
Professional Staff Interdisciplinary Strategic Committee,	1996 – 2001
Wesley Woods Geriatric Center	
Medical Executive Committee, Wesley Woods Geriatric Hospital	1996 – 2008
Research and Development Committee, Atlanta VA Medical Center	1997 – 1999
National Advisory Committee for a Randomized Trail of Enhanced Medical	1996 – 1997
Care in Nursing Homes. Monroe County Long Term Care Program, Rochester, NY	
Rehabilitation Research and Training Center	1988 – 1993
Rancho Los Amigos Medical Center, USC, Advisory Council	
Curricular Working Group on Aging, UCLA School of Medicine	1991 – 1992
Jewish Home for the Aging of Greater Los Angeles, Board of Directors	1985 – 1986
Biomedical Ethics Committee, Jewish Homes for the Aging	1984 – 1986
Biomedical Ethics Committee, Jewish Homes for the Aging (Chairman)	1984 – 1985
Alumni Admissions Committee, Johns Hopkins University	1980 – 1986
Medical and Nursing Services Committee, Jewish Homes for the Aging	1983 – 1986
Advisory Committee, Jewish Hospice Commission	1985 – 1986
Long Term Care Screening Committee, VA Medical Center, Sepulveda	1984 – 1986
Executive Committee, UCLA/USC Inter-University Group for Geriatrics	1982 – 1983
and Gerontology	
Committee on Aging, Jewish Federation Council, Los Angeles	1982 – 1983

Consulting and Advising

Senior Medical Advisory, Pathway Health	2016 – present
Duke University NIH grant on reducing polypharmacy and falls in nursing homes	2020
CMS Health Insights Readmission Project	2018
Curavi – Telemedicine for SNFs	2016 – 2019
Think Research – Long-Term Care Order Sets	2014 – 2018
Astellas – Overactive Bladder projects	2012 – 2013
Duke University NIH R01 grant on falls in nursing homes	2011 – 2012
Silvercare Solutions – Senior Medical Advisor	2009 – 2012
Rand Corporation:	2010
Developing Patient Safety Education for Nursing Homes	
Incontinence and Overactive Bladder Projects, Pfizer	2004 – 2008
Nursing Home Research, Amgen	2006 – 2008
Overactive Bladder Projects, Novartis	2004 – 2006
Incontinence Projects, Eli Lilly Company	2003 – 2005
Diagnostic Ultrasound	1999 – 2002
Scientific Advisory Board, Health Sense International	1998 – 2000
Long Term Care Advisory Board, Pharmacia & Upjohn	1998 – 2003
Incontinence and Geriatric Projects, Alza Pharmaceuticals	1992 – 1996, 1999 – 2000
Incontinence Projects, ICI Pharmaceuticals	1992 – 1996
Incontinence Projects, Centers for Disease Control, Atlanta	1990
Terodiline study, Forest Laboratories	1989 – 1990
Teaching Nursing Home Project, Division of Geriatric Medicine, University of Washington	1989
Incontinence Project, Dr. John Schnelle, Department of Psychology, Murfreesboro State University	1988
Incontinence and Long Term Care Projects, Bock Associates, Minneapolis, MN	1987 – 1989
Incontinence Projects, Division of Urology, University of Michigan	1987
Incontinence Projects, Marion Laboratories, Kansas City, MO.	1986 – 1987
Robert Woods Johnson Teaching Nursing Home Program	1984
Geriatric Medicine Program, Watts Health Foundation	1984
ConvaTec (Squibb, Incontinence Care Products)	1983 – 1986
Proctor and Gamble Paper Products Division (Incontinence Products)	1981 – 1983

Editorship and Editorial Boards

Editor-in-Chief, Journal of the American Geriatrics Society	2020 – present
Executive Editor, Journal of the American Geriatrics Society	2008 – 2000
Deputy Editor, Journal of the American Geriatrics Society	2000 – 2008
Associate Editor, Journal of the American Geriatrics Society	1993 – 2000
Editorial Board, Journal of the American Medical Directors Association	1999 – 2003, 2007 – present
International Editorial Board, Age and Aging	1998 – 2003
Guest Editor, Volume on Aging, American Journal of Medical Sciences	1997
Editorial Board, Nursing Home Medicine: Annals of Long Term Care	1996 – 2000
Honorary Editor and Advisor, Journal of the Hong Kong Geriatrics Society	1994 – 2000
Editorial Board, Long Term Care Forum	1993 – 1997
Editorial Board (Geriatric Subcommittee);	1992 - 1994
MKSAP X American College of Physicians	

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Editorial Committee (Chairman) Geriatric Slide Kit, Marion Merrill Dow	1991 – 1992
Editorial Board; Annual of Medical Direction	1991 – 1994
Editorial Committee; Slide Kit on Urge Incontinence, Norwich Eaton	1991
Editorial Board, Journal of the American Geriatrics Society (Long Term Care)	1987- 1990
Co-Editor, Special Edition, Journal of the American Geriatrics Society (NIH Consensus Conference on Incontinence)	1989
Editorial Advisory Board: Advances in Long Term Care (Springer Publishing)	1988 – 1992
Associate Editor: Clinical Report on Aging (American Geriatrics Society Newsletter)	1987 – 1989
Editorial Board, Drug Therapy for the Elderly (Applied Therapeutics, Inc.)	1985 – 1987
Editorial Board, Journal of Gerontology (Clinical Medicine Section)	1984 – 1987
Editorial Board, Geriatric Medicine Letter (New York Medical College)	1984 – 1987

Honors and Awards

Metuchen High School Hall of Fame	2024
FAU Research Park Distinguished Researcher of the Year Award	2015
Sidney Katz Lectureship, Brown University	2015
California Association of Long-Term Care Medicine Leadership Award for 2015 in recognition for exemplary leadership and dedication in long term care	2015
New York Continuing Care Leadership Coalition Burton Grebin Innovator of the Year Award 2015 in recognition of exceptional commitment and innovation in the field of long-term care	2015
American Geriatrics Society Nascher/Manning Award – recognizing an individual with distinguished, life-long achievement in clinical geriatrics	2012
John A. Hartford Foundation Hearos of Geriatric Care Story Contest Honorable Mention	2012
Health and Aging Policy Fellowship – Atlantic Philanthropies	2010 – 2011
National Institute on Aging Career Leadership Award	2001 – 2005
National Association for Continence Champion Award	2003
William N. Chambers Visiting Professorship	
Dartmouth Medical School and Dartmouth Hitchcock Medical Center	April 2003
David H. Solomon Lecturer, UCLA Intensive Course in Geriatric Medicine	2001
Gerontological Society of America, Polisher Research Institute Award for Applied Research	2000
President, American Geriatrics Society	1999 – 2000
National Institute on Aging/NIH/ MERIT Award: Method to Extend Research in Time	1990 - 1999
American Journal of Nursing: Book of the year Award, Medical Care in the Nursing Home	1997
National Institute on Aging/NIH Academic Award: Five-Year Career Development Award	1982 – 1987
Clinical Pharmacology and Therapeutics, Case Western Reserve University	1977
Phi Beta Kappa – John Hopkins University	1973
National Collegiate Athletic Association, Postgraduate Scholarship	1973

Society Membership

American Geriatrics Society (Fellow)
Gerontological Society of America (Fellow)
American College of Physicians (Member)
American Medical Directors Association (Certified Medical Doctor)
Florida Medical Directors Association

Research focus

Primary areas of interest quality of geriatric care and care transitions (including post-acute care and preventable hospitalizations), geriatric urinary incontinence, falls, and sleep disorders

Grant Support

Active Support

PI – Westcom, Inc. Evaluations of eINTERACT \$1,500,000;	2013 – 2017
\$1,500,000	2018 – 2023
Co-investigator - Florida Medical Malpractice Joint Underwriters Association –	2022 – 2025
Consultant – Nova Southeastern Geriatric Workforce Enhancement Program	2018 - 2025

Previous Support

PI – Florida Medical Malpractice Joint Underwriters Association – Evaluation of the STAR Program \$750,000	2015 – 2018
Evaluation of the STAR Program \$750,000	
Co-investigator – Palm Healthcare Foundation – Simulation Training on INTERACT for Caregivers: \$125,000	2015 – 2016
PI, NIH RO1 – Interventions to Reduce Avoidable Hospitalization for Nursing Home Residents \$2,000,000	2012 – 2015
PI, (Subcontract) CMS Innovations Project Awarded to Vanderbilt – Reducing Hospital Readmissions from Post-Acute Care \$1,700,000	2012 – 2015
PI, (Subcontract) CMS Innovations Project Awarded to UNTHSC – Implementing INTERACT Across the Care Continuum \$7,000,000	2012 – 2015
Co-PI, FAU Healthy Aging Research Initiative \$500,000	2010 – 2013; ongoing project
Co-investigator, PCORI grant to develop ethnically and culturally sensitive tools for decision making on hospitalization from nursing homes \$500,000	2013 – 2015
Co-investigator, VA Create Grant – program project grant on improving long-term care (PI Vince Mor, Brown University/Providence VA) – subcontract to test INTERACT in VA Community Living Centers \$324,000 (for IPAs through FAU)	2013 – 2015
Co-investigator, NIH R15 grant – Chair Yoga in Older Adults (\$500,000)	2013 – 2016
PI, Think Research, Advisory Group for Long-Term Care Patient Order Sets, \$80,000	2014
PI, Commonwealth Fund, National Dissemination of the INTERACT Program, \$160,000	2012 – 2013
PI, Development and Evaluation of INTERACT-e \$1,500,000	2012 – 2017
Point Click Care, Inc.	
PI – Refinement and Evaluation of the INTERACT Curriculum, \$200,000 Medline, Inc	2012 – 2013
Consultant, University of Bradford, UK Dementia Research Group – NHS grant on reducing hospitalization of care home residents	2012
Consultant – State of New York CCLC Grant on Care Transitions	2012 – 2014
PI, Retirement Research Foundation, Development and Evaluation of a Curriculum on the INTERACT Program, \$125,000	2010 – 2011
PI, Retirement Research Foundation, Inter-professional educational program, \$25,000	2011 – 2012
Co-PI, National Institute on Aging, Improving Sleep in Nursing Home Residents, \$1,200,000	2007 – 2010
Mentor, National Institute of Health,	2005 – 2010

Nocturnal Polyuria and Sleep-disordered Breathing, \$635,555	
PI, Commonwealth Fund,	2008 – 2010
Improving Nursing Home Care by Reducing Avoidable Hospitalizations, \$398,000	
Co-PI, VA Health Services Research,	2005 – 2007
Validation of the MDS 3.0 in VA Nursing Homes, \$750,000	
PI, CMS Special Study,	2006 – 2007
Reducing Hospitalization of Nursing Home Residents, \$500,000	
Co-PI, AHRQ Task Order IDSRN,	2004 – 2005
Fall Reduction in Nursing Homes, \$375,775	
PI/Director, Strengthening Physician Training in Geriatrics,	2003 – 2007
Donald W. Reynolds Foundation, \$1,949,396	
Co-PI/Co-Director, Southeast Center of Excellence in Geriatric Medicine,	2001 – 2005
John A. Hartford Foundation, \$900,000	
renewed \$300,000	2005 – 2008
Mentor, AFAR, Geriatric Voice Dysfunction, \$150,000	2005 – 2007
Mentor, John, A. Hartford Foundation,	2006 – 2007
Geriatrics Training in Otolaryngology, \$17,000	
PI, Sepracor, Inc.,	2006 – 2008
Eszopiclone in Nursing Home Residents with Insomnia, \$480,000	
Co-PI, Pfizer, Inc.,	2006 – 2007
Web-Based Education on Geriatric Incontinence and Overactive Bladder \$100,000	
PI, National Institute on Aging, Career Leadership Award, \$500,000	2000 – 2006
Co-PI, National Institutes of Health,	1999 – 2006
Transferring Behavior Research into Nursing Home Practices, \$1,942,943	
Mentor, Bureau of Health Professionals,	2002 – 2006
Geriatric Academic Career Award, \$250,000	
PI, AHRQ,	2001 – 2004
Developmental Center for Evaluation and Research in Patient Safety in Long-Term Care	
\$518,951	
PI, Novartis, Inc.,	2005
Interdisciplinary Education on Overactive Bladder in Long-Term Care, \$5, 000	
PI, AMGEN,	2005
Interdisciplinary Education on Anemia in Long-Term Care, \$10,000,	
Co-PI, National Institutes of Health,	2004 – 2005
Environmental Interventions to Reduce Nursing Home Noise at Night, \$1,412,138	
Co-PI, AHRQ,	2004 – 2005
Interdisciplinary Research Network project on Falls in Nursing Homes, \$300,000	
PI, Veteran's Administration,	1998 – 2003
Effects of Functional Incidental Training (FIT) in VA NHCU Residents, \$859,104	
Eli Lilly and Company, Electronic Data Base for LTC Providers, \$36,000	2001 – 2003
Pharmacia, Southeast Consortium for LTC Quality, \$50,000	2001 – 2003
PI, Kimberly Clark, Sleep and Incontinence, \$42,500	2001 – 2002
Co-PI, Atlanta VA Rehabilitation R&D Center,	1997 - 1999
Team Characteristics and Patient Outcomes on VA Rehab Services, \$398,140	
PI, National Institutes of Health,	1995 – 1999
Assessment and Treatment of Incontinence in Nursing Homes (MERIT Award Renewal),	
\$241,730/year	
Co-PI, National Institutes of Health,	1995 – 1999
Mobility & Incontinence Management Effects on Sickness, \$378,568/year	
Co-PI, National Institutes of Health,	1997 – 1998

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Restructuring Long Term Care in Georgia, \$75,000	
Co-PI, Robert Wood Johnson Foundation,	1994 – 1997
Primary Care of Long Term Nursing Home Residents: Approaches of Three HMOs, \$221,027/year	
PI and Conference Organizer,	1994
National Institutes of Health, Support Systems International and Proctor and Gamble, Management of Incontinence in Frail Elderly	
Dependent and Community Dwelling Persons: An Agenda for Research and Care, \$100,000	
PI, Forest Laboratories, Micturin for Incontinence in Geriatric Patients, \$26,000	1991 – 1992
Co-PI, Shannon Award, Restraint Reduction in Nursing Homes	1991 – 1992
Consultant, National Institutes of Health,	1991 – 1993
Oregon Health Sciences University, Continence Program for Community Care Dependent Elderly, Dr. Joyce Colling, Principal Investigator	
PI, National Institutes on Aging/National Institutes of Health,	1990 – 1995
MERIT Award Assessment and Treatment of Urinary Incontinence in Nursing Homes, \$190,000/yr.	
Co-PI, National Institutes on Aging/National Institutes of Health,	1990 – 1992
Night Time Incontinence, \$300,000, renewed	1993 – 1996
Co-PI of Intervention Project and Research Development Core,	1991 – 1995
National Institutes on Aging/National Institutes on Health, Claude Pepper Older American Independence Center	
Co-PI, National Institutes of Health,	1990 – 1997
Nighttime Incontinence Care in Nursing Homes, \$363,745	
Co-PI, OAIC, UCLA Claude Pepper Older Adult Independence Center, \$721,769	1991 – 1996
Co-PI, Hartford Foundation,	1990 – 1992
Improving the Appropriateness of Drug Prescribing in Nursing Homes, \$200,000/yr	
Co-PI, Borun Family Foundation,	1989 – 1990
Decision Making Among Elderly Long Term Care Residents, \$30,000	
PI, UC Academic Geriatric Resource Center,	1989 – 1991
Predictors of Functional Decline Among the Old Old, \$30,000	
Co-PI, National Institutes of Health, Pattern Urge Response Toileting, \$400,000/yr.	1986 – 1988
PI, National Institutes of Health, Academic Award, \$40,000/yr.	1982 - 1987
PI, National Institutes of Health, Geriatric Urinary Incontinence, \$65,000	1983 - 1986
Co-PI, Retirement Research Foundation,	1984 – 1986
Decision Making in Long Term Care, \$50,000/yr.	
PI, Robert Wood Johnson Foundation,	1983 – 1986
Assessment and Treatment of Incontinence in the Elderly, \$50,000/yr.	

Formal Teaching

Medical Student Training

Director, Internal Medicine Residency Geriatrics/Palliative Care Rotation	2015 – present
Teaching various sessions to medical students and residents	
Thread Director for Geriatric Medicine education	2009 – 2016
FAU College of Medicine – teaching first, second, and third year students	
Director, M3 Geriatrics/Palliative Care Rotation	2013 – 2014
Teaching Attending	2014 – 2015
Geriatrics for M3 Medicine Rotation (UMMSM at FAU)	2009 – present
Physicianship Course (UMMSM at FAU)	2008 – present
Lecturer, Patient-Doctor Course (Emory)	2001 – 2007
Mentor, American Federation for Aging Research, Summer Student Program	
UCLA	1992 – 1996

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Emory	1998 – present
Preceptor, Clinical Methods Course (Emory)	1997 – 2001
Preceptor, Summer Student Research Projects, Fundamentals of Clinical Medicine UCLA	1985 - 1995
Preceptor, Psychology 101 (Dinner Groups for 1 st Year UCLA Medical Students)	1981 – 1983

Graduate Programs

Training Programs:

Annual Intensive Course in Geriatric Medicine, Course Co-Chairman UCLA and the American College of Physicians	1988 – 1989
Annual Intensive Course in Geriatric Medicine, Course Chairman UCLA	1992 – 1996

Supervisory Teaching:

Fellowship Research Supervisor

UCLA: Drs. H. Sier, M. Levenstein, M. Schapira, N. Nasr
Emory: Drs. L. Pandit, K. Varghese, Y. Endeshaw, C. Richards, F. Fawehinmi, C. Gibbs, C. Vaughan
University of Miami: R. Tunguntla
FAU: V. Lewis, M. Rodriguez, V. Everdone, J. Gendernalik

Junior Faculty Mentorship

FAU:
Juyoung Park (Hartford Gerontological Social Work Career Development Award; NIH R 15)
Elizabeth Gundersen, MD
Mandi Sehgal, MD
Bernardo Reyes, MD

University of Miami
Renuka Tunuguntla (Pfizer Award)
Jorge Ruiz (Pfizer Award)

Emory:
Ted Johnson (VA and Hartford Center Awards)
Laurent Adler (BHP GACA Award)
Yohannes Endeshaw (Mentored Clinical Scientist Award)
Jeannette Brown (NIH K08, UCSF)
Tom Price (Reynolds/Hartford trainee)
Patricia Clark (Nursing)
Lisa Riolo (Physical Therapy)
Lavonda Mee Lee (Reynolds/Hartford trainee)
Manuel Eskildsen (Reynolds trainee)
Camille Vaughan (VA Special Fellowship)
Laura Wagner, Emory School of Nursing (Dissertation Committee)

Other

Preceptor, Dr. Gina Boone, Visiting Medical Resident, St. Luke's Hospital of Kansas City	January 1992
Anna Fuentavilla-Clifton, Visiting Fellow Phoenix VA Medical Center	1993

Supervisor, Visiting Scholars: Umit Ateskan (Turkey),
 Natalia Bassy (Spain), Kyeong-Soon Kwon (Korea), Alexander Karlic (Israel),
 Reto Kressig (Switzerland), Man Fai Ng (Hong Kong), Roger Roberge (Quebec),
 Stanley Tam (Hong Kong), Bruce Wong (Hong Kong), Teresa Sierra (Spain),
 Frank Wei Wang (Taiwan), Terrence Tang (Singapore)
 Advisor, Behavioral Sciences Career Development Award, NIA, Dr. Louis Burgio 1991
 University of Pittsburgh
 Advisor, Behavioral and Pharmacologic Treatment of Incontinence, NIA, 1991
 Dr. Louis Burgio, University of Pittsburgh
 Advisory Panel, Project on Bladder Training in Nursing Homes 1983 – 1984
 Institute of Policy Research and Evaluation
 Penn State University

Visiting Professorships

Visiting Professor, University of Kansas, Center on Aging April 1992
 Visiting Professor, University of Alabama at Birmingham, August 1993
 Center for Aging, Urinary Incontinence in Older Adults
 Visiting Professor and Medical Grand Rounds, June 1993
 Geriatric and Gerontology Center, VA Hospital, University of Nevada, Reno
 Visiting Professor, Medical College of Wisconsin October 1995
 Visiting Professor of Geriatrics, May 1995
 North Shore University Hospital/Cornell University Medical College
 Visiting Professor in Geriatric Medicine, Fallon Healthcare System April 1996
 Visiting Professor, New Zealand Continence Association, Auckland, New Zealand 1997
 Visiting Professor, Urologia Geriatrica Symposium, Caracas, Venezuela 1997
 Visiting Professor, European Academy of Geriatric Medicine, Geneva, Switzerland 1997
 Visiting Professor, Geriatric Urinary Incontinence Symposium,
 Catholic University, Santiago, Chile September 1998
 Visiting Professor, Geriatric Incontinence: October 1999
 State of the Art and Future Directions, Geriatric Medicine Rounds, McGill University
 Visiting Professor, European Academy for Medicine of Ageing, September 2001
 IUKB Foundation, Sion, Switzerland,
 Visiting Professor and Kamery Lecturer, December 2002
 Brown University, Providence, RI
 Visiting Professor, Department of Geriatric Medicine, 2002
 University of Oklahoma, Oklahoma City, OK
 Visiting Professor in Geriatrics and Urology, February 2003
 University of Pennsylvania, Philadelphia, PA
 Visiting Professor, Physician Leadership Academy, July 2004
 St. Louis University Geriatric Academy (SLUGA), St. Louis, MO J
 Visiting Professor, Geriatric Update for the Primary Care Physician, September 2004
 Mayo Clinic College of Medicine, Rochester, MN
 Visiting Professor, Ministry of Health, Singapore October 2004
 Visiting Professor, Center on Aging, December 2004
 University Connecticut Grand Rounds, Farmington Connecticut
 The Eugene J. Towbin Honorary Lecture/ Keynote Address: February 2006
 “Translating Clinical Research into Practice in Long-Term Care Facilities”
 Geriatric Medicine Update, Genitourinary Conditions in the Elderly,
 Little Rock, Arkansas
 Visiting Professor, The John A. Hartford Foundation: December 2007
 Institute for Geriatric Nursing, “Geriatric Urinary Conditions and Long-Term Care Quality”.

Visiting Professor, Reynolds Program, University of Arizona	February 2009
Visiting Professor, University of Sydney, Australia	June 2011
Visiting Professor, Wake Forest University Sticht Center on Aging	2012
Visiting Professor, Singapore Agency for Integrated Care	2013
Visiting Professor, Brown University,(Sidney Katz and Steere House Kameny lectures)	2015
Visiting Professor, East Virginia University	2016
Visiting Professor, University of Kentucky	2016
Visiting Professor, UT Austin	2018

Presentations at National or International Conferences:

National Academy of Science, Engineering, and Medicine Consensus Study on the Quality of Care in Nursing Home Public Webinar #3 (Speaker to the Committee)

Covid-19 in U.S. Nursing Homes – Did we Calm the Perfect Storm?” Journee Romande de Geriatrie CHUV Centre Hospitalier Universitaire Vaudois Lausanne Switzerland (Plenary Speaker, virtual), 2021

“Global Symposium: Post-Acute Care and Rehabilitation during the COVID-19 Pandemic – Clinical and Policy Insights from China, United States, and Europe” (Speaker - virtual) 2020

“COVID-19 in Long-Term Care: An Update” Telligen – Medicare Quality Innovation Network Quality Improvement Organization (QIN-QIO). (Webinar) April, 2020

“COVID-19 in Long-Term Care: An Update” Association of Health Care Journalists on behalf of the American Geriatrics Society. April, 2020

“COVID-19 in Long-Term Care: An Update” Pathway Health. (Webinar) April, 2020

“Sepsis: Early Recognition & Optimizing Outcomes in PAC/LTC.Florida Medical Directors Association Plenary Symposium (with B. Reyes)” - October, 2019

“Reducing Unnecessary Hospitalizations in the Geriatric Population”. University of Basel, 2019

“Improving Post-Acute Care”. Team Health Post-Acute Summit, Atlanta, 2019

“Programs Designed to Reduce Potentially Avoidable Hospitalizations of Skilled Nursing Facilities” (symposium organizer and chair) Nursing Home Research International Working Group. St. Louis, 2017

“Clinician Order Sets for Long-Term Care” (symposium organizer and chair). AMDA Annual meeting. Orlando, 2016

“Implementation of the INTERACT Program”. International Nursing Home Research Symposium, Toulouse, France, 2015.

Symposium Chair – Preliminary Results of NIH INTERACT Implementation Trial. Gerontological Society of America, Washington, DC, 2014

“The INTERACT Quality Improvement Program” European Union Geriatric Medical Societies, Rotterdam, 2014

“The INTERACT Quality Improvement Program” University of Basel, 2014

“Writing Your Research for the Journal of the American Geriatrics Society” Annual meetings of the American Geriatrics Society (2010 – 2015)

Trainings for CMS in 2013 (day-long symposia providing overview of INTERACT implementation) at Indiana University of Pittsburgh Medical Center; Omaha, NE; U. Missouri; Alabama QIQ; and Continuing Care Leadership Coalition/NY Hospital Association

"Overview of the INTERACT Program " 4th Annual LTC Applied Research Day, Ontario LTC Association, 2013

"Overview of the INTERACT Program " The Health Industry Council of North Texas Annual Transitions of Care Conference, Dallas, 2013

"Overview of the INTERACT Program" American Health Information Management Association Long Term and Post-Acute Health IT Summit, Baltimore, 2013

“Overview of the INTERACT Program” Cerner Health Care Conference, 2013

“INTERACT Training Session” American Medical Directors Association Meetings, 2012, 2013

“Overview of the INTERACT Program”, 2nd Annual Meeting of the Long Term Quality Alliance, Washington, DC, February, 2012

“INTERACT Training Session”, American Health Care Association, Houston, February, 2012

“Overactive Bladder”, PACT for Healthy Aging, Miami VA GRECC Conference, Miami, FL, September 2011

“Evolving Models of Geriatric Care in the US” and “End of Life Care in the US” Hammond Care Conference, Sydney, Australia, 2011

University of Minnesota MAGEC Symposium. “Interventions to Reduce Unnecessary Hospitalization of Nursing Home Residents” Minneapolis, October 2011

Florida Medical Directors Association, . “Interventions to Reduce Unnecessary Hospitalization of Nursing Home Residents” Orlando October 2011

“Unplanned Hospitalizations – An Academic Perspective” Direct Supply Clinical Leadership Conference, Milwaukee, 2011

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents”, SCAN Health Plan Geriatric Advisory Board, February, 2010

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents”, University of Minnesota Summer Institute, June, 2010

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents”, Primary Care Division, Mayo Clinic, June, 2010

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents”, The Princeton Health Policy Conference, May, 2010

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents”, American Geriatrics Society Meeting, May, 2010

“Update on Geriatric Incontinence”, American Geriatrics Society Meeting, May, 2010

“Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents” (symposium) American Medical Directors Association, March, 2010

“Geriatric Medicine in the US”, Association of Health Care Journalists, October 2009

“Understudied Risk Factors for Geriatric Falls” (Keynote Speaker), 10th Annual Conference on Transforming Fall Management Prevention Practices, USF and multiple sponsors, May 2009

“Overactive Bladder and Urinary Incontinence in Older Adults” (Symposium moderator), Annual Meeting of the American Geriatrics Society, May, 2009.

“Publishing Your Work in JAGS”, Symposium, Annual Meeting of the American Geriatrics Society, May 2009.

“Maximizing Nursing Home Use and Avoiding Re-hospitalizations”, SCAN Health Plan and St. Mary’s Medical Center Geriatrics Symposium, Long Beach, Ca, May, 2009.

“Reducing Avoidable Hospitalizations of Nursing Home Residents”, Symposium, Annual Meeting of the American Geriatrics Society, May, 2008.

“Publishing Your Work in JAGS”, Symposium, Annual Meeting of the American Geriatrics Society, May, 2008.

“Fighting Age Discrimination in Clinical Trials”, Symposium, Annual Meeting of the American Geriatrics Society, May, 2008.

“State of the Art Conference – The Changing Faces of Geriatrics and Extended Care” – VA National Conference – Lecture – “Managing Elderly Patients with Multiple Co-Morbidities”, Washington, DC, March, 2008.

“Advances In Geriatric Medicine” The University of Internal Medicine, Albuquerque, New Mexico, December 2007

Symposium Chair, “Optimal Management of OAB: Beyond the Bladder” AGS Annual Meeting, Seattle WA, May 2007

“Pearls on Publishing” AGS Annual Meeting, Seattle WA, May 2007

“Management of Geriatric Urinary Incontinence in Home Care”, Hebrew University, Hadassah Hospital, Jerusalem, Israel, March, 2007

The Medicare Quality Improvement Organization's (QIO) 8th Scope of Works: Effects of Recommended OI Goals. Annual Meeting of the American Medical Directors Association (AMDA). Hollywood, Florida, March 2007

"Urinary Incontinence", New York Medical Directors Association Fall Educational Meeting, November 2006.

"Geriatric Urinary Incontinence and Overactive Bladder", Geriatric Grand Rounds speaker at Eastern Virginia Medical School, November 2006.

"Geriatric Urinary Incontinence and Overactive Bladder", Medical Grand Rounds Johns Hopkins/Sinai Hospital, December, 2006.

"Management of urinary and fecal incontinences", "Translating Research into Practice in LTC" 4th Congress of the European Union Geriatric Medicine Society (EUGMS), Geneva, Switzerland, August, 2006.

"Challenges in Caring for Frail Elderly Patients", "Evaluation and Management of the Overactive Bladder" Geriatric Urological Society (GUS) 5th Annual Meeting, Atlanta, GA, May 2006

Panel Discussion Moderator, "Case Study of Incontinence in the Elderly", American Urological Association 2006 Annual Meeting, Atlanta, GA, May 2006

Symposium Chair, "Appropriate Management of OAB: Optimizing Safety in the Geriatric Patient" AGS Annual Meeting, Chicago, Illinois, May 2006

"Pearls on Publishing" AGS Annual Meeting, Chicago, Illinois, May 2006

Symposium Chair, "Anemia In Older Adults: Focus on Chronic Kidney Disease" Disorders" AGS Annual Meeting, Chicago, Illinois, May 2006

"Update on the Medical Management of Urinary Incontinence Disorders" Grand Rounds for Sun Health/St. Josephs Geriatric Program, Phoenix, Arizona, March 2006

"Management of Overactive Bladder and Incontinence in Older Patients" Medicine Grand Rounds, The University of Arizona Health Sciences Center, Tucson, Arizona, March 2006

"Annual Geriatric Day 2005 Conference" Maine Medical Center, Division of Geriatrics, Portland, Maine, April 2005

"OAB Therapy Comes of Age," XX European Association of Urology (EAU) Congress, Istanbul, Turkey, March 2005

3rd International Consultation on Incontinence, Monte Carlo, Grand Hotel – Monaco, June 2004

"Urinary Incontinence, Overactive Bladder," NADONA/LTC, June 2004

"Overactive Bladder in Older Adults: Practical Approaches to Diagnosis and Management" 2004 Annual Meeting of the American Geriatrics Society, May 2004

"Improving Patient Safety in Long-Term Care Facilities: An Overview of AHRQ Funded Projects," American Geriatrics Society Advance Program, March 2004

"Overactive Bladder: Recognition and Management in the Long-Term Care Community," American Medical Directors Association Annual Symposium, March 2004

"Managing Overactive Bladder in the Geriatric Patient: Special Challenges", American Geriatrics Society, Baltimore, MD, May 2003

7th International Conference on Geriatric Nephrology & Urology (Vice President), Atlanta, Georgia, October 9-12, 2003

"American Nursing Homes" and "Overactive Bladder," Turkish Geriatric Society, October, 2003

"Crisis in Quality: Strategies to Improve the Clinical Care of Long-Term Care Patients", Medicare-Medicaid: A Senior Care Landscape, Pinsonault Associates, Marina del Rey, CA, April 30 and May 1, 2003

"Translating Research Into Practice: The Case of Geriatric Incontinence," National Association For Continence, Charleston, SC, April 2002

"Management of Urinary Incontinence" (Symposium Chair), National Association of Directors of Nursing for LTC, Nashville, TN, June 2002

“Continence Problems in the Old-Old” (Workshop Co-Chair and Presenter), 32nd Annual Meeting of the International Continence Society, Heidelberg, Germany, August 2002

“Geriatrics in the U.S.”, Turkish Geriatrics Society, November, 2002

Management of Urinary Incontinence, Internal Medicine Grand Rounds, Wake Forest University School of Medicine, Winston-Salem, NC, February 2001

How to Manage Incontinence, Management Programs, American Medical Directors Association, Annual Symposium, Atlanta, GA, March 2001

Management of Incontinence in Long-Term Care, Genesis ElderCare Medical Directors Educational Forum: “Taking the Lead in Long-Term Care”, Tampa, FL, March 2001

Geriatric Nocturia, Program for Geriatric Urology Forum, Annual Meeting of the American Urological Association, Anaheim, CA, June 2001

Quality of Care in Nursing Homes: An International Perspective, 1st Congress of the European Union Geriatric Medicine Society, Paris, France, August 2001

“Update on Geriatric Incontinence” (National Video Telecast – Keynote Speaker), 1st Annual Symposium, Birmingham/Atlanta GRECC, University of Alabama at Birmingham, September 2001

“Making a Difference in Senior Care: Focus on Overactive Bladder,” American Society of Consultant Pharmacists, Chicago, IL, November 2001

Keynote Speaker, “Improving Long Term Care in the U.S.,” First Annual Interdisciplinary Gerontology Conference, Florida Atlantic University, Boca Raton, FL, May, 2001

Improving Long-Term Care in the United States, David H. Solomon Lecture, Intensive Course in Geriatric Medicine and Board Review, Marina del Ray, CA, September 2001

Update on Geriatric Incontinence, Medical Grand Rounds, Vanderbilt University, January, 2000

Geriatrics Grand Rounds, Duke University, Durham, NC, February 2000

Center on Aging Spring Symposium, New Approaches to Age-Old Dilemmas: Urinary Incontinence and Dementia, Kansas University Center on Aging, March, 2000

Urology Grand Rounds Lecture Series, University of Kansas Medical Center, Lied Auditorium, April, 2000

20th Annual GRECC Conference/12th Annual Nursing Home Administrator’s Symposium, St. Louis University, December 2000

An Overview of Geriatric Urinary Incontinence. 2nd Scientific Meeting of Asian Society for Female Urology, Hong Kong, August 2000.

Role of the Medical Director in Improving Quality of Care, American Medical Directors Association Annual Symposium, Orlando, Florida, March 4-6, 1999

Geriatric Assessment and The Continuum of Care, Gastroenterology Geriatric Education Retreat, St. John, Virgin Islands, March 12-16, 1999

Surely We Don’t Investigate if they are Very Old? Prepared for Urinary Incontinence in the Elderly: A Soluble Problem (Keynote Speaker), Royal College of Physicians of Edinburgh, Scotland, United Kingdom, May 6, 1999

Feeding Patients Suffering from Dementia, 1st Transatlantic Geriatrics Meeting/2nd Franco-American Geriatrics Meeting, Paris, France, September 1-3, 1999

Incontinence, Summer Symposium, The Georgia Medical Directors Association, Young Harris, Georgia, July, 1998

The 23rd Annual Comprehensive Board Review in Internal Medicine, Omni Hotel at CNN Center, Emory University School of Medicine, July, 1998

Urinary Incontinence, Geriatric Nephrology Meeting, AGS Sponsored, Calgary, Canada, July 30 – August 5, 1998

Drugs That Can Cause or Treat Geriatric Incontinence, International Continence Society, Jerusalem, Israel, September 12 – 20, 1998

Urinary Incontinence: Assessment and Treatment, Hopitaux Universitaires de Geneve, Geneva, Switzerland, October 14, 1998

Geriatrics on the Threshold of the Second Millennium: State of the Art in Diagnosis and Therapy, 10th International Symposium of the German Geriatrics Society, Frankfurt, Germany, October 16 – 18, 1998

Societa Italiana di Gerontologia e Geriatria, 43rd Congresso Nazionale, Palazzo dei Congressi di Firenze, Firenze, Italy, November 12 – 15, 1998

Keynote Address: Geriatric Care in the Changing U.S. Health Care System: Opportunities and Challenges, Virginia Lee Franklin Memorial Conference, Emory University School of Nursing, February 1997

Faculty "Urogynecology: Incontinence and Genital Prolapse Overview" Keystone, Colorado, March 1996

Pathophysiology of Urinary Incontinence; Pharmacologic Management of Incontinence at "Managing Urinary Incontinence in Older Adults", University of Florida and GRECC, Gainesville, FL, September 1996

The Edmund G. Beacham Lecture - Comprehensive Continence Assessment, Johns Hopkins University, Bayview Medical Center, October 1996

Assessment of Incontinence; Behavioral Therapy for Incontinence, Symposium on Incontinence, University of Florence, December 1996

Behavioral Therapy for Incontinence, Symposium on Incontinence, Sponsored by the Israeli Ministry of Health and ESHel, Jerusalem, December 1996

Challenges and Opportunities for Geriatrics in the U.S., Israeli Geriatric Society, Tel Aviv, December 1996

Urinary Incontinence, International Symposium on Recent Advances in the Care of the Elderly, Jerusalem, April, 1995

Quality of Care in the Nursing Home, New York Metropolitan Area Geriatrics Society, May, 1995

Research in Nursing Homes, To Fellows and Faculty of the University of Hawaii Geriatric Medicine Program, April, 1994

Ethics, Reimbursement and Quality in Long Term Care (Symposium Participant) sponsored by the University of Hawaii Geriatric Medicine Program, Honolulu, April, 1994

International Perspectives in Geriatric Medicine and Geriatric Education (Symposium Organizer) Annual Meeting of the American Geriatrics Society, Los Angeles, May, 1994

Meet the Professor sessions, Annual Meeting of the American Geriatrics Society, Los Angeles, May, 1994

Urology Update/Diagnostic Techniques and Pharmacologic Management of Incontinence, Beaumont Hospital, Royal Oak, Michigan, September, 1994

Urinary Incontinence (Lecture), The Jewish Home and Hospital for Aged, New York, NY, November 1994

Urinary Incontinence in Nursing Homes: Clinical Implications of Recent Research Findings, (Lecture) The Mount Sinai Medical Center, November 28, 1994

Geriatric Urinary Incontinence, Lectures for Kopat Holim (Israel's largest HMO) in Tel Aviv and Haifa, December, 1994

Continence Update, Iowa Health Care Association, Marshalltown, Iowa, March, 1993

The Hospital Nursing Home Interface, AGS Symposium at the Annual Meeting of AMDA, Phoenix, AZ, March, 1993

Linkages Between Acute and Long-Term Care Settings (Workshop), Annual meeting of AMDA, Phoenix, AZ, March, 1993

Urinary Incontinence - Evaluation and Treatment for the Specialist (Speaker), CDCP, Mass. Dept. of Public Health, and Harvard Medical School, Boston, May, 1993

Ethics at the End of Life (Lecture), San Diego Academy of Family Physicians, July, 1993

Assessment and Treatment of Urinary Incontinence, In conjunction with University of Rochester School of Nursing, September, 1993

Using the AHCPR Incontinence Guidelines in Practice, Medical University of South Carolina, College of Nursing, October, 1993

Meet the Professor sessions, Annual Meeting of the American Geriatrics Society, New Orleans, November, 1993

Policies and Procedures for Nutritional Assessment in the Nursing Home, symposium sponsored by the AGS and CGEC at the Annual Meeting of the American Medical Directors Association, San Diego, March, 1993

Management of Incontinence in the Frail and Functionally Disabled Elderly (Scientific Meeting; organizer and presenter) Atlanta, March, 1993

Geriatric Urinary Incontinence, Florence H. Browning Memorial Lecturer at Medical Grand Rounds, St. Louis University, School of Medicine, April, 1992

The Role of the Medical Director in Nursing Homes, Symposium on Nursing Home Care, St. Louis University, School of Medicine, April, 1992

Meet the Professor Session, Annual Meeting of the American Geriatrics Society, Chicago, May, 1992

Assessment of Geriatric Urinary Incontinence, Incontinence Update, Tulane University, New Orleans, February, 1992

Urinary Incontinence and Nursing Home Care, Geriatric Medicine Course, University of Washington, Seattle, March, 1992

Incontinence for the Primary Care Practitioner, Medical Grand Rounds, Morristown Memorial Hospital, NJ, March, 1992

Geriatric Incontinence, Geriatrics Intensive Review, Manmouth Medical Center, NJ, March, 1992

The Triple Threat of Genitourinary Disease (Keynote speaker, Nationally Broadcast Video conference), Virginia Geriatric Education Center, Richmond, May, 1992

Evaluation of Incontinence, Annual Meeting of the International Association of Enterostomal Therapists, Las Vegas, June, 1992

Nursing Home Care in the U.S., Medical Grand Rounds, Rose Hospital, Denver, August, 1992

Incontinence and Nursing Home Care, Caring for the Aging Population: Knowledge and Skills for the Primary Care Physician, San Francisco, July, 1992; Chicago, September, 1992

Incontinence and Ethics in Geriatric Care, European Intensive Course in Geriatric Medicine, Brescia, Italy, September, 1992

Medical Ramifications of Incontinence/Economics of Incontinence (Keynote Speaker), Continence Control: Vision for the Future, Mills Peninsula Hospital, San Francisco, September, 1992

Nursing Home Care, Medical Grand Rounds, Good Samaritan and VA Hospitals, Phoenix, AZ, October, 1992

Management of Ethical Problems in the Nursing Home, Annual Meeting of the Arizona Geriatrics Society, Phoenix, AZ, October, 1992

Update on Incontinence: Implications of Multidisciplinary Research for Clinical Care (Symposium Organizer), Annual meeting of the Gerontological Society of America, AGS sponsored symposium, Washington, DC, November, 1992

Strategies to Reduce Hospitalization of Nursing Home Patients (symposium presentation), Annual meeting of the AGS, Washington, DC, November, 1992

Overview of Issues in Long Term Care Research (Symposium presentation), Annual meeting of the AGS, Washington, DC, November, 1992

Quality of Care Issues Arising from OBRA 1987, (AMDA Symposium presentation) Annual meeting of the AGS, Washington, DC, November, 1992

Nursing Home Care and Management of Incontinence in Nursing Homes, Nursing Home Care for the 1990s, Annual Meeting of the American Medical Directors Association, San Antonio, March, 1991

Implementing Standards of Care, Annual Meeting of the American Medical Directors Association, San Antonio, March, 1991
Incontinence and Nursing Home Care: Geriatrics for the Practicing Internist, ACP/AGS Course, Hilton Head, SC, March, 1991
Urinary Incontinence and Nursing Home Care, Geriatric Medicine Symposium, Hershey Medical Center, PA, August, 1991
Interdisciplinary Training Meeting, Minnesota Area Geriatric Education Center, University of Minnesota, September, 1991
Research in Nursing Homes, Annual Conference of Gerontological Nurse Practitioners, Rochester, MN, September, 1991
Evaluation of Incontinence, Symposium on Urinary Incontinence, Long Beach, CA, October 1991

Lectures and Seminar Invitations

UCLA Annual Family Practice Course, Urinary Incontinence	May 1991
UCLA Family Practice Grand Rounds, Urinary Incontinence	June 1991
UCLA Department of Medicine, Noon Conference, Urinary Incontinence in the Elderly	October 1991
Lectures and Interactive Sessions, UCLA Intensive Course in Geriatric Medicine	January 1992
UCLA School of Medicine, Faculty Preceptor for Comprehensive Assessment of the Geriatric Patient	January 1992
Medical Director and Nursing Home Administration, Lecture Nursing Home Care and OBRA, Fresno, CA	March 1992
Encino Hospital Medical Conference, Urinary Incontinence	April 1992
Northridge Hospital Medical Conference, Nursing Home Care	May 1992
UCLA Annual Family Practice Course, Urinary Incontinence	May 1992
Encino Hospital Department of Research and Education, Rehabilitation Update: Management of Incontinence	November 1992
Glendale Adventist Medical Center, Urinary Incontinence, Geriatric Conference, Family Practice Residency Program	February 1993
Sepulveda, VAMC, Nursing Update: Urinary Incontinence Guidelines	February 1993
Multicampus Program in Geriatric Medicine and Gerontology Lecture Series, Assessment of Incontinence	August 1993
Multicampus Program in Geriatric Medicine and Gerontology Lecture Series, How to Present your Research	October 1993
UC Irvine Gynecology Grand Rounds, Incontinence in Older Women	July 1994
Medical Grand Rounds, Emory University, Geriatric Urinary Incontinence	March 1996
Medical Grand Rounds, Emory University, Do You Really Want to Grow Old in Our Health System?	November 1996
Tai Chi and Traditional Rehabilitation Interventions Among Older Persons: Clinical Outcomes and Demonstrations, Emory University School of Medicine, Department of Rehabilitation Medicine,	April 1997
Geriatric Urinary Incontinence, Pharmacia & Upjohn, Eastside Medical Center, Snellville, GA	August 1998
Management of Overactive Bladder, Medical and OB/GYN Grand Rounds, Memorial Hospital, Savannah, GA	August 1998
Continence in LTC Setting, Continence Conference, Terrace Garden Inn, Atlanta, GA	September 1998
Aging Ain't for Sissies, The Medical Center of Central Georgia, Inc., Macon Conference Center, Macon, GA	December 1998

Issues in Aging Research, Integrating Research into Practice, VA Nursing Service Research Conference, Atlanta VA Medical Center, Atlanta, GA	May 1999
The Aging Continuum at Emory: Diagnosis, Management and Research, Alzheimer's Disease Research Seminar Series, Anatomy/Physiology Building, Room 128, Emory University, Atlanta, GA	May 1999
Incontinence in Older Persons, Sepulveda Geriatric Research Education & Clinical Center (GRECC), Woodland Hills, CA	June 1999
Pro Health for Seniors Task Force, Nursing Home and the Frail Elderly Impact of Functional Impairments, Assessment and Treatment, The Carter Center, Atlanta, GA	March 2000
Incontinence: Causes, Treatment, and Implications, West Coast Geriatric Psychiatry Conference, University of California at San Diego, La Jolla Marriott, La Jolla, CA	April 2000
Keynote Speaker, "The Omega Connection: Yesterday into Tomorrow," National Conference of Gerontological Nurse Practitioners, 19 th Annual Convention, Sheraton Buckhead, Atlanta, GA	September 2000
Medicine Grand Rounds, Crawford Long Hospital, Emory Healthcare, "Improving Care for your Parents, Grandparents, and You,"	March 2000
"Incontinence/Bowel & Bladder Training in Nursing Homes," Long Term Care Section In Service, Georgia Department of Human Resources, Office of Regulatory Services	June 2002
"Overactive Bladder," Emory Medical Grand Rounds	November 2003
"Translating Research into Practice in Long Term Care", National Institute of Health,	September 2005 April 2006
National Institute on Aging Clinical Research Branch, ASTRA Pearls Lecture Series	
"Collaborative Best Practice in Long Term Care", Alpha Physician Services Medical Director Forum	
"New Options for Long Term Care in the Management of Overactive Bladder"	Presenter
"Urinary Incontinence in Long Term Care", 2006 Georgia Medical Directors Association / Georgia Geriatrics Society Symposium	July 2006
"Translating Research Into Practice – Is It Really That Hard?" A Joint CDC-Emory Symposium	September 2006
"Improving Geriatric Care in the U.S." – Medical Grand Rounds, JFK Hospital	November 2008
"Screening for Common Geriatric Conditions – The Case of Falls" – Palm Beach County Medical Society Future of Medicine Conference	November 2008
"Improving Geriatric Care" – Medical Grand Rounds, JFK Hospital	2008
"Geriatric Urinary Incontinence" - Medical Grand Rounds, JFK Hospital	2009
"Clinical Research in the Geriatric Population" – JFK Resident Research Day	2009
"Reducing Potentially Avoidable Hospitalizations of Nursing Home Residents", Alpha Physicians Annual Conference	February 2010
Healthy Aging Panel. Palm Beach Medical Society Future of Medicine Summit,	October 2011
"Reducing Unnecessary Hospitalizations of Nursing Home Residents", FHCA Long Term Care Executive Leadership Symposium, Orlando	November 2011
"Overview of the INTERACT Program", Georgia Advance Practice Nurses Association, Atlanta	February 2012
"Overview of the INTERACT Program", Charles E. Smith Life Communities Transitions in Care Symposium, Rockville	2012
"Overview of the INTERACT Program", Geisinger Skilled Nursing Facility Care Update, Danville, PA	2012
"Overview of the INTERACT Program",	2012

Dartmouth-Hitchcock Northern New England Geriatric Education Center Geriatric Care Transitions Program, Bedford, NH	
“The INTERACT Quality Improvement Program”	2014
South Florida Hospital and Healthcare Association	
“The INTERACT Quality Improvement Program”	2015
Florida Health Care Association Nursing Leadership Conference	
“Implementing INTERACT: Lessons Learned. Florida Medical Directors Association	2015
“Reducing Unnecessary Hospitalizations in the Geriatric Population”	2017
Medical Grand Rounds Boca Raton Regional Hospital	

Bibliography

Published and accepted research articles in refereed journals:

1. **Ouslander JG**, Kane RL, and Abrass IB: Urinary incontinence in elderly nursing home patients. *JAMA* 248:1194-1198, 1982.
2. **Ouslander JG** and Kane RL: The costs of urinary incontinence in nursing homes. *Med Care* 22:69-79, 1984.
3. **Ouslander JG**, and Fowler E: Management of urinary incontinence in Veterans Administration nursing homes. *JAGS* 33:33-40, 1985.
4. **Ouslander JG**, Uman GC and Urman HN: Development and testing of incontinence monitoring record. *JAGS* 34:83-90, 1986.
5. **Ouslander JG**, Raz S, Hepps K and Su HL: Genitourinary dysfunction in a geriatric outpatient population. *JAGS* 34:507-514, 1986.
6. **Ouslander JG**, Staskin DS, Orzeck S, Blaustein J: Diagnostic tests for geriatric incontinence. *World J Urol* 4:16-21, 1986.
7. Weiland D, Rubenstein LZ, **Ouslander JG** and Martin S: Development and impacts of an Academic Nursing Home. *JAMA* 255:2622-2627, 1986.
8. Tymchuk A, **Ouslander JG** and Rader N: Informing the elderly: A comparison of four methods. *JAGS* 34:818-822, 1986.
9. **Ouslander JG**, Staskin D, Raz S, Hepps K and Su HL: Clinical versus urodynamic diagnosis in an incontinent geriatric female population. *J Urol* 137:68-71, 1987.
10. **Ouslander JG**, Greengold BA, Silverblatt F and Garcia JP: An accurate urine specimen collection technique for males with external catheters. *Arch Int Med* 147(2): 286-290, 1987.
11. **Ouslander JG**, Uman GC, Urman HN and Rubenstein LZ: Incontinence among nursing home patients: Clinical and functional correlates. *JAGS* 35:324-330, 1987.
12. Sier H, **Ouslander JG**, and Orzeck S: Urinary incontinence among geriatric patients in an acute-care hospital. *JAMA* 257:1767-1771, 1987.
13. **Ouslander JG**, Morishita L, Blaustein J, Orzeck S and Dunn S: Clinical, Functional and psychosocial characteristics of an incontinent nursing home population. *J Gerontology* 42:631-637, 1987.
14. **Ouslander JG**, Greengold BA and Chen S: Complications of Chronic Indwelling Catheters Among Male Nursing Home Patients: A Prospective Study. *J Urol* 138:1191-1195, 1987.
15. **Ouslander JG**, Greengold BA and Chen S: External Catheter Use and Urinary Tract Infections Among Incontinent Male Nursing Home Patients. *JAGS* 35:1063-1070, 1987.
16. Levinstein M, **Ouslander JG**, and Rubenstein LZ: Yield of Routine Annual Laboratory Tests in a Skilled Nursing Home Population. *JAMA* 258:1909-1915, 1987.
17. Tymchuk S, **Ouslander J** and Rahbar, B: Medical decision making among elderly people in long-term care. *Gerontologist* 28(Suppl):59-63, 1988.
18. **Ouslander J**, Blaustein J, Connor A, Yong C: Pharmacokinetics and clinical effects of oxybutynin in geriatric patients. *J Urol* 140:47-50, 1988.

19. **Ouslander J**, Leach G, Orzeck S, Staskin D, Blaustein: Simple vs. multichannel cystometry for geriatric incontinence. *J Urol* 140:1482-1486, 1988.
20. Bennett RG, Bellantoni MF and **Ouslander JG**: Air-Fluidized Bed Treatment of Nursing Home Patients with Pressure Sores. *JAGS* 37:235-242, 1989.
21. **Ouslander J**, Leach G, Staskin D, et al: Prospective Evaluation of an Assessment Strategy for Geriatric Urinary Incontinence. *JAGS* 37:715-724, 1989.
22. **Ouslander JG**, Leach GL and Staskin DR: Simplified Tests of Lower Urinary Tract Function in the Evaluation of Geriatric Urinary Incontinence. *JAGS* 37:706-714, 1989.
23. **Ouslander J**, Palmer M, German P and Rovner B: Incidence and Remission of Urinary Incontinence in Nursing Homes. *JAGS* 1993;41:1083-1089.
24. **Ouslander JG**, Tymchuk A and Rahbar B: Health Care Decisions Among Elderly Long Term Care Residents and Their Potential Proxies. *Arch Intern Med* 149:1367-1372, 1989.
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119. Glickman, M., Nagpal, Y., Engstrom, G., Ouslander, J. The Association Between Oral Antithrombotics and Major Bleeding in Patients Over 75. National American College of Physicians 2024.
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121. Lotharius, K., Fistel, T., Engstrom, G., Ouslander, J. The Association Between Depression and 30-day Returns to the Hospital in Centenarians. AGS, 2024 Virtual.
122. Nagpal, Y., Glickman, M., Engstrom, G., Ouslander, J. Association Between Oral Antithrombotic Prescription and Major Bleeding in Hospitalized Patients Age 75 and Older M. Palm Beach Medical Society conference 2023, August 4

123. Snell, A., Montoya, D., Engstrom, G., Ouslander, J. How does prescription pain management differ among older adults and centenarians across age and gender? UCF Chapman Conference 2023, December 9. Orlando, FL.
124. Snell, A., Montoya, D., Engstrom, G., & Ouslander, J. (2023). How does prescription pain management differ among older adults and centenarians across age and gender?
125. Montoya, D., Snell, A., Engstrom, G., & Ouslander, J. (2023). Is there an association between opioid and/or NSAID prescription and 30-day returns to the hospital in centenarians?
126. Hegele, B., Faragalla, S., Engstrom, G., & Ouslander, J. (2023). Association between benzodiazepines and returns to the hospital in centenarians.
127. Faragalla, S., Hegele, B., Engstrom, G., & Ouslander, J. (2023). The association between oral corticosteroids and hospital returns in patients 75 and older.
128. Lotharius, K., Fistel, T., Engstrom, G., & Ouslander, J. (2023). The association between depression and 30-day returns to the hospital in centenarians.
129. Fistel, T., Lotharius, K., Engstrom, G., & Ouslander, J. (2023). The prevalence of depression and most common antidepressants in centenarians.
130. Glickman, M., Nagpal, Y., Engstrom, G., & Ouslander, J. (2023). Rates of hospital returns for centenarian patients on antithrombotic therapy.
131. Nagpal, Y., Glickman, M., Engstrom, G., & Ouslander, J. (2023). Association between oral antithrombotic prescription and major bleeding in hospitalized patients age 75 and older.

Extracurricular Activities

High School Wrestling Official, Georgia Wrestling Officials Association (1996 - 1999)
High School Wrestling Official, Instructional Chairman, Southern California Wrestling Officials Association Northern Section (1991-1996), Los Angeles County Schools (1980 -1986; 1987-1996), State of Maryland (1986-1987)

Avid golfer and swimmer

Curriculum Vitae

AKIHIKO OZAWA, Ph.D. Research Associate Professor

Department of Biomedical Science,
Charles E. Schmidt College of Medicine
Stiles-Nicholson Brain Institute
Florida Atlantic University
5353 Parkside Drive, MC22, Rm. 205A
Jupiter, FL 33458
Phone: 561-799-8515
E-mail: aozawa@health.fau.edu

Education

2000-2003 Ph.D.	Ehime University, Graduate School of Science and Engineering, Matsuyama, Japan <u>Thesis title</u> : "Molecular mechanism of RIP and RALyase on ribosome inactivation" (Mentor: Dr. Yaeta Endo)
1998-2000 M.S.	Ehime University, Graduate School of Science and Engineering, Matsuyama, Japan
1994-1998 B.S.	Ehime University, Faculty of Engineering, Matsuyama, Japan

Post Graduate Education and Training

2007-2010	Postdoctoral Fellow, Department of Anatomy and Neurobiology, University of Maryland-Baltimore, Baltimore, MD (worked under Dr. Iris Lindberg)
2006-2007	Postdoctoral Fellow, Department of Molecular Biology and Biochemistry, Louisiana State University Health Sciences Center, New Orleans, LA (worked under Dr. Iris Lindberg)
2003-2005	Postdoctoral scientist, Five Prime Therapeutics, Inc., South San Francisco, CA (worked under Dr. Lewis T. Williams)

Employment

2022-	Research Associate Professor, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL
2018-2022	Research Assistant Professor, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL
2012-2018	Senior Scientist, Torrey Pines Institute for Molecular Studies, Port St. Lucie, FL
2010-2011	Research Associate, Department of Anatomy and Neurobiology, University of Maryland-Baltimore, Baltimore, MD

Publications

- A. Mudgal, O. Wronikowska-Denysiuk, M. Martinez, D. Peters, M. Maj, I. Snow, D. Pietrzak-Mitura, L. Toll, **A. Ozawa***, and K.M. Targowska-Duda (2025) Ro 64-6198, a selective NOP receptor agonist attenuates social impairments associated with NTG-induced migraine pain. *Neuropsychopharmacology*. ***Co-corresponding author**
- Y. Higuchi and **A. Ozawa**, R. Kobayashi, T. Konno, and H. Arakawa (2025) Functional disruption of oxytocin projections participates atypical social and anxiety-like behaviours

in BTBR mouse model of autism. *Open Biol.* 15(8): 240387

- H. Arakawa, and **A. Ozawa**, (2025) Serotonin circuits act cooperatively with pathophysiology of opioid use disorder. *Addiction Neuroscience*. 100187
- K.M. Targowska-Duda, D. Peters, J.L. Marcus, G. Zribi, L. Toll, and **A. Ozawa***, (2024) Functional and anatomical analyses of active spinal circuits in a mouse model of chronic pain, *Pain*. 685–697 ***Corresponding author**
- L. Toll, A. Cippitelli, and **A. Ozawa**, (2021) The NOP receptor system in neurological and psychiatric disorders: discrepancies, peculiarities and clinical progress. *CNS Drugs*. 591-607
- **A. Ozawa** and H. Arakawa, (2021) Chemogenetics drives paradigm change in the investigation of behavioral circuits and neural mechanisms underlying drug action. *Behavioural Brain Research*. 113234
- K. M. Targowska-Duda, **A. Ozawa**, Z. Bertels, A. Cippitelli, J.L. Marcus, H.K. Mielke-Maday, G. Zribi, A.N. Rainy, B. L. Kieffer, A. A. Pradhan, and L. Toll (2020) NOP receptor agonist attenuates nitroglycerin-induced migraine-like symptoms in mice. *Neuropharmacology*. 108029
- L. Toll, **A. Ozawa**, and A. Cippitelli (2019) NOP-Related Mechanisms in Pain and Analgesia. *Handb. Exp. Pharmacol.* 254:165-186
- G. Brunori, J. Schoch, D. Mercatelli, **A. Ozawa**, L. Toll, and A. Cippitelli (2018) Influence of neuropathic pain on nicotinic acetylcholine receptor plasticity and behavioral responses to nicotine in rats. *Pain*. 2179-91
- **A. Ozawa***, G. Brunori, A. Cippitelli, N. Toll, J. Schoch, B.L. Kieffer, and L. Toll (2018) Dissecting the spinal NOP receptor distribution under a chronic pain model using NOP-eGFP knock-in mice. *Br J Pharmacol.* 2662-2675 ***Corresponding author**
- J. Wu, A. Cippitelli, Y. Zhang, G. Debevec, J. Schoch, **A. Ozawa**, Y. Yu, H. Liu, W. Chen, R.A. Houghten, G.S. Welmaker, M.A. Giulianotti, L. Toll (2017) Highly selective and potent $\alpha 4\beta 2$ nAChR antagonist inhibits nicotine self-administration and reinstatement in rats. 10092-10104
- Y. Li, N. Bionda, R. Fleeman, H. Wang, **A. Ozawa**, R.A. Houghten, and L. Shaw (2016) Identification of 5,6-dihydroimidazo[2,1- β]thiazoles as a new class of antimicrobial agents. *Bioorganic Med. Chem.* 5633-38
- **A. Ozawa**, G. Brunori, D. Mercatelli, J. Wu, A. Cippitelli, B. Zou, X. Xie, M. Williams, N.T. Zaveri, S. Low, G. Scherrer, B.L. Kieffer, L. Toll (2015) Knock-in mice with NOP-eGFP receptors identify receptor cellular and regional localization. *J. Neuroscience* 11682-93
- H. Takahashi, **A. Ozawa**, K. Nemoto, A. Nozawa, M. Seki, K. Shinozaki, H. Takeda, Y. Endo, and T. Sawasaki (2012) Genome-wide biochemical analysis of Arabidopsis protein phosphatase using a wheat cell-free system. *FEBS Lett.* 3134-41
- L. Toll, T.V. Khroyan, K. Sonmez, **A. Ozawa**, I. Lindberg, J.P. McLaughlin, S.O. Eans, A.A. Shahien, and D.R. Kapusta (2012) Peptides derived from the prohormone proNPQ/Spexin are potent central modulators of cardiovascular and renal function and nociception. *FASEB J.* 945-54
- M. Helwig, S.N. Lee, J.R. Hwang, A. Ozawa, J.F. Medrano and I. Lindberg (2011) Dynamic modulation of prohormone convertase 2 (PC2)-mediated precursor processing by 7B2 protein: preferential effect on glucagon synthesis. *J Biol Chem.* 42504-13
- **A. Ozawa**, A.N. Lick, and I. Lindberg (2011) Processing of proaugurin is required to suppress proliferation of tumor cell lines. *Mol Endocrinol.* 776-84
- **A. Ozawa**, J.R. Peinado, and I. Lindberg (2010) Modulation of prohormone convertase 1/3 properties using site-directed mutagenesis. *Endocrinology.* 4437-45

- **A. Ozawa**, I. Lindberg, B. Roth, and W.K. Kroeze (2010) Deorphanization of novel peptides and their receptors. "Fishing for the hidden proteome in health and disease (drug abuse)" AAPS J. 378-84
- **A. Ozawa**, R.B. Speaker III, and I. Lindberg (2009) Enzymatic characterization of a human proghrelin acylating enzyme. PLoS One. e5426
- D. Kowalska, J. Liu, J.R. Appel, **A. Ozawa**, A. Nefzi, R.B. Mackin, R.A. Houghten, and Iris Lindberg (2009) Synthetic small molecule prohormone convertase 2 Inhibitors. Mol Pharmacol. 617-25
- H. Kudo, J. Liu, E.J.R. Jansen, **A. Ozawa**, P. Panula, G.J.M. Martens, and I. Lindberg (2009) Identification of proSAAS homologs in lower vertebrates: conservation of hydrophobic helices and convertase-inhibiting sequences. Endocrinology. 1393-9
- **A. Ozawa**, Y. Cai, and I. Lindberg (2007) Production of bioactive peptides in an *in vitro* system. Analytical Biochem. 366(2): 182-9
- **A. Ozawa**, T. Sawasaki, K. Takai, T. Uchiumi, H. Hori, and Y. Endo (2003) RALyase; a terminator of elongation function of depurinated ribosomes. FEBS Lett. 555(3): 455-8
- Y. Ito, **A. Ozawa**, T. Sawasaki, Y. Endo, K. Ochi, and Y. Tozawa (2002) OsRALyase1, a putative F-box protein identified in rice, *Oryza sativa*, with enzyme activity identical to that of wheat RALyase. Biosci Biotechnol Biochem. 66(12): 2727-31
- T. Sawasaki, R. Morishita, **A. Ozawa**, T. Ogasawara, K. Madin, and Y. Endo (1999) Mechanism of ribosome RNA apurinic site-specific lyase. Nucleic Acids Symp Ser. (42): 257-8
- T. Ogasawara, T. Sawasaki, R. Morishita, **A. Ozawa**, K. Madin, and Y. Endo (1999) A new class of enzyme acting on damaged ribosomes: ribosomal RNA apurinic site specific lyase found in wheat germ. EMBO J. 18(22): 6522-31

In preparation

- N.M. Lindsay, N.F. Hug, W.M. McCallum, J. Bryan, K.L. Huang, N.E. Ochandarena, A. Tassou, **A. Ozawa**, L. Toll, L.Y. Liu-Chen, G. Scherrer Opioid receptor architecture for the modulation of brainstem functions. (Submitted, Current Biology)
- A. Perez, D. Pietrzak-Mitura, A. Mudgal, M. Martinez, J. Lopez, D. Peters, J. Thornberry, E. Mangutov, A. A. Pradhan, A. Cippitelli, A. Ozawa, K.M. Targowska-Duda, and L. Toll (2025, submitted) Ro 64-6198, a selective NOP receptor agonist blocks CGRP-induced migraine-like symptoms and modulates cellular activation. Biochemical Pharmacology

Research Support

Completed Research Support

1R34NS121875-01

Ozawa, Akihiko (PI). 05/01/2021-10/31/2024 (no cost extension)

NIH/NINDS/BRAIN Initiative

Dissecting active neural circuits regulating sensory and affective pain

The goal for this proposal is to identify the neuronal subsets that are activated by distinct pain modalities including chronic pain in the anterior cingulate cortex and spinal cord.

Role: PI

PR200224

Toll, Lawrence R (PI) 09/01/2021-06/30/2025

Investigation into NOP Receptor Agonists for the Treatment of Chronic Migraine

Toll, Lawrence R (PI)

Department of defense

The goal for this proposal is to investigate the effectiveness of NOP receptor-based agonists as a potential target for new treatment of chronic migraine.

Role: Co-investigator

2R01DA023281-10A1

Toll, Lawrence R (PI) 09/01/2017-05/31/2025 (no cost extension)

NIH/NIDA

Mixed NOP/Mu compounds and the involvement of their receptors in analgesia

The goal of this project is to understand the alternation of NOP receptor location in spinal, supraspinal and peripheral tissues corresponding to acute and chronic pain using knock-in mice expressing NOP-eGFP.

Role: Co-investigator

R21NS136077-01

Cippitelli, Andrea (PI) and Robishaw, Janet. D (PI) 07/01/2024-06/30/2026

The involvement of GPR37L1 on a chronic migraine-like state

NIH/NINDS

The goal for this proposal is to identify the functional roles of GPR37L1 in the development of chronic migraine.

Role: Co-investigator

R21NS122154-01A1

Toll, Lawrence R (PI) and Quan, Ning (PI) 09/01/2021-03/31/24

Genetic Models to Study the Involvement of IL-1 in Acute and Chronic Pain

NIH/NINDS

The goal for this proposal is to identify the types of cells expressing IL-1R1 in the tissues important for pain directly regulating pain transmission using IL-1R1 global KO restore mice crossed with cell-type specific Cre driver mouse strains.

Role: Co-investigator

1R01DA040882-01A1

Toll, Lawrence R (PI), Ozawa, Akihiko (PI) 07/01/2016-04/30/20

NIH/NIDA

NPQ/Spexin, the endogenous ligand for the galanin receptor 3

The goal for this proposal is to understand how NPQ and its cognate receptor GALR3 are involved in acute, chronic and inflammatory pain.

Role: PI

Neuroscience Pilot Award Program 2018, FAU Brain Institute

Ozawa, Akihiko (PI) 08/01/18-9/30/19

Development of a mouse genetic model to investigate the plasticity of NOP receptor circuitry in acute pain

To determine the contribution of c-Fos expressing spinal neurons to NOP receptor-based analgesic function in acute pain using Fos-TRAP2 mice

Role: PI

5 R21 NS075602-02

Ozawa, Akihiko (PI) 01/01/2013-12/31/15

NIH/NINDS

Posttranslational regulation of augurin, a new secretory tumor suppressor

The goal of this proposal is to understand the posttranslational modifications required of

augurin to act as a tumor suppressor in glioblastoma cells.

Role: PI

Pending Research Support

1R21DA062165-01, (score 49, percentile 41, Resubmitted November 2024)

Ozawa, Akihiko (PI) 10/01/2024 – 09/30/2026

NIH/NIDA

NOP receptor system in pain descending pathway

This proposal is to understand the mechanism the NOP receptor analgesic circuitry in the pain descending pathway.

Role: PI

1R01NS138520-01 (Not discussed, plan to resubmit in March 2025)

Ozawa, Akihiko (PI) 07/01/2024 – 06/30/2029

NIH/NINDS

Functional and anatomical analysis of the anterior cingulate cortex circuits regulating pain behaviors

The goal of this project is to elucidate functional roles of ACC neurons active during chronic pain in regulating emotional component of pain associated with chronic pain.

Role: PI

1R01NS141350-01 (Not discussed, plan to resubmit in March 2025)

Ozawa, Akihiko (PI, contact), Toll Lawrence (PI) 09/01/2024 – 08/31/2029

NIH/NINDS

The NOP receptor and migraine circuitry

The goal of this project is to elucidate the role of the NOP receptor systems in migraine.

Role: PI

1R21DA061590-01(Not discussed)

Ozawa, Akihiko (PI, contact), Toll Lawrence (PI) 07/01/2024 – 06/30/2026

NIH/NIDA

Brain-wide assessment of analgesic's cellular activity

This proposal is to identify the difference in analgesic effect produced by opioids and NSAIDs in brain.

Role: PI

1R01DA061580-01 (Not discussed, resubmitted in August 2024)

Toll Lawrence (PI) 07/01/2024 – 06/30/2029

NIH/NIDA

Chronic pain induced changes in NOP and Mu opioid signaling

The goal of this project is to elucidate the differential mechanisms in the mu and NOP receptor systems in reward and pain pathway.

Role: Co-investigator

Presentations

Invited presentations and symposiums

Sep 2023	Invited speaker, The 42 th Annual Meeting of Japanese Narcotics Research Conference, Tokyo, Japan
Nov 2022	Seminar speaker, Tokyo University of Science, Tokyo, Japan
Nov 2022	Seminar speaker, Hoshi University, Tokyo, Japan

Nov 2022	Invited speaker, BPCNPNP Conference, Tokyo, Japan
Aug 2018	Invited speaker, The 38 th Annual Meeting of Japanese Narcotics Research Conference, Kobe, Japan
Aug 2018	Seminar speaker, Hoshi University, Tokyo, Japan
Jul 2017	Chair, “Opioid Receptor Trafficking & Signaling” The International Narcotics Research Conference 2017, Chicago, IL
Dec 2015	Seminar speaker, Hoshi University, Tokyo, Japan
Dec 2015	Seminar speaker, Nippon Veterinary and Life Science University, Tokyo, Japan
Dec 2015	Seminar speaker, Proteo-Science Center, Ehime University, Matsuyama, Japan
Jul 2014	Invited speaker, The International Narcotics Research Conference, Montreal, Canada
Dec 2013	Seminar speaker, Proteo-Science Center, Ehime University, Matsuyama, Japan
Nov 2011	Invited speaker, Torrey Pines Institute, Port St. Lucie, FL
Aug 2010	Seminar speaker, Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Japan
Jul 2010	Invited speaker, Gordon Research Conference, Proprotein Processing, Trafficking and Secretion, New London, NH

Poster presentations

S. Matos, D. Peters, K. Targowska-Duda, K. Harbin, A. Mudgal, L. Toll and **A. Ozawa** (2024) Investigation of the ACC neural circuits regulating pain behaviors. Society for Neuroscience, Chicago, IL

K. Harbin, D. Peters, L. Toll, and **A. Ozawa** (2024) Identification of neuronal populations in the ACC active during chronic pain. URISE Summer Showcase, Boca Raton, FL

S. Matos, D. Peters, K. Targowska-Duda, M. Minkoff, C. Yarlagadda, L. Toll and **A. Ozawa** (2024) Investigation of the ACC neural circuits regulating pain behaviors. Research Day COM FAU, Boca Raton, FL

K. Targowska-Duda, C. Yarlagadda, D. Peters, M. Minkoff, A. Mudgal, L. Toll and **A. Ozawa** (2023) Neural circuits regulating pain behaviors in the anterior cingulate cortex, The International Narcotics Research Conference, Atlanta, GA

D. Peters, K. Targowska-Duda, J. Marcus, C. Yarlagadda, G. Zribi, L. Toll and **A. Ozawa**, (2023) Functional and anatomical characterization of pain-activated associated with chronic pain, The International Narcotics Research Conference, Atlanta, GA

A. Ozawa, C. Yarlagadda, D. Peters, K. Targowska-Duda, M. Minkoff and L. Toll (2023) Neural circuits regulating pain behaviors in the anterior cingulate cortex, The BRAIN Initiative Meeting, Bethesda, MD

D. Peters, K. Targowska-Duda, M. Minkoff, L. Toll and **A. Ozawa** (2022) Neural circuits regulating pain behaviors in the anterior cingulate cortex, Society for Neuroscience, San Diego, CA

D. Peters, C. Yarlagadda, K. Targowska-Duda, J. Marcus, G. Zribi, L. Toll and **A. Ozawa** (2022) Functional and anatomical characterization of pain-activated neurons associated with chronic pain, The 2022 Art and Science of Pain Management Conference at FAU, Boca Raton, FL **Awarded 1st place of Best Posters**

C. Yarlagadda, D. Peters, K. Targowska-Duda, M. Minkoff, L. Toll and **A. Ozawa** (2022) Neural circuits regulating pain behaviors in the anterior cingulate cortex, The 2022 Art and

Science of Pain Management Conference at FAU, Boca Raton, FL

A. Ozawa, K. Targowska-Duda, D. Peters, J. Marcus, G. Zribi, and L. Toll (2022) Functional and anatomical characterization of pain-activated neurons associated with chronic pain, The BRAIN Initiative Meeting, Virtual

A. Ozawa, K. Targowska-Duda, D. Peters, J. Marcus, G. Zribi, and L. Toll (2021) Characterization of chronic pain-dependently activated neurons in the spinal cord, Society for Neuroscience, Virtual

A. Ozawa, G. Zribi, K.M. Targowska-Duda, T. Gonzalez, L. Toll (2019) Neuroanatomical analysis of chronic pain-dependently activated neurons in the brain and spinal cord, The International Narcotics Research Conference, New York, NY

A. Ozawa, G. Brunori, A. Cippitelli, N. Toll, J. Schoch, B.L. Kieffer, L. Toll (2017) Spinal pain regulation of the N/OFQ-NOP receptor system in a spinal nerve injury mouse model, The International Narcotics Research Conference, Chicago, IL

A. Ozawa, G. Brunori, D. Mercatelli, J. Wu, M. Williams, S. Low, G. Scherrer, B.L. Kieffer, and L. Toll (2015) Characterization of the NOP receptor distribution using NOP-eGFP mice, The International Narcotics Research Conference, Phoenix, AZ

A. Ozawa, J. Wu, D. Mercatelli, G. Brunori, M. Williams, S. Low, G. Scherrer, B.L. Kieffer, and L. Toll (2014) NOP-eGFP Mice: Immunohistochemical characterization of the NOP-eGFP distribution in the spinal cord and DRG, Society for Neuroscience, Washington, D.C.

A. Ozawa, J. Wu, D. Mercatelli, G. Brunori, S. Low, G. Scherrer, B.L. Kieffer, and L. Toll (2014) NOP-eGFP mice: NOP distribution in spinal cord and DRG neurons, The International Narcotics Research Conference, Montreal, Canada

A. Ozawa, A. Lick, and I. Lindberg (2011) Processing of proaugurin is required to suppress proliferation of tumor cell lines. The Endocrine Society Annual Meeting, Boston, MA

A. Ozawa, E. Lee, A. Hoshino, R. Halenbeck, J.F. Miceli, T. Mandichak, S. Kothakota, and I. Lindberg (2009) Validation of novel peptide hormones using prohormone convertase screening. ASBMB Annual Meeting, New Orleans, LA

A. Ozawa, E. Lee, R. Halenbeck, S. Kothakota, and I. Lindberg (2008) Genome-scale discovery of novel neuropeptides. Gordon Research Conference, Proprotein Processing, Trafficking and Secretion, New London, NH

A. Ozawa, Y. Cai, and I. Lindberg (2007) Production of bioactive peptides in an *in vitro* system. 19th Annual LSU Neuroscience Center Retreat, New Orleans, LA

A. Ozawa, Y. Cai, and I. Lindberg (2006) *In vitro* synthesis of bioactive peptides. Gordon Research Conference, Proprotein Processing, Trafficking and Secretion, New London, NH

A. Ozawa, T. Sawasaki, T. Uchiumi, H. Hori, and Y. Endo (2002) Functional analysis of RIP/RALyase-modified ribosomes. 25th Meeting of The Molecular Biology Society of Japan

A. Ozawa, T. Sawasaki, T. Uchiumi, H. Hori, and Y. Endo (2001) Mechanism of RALyase and Tritin (RIP) on ribosome inactivation. 74th Meeting of The Japanese Biochemical Society

Students supervised

High School Students

Arielle Rothenberg (2019), Summer intern, Pine Crest School, Fort Lauderdale, FL

Jake Thornberry (2024-), FAU High student (DIR)

Undergraduate Students

Melissa Williams (2013-2014), Senior thesis project for undergraduate program in Indian River State College, Fort Pierce, FL. Title: Biosynthesis of neuropeptide Q.

Maymun Mohiuddin (2019-2020), FAU DIR (Directed Independent Research) student

Jason Marcus (2019-2020), FAU DIR student

Marcel Orellana (2019-2020), FAU DIS (Directed Independent Study) student

Darian Peters (2020-2021 as a student; 2021-2024 as a research assistant), FAU DIS student, Awarded Undergraduate Student of Year (2020), Awarded Best Poster (Art and Science of Pain Management Conference, 2022)

Jason Lee (2020-2022), FAU (Directed Independent Study student and Max Planck Honors Program)

Marla Minkoff (2021-2022) FAU (Max Planck Honors Program) student

Kaleigh Harbin (2024-) FAU URISE Scholar and DIS/DIR student

Medical School Students (FAU)

Hanna Mielka-Maday (2018, summer), FAU summer intern project for medical school students

Nadia Sial (2020, summer), FAU summer intern project for medical school students

Jamshed Desai (2020, summer), FAU summer intern project for medical school students

Jordyn Lee (2021, summer) FAU summer intern project for medical school students

Isabel Snow (2022, summer) FAU summer intern project for medical school students

MS Students (FAU)

Tamara Damjanovic (2022-) Thesis committee

Santiago Matos (2023-) Mentor

Ph.D. Students (TPIMS)

Daniela Mercatelli (2014, visiting scholar)

Gloria Brunori (2014-15, visiting scholar)

Ph.D. Students (FAU)

Amanda Rainey (2019, rotation student)

Madeline Martinez (Supervision and advisor, Mentor: Lawrence Toll, 2021-)

Yeselth Angarita Pena (2021, rotation student)

Cailey Weaver (Supervision and advisor, Mentor: Lawrence Toll, 2022-2023)

Mason Martin (2024, rotation student)

Ph.D. Students (Medical University of Lublin, Poland)

Akanksha Mudgal (Co-mentor and thesis committee, Mentor: Dr. Katarzyna Targowska-Duda; 2023-)

Post-docs and visiting scientists

Katarzyna Targowska-Duda (Post-doc, 2018-2020; visiting scientist, 2022-2023)

Daisuke Yamada (visiting scientist, 2024-)

Research Assistants

Joe Micelli (2007-2009 at UMB); Adam Lick (2009-2011 at UMB); Jennifer Schoch (2012-2013 at TPIMS, 2018-2019 at FAU); Melissa Williams (2014-2015 at TPIMS); Darian Peters (2021-2024 at FAU); Chetan Yarlagadda (2022-2023 at FAU)

Awards

Travel Award for Young Investigators: The International Narcotics Research Conference 2014, Montreal, Canada

Travel Award for Young Investigators: The International Narcotics Research Conference 2015, Phoenix, AZ

Travel Award: The International Narcotics Research Conference 2017, Chicago, IL

Professional Society Membership

2014-present The International Narcotics Research Conference

2012-present Society for Neuroscience

2000-2021 The Molecular Biology Society of Japan

Teaching

- Biomedical Concepts and Translational Applications (Role, teacher (Pain in health science); Course director, Dr. Jianning Wei; Graduate course; 2023)
- Systems and Integrative Neuroscience (Role, teacher (somatosensory system); Course director, Dr. Robert Vertes; Graduate course; 2024-)
- Honors Behavioral Neuroscience (Role, teacher (somatosensory system); Course director, Dr. David Cinalli; Undergraduate Honor's college course; spring and fall semesters, 2024-)
- Honors Biochemistry (Course director, Dr. Akihiko Ozawa, BCH 3033, fall semester, 2025-)

Services

Ad hoc reviewer

European Journal of Histochemistry (2014), Frontiers in Psychiatry (2018, 2024), Cellular and Molecular Life Sciences (2018), Frontier in Cellular Neuroscience (2022), Molecular Brain (2024)

Review Editor

Frontier in Neuropharmacology (2023-)

Committee member

IACUC (FAU, 2024-)

Eric M Parise, PhD

Assistant Professor
Biomedical Science Department
Charles E. Schmidt College of Medicine
Stiles-Nicholson Brain Institute
Florida Atlantic University

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Boca Raton, FL 33431
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Education and Training:

2022–2025 **Instructor:** Icahn School of Medicine at Mount Sinai; Advisor: Dr. Eric J Nestler, MD, PhD
2016–2022 **Postdoctoral Fellow:** Icahn School of Medicine at Mount Sinai; Advisor: Dr. Eric J Nestler, MD, PhD
2011–2016 **PhD:** Neuroscience: Florida State University; Advisor: Dr. Carlos Bolaños-Guzmán, PhD
2009–2011 **MS:** Psychobiology: Florida State University; Advisor: Dr. Diana Williams, PhD
2004–2008 **BSc:** Psychology, Biology minor: Florida State University; Thesis Advisor: Dr. Carlos Bolaños-Guzmán, PhD

Honors and Awards:

- 2024: National Hispanic Science Network (NHSN) Annual Meeting Travel Award
- 2023: National Award of Excellence for Best Poster, Annual Meeting, National Hispanic Science Network
- 2021: First Place in DataBlitz Competition, Annual Meeting; Hope for Depression Research Foundation
- 2016: Graduate Student Research and Creativity Award, Florida State University
- 2015: Beidler Fellowship, Florida State University
- 2015: International Behavioral Neuroscience Society (IBNS) Annual Meeting Travel Award: 2015
- 2013–2014: Neuroscience Research Fellowship, Mount Sinai School of Medicine
- 2013: Morcom Career Development Award, Florida State University Foundation
- 2012: Summer Program in Neuroscience, Ethics, and Survival (SPINES)
- 2010–2012: Congress of Graduate Students Conference Presentation Award, Florida State University

Grant Funding and Salary Support:

1. Young Investigator Grant
Source: Brain & Behavior Research Foundation (BBRF)
Total costs: \$70,000
Duration: January 15, 2022 – January 14, 2024
2. National Research Service Award (NRSA)
Source: National Institute of Mental Health (NIHM) F31 MH103939
Title: *Neurocircuitry Underlying Ketamine-induced Antidepressant Effects During Adolescence*.
Total costs: \$75,454.00
Duration: 09/30/14 – 10/30/16
3. RNAscope ISH GET Hybridized Grant
Source: Advanced Cell Diagnostics
Total costs: \$2,000

Peer-Reviewed Journal Publications:

Google Scholar Citation Index h-index value = 27; October 2025; citations = 4,192.

1. **Parise EM**, Gyles TM, Sial OK, Godino A, Browne CJ, Parise LF, Torres-Berrío A, Salery M, Duran-de Cuttoli R, Rivera M, Cardona Acosta A, Holt LM, van der Zee Y, Lorsch ZS, Cathomas F, Garon JB, Teague C, Issler O, Hamilton PJ, Bolaños-Guzmán CA, Russo SJ, Nestler EJ. Sex-specific regulation of stress susceptibility by the astrocytic gene *Htr1l*. (In revisions at *Science*) bioRxiv: PMID: 38659771.
2. Cardona-Acosta AM, Parise LF, Bolaños-Guzmán CA, **Parise EM*** (2025). Prophylactic ketamine: current knowledge and future directions. *Biological Psychiatry*, PMID: 40158609. *Corresponding author.

3. Godino A, Salery M, Minier-Toribio AM, Patel V, Fullard JF, Kondev V, **Parise EM**, Martinez-Rivera FJ, Morel C, Roussos P, Blitzer RD, Nestler EJ (2025). Dopamine D1-D2 signalling in hippocampus arbitrates approach and avoidance. *Nature*, PMID: 40335693.
4. Parise LF, Iñiguez SD, Warren BL, **Parise EM**, Bachtell RK, Dietz DM, Nestler EJ, Bolaños-Guzmán CA (2024). Erk-2 in the nucleus accumbens facilitates stress-susceptibility and cocaine reinstatement. *Biological Psychiatry: Global Open Science*, PMID: 39896237.
5. Holt LM, Gyles TM, **Parise EM**, Minier-Toribio AM, Markovic T, Rivera M, Yeh SY, Nestler EJ. (2024) Astrocytic CREB in nucleus accumbens promotes susceptibility to chronic stress. *Biological Psychiatry*, PMID: 39369762.
6. Torres-Berrio A, Estill M, Ramakrishnan A, Kronman H, Patel V, Minier-Toribio AM, Issler O, Brown CJ, **Parise EM**, Van der Zee Y, Walker D, Martinez-Rivera FJ, Lardner CK, Duran-de Cuttoli R, Russo SJ, Shen L, Sidoli S, Nestler EJ (2024) Mono-methylation of lysine 27 at histone 3 confers lifelong susceptibility to stress. *Neuron*, PMID: 38959894.
7. Mitsi V, Ruiz A, Polizu C, Farzinpour Z, Ramakrishnan A, Serafini RA, **Parise EM**, Floodstrand M, Sial OK, Gaspari S, Tang CY, Nestler EJ, Schmidt EF, Shen L, Zachariou V (2024) RGS4 actions in mouse prefrontal cortex modulate behavioral and transcriptomic responses to chronic stress and ketamine. *Molecular Pharmacology*, PMID: 38351270.
8. Cathomas F, Lin HY, Chan KL, Li L, Parise LF, Alvarez J, Durand-de Cuttoli R, Aubry AV, Muhareb S, Desland F, Shimo Y, Ramakrishnan A, Estill M, Ferrer-Pérez C, **Parise EM**, Wilk MC, Kaster MP, Wang J, Sowa A, Janssen WG, Costi S, Rahman A, Fernandez N, Campbell M, Swirski F, Nestler EJ, Shen L, Merad M, Murrough JW, Russo SJ (2024) Circulating myeloid-derived MMP8 in stress susceptibility and depression. *Nature*, PMID: 38326622.
9. Sourty M, Nasseef T, Champagnol-Di Liberti C, Mondino M, Noblet V, **Parise EM**, Markovic T, Browne CJ, Darceq E, Nestler EJ, Kieffer BL (2024) Manipulating Δ FOSB in D1-type Medium Spiny Neurons of the nucleus accumbens reshapes whole brain functional connectivity. *Biological Psychiatry*, PMID: 37517704.
10. Gyles TM, Nestler EJ, **Parise EM*** (2024) Advancing preclinical chronic stress models to promote therapeutic discovery for human stress disorders. *Neuropsychopharmacology*, PMID: 37349475. *Corresponding author
11. Mansouri S, Pessoni AM, Rivera AM, Tamminga CA, **Parise EM**, Turecki G, Nestler EJ, Chen T, Labonte B (2023) Transcriptional dissection of symptomatic profiles across the brain of men and women with depression. *Nature Neuroscience*, PMID: 37884562.
12. Browne CJ, Futamura R, Minier-Toribio A, Hicks EM, Ramakrishnan A, Martinez-Rivera FJ, Estill M, Godino A, **Parise EM**, Torres-Berrio A, Cunningham AM, Hamilton PJ, Walker DM, Huckins LM, Hurd YL, Shen L, Nestler EJ (2023) Transcriptional signatures of heroin intake and seeking throughout the brain reward circuit. *Science Advances*, PMID: 37294757.
13. Teague CD, Picone JA, Wright WJ, Browne CJ, Silva G, Futamura R, Minier-Toribio A, Estill ME, Ramakrishnan A, Martinez FJ, Godino A, **Parise EM**, Schmidt KH, Pulido NV, Lorsch ZS, Kim JH, Shen L, Neve RL, Dong Y, Nestler EJ, Hamilton PJ (2023) CREB binding at the Zfp189 promoter within medium spiny neuron subtypes differentially regulates behavioral and physiological adaptations over the course of cocaine use. *Biological Psychiatry*, PMID: 36253194.
14. Nahvi R, Tanelian A, Nwokafor C, Godino A, **Parise EM**, Estill ME, Shen L, Nestler EJ, Sabban E (2023) Transcriptome Profiles Associated with Resilience and Susceptibility to Single Prolonged Stress in the Locus Coeruleus and Nucleus Accumbens in Male Sprague-Dawley Rats. *Behavioral Brain Research*, PMID: 36257560.
15. Sbarski B, Portugalov A, **Parise EM**, Nestler EJ, Zer-Aviv TM, Akirav I (2023) Anandamide hydrolysis inhibition modulates stress markers via beta-catenin in the PFC in a rat model of PTSD. *Progress in Neurobiology*, DOI: 10.60124/j.PNEURO.2023.10.05
16. Walker DM, Zhou X, Cunningham AM, Ramakrishnan A, Cates HM, Lardner CK, Pena CJ, Bagot RC, Issler O, Van Der Zee Y, Lipschultz AP, Godino A, Browne CJ, Hode GE, **Parise EM**, Torres-Berrio A, Kennedy PJ, Shen L,

- Zhang B, Nestler EJ (2022) Crystallin mu (Crym) in medial amygdala mediates the impact of social experience on cocaine seeking in males but not females. *Biological Psychiatry*, PMID: 36182529.
17. Mizrachi Zer-Aviv T, Islami L, Hamilton PJ, **Parise EM**, Nestler EJ, Sbarski B, Akirav I (2022) Enhancing endocannabinoid signaling via β -catenin in the nucleus accumbens attenuates PTSD- and depression-like behavior of male rats. *Biomedicine*, PMID: 35892688.
 18. Parise LF, **Parise EM**, Sial OK, Bolaños-Guzmán CA (2022) Social buffering is dependent on mutual experience in adolescent male mice exposed to social defeat stress. *Chronic Stress*, PMID: 35874910.
 19. Van der Zee Y, Eijssen LMT, Mews P, Ramakrishnan A, Alvarez K, Lardner CK, Cates HM, Walker DM, Torres-Berrio A, Browne CJ, Cunningham A, Cathomas F, Kronman H, **Parise EM**, de Nijs L, Shen L, Murrough JW, Rutten B, Nestler EJ, Issler O (2022) Blood miR-144-3P: A novel diagnostic and therapeutic tool for depression. *Molecular Psychiatry*, PMID: 35902629.
 20. Cathomas F, Holt L, **Parise EM**, Liu J, Murrough JW, Casaccia P, Nestler EJ, Russo SJ (2022) Beyond the Neuron: Role of Non-Neuronal Cells in Stress Disorders. *Neuron*, PMID: 35182484.
 21. Lardner CK, Van der Zee Y, Estill MS, Kronman HG, Sallery M, Cunningham AM, Godino A, **Parise EM**, Kim JH, Neve RL, Shen L, Hamilton PJ, Nestler EJ (2021) Gene-targeted, CREB-mediated induction of Δ FosB controls distinct downstream transcriptional patterns within D1 and D2 medium spiny neurons. *Biological Psychiatry*, PMID: 34425966.
 22. **Parise EM**, Parise LF, Sial OK, Cardona-Acosta AM, Gyles TM, Juarez B, Chaudhury D, Han MH, Nestler EJ, Bolaños-Guzmán CA (2021) The Resilient Phenotype Induced by Prophylactic Ketamine Exposure During Adolescence Is Mediated by the Ventral Tegmental Area–Nucleus Accumbens Pathway. *Biological Psychiatry*, PMID: 34247781.
 23. Kronman H, Torres-Berrio A, Sidoli S, Issler O, Godino A, Ramakrishnan A, Mews P, Lardner CK, **Parise EM**, Walker DM, Van der Zee Y, Browne CJ, Boyce BF, Neve R, Garcia BA, Shen L, Peña CJ, Nestler EJ (2021) Long-term behavioral and cell type-specific molecular effects of early life stress are mediated by H3K79me2 dynamics in medium spiny neurons. *Nature Neuroscience*, PMID: 33723435.
 24. Van der Zee Y, Lardner CK, **Parise EM**, Mews P, Ramakrishnan A, Patel V, Teague CD, Sallery M, Walker DM, Browne CJ, Labonté B, Parise LF, Kronman H, Peña CJ, Torres-Berrio A, Duffy JE, de Nijs L, Eijssen LMT, Shen L, Rutten B, Issler O, Nestler EJ (2021) Sex-specific role for SLIT1 in regulating stress susceptibility. *Biological Psychiatry*, PMID: 33896623.
 25. Parise LF, Sial OK, Warren BL, Sattler CR, Duperrouzel JC, **Parise EM**, Bolaños-Guzmán CA (2020) Nicotine treatment buffers negative behavioral consequences induced by exposure to physical and emotional stress in adolescent male mice. *Psychopharmacology*, PMID: 32594187.
 26. Williams DL, Coiduras II, **Parise EM**, Maske CB (2020) Hindbrain orexin 1 receptors blunt intake suppression by gastrointestinal nutrients and cholecystokinin in male rats. *Peptides*, PMID: 32579900.
 27. Sial OK*, **Parise EM***, Parise LF, Gnecco T, Bolaños-Guzmán CA (2020) Ketamine: The final frontier or another depressing end? *Behavioral Brain Research*, PMID: 32017978. *Contributed equally
 28. Issler O, van der Zee YY, Ramakrishnan A, Wang J, Tan C, Loh YE, Purushothaman I, Walker DM, Lorsch ZS, Hamilton PJ, Peña CJ, Flaherty E, Hartley BJ, Torres-Berrio A, **Parise EM**, Kronman H, Duffy JE, Estill MS, Calipari ES, Labonté B, Neve RL, Tamminga CA, Brennand KJ, Dony Y, Shen L, Nestler EJ (2020) Sex-Specific Role for the Long Non-coding RNA LINC00473 in Depression. *Neuron*, PMID: 32304628.
 29. Pignatelli M, Tejeda HA, Barker DJ, Bontempi L, Wu J, Lopez A, Ribeiro SP, Lucantonio F, **Parise EM**, Torres-Berrio A, Alvarez-Bagnarol Y, Marino R, Cai Z, Xue M, Morales M, Tamminga CA, Nestler EJ, Bonci A (2020) Cooperative synaptic and intrinsic plasticity in a disinhibitory limbic circuit drive stress-induced anhedonia and passive coping in mice. *Molecular Psychiatry*, PMID: 32161361.
 30. Torres-Berrio A, Issler O, **Parise EM**, Nestler EJ (2019) Unraveling the epigenetic landscape of depression: focus on early life stress. *Dialogues in Clinical Neuroscience*, PMID: 31949402.

31. Lorsch ZS, Hamilton PJ, Ramakrishnan A, **Parise EM**, Salery M, Wright WJ, Lepack AE, Mews P, Issler O, McKenzie A, Zhou X, Parise LF, Pripinias ST, Ortiz Torres I, Kronman HG, Montgomery SE, Loh YE, Labonté B, Conkey A, Symonds AE, Neve RL, Turecki G, Maze I, Dong Y, Zhang B, Shen L, Bagot RC, Nestler EJ (2019) Stress resilience is promoted by a Zfp189-driven transcriptional network in prefrontal cortex. *Nature Neuroscience*, PMID: 31427770.
32. Torres-Berrio A, Nouel D, Cuesta S, **Parise EM**, Restrepo-Lozano JM, Larcohelle P, Nestler EJ, Flores C (2019) MiR-218: a molecular switch and potential biomarker of susceptibility to stress. *Molecular Psychiatry*, PMID: 30980043.
33. Labonté B, Jeong YH, **Parise E**, Issler O, Fatma M, Engmann O, Cho KA, Neve R, Nestler EJ, Koo JW (2019) Gadd45b mediates depressive-like role through DNA demethylation. *Scientific reports*, PMID: 30874581.
34. Lorsch ZS, Loh YE, Purushothaman I, Walker DM, **Parise EM**, Salery M, Cahill ME, Hodes GE, Pfau ML, Kronman H, Hamilton PJ, Issler O, Labonté B, Symonds AE, Zucker M, Zhang TY, Meaney MJ, Russo SJ, Shen L, Bagot RC, Nestler EJ (2018) Estrogen receptor α drives pro-resilient transcription in mouse models of depression. *Nature Communications*, PMID: 29549264.
35. Hultman R, Ulrich K, Sachs BD, Blount C, Carlson DE, Ndubuizu N, Bagot RC, **Parise EM**, Vu MT, Gallagher NM, Wang J, Silva AJ, Deisseroth K, Mague SD, Caron MG, Nestler EJ, Carin L, Dzirasa K (2018) Brain-wide electrical spatiotemporal dynamics encode depression vulnerability. *Cell*, PMID: 29502969.
36. Menard C, Pfau ML, Hodes GE, Kana V, Wang VX, Bouchard S, Takahashi A, Flanigan ME, Aleyasin H, LeClair KB, Janssen WG, Labonté B, **Parise EM**, Lorsch ZS, Golden SA, Heshmati M, Tamminga C, Turecki G, Campbell M, Fayad ZA, Tang CY, Merad M, Russo SJ (2017) Social stress induces neurovascular pathology promoting depression. *Nature Neuroscience*, PMID: 29184215.
37. Sial OK, Warren BL, Alcantara LF, **Parise EM**, Bolaños-Guzmán CA (2016) Vicarious social defeat stress: Bridging the gap between physical and emotional stress. *The Journal of Neuroscience Methods*, PMID: 26545443.
38. Bagot RC, **Parise EM**, Peña CJ, Zhang HX, Maze I, Chaudhury D, Persaud B, Cachope R, Bolaños-Guzmán CA, Cheer JF, Deisseroth K, Han MH, Nestler EJ (2015) Ventral hippocampal afferents to the nucleus accumbens regulate susceptibility to depression. *Nature Communications*, PMID: 25952660.
39. **Parise EM**, Bolaños-Guzmán CA (2014) Chronic social defeat and intracranial self-stimulation: Unmasking the many faces of depression? *Biological Psychiatry*, PMID: 24835177.
40. Warren BL, Sial OK, Alcantara LF, Greenwood MA, Brewer JS, Rozofsky JP, **Parise EM**, Bolaños-Guzmán CA (2014) Altered gene expression and spine density in nucleus accumbens of adolescent and adult male mice exposed to emotional and physical stress. *Developmental Neuroscience*, PMID: 24943326.
41. Alcantara LF, Warren BL, **Parise EM**, Iñiguez SD, Bolaños-Guzmán CA (2014) Effects of psychotropic drugs on second messenger signaling and preference for nicotine in juvenile male mice. *Psychopharmacology*, PMID: 24452697.
42. Iñiguez SD, Alcantara LF, Warren BL, Riggs LM, **Parise EM**, Vialou V, Wright KN, Dayrit G, Nieto SJ, Wilkinson MB, Lobo MK, Neve RL, Nestler EJ, Bolaños-Guzmán CA (2014) Fluoxetine exposure during adolescence alters responses to aversive stimuli in adulthood. *The Journal of Neuroscience*, PMID: 24431458.
43. Kay K, **Parise EM**, Lilly N, Williams DL (2014) Hindbrain orexin 1 receptors influence palatable food intake, operant responding for food, and food-conditioned place preference in rats. *Psychopharmacology*, PMID: 23978908.
44. **Parise EM**, Alcantara LF, Warren BL, Wright KN, Hadad R, Sial OK, Kroeck KG, Iñiguez SD, Bolaños-Guzmán CA (2013) Repeated ketamine exposure induces an enduring resilient phenotype in adolescent and adult rats. *Biological Psychiatry*, PMID: 23790225.
45. **Parise EM**, Lilly N, Kay K, Dossat AM, Seth R, Overton JM, Williams DL (2011) Evidence for the role of hindbrain orexin-1 receptors in the control of meal size. *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology*, PMID: 21957165.
46. Warren BL, Iñiguez SD, Alcantara LF, Wright KN, **Parise EM**, Weakley SK, Bolaños-Guzmán CA (2011) Juvenile administration of concomitant methylphenidate and fluoxetine alters behavioral reactivity to reward- and mood-related

stimuli and disrupts ventral tegmental area gene expression in adulthood. *The Journal of Neuroscience*, PMID: 21753012.

47. Williams DL, Hyvarinen N, Lilly N, Kay K, Dossat A, **Parise E**, Torregrossa AM (2011) Maintenance on a high-fat diet impairs the anorexic response to glucagon-like-peptide-1 receptor activation. *Physiology & Behavior*, PMID: 21515295.
48. Iñiguez SD, Warren BL, **Parise EM**, Alcantara LF, Schuh B, Maffeo ML, Manojlovic Z, Bolaños-Guzmán CA (2009) Nicotine exposure during adolescence induces a depression-like state in adulthood. *Neuropsychopharmacology*, PMID: 19092782.

Manuscripts Under Review/In Preparation

1. Gyles TM*, **Parise EM***, Estill MS, Parise LF, Browne CJ, Shen L, Nestler EJ, Torres-Berrío A. Transcriptional Profiles of Antidepressant Resistance Across the Corticolimbic Pathway of Chronically Stressed Mice. (*In preparation*)
*Contributed equally
2. El-Baba TJ, Lutomski CA, Lawrence SAS, Bennett JL, Burnap SA, Butroid FI, Wu D, Song H, Chan KL, Parise LF, **Parise EM**, Struwe WB, Russo SJ, Robinson CV. Remodelling of Group II Metabotropic Glutamate Receptors in Brain following Chronic Stress. (*In preparation*)
3. Tufanli O, Scolaro B, Civieri GRM, Schlamp F, Delbare S, Weinstock A, Pena S, Cathomas F, Torres Berrío A, **Parise EM**, Chan KL, Parise LF, Osborne MT, Fayad ZA, Nestler EJ, Tawakol AA, Russo SJ, Fisher EA. Stress impairs atherosclerosis resolution via bone marrow derived monocytes. (*Under review at Nature*)
4. Holt LM, Minier-Toribio A, Futamara A, Browne CJ, Martinez-Rivera F, Markovic T, Gyles TM, Yeh S, **Parise EM**, Rivera M, Azizian C, Yim YY, Kondev V, Estill M, Yan S, Keane E, Labanca A, Rojas G, Dong Y, Shen L, Nestler EJ. Astrocytic CREB regulates transcriptomic, neuronal, and behavioral responses to cocaine. (*Under review at Science Advances*)
5. **Parise EM**, Parise LF, Sial OK, Gancarz-Kausch AM, Dietz DM, Cardona Acosta A, Bolaños-Guzmán CA. Repeated ketamine during adolescence increases sensitivity to ketamine in adulthood and alters glutamate receptor subunit 2/3 levels in the nucleus accumbens. (*In preparation*)

Book Chapters:

1. Gyles TM, **Parise EM**, Nestler EJ. (*In preparation*). “Molecular, Cellular, and Circuit Basis of Depression Susceptibility and Resilience” In: *Neurobiology of Depression*, 2nd edition.
2. Gyles TM, **Parise EM**, Nestler EJ. (2024). “Molecular Neuropharmacology of Treatment-Resistant Depression” In: *Therapies for Treatment-Resistant Depression: Neuropharmacology and Neurostimulation*.
3. **Parise EM**, Nestler EJ. (2023). “The neurobiology of Depressive Phenotypes” In: *APA Handbook for Depression*.
4. Parise LF, **Parise EM**, Cardona Acosta A, Bolaños-Guzmán CA. (2022). *Depression. “Animal models of mood disorders”* In: Charney and Nestler’s *Neurobiology of Mental Illness*, 6th Edition. Oxford: New York.
5. Alcantara LF, **Parise EM**, Bolaños-Guzmán CA. (2018). *Depression. “Animal models of mood disorders”* In: Charney DS, Buxbaum JD, Sklar P, & Nestler EJ (Eds.), *Neurobiology of Mental Illness*, 5th Edition. Oxford: New York.

Invited Talks/Presentations:

- 2025: Department of Neuroscience, University of Florida
- 2024: Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University
- 2024: Depression and Affective Neuroscience Seminar (DANS), Icahn School of Medicine at Mount Sinai
- 2023: Data Blitz, American College of Neuropsychopharmacology Annual Conference, Tampa, FL
- 2023: TAMIN Weekly Neuroscience Seminar Series, Texas A&M University
- 2023: CSU Neuroscience Seminar, Department of Psychology, California State University, Long Beach
- 2023: Molecules to Behavior Seminar, Department of Psychology, The University of Texas at El Paso
- 2023: Department of Anatomy and Neurobiology Seminar Series, Virginia Commonwealth University School of Medicine

- 2023: Winter Brain Conference, Snowbird Utah
- 2022: Early Career Neuroscientist Seminar Series, University of Florida
- 2021: Hope for Depression Research Foundation Annual Meeting; Virtual Conference
- 2020: Addiction Seminar, Icahn School of Medicine at Mount Sinai
- 2019: Neuroscience Institute, Texas A&M University; Virtual Talk
- 2019: Hope for Depression Research Foundation Annual Meeting, Tarrytown, NY
- 2018: Department of Neuroscience, Icahn School of Medicine at Mount Sinai
- 2017: Department of Neuroscience, Icahn School of Medicine at Mount Sinai
- 2010: Summer Seminar, Florida State University
- 2010: Society for the Study of Ingestive Behaviors, Pittsburgh, PA

Service:

- 2024: Poster organizing committee, National Hispanic Science Network (NHSN) Scientific Meeting
- 2023: **Organizer and Chair**, Hope for Depression Research Foundation (HDRF) Annual Retreat
- 2018–Present: Volunteer for Mentoring in Neuroscience Discovery at Sinai (MiNDS)
- 2018–Present: Volunteer for the Annual Mount Sinai Brain Fair
- 2013–Present: Scientific Journal Reviewer: *Neuropsychopharmacology*, *Biological Psychiatry*, *Behavioural Brain Research*, *Neuroscience*, *Psychopharmacology*, *Neuroscience Letters*, *Brain Stimulation*, *Journal of Neuroscience*, *Psychiatry Research*
- 2015: Undergraduate Presentation: The Pharmacology of Ketamine
- 2014–2015: Panel Presenter: Graduate Ethics Seminar
- 2014: Undergraduate Presentation: The Biology of Depression
- 2012–2015: Brain Fair, FSU Program in Neuroscience

Teaching Experience:

1. 2020–Present: Brain and Behavior: Pharmacology CCSG2: General Anesthetics & Sedative Hypnotics
2. 2011–2013: Psy3213C-Research Methods Lab, Instructor
3. 2010–2013: Exp3202C-Sensation and Perception Lab, Instructor

Professional Memberships:

- 2024–Present: American Society for Matrix Biology (ASMB)
- 2023–Present: National Hispanic Science Network (NHSN)
- 2018–Present: Hope for Depression Research Foundation (HDRF)
- 2012–Present: SPINES Fellow/ Marine Biology Laboratory (MBL) Corporation Member
- 2011–Present: International Behavioral Neuroscience Society (IBNS)
- 2008–Present: Society for Neuroscience (SfN)

Trainees:

<u>Name</u>	<u>Level of Trainee</u>	<u>Role in Training</u>	<u>Trainees' Current Status</u>
Kristen Kay	Undergraduate	Graduate Research Mentor; 2009–2011	PhD Student at Cleveland Clinic Lerner College of Medicine
Kyle Kroek	Undergraduate	Graduate Research Mentor; 2011–2012	PhD; XTAL Biostructures
Jacqueline Duperrouzel	Undergraduate	Graduate Research Mentor; 2011–2013	PhD; Clinical Psychologist
Carley Sattler	Undergraduate	Graduate Research Mentor; 2011–2014	Law School Student
Roey Hadad	Undergraduate	Graduate Research Mentor; 2012–2014	MS; Sr. Research Associate at University of Miami
Maria Greenwood	Graduate	Graduate Research Mentor; 2014–2016	PhD; Navy Researcher
Zachary Lorsch	Graduate	Postdoctoral Research Mentor; 2016–2018	MD/PhD; Internal Medicine Resident at Duke University
Omar Sial	Graduate	Postdoctoral Research Mentor; 2016–2021	PhD; Postdoctoral Fellow at Scripps, FL
Yentl van der Zee	Graduate	Postdoctoral Research Mentor; 2017–2022	PhD; Senior Consultant at ClearView Healthcare Partners
Arthur Godino	Graduate & Postdoctoral	Postdoctoral Research Mentor; 2017–2024	Postdoctoral Fellow at Inserm Research Institute
Rita Futamura	Graduate	Postdoctoral Research Mentor; 2018–2025	PhD Student at Mount Sinai
Trevonn Gyles	Undergraduate & Graduate	Postdoctoral Research Mentor; 2018–current	PhD Student at Mount Sinai
Collin Teague	Graduate	Postdoctoral Research Mentor; 2019–2022	PhD; MD Student at UCLA
Angelica Minier-Toribio	Graduate	Postdoctoral Research Mentor; 2019–2023	PhD Student at Mount Sinai
Emily Kozik	Graduate	Postdoctoral Research Mentor; 2021–2024	PhD Student at Mount Sinai
Giselle Rojas	Graduate	Postdoctoral Research Mentor; 2021–2025	PhD Student at Mount Sinai

Alexa LaBanca	Graduate	Instructor Research Mentor; 2022–2025	PhD Student at Mount Sinai
Christabel Mclain	Graduate	Instructor Research Mentor; 2022–2025	PhD Student at Mount Sinai
Matthew Rivera	Laboratory Technician	Direct supervisor; 2022–2025	Associate Researcher at Mount Sinai
Astrid Cardona Acosta	Graduate	Instructor Research Mentor; 2022–2024	PhD Student at Texas A&M University
Carolena Thompson	High School Student	Instructor Research Mentor; 2022–2024	Student at Ossining High School
Chinonso Nwakama	Graduate	Instructor Research Mentor; 2024–2025	MD/PhD Student at Mount Sinai
Earnest Chen	Graduate	Instructor Research Mentor; 2024–2025	MD/PhD Student at Mount Sinai
Elizabeth Kahn	Graduate	Instructor Research Mentor; 2024–2025	MD/PhD Student at Mount Sinai
Katerina E. Ríos Mermigas	Undergraduate	Faculty Mentor; 2025–current	BA Student at FAU
Roudchelle Achille	Graduate	Faculty Mentor; 2025–current	MS Student at FAU

References

Eric Nestler, MD PhD

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Relationship: Predoctoral Advisor

Scott Russo, PhD

Director of the Brain-Body Research Institute
Director of the Center for Affective Neuroscience
Endowed Chair, Mount Sinai Professor in Affective Neuroscience
Icahn School of Medicine at Mount Sinai
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Relationship: Mentor and Collaborator

Mary Kay Lobo, PhD

Associate Director of Basic & Translational Science at the Kahlert Institute of Addiction Medicine
Professor of Anatomy and Neurobiology
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Relationship: Mentor

Lyonna F. Parise, PhD.

(Published as Lyonna F. Alcantara prior to 2018)

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2025 – Current

Assistant Professor, Florida Atlantic University

2018 – 2025

Instructor; Scott Russo's Laboratory: Brain and Body Research Center, Icahn School of Medicine at Mount Sinai, New York, NY.

2018

PhD. Psychology: Behavioral and Cellular Neuroscience. Texas A&M University, College Station, TX.

Doctoral Advisor: Carlos A. Bolaños-Guzmán, Ph.D.

Dissertation: Extracellular-regulated kinase 2 in the lateral habenula modulates stress and antidepressant-like behaviors during adolescence.

2013

M.S. Psychobiology. Florida State University, Tallahassee, FL.

Thesis Advisor: Carlos A. Bolaños-Guzmán, Ph.D.

Thesis: Combined administration of methylphenidate and fluoxetine during adolescence results in lasting alterations in gene expression within the ventral tegmental area of adult C57BL/6 mice.

2010

B.S. Psychology. Florida State University, Tallahassee, FL.

Personal Statement

My research program uses a multidisciplinary approach to characterize peripheral and central interactions that drive reward-related deficits in neuropsychiatric comorbidities such as major depression and drug addiction. I have identified a role for peripheral proteases in mediating blood-brain barrier permeability and peripheral inflammation in alcohol and stress cross-sensitization. Using translational murine models, innovative neuroimmune approaches, and traditional cellular and molecular profiling, I will leverage these findings to isolate and test novel mechanisms to advance our understanding of brain-body interactions and ultimately aid in the development of effective therapeutic targets.

Grants

2025	K01:NIAAA-"Peripheral effectors in alcohol-induced stress-susceptibility and blood-brain barrier permeability" (NIH)
2023	NARSAD Young Investigator Award (BBRF).
2019	Leon Levy Award, New York Academy of Medicine.

Awards and Fellowships

2022 – 2024	Society invitation to the American College of Neuropharmacology Conference.
2023 – 2024	National Hispanic Science Network Conference Travel Awardee.
2019	Leon Levy Foundation Fellow in Neuroscience (New York Academy of Medicine).
2015	Neuroscience Scholars Program Associate (Society for Neuroscience).
2013	McKnight Fellow (Florida Education Fund).
2012	Summer program in Neuroscience Ethics and Survival Fellow (MBL).

Invited Symposia

2025	Society for Biological Psychiatry: "Translational Advances in Discovering the Neuroimmune Mechanisms of Depression". <i>Co-chair</i> .
2025	ADACE (Alcohol and Drug Abuse Center of Excellence) Postdoctoral Seminar Series at LSU Health Sciences Center.
2024	National Hispanic Science Network: Early Career Investigator in Drug Abuse Research.
2023	University of Florida: Early Career Neuroscientist Seminar.
2023	University of Texas El Paso: Molecules to Behavior Seminar.
2022	Society for Neuroscience: Professional Development Workshop: "Promoting an effective work-life balance".

Work Experience

2009 – 2011	Laboratory Technician.
2006 – 2009	Team Lead; Program Manager. Jumpstart Tallahassee; AmeriCorps.

Professional Affiliations

Alba Network.
Society for Neuroscience.
National Hispanic Science Network.
h-index: 20; i10 index: 28

ISI metrics

Publications

Published as of October 2025:

1. **Parise LF**, Cathomas F, He H, David E, Rizk M, Hawkins K, Karpman E, Guttman E, Russo SJ. (2025) Major depressive disorder shares immune signatures and potential therapeutic targets with inflammatory skin diseases. *Accepted in Press, Molecular Psychiatry*.
2. Teichman EM, Hu J, Lin HY, Fisher-Foye RL, Blando A, Hu X, Kaniskan HÜ, Montgomery SE, Cai M, **Parise LF**, Wang J, Russo SJ, Han MH, Jin J, Morel C. Design and validation of novel brain-penetrant HCN channel inhibitors to ameliorate social stress-induced susceptible phenotype. *Mol Psychiatry*. 2025 Apr 8. doi: 10.1038/s41380-025-02972-8. Epub ahead of print. PMID: 40199995.
3. **Parise LF**, Morel C, Van der Zee Y, Issler O, Cai M, Browne C, Blando A, Leclair K, Haynes S, Williams RW, Mulligan MK, Nestler EJ, Han MH, Russo SJ. Male and female behavioral variability and morphine response in C57BL/6J, DBA/2J, and their BXD progeny following chronic stress exposure. *Sci Rep*. 2024 Dec 28;14(1):30785. doi: 10.1038/s41598-024-80767-7. PMID: 39730457; PMCID: PMC11680947..
4. **Parise LF**, Iñiguez SD, Warren BL, Parise EM, Bachtell RK, Dietz DM, Nestler EJ, Bolaños-Guzmán CA. ERK2 Signaling in the Nucleus Accumbens Facilitates Stress Susceptibility and Cocaine Reinstatement. *Biol Psychiatry Glob Open Sci*. 2024 Nov 12;5(2):100416. doi: 10.1016/j.bpsgos.2024.100416. PMID: 39896237; PMCID: PMC11786747.
5. Aubry, A.V, Durand-de Cuttoli, R., Karpman, E., Fisher-Foye, R., **Parise, L.**, Cathomas, F., Burnet, C., Yang, Y, Yuan, CZ., Lablanca, A., Chan, K., Winston, K.T., Hsiao-Yun, L., Dackour, F., Tavallaei, A., Alvarez, J., Nishioka, T., Morishita, H., Froemke, R., Li, L., & Russo., S. A critical role for cortical amygdala circuitry in shaping social encounters. *Nature* (Accepted in press) Preprint:PMID: 37461537; PMCID: PMC10350173.
6. Cathomas, F., **Parise, L. F.**, Lin, H. Y., Chan, K. L., Li, L. , Alvarez, J., Durand-de Cuttoli, R., Aubry, A. V., Muhareb, S., Desland, F., Shimo, Y., Ramakrishnan, A., Estill, M., Ferrer-Pérez, C., Parise, E. M., Wilk, C. M., Kaster, M. P., Wang, J., Sowa, A., Janssen, W. G., Russo, S. J. (2024). Circulating myeloid-derived MMP8 in stress susceptibility and depression. *Nature*, 10.1038/s41586-023-07015-2. Advance online publication. <https://doi.org/10.1038/s41586-023-07015-2>
7. Audrey L. Warren, David Lankri, Michael J. Cunningham, Inis C. Serrano, **Lyonna F Parise**, Andrew C. Kruegel, Priscilla Duggan, Gregory Zilberg, Michael J. Capper, Vaclav Havel, Scott J. Russo, Dalibor Sames, and Daniel Wacker (2024) Structural pharmacology and therapeutic potential of 5-methoxytryptamine psychedelics.*Nature*. <https://doi.org/10.1038/s41586-019-0000-0>.
8. **Parise LF**, Joseph Burnett C, Russo SJ. Early life stress and altered social behaviors: A perspective across species. *Neurosci Res*. 2023 Nov 20:S0168-0102(23)00200-6. doi: 10.1016/j.neures.2023.11.005. Epub ahead of print. PMID: 37992997.
9. C., Shimo, Y., Cathomas, F., Lin, H. Y., Chan, K. L., **Parise, L. F.**, Li, L., Ferrer-Pérez C., Costi S., Murrough J.W. Russo, S. J. (2023) Social stress induces autoimmune responses against the brain. *Proc Natl Acad Sci U S A*. 2023 Dec 5;120(49):e2305778120. doi: 10.1073/pnas.2305778120. Epub 2023 Nov 27. PMID: 38011565; PMCID: PMC10710076
10. Li, L., Durand-de Cuttoli, R., Aubry, A. V., Burnett, C. J., Cathomas, F., **Parise, L. F.**, Chan, K. L., Morel, C., Yuan, C., Shimo, Y., Lin, H. Y., Wang, J., & Russo, S. J. (2022). Social trauma engages lateral septum circuitry to occlude social reward. *Nature*, 10.1038/s41586-022-05484-5. Advance online publication. <https://doi.org/10.1038/s41586-022-05484-5>
11. **Parise LF**, Parise EM, Sial OK, Bolaños-Guzmán CA. (2022) Social Buffering is Dependent on Mutual Experience in Adolescent Male Mice Exposed to Social Defeat Stress. *Chronic Stress*;6. doi:10.1177/24705470221111094.

12. Dion-Albert L, Cadoret A, Doney E, Kaufmann FN, Dudek KA, Daigle B, **Parise LF**, Cathomas F, Samba N, Hudson N, Lebel M; Signature Consortium, Campbell M, Turecki G, Mechawar N, Menard C. Vascular and blood-brain barrier changes underlie stress responses and resilience in female mice and depression in human tissue. Nat Commun. 2022 Jan 10;13(1):164. PMID: 35013188
13. LeClair KB, Chan KL, Kaster MP, **Parise LF**, Burnett CJ, Russo SJ. Individual history of winning and hierarchy landscape influence stress susceptibility in mice. Elife. 2021 Sep 28;10:e71401. doi: 10.7554/eLife.71401.PMID: 34581271
14. Parise EM, **Parise LF**, Sial OK, Cardona-Acosta AM; Gyles TM; Juarez B, Chaundry D, Han MH, Nestler EJ, Bolanos-Guzman CA. (2021) The Resilient Phenotype induced by prophylactic ketamine exposure during adolescence is mediated by the VTA-NAC pathway. Biological Psychiatry. 2021 Oct 1, 90 (7):482-493. doi: 10.1016/j.biopsych.2021.05.002. Epub 2021 May 8.PMID: 34247781
15. Sial OK, Gnecco T, Cardona-Acosta AM, Vieregge E, Cardoso EA, **Parise LF**, Bolaños-Guzmán CA. Exposure to Vicarious Social Defeat Stress and Western-Style Diets During Adolescence Leads to Physiological Dysregulation, Decreases in Reward Sensitivity, and Reduced Antidepressant Efficacy in Adulthood. Front Neurosci. (2021) Aug 2;15:701919. doi: 10.3389/fnins.2021.701919. eCollection 2021.PMID: 34408623
16. Takahashi A, Aleyasin H, Stavarache M, Li L , Cathomas F, **Parise LF**, Lin HY, Burnett CJ, Flanigan M, Brancato A, Ménard C, Pfau M, Kana V, Wang J, Hodes G, Sasaki T , Kaplitt M, Ogawa S, McEwen B (2021) Neuromodulatory effect of interleukin 1 β in the dorsal raphe nucleus on individual differences in aggression. Molecular Psychiatry; 2021 Apr 30 PMID: 33931727
17. Van der Zee YY; Lardner CK; Parise EM, Mews P, Ramakrishnan A, Teague CD; Walker DM, Salery M, Browne CJ, Labonté B, **Parise LF**, Kronman H, Pena CJ, Torres-Berrio A, Duffy JE, de Nijs L, Eijssen LMT, Shen L, Rutten B, Issler O; Nestler EJ (2021) Sex-specific role for SLIT1 in regulating stress susceptibility. Biological Psychiatry; 2021 Feb 27;S0006-3223 (21) 01096-9. PMID: 33896623
18. **Parise LF**, Sial OK, Sattler CR, Duperrouzel JC, Parise EM, Bolaños-Guzmán CA. Chronic nicotine treatment blunts the negative behavioral deficits induced by adolescent exposure to emotional or physical stress in male c57/b6 mice. Psychopharmacology (Berl). 2020. 237(10):3125-3137.PMID: 32594187
19. Deonarine KK, Qian Wang Q, Cheng H , Chan KL , Lin HS, Liu K , **Parise LF**, Cathomas F, Leclair KB, Flanigan ME, Long Li L, Aleyasin H, Guevara C, Hao K, Zhang B, Russo SJ, Wang J (2020) Sex-specific peripheral and central responses to stress-induced depression and treatment in a mouse model. J Neurosci Res, 2020 Dec;98(12):2541-2553. PMID: 32918293
20. Sial OK, Parise EM, **Parise LF**, Bolaños-Guzmán CA (2020) Ketamine: The final frontier or another depressing end? Behavioral Brain Research, 383: 112508. PMID:32017978
21. Sierra-Fonseca JA, **Parise LF**, Flores-Ramirez FJ, Robles EH, Garcia-Carachure I, Iñiguez SD (2020) Dorsal hippocampus ERK2 signaling mediates anxiolytic-related behavior in male rats. Chronic stress, 3, 1-7. PMID: 32095734
22. Iñiguez SD Flores-Ramirez FJ, Israel GC, **Parise LF**, Lobo MK, Warren BL I, Robison AJ (2019) Upregulation of hippocampal extracellular signal-related kinase (ERK) 2 induces antidepressant-like behavior in rat forced swim test. Behavioral Neuroscience, 133, 225-231. PMID: 30907619
23. Flores-Ramirez FJ, **Parise LF**, Alipo JB, Garcia-Carachure I, Castillo SA, Rodriguez M, Themman A, Lira O, Preciado-Pina J, Iñiguez SD (2019) Adolescent fluoxetine history impairs spatial memory in adult male, but not female, C57BL/6 mice. Journal of Affective Disorders, 249, 347-356. PMID: 30807936
24. Lorsch ZS, Hamilton PJ, Ramakrishnan A, Parise EM, Salery M, Wright WJ, Lepack AE, Mews P, Issler O, McKenzie A, Zhou X, **Parise LF**, Pirpinias ST, Ortiz Torres I, Kronman HG, Montgomery SE, Loh YE, Labonté B, Conkey A, Symonds AE, Neve RL, Turecki G, Maze I, Dong Y, Zhang B, Shen L, Bagot RC, Nestler EJ (2019) Stress resilience is promoted by a Zfp189-driven transcriptional network in prefrontal cortex. Nature Neuroscience, 22(9). PMID:31427770

25. Sial OK, Warren BL, **Alcantara LF**, Parise EM, Bolaños-Guzmán CA (2016) Vicarious Social Defeat Stress: Bridging the Gap Between Physical and Emotional Stress. Journal of Neuroscience Methods, 258, 94-103. PMID: 26545443
26. Sial OK, Warren BL, **Alcantara LF**, Parise EM, Bolaños-Guzmán CA (2014) Altered gene expression and spine density in nucleus accumbens of adolescent and adult male mice exposed to emotional and physical stress. Developmental Neuroscience, 36, 250-260. PMID: 24943326
27. **Alcantara LF**, Warren BL, Parise EM, Iñiguez SD, Bolaños-Guzmán CA (2014) Effects of psychotropic drugs on second messenger signaling and preference for nicotine in juvenile male mice. Psychopharmacology, 231, 1479-92. PMID: 24452697
28. Iñiguez SD, **Alcantara LF**, Parise EM, Stone M, Warren BL, Vialou V, Wright KN, Dayrit G, Wilkinson M, Lobo MK, Neve R, Nestler EJ, Bolaños-Guzmán CA (2014) Fluoxetine Exposure during Adolescence Alters Responses to Aversive Stimuli in Adulthood. Journal of Neuroscience, 34, 1007-21. PMID: 24431458
29. Parise EM, **Alcantara LF**, Warren BL, Wright KN, Hadad R, Sial O, Kroeck KG, Iñiguez SD, Bolaños-Guzmán CA (2013) Repeated Ketamine Exposure Induces an Enduring Resilient Phenotype in Adolescent and Adult Rats. Biological Psychiatry, 74, 750-9. PMID: 23790225
30. Warren BL, Vialou VF, Iñiguez SD, **Alcantara LF**, Wright KN, Feng J, Kennedy PJ, LaPlant Q, Shen L, Nestler EJ, Bolaños-Guzmán CA (2012) Neurobiological sequelae of witnessing stressful events in adult mice. Biological Psychiatry, 73, 7-14. PMID: 22795644
31. Warren BL, Iñiguez SD, **Alcantara LF**, Wright KN, Weakley SK, Bolaños-Guzmán CA (2011) Juvenile Administration of Concomitant Methylphenidate and Fluoxetine Alters Behavioral Reactivity to Reward- and Mood-related Stimuli and Disrupts Ventral Tegmental Area Gene Expression in Adulthood. The Journal of Neuroscience, 31, 10347-10358. PMID: 21753012
32. Iñiguez SD, Vialou V, Warren BL, Cao JL, **Alcantara LF**, Davis LC, Manojlovic Z, Neve RL, Russo SJ, Han MH, Nestler EJ, Bolaños-Guzmán CA (2010) Extracellular Signal-Related Kinase-2 in the Ventral Tegmental Area Regulates Responses to Stress. The Journal of Neuroscience, 30, 7652-7663. PMID: 20519540
33. Iñiguez SD, Warren BL, Parise E, **Alcantara LF**, Schuh B, Maffeo ML, Manojlovic Z, Bolaños-Guzmán CA (2009) Nicotine Exposure During Adolescence Induces a Depression-like State in Adulthood. Neuropsychopharmacology, 34, 1609-1624. PMID: 19092782

Pending

34. Chan K, Li L, **Parise LF**, Cathomas F, LeClair K, Shimo Y, Lin HY, Durand-de Cuttoli R, Aubry A, Alvarez J, Drescher T, Osman A, Yuan C, Fisher-Foye R, Price G, Schmitt Y, Kaster M, Furtado GC, Lira S, Wang J, Han W, de Araujo I, Russo S. Stress-activated brain-gut circuits disrupt intestinal barrier integrity and social behaviour. *Res Sq [Preprint]*. 2023 Oct 27:rs.3.rs-3459170. doi: 10.21203/rs.3.rs-3459170/v1. PMID: 37961128; PMCID: PMC10635315. *In revision*.
35. TJ El-Baba, CA Lutomski, SA S Lawrence, JL Bennett, SA Burnap, FI Butroid, D Wu, H Song, KL Chan, LF Parise, WB Struwe, SJ Russo, CV Robinson (2024) Direct isolation of metabotropic glutamate receptors from human brain uncovers their remodeling in depression. *In revision*.

Book Chapters

1. **Parise LF**, Cardona A, Bolaños-Guzmán CA, Parise EM. (2023). *Animal models of mood disorder in Neurobiology of Mental Illness*. D. S. Charney, E. J. Nestler, P. Sklar, & J. D. Buxbaum (6th edition). Oxford University Press.
2. **Alcantara LF**, Parise EM, Bolaños-Guzmán CA. (2017). *Animal models of mood disorder in Neurobiology of Mental Illness*. D. S. Charney, E. J. Nestler, P. Sklar, & J. D. Buxbaum (5th edition). Oxford University Press.

Select Published Abstracts

1. **Parise LF**, Chan K, Cathomas F, Durand-de Cuttoli, Morel C, AV Aubry, Hsiao-Yun, L, J Alvarez, Fisher-Foye, R., Drescher T, Li L, Russo SJ (2024) Shared Immune-Related Pathology in Response to Chronic

Stress or Alcohol Exposure. *American College of Neuropharmacology*, Phoenix AZ.

2. **Parise LF**, K Chan, F Cathomas, R Durand-de Cuttoli, AV Aubry, J Alvarez, C Morel, T Drescher, R Fisher-Foye, L Li, HY Lin, A Tavallaei, SJ. Russo (2024) Short-term binge drinking preferentially alters BBB dysregulation in the nucleus accumbens of male mice to promote stress susceptibility after protracted withdrawal, *Research Society for Alcohol*, Minneapolis, MN.
3. **Parise LF**, Cathomas F, Chan K, Long L, Cardona A, Parise EM, Sial OK, Bolanos-Guzman C, Russo SJ (2023) Alterations to the Blood-Brain Barrier Promote Changes in Alcohol preference. *American College of Neuropharmacology*, Tampa, FL.
4. **Parise LF**, Sial OK, Cathomas F, Chan K, Li L, Cardona AM, Parise EM, Russo SJ, Bolaños-Guzman CA (2021) Long-term intermittent exposure to alcohol alters social avoidance behavior in adult and adolescent male mice exposed to emotional or physical stress. *American College of Neuropharmacology*, San Juan, PR.
5. **Parise LF**, Cathomas F, Chan K, Pfau M, Russo SJ (2019) Interleukin 6-antibody treatment attenuates social defeat stress-induced avoidance in adult male and female mice. *American College of Neuropharmacology*, Orlando, FL.
6. **Parise LF**, Sial OK, Cardona AM, Parise EM, Nestler EJ, Russo SJ, Bolaños-Guzman CA (2018) Extracellular regulated kinase 2 within the lateral habenula promotes resilience to emotional and physical stress during adolescence. *American College of Neuropharmacology annual meeting*, Hollywood, FL.
7. **Alcantara LF**, Rozofsky J, Sial OK, Bolaños-Guzmán CA (2016) Chronic exposure to nicotine during adolescence, not adulthood, triggers long-term changes in mesolimbic expression of stress-related genes. *Society for Neuroscience annual meeting*, San Diego, California. *Selected as SfN Hot Topic*.
8. Parise EM, Gancarz AM, **Alcantara LF**, Sial OK, Dietz DM, Bolaños-Guzmán CA (2015) Repeated ketamine exposure during adolescence produces long-lasting changes in reward sensitivity to drugs of abuse and gene expression in the nucleus accumbens during adulthood. *American College of Neuropharmacology annual meeting*, Hollywood, FL.
9. **Alcantara LF**, Parise EM, Sial OK, Bolaños-Guzmán CA (2015) Unpredictable chronic mild stress during adolescence shifts preference for nicotine and alters gene expression in the ventral tegmental area. *Society for Neuroscience annual meeting*, Chicago, IL.
10. Parise EM, **Alcantara LF**, Sial OK, Nestler EJ, Bolaños-Guzmán CA (2014) Akt signaling within the nucleus accumbens regulates reactivity to chronic social defeat stress in male mice. *American College of Neuropharmacology annual meeting*, Phoenix, AZ.

Teaching experience

Marymount Manhattan College (2021-2024)

BSC 335: Developmental Neurobiology
NEU 348: Drugs and the Brain

Florida State University (2010-2016)

12 Laboratory courses total

Undergraduate Courses:

PSB 3004 (L): Physiological Psychology

EXP 3422 (L): Conditioning and Learning

Graduate Courses:

PSB 5230 (L): Vertebrate Neuroanatomy

Professional References

Scott J Russo: Scott.russo@mssm.edu

Eric J Nestler: Eric.nestler@mssm.edu

Carlos A Bolanos Guzman: Bolanos@tamu.edu

CURRICULUM VITAE
Howard M. Prentice, Ph.D.

INSTITUTIONAL ADDRESS

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EDUCATION

<u>Institution</u>	<u>Degree</u>	<u>Field of Study</u>
University of Aberdeen, Scotland: August 1975-June 1980	M.A. Honors 1980	Experimental Psychology
National Medical Research Institute (L'INSERM) Paris, France. Supervisor: Prof. Henry Hecquen August 1980-June 1981	DEA (M.Sc.) 1981	Neurobiology
University of London, Institute of Psychiatry, London, England. August 1983-June 1984	M.Sc. 1984	Neurochemistry
University of London, England Institute of Neurology, Queen's Square London, England. Supervisor: Prof. Frank S. Walsh August 1984-July 1987	Ph.D. 1987	Biochemistry
Stanford University School of Medicine Palo Alto, California Supervisor: Dr. Laurence H. Kedes, M.D.	Post-doctoral 09/87-01/89	Molecular Genetics
University of Southern California School of Medicine Los Angeles, CA. Supervisor: Dr. Laurence H. Kedes, M.D.	Post-doctoral 09/89-01/93	Molecular Genetics

PROFESSIONAL BACKGROUND

- July 2017 - present: Professor with Tenure, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL.
- January 2022 – present: Chair of Executive Committee of the Center for Complex Systems and Brain Sciences, Florida Atlantic University, Boca Raton, FL.
- July 2007 - 2017: Associate Professor with Tenure, Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL.
- 7/1/13 – 6/30/14 Visiting Associate Professor, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- December 2000 - 2007: Associate Professor, Biomedical Sciences, Charles E. Schmidt College of Science, Florida Atlantic University, Boca Raton, FL.
- June 2007-present Member of the Center for Complex Systems and Brain Sciences, Florida Atlantic University, Boca Raton, FL.
- December 2000-present Member of the Center for Molecular Biology and Biotechnology (CMBB) , Florida Atlantic University, Boca Raton, FL.
- January 2002 - present: Associate Professor (Secondary Appointment) Department of Biological Sciences, Florida Atlantic University, Boca Raton, FL.
- January 2002 - present: Voluntary Associate Professor, Department of Molecular and Cellular Pharmacology, University of Miami, Miami, FL
- July 1997 – Nov. 2000: Senior Lecturer (equivalent to Associate Professor) with Tenure, Division of Molecular Genetics, Institute of Biomedical and Life Sciences, University of Glasgow, Scotland.
- June 1993-July. 1997: Lecturer (equivalent to Assistant Professor), Division of Molecular Genetics and Department of Medicine and Therapeutics, University of Glasgow, Scotland.

HONORS/FELLOWSHIPS/AWARDS

- 2022 Nominated as member of National Academy of Inventors (2022).
- 2016 Nominated as International Faculty for the International Congress on Coronary artery disease (2017 Congress).
- 2014 Nominated as International Faculty for the International Congress on Coronary artery disease (2015 Congress).

2012	Nominated as International Faculty for the International Congress on Coronary artery disease (2013 Congress).
2010	Nominated as International Faculty for the International Congress on Coronary artery disease (2011 Congress).
2009	Nominated as International Faculty for the International Congress on Coronary artery disease (2009 Congress).
2009	College of Biomedical Science Award for Excellence in Teaching, Florida Atlantic University (College Nominee for University Teacher of the Year Competition).
2007	Dwight W. Warren Award for Excellence in Graduate Teaching, Florida Atlantic University.
1991-92:	Senior Investigator-ship of the American Heart Association (Greater Los Angeles Affiliate).
Jan 89 - May 93:	Postdoctoral Fellow, Department of Biochemistry and Institute for Genetic Medicine, University of Southern California Medical Center, Los Angeles, CA 90033. Supervisor: Prof. Laurence H. Kedes M.D.
1988-90:	Postdoctoral fellowship from the Muscular Dystrophy Association (PI: Dr Larry Kedes).
Oct 87 - Jan 89:	Postdoctoral fellow, Stanford University School of Medicine, Palo Alto, CA 94304 U.S.A. The MEDIGEN project (Molecular Genetics). Supervisor: Prof. Laurence H. Kedes M.D.
Aug 87-Sept 87	Research Associate, Institute of Neurology, Queen's Square, London.

TEACHING - Florida Atlantic University (last 20 years)

Teaching Awards:

- 1) College of Biomedical Science Award for Excellence in Teaching, Florida Atlantic University (College Nominee for University Teacher of the Year Competition). (2009)
- 2) Dwight W. Warren Award for Excellence in Graduate Teaching, Florida Atlantic University. (2007).

Courses Taught:

Graduate courses:

Taught in an interdisciplinary course with Department of Education and Nursing
School: "Heart of the Matter" 2005.

Spring 4000/6000 level course: Molecular biology of the cardiovascular system and cardiac disease (Coordinator, 45 hrs lectures) 2001-2006.

Fall 6000 level course: Molecular biology of the cardiovascular system and cardiac disease (Coordinator, 45 hrs lectures) 2006-2018.

Fall 4000/6000 level course: Molecular biology of the cardiovascular system and cardiac disease (Coordinator, 45 hrs lectures) 2019-present.

Fall 6000 level course: Macromolecular Delivery and Therapeutics: Team taught with Dr. Jang-Yen Wu. 2023 to present. (New graduate course developed).

Graduate seminar course. 2004 - 2008.

Advanced Cell Physiology Graduate Course: Lecturer and Coordinator 2006-2008.

Neuroscience Seminar Course 2009.

Advanced Cell Physiology Graduate Instructor 2006-2009.

Medical School Courses:

Medical School First Year Cellular Physiology: lecturer and Coordinator 2004, 2005

Medical School Cardiovascular Module: 2 lectures 2005, 2006

M1 Medical School Lectures: Cell Physiology 2007 – present.

M1 Medical School Lectures: Vascular structure and function 2007-present.

M1 Medical School Lectures: Neuroscience Module: 2014-present.

Problem based learning facilitator: Basic Science 2007-present.

Problem based learning facilitator: Neuroscience module: 2008-present.

Pathology and Therapeutics Facilitator (PT1, PT2 and PT4) 2019 to Present

Neuroscience and Behavior- lecturer 2008 to present.

Fundamental of Biomedical Science- lecturer 2005 to present.

Students trained:

Master's students

- 1) Zach Rickaway – Apoptosis in anoxic neurons. (2004-2006)
- 2) Rebecca Leon – Role of Taurine in Neuroprotection (2006-2008)
- 3) Diana Novarro - Antioxidant protection in skin. (2008-2012).
- 4) Neeta Kumari (2008-2011). Role of GAD in peripheral tissues.
- 5) S. Basilio (2016-2018)
- 6) S. Condikey (2021-2023).
- 7) Mireille Ben Andiollo (2023-present).

PhD students:

- 1) Ian Moench – HIF-1 alpha and Anoxia Tolerance (2004-2009)
- 2) Shailaja Kesaraju – Neurogenesis in anoxia (joint supervision with Dr Milton)

(2004-2005)

3) Gauri Nayak – Role of Bcl-2 family members in anoxic neurons (2004-2009)

- 4) Chun Liu Pan (2007-2012)
- 5) Michael Marshall (2008-2011)
- 6) James Sullivan (2014-2020).
- 7) Ganesh Chapagain (2021 to present).

Postdoctoral Fellows:

- 1) Daniele Scheurle 2000-2002
- 2) Lina Shehadeh 2003-2005
- 3) Christopher Dougherty 2004-2006

PhD Thesis Committees:

- 1) Jangfen Du
- 2) Shailaja Kesaraju
- 3) David Brunell
- 4) Stacey Chapman
- 5) Matthew Rowan
- 6) Girish Barot
- 7) Manas Biswal
- 8) Ravi Alluri
- 9) Tyler Smith
- 10) Mark McCollum
- 11) Simon Bulley
- 12) Amber Wilson (University of Miami).
- 13) Clint Chapman (Griffith University, Australia).
- 14) Purva Bali
- 15) Stacey Caplan
- 16) Jennifer Krill
- 17) Lauren Purpura
- 18) Melissa Reiterer

9 additional PhD committees.

Master's Theses Committees:

- 1) Ian Meunch (Dr Esiubo)
- 2) Tracy Cowell-(Marc Kantorow)
- 3) Yona Ardilis-(Kate Guthrie).
- 4) Ian Meunch (Dr Esiubo)
- 5) Angela Belancari (Dr Milton)
- 6) Monica McGarrity (Dr Milton).
- 7) Lynda Dirk (Dr Milton)
- 8) Alissa Deming (Dr Milton)
- 9) Ping-Ping Jia (Dr Lemanski).
- 10) Jing Liu (Dr Huang).
- 11) Lindsay Bruce (Dr. Milton).

12) Melissa Reiterer (Dr. Milton).

12 additional Masters committees.

Course and Curriculum development:

Planning of Post Baccalaureate Certificate Program (2010-present).

Planning and coordination of cellular physiology course for first year medical students (2004-2007).

Planning new interdisciplinary course with Department of Education and Nursing School: "Heart of the Matter" (2005).

Planning and Coordination of Advanced Cellular Physiology graduate course.(2006-2007)

Coordinator of Mol. Cardiol. Graduate Course.(2001-present)

Fall 6000 level course: Macromolecular Delivery and Therapeutics: Team taught with Dr. Jang-Yen Wu.2023 to present. (New graduate course developed).

Directed Independent Study students:

- 1) Ryan Owens (2004-2005)
- 2) Judith Formal (2004-2005)
- 3) Susan Martinez (2004-2005)
- 4) Brad Greenfield (2005-2006)
- 5) Sylvia Gamio (2005-2006)
- 6) Stephanie Petrovitch (2006-2007)
- 7) Eric Jimenez (2007-2008)
- 8) Emily Pollack (2008-2009)
- 9) Jennifer Miller (2008-2009)
- 10) Diana Navarro (2008-2009)
- 11) Jasmine Kordbacheh (2009-2010)
- 12) Melissa Ann Grosso (2009-2010)
- 13) Shannon O'Brien (2010-2011)
- 14) One Student (2011-2013)
- 15) Amrika Maharaj (2012-2013)
- 16) Shawn Guin (2012-2013)
- 17) Michelle Hack (2012-2013)
- 18) Alan Stein (2012-2013)
- 19) Monica Thacker (2013-2014)
- 20) Brian Bobosca (2014-2015)
- 21) Monica Thacker (2014-2015)
- 22) Kyran Bharath (2015-2016)
- 23) Carolyn Coles (2015-2016)
- 24) Carolyn Coles (2016-2017)
- 25) Eugenia Alvarez (2017-2018)
- 26) Stefan Basilio (2018-2019)
- 27) James Torres (2019)
- 28) Alex Beekharry (2019)

14 additional DIS students since 2019.

Undergraduate Research Program:

Summer Undergraduate Research Program (Department of Biological Sciences):

Anthony D'Errico. (2010-2011).

Honors Undergraduate Biology (2015 to present).

TEACHING - University of Glasgow

Courses and sections of courses taught:

Undergraduate Cell Biology: Lectures on Molecular Therapeutics : 1993-2000

Undergraduate Biomedical Sciences: Lectures on Gene regulation: 1993-2000

Honors Molecular and Cell Biology: Lectures and Problem Based learning sessions
on Molecular Basis of Gene Regulation. 1995-2000.

Honors Genetics Dissertation supervision 1993-2000

Honors Genetics Tutorials 1993-2000

PhD students:

Andrew Wylie

Jillian Queen

Andrew Dougherty

Obaid Khan

Postdoctoral Fellows:

Yvonne Alexander 1994-1997

Robert Heeley 1997-2000

Patricia McDonald 1994-1996

SERVICE

COMMITTEES AND SERVICE – Florida Atlantic University

University

January 2022 – present: Chair of Executive Committee of the Center for Complex
Systems and Brain Sciences, Florida Atlantic University, Boca
Raton, FL.

Chair: Neuroscience PhD Admissions Committee: Cell, Molecular and
Biomedical Research Area of Emphasis subcommittee 2023-2024,

Chair, University TRAC committee: (2009-2013).
Chair, University Biological Safety Committee: (2001-2018)
Vice Chair, Animal Care and Use Committee (May 2015 to present).
Member, Animal Care and Use Committee (January 2014 to May 2015).
Member, University Committee on Entrepreneurship: (2010-2012).
Member, University Senate; Representative on the University Senate for College (2007-2010).
Member, University International Education Committee (2009-present).
Member, University reading committee (2007-2009).
Member, Davimos Endowed Professor recruitment committee: (2003-2004)

College

College Graduate Strategic Planning Committee -member;
College Graduate Committee - member; Current
MSPPSC (student promotions and ethics) committee - member; Current
NSB-grading Committee - member; Current.
Admissions Interviewer, Current
PT4 Grading Committee. Current.
Member, Medical School Admissions Committee (2011 to present).

Chair, Faculty Assembly-College of Biomedical Science (2007-2009).
Vice-Chair, Faculty Assembly-College of Biomedical Science (2009-2010).
Member, College Promotions and Tenure (2007-2009).
Member, College Promotions and Tenure (current).
Member, FACS candidate recruitment committee (2007-2008).
Member, Curriculum advisory committee FAU: (2003-2009)
Member, Curriculum advisory committee UM/FAU member (2003-2009).
Member, College of Biomedical Science- Planning Committee - (2006)
Member, Clinical Recruitment Committee for Medical School (2003-2004)
Chair, Junior faculty recruitment committee: (2001-2003)
Member, Junior faculty recruitment committee: (2003-2005)
Member, College of Biomedical Science- Planning Committee: (2006)
Member, College research committee: (2007-2009).
Member, M1 promotions: (2007-2010).
Member, M1 interim steering committee: (2007).

Department

Member, CMBB Seminar Organizing committee (2007-2010).
Member, Research Committee Biomedical Sciences: (2003-2007)
Member, Department of Basic Science Chair Search committee (2007).
Member, FACS candidate recruitment committee (2007-2008).
Chair, Junior faculty recruitment committee: (2001-2003)
Member, Junior faculty recruitment committee: (2003-2005)

Other FAU service:

Florida Atlantic University Conference Organizer: The Brain Without Oxygen; A Symposium in Honor of Peter Lutz – A one day international symposium. H. Prentice Organizer; Florida Atlantic University, September 23rd, 2005.

COMMITTEES AND SERVICE - University Of Glasgow

Department of Medicine and Therapeutics: Biological Safety 1993-1998.
Department of Genetics: Safety Committee 1993-2000.
Institute of Biomedical and Life Sciences Biosafety Committee 1995-2000.
Department of Genetics Graduate Committee 1995-2000.
Glasgow Royal Infirmary Biomedical Safety Committee (University of Glasgow, Department of Medical Cardiology) 1994-2000.
Division of Molecular Genetics: Departmental Seminar Organiser 1995-2000.

ACTIVE ONGOING RESEARCH SUPPORT:

CURRENT SUPPORT

Gene Therapy for Alzheimer's Disease: FAU Brain Institute seed grant, Principal Investigator: H. PRENTICE; Prentice -Co-investigator: 6/1/2024- 6/30/2026, \$25,000.

GRANTS PENDING

The NIH grant that was submitted through CHS-Pharma as STTR/grant designed to prepare the gene therapy using AAV- G-CSF gene vector for pre-clinical study in stroke animal model. Relates to pharmacokinetics and pharmacodynamics of AAV-G-CSF gene therapy -designed to prepare for second phase of STTR application.

FLDOH for therapy for Alzheimer's disease using Carbamathione, a NMDA receptor partial Antagonist. Submitted.

Gene Therapy for Alzheimer's Disease: Ed Moore, Florida Department of Health: Principal Investigator: JANG-YEN WU; Prentice -Co-investigator: Start Date April 2024; \$250,000 for two years.

GRANTS FUNDED:

Title of Research Project: Small Equipment grant. Amount of award: £10,000. Source of support: Royal Society. Period covered: 1993-1994. Role in the project: Principal Investigator.

Title of Research Project: Hypoxia regulated gene therapy for heart disease. Amount of award: £78,000. Source of support: British Heart Foundation. Period covered: Two Years: 93-95. Role in the project: Principal Investigator.

Title of Research Project: Amount of award: £144,251. Source of support: Project grant from the Medical Research Council. Period covered: Three Years 94-97. Role in the project: Principal Investigator.

Title of Research Project: Regulation of foreign gene expression in the myocardium: applications to gene therapy for heart disease: Amount of award: £131,000. Source of support: British Heart Foundation. Period covered: 95-99 Role in the project: Principal Investigator. (Martin Hicks Co-PI.)

Title of Research Project: Identification of receptors mediating 5 hydroxytryptamine induced vasoconstriction in pulmonary arteries: Amount of award: £121,000. Source of support: The Wellcome Trust. Period covered: 97-99. Role in the project: Co-PI (Mandy MacLean PI).

Title of Research Project: Transcriptional regulation and gene therapy approaches for myocardial ischaemia. Amount of award: £10,000. Source of support: International travel grant from the Wellcome Trust. Period covered: 95-99. Role in the project: Prentice-Principal Investigator. (with Dr. Bishopric and Dr. Webster)

Title of Research Project: Investigation of the effects of skeletal troponin C expression in rabbit myocardium: Amount of award: £127,000. Source of support: Clinical Fellowship for Dr Andrew Docherty from the British Heart Foundation. Period covered: 96-99. Role in the project: Co-Principal Investigator.(PI- Professor S. Cobbe).

Title of Research Project: Molecular strategies to improve nitric oxide/superoxide balance in hypertensive and atherosclerotic vessels. Amount of award: £176,842. Source of support: British Heart Foundation. Period covered: 97-99. Role in the project: Co-Principal Investigator. (PI- Professor A. Dominiczak)

Title of Research Project: Analysis of the role of myotonic dystrophy protein kinase in phosphorylation of phospholamban. Amount of award: £41,301. Source of support: Wellcome trust. Period covered: Oct 98-Sept 99. Role in the project: Prentice Principal Investigator.

Title of Research Project: Development of novel strategies for regulated gene therapy. Amount of award: £30,000. Source of support: Glasgow Development. Agency/Scottish Enterprise. Period covered: 1998-2000. Role in the project: Principal Investigator.

Title of Research Project: Adenovirus- mediated gene transfer of endothelial nitric oxide synthase (eNOS) in experimental models of left and/or right

ventricular dysfunction. Amount of award: £37,360. Source of support: National Heart Research Fund. Period covered: July 99-June 2000. Role in the project: Principal Investigator.

Title of Research Project: Is abnormal sarcoplasmic reticulum function the basis for arrhythmogenesis and mechanical dysfunction in heart failure?
Amount of award: £950,012. Source of support: Program grant from the British Heart Foundation. Period covered: July 99-June 2004. Role in the project: Prentice- one of four PIs.

Title of Research Project: Brain Anoxia Tolerance and Targets for Stroke Therapy. Amount of award: \$120,000. Source of support: American Heart Association. Period covered: July 2002- June 2004. Role in the project: Co-Principal Investigator 30% effort.(Peter Lutz –PI)

Title of Research Project: Increase in tissue oxygenation for wound healing. Amount of award: \$17,500. Source of support: Industrial sponsor: (Corp: Hydron Mitrobubbles). Period covered: 2003-2004. Role in the project: Principal Investigator.

Title of Research Project: A transgenic mouse model with altered cardiac p300 transcription factor: Gene chip analysis for characterization of key regulatory pathways for heart failure. Amount of award: \$15,000. Source of support: FAU Research Enhancement Program. Period covered: 2004-2005. Role in the project: Principal Investigator.

Title of Research Project: Harvey cardiovascular project submission. Amount of award: \$100K. Source of support: Funded by Quantum. Period covered: 2004. Role in the project: One of four investigators.

Title of Research Project: Mechanisms of protection for hypoxia/ischemia:
Amount of award: \$87.5K. Source of support: Grant from Industrial Sponsor: Corp: Vita Biotech., Period covered: 2004-2006. Role in the project: Principal Investigator.

Title of Research Project: Oxidative stress and aging. Amount of award: \$180K. Source of support: Florida Center of Excellence. Period covered: 2003-2006. Role in the project: One of Three Joint Principal Investigators.

Title of Research Project: Brain Anoxia Tolerance and Constitutive Preconditioning. Amount of award: \$120K. Source of support: American Heart Association. Period covered: 2004-2006. Role in the project: Co-Principal Investigator.(PI-Sarah Milton).

Title of Research Project: ROS Defense Mechanisms in Brain Reoxygenation. Amount of award: \$100K. Source of support: NIH-AREA. Period covered: 2004-2006. Role in the project: Collaborator 10% effort. (Sarah Milton Principal Investigator).

Title of Research Project: Mechanisms underlying tissue protection by pulsatile

insulin delivery in rodent models of diabetes. Amount of award: \$20,000. Source of support: Advanced Diabetes Treatment Centers. Period covered: 2006-2008. Role in the project: Co-PI: H. Prentice (PI-B.K. Tuller).

Title of Research Project: Investigation of a novel insulin delivery system in a rabbit model of diabetes. Amount of award: \$9,500. Source of support: AdmetSys. (Industrial sponsor). Period covered: 2008-2009. Role in the project: Principal Investigator.

Title of Research Project: Methionine Sulfoxide Reductase –A and Myocardial Ischemic Protection: Amount of award: \$120,000. Source of support: American Heart Association. Period covered: 2005-2008. Role in the project: Principal Investigator.

Title of Research Project: "Hypoxia Regulated Gene Therapy for Neovascularization", The goal of this project is to design tissue-specific vectors to stop neovascularization in animal models of diabetic retinopathy and macular degeneration. Amount of award: Total Direct and Indirect Costs: \$421,500. Source of support: National Institutes of Health (National Eye Institute) R03 EYO16119. Period covered: 2005-2009. Role in the project: Co-Principal Investigator. (Principal Investigator, Janet C. Blanks).

Title of Research Project: Purchase of a Fluorescent Activated Cell Sorter. Amount of award: \$500,000 Total. Source of support: Equipment Grant: Bankhead Coley- Florida State Equipment Grant on Cancer Related Diseases: Period covered: 2007-2008. Role in the project: Prentice one of six Co- Principal Investigators.(PI- Yoshimi Shibata)

Title of Research Project: Role of IL-10 in preventing neo-vascularization in age related macular degeneration. Amount of award: \$212,050. Source of support: National Institutes of Health (NIH-R15EY018947-01). Period covered: 07/01/09-05/30/11. Role in the project: Co-Principle Investigator-5% effort (Kathy Dorey- Principal Investigator).

Title of Research Project: The turtle as a model of ROS tolerance and longevity. Amount of award: \$160,000. Source of support: National Institutes of Health. Period covered: 01/01/09 – 12/31/10. Role in the project: Co- Principle Investigator-5% effort (Sarah Milton- Principal Investigator).

Title of Research Project: "Reversal of Oxidative Damage in an In-Vitro Model of Stroke." The long range goal of this project is to evaluate expression and protective function of hypoxia regulated MsrA gene therapy vectors in ischemic brain in vivo. Amount of award: \$43,400 Total. Source of support: American Heart Association. Period covered: 07/01/08 to 06/30/10. Role in the project: Co-Mentor (Janet Blanks: Mentor).

Title of Research Project: Multidrug therapy for stroke. Amount of award: \$748,046 over three years Source of support: Florida Department of Health. Period covered: 01/01/2010-6/30/2013. Role in the project: Co-Principal Investigator-7% effort (John Wu- Principal Investigator).

Title of Research Project: FAU Research Priority Theme: Neuroscience.
Amount of Award: \$500,000. Source of Support: FAU Research Priority Theme.
Period covered: 01/08/2010- 31/07/2013. Prentice –member and investigator.
(P.I.: Janet Blanks)

Title of Research Project: FAU Research Priority Theme: Healthy Aging. .
Amount of Award: \$500,000. Source of Support: FAU Research Priority Theme.
Period covered: 01/08/2010- 31/07/2013. Prentice –member and investigator.
(P.I.: Joseph Ouslander)

Title: Neuroprotection with novel agents in PC12 cell cultures: \$38,000;
06/20/2013-06/19/2014 Role: PI

Title: Transcript targeted MTI and Neuroprotection for stroke. Burroughs
Wellcome Travel Grant; Harvard University: \$10,000. 2013, 12 months.

Title: Neuroprotection with active fractions of agents in PC12 cell cultures:
\$50,000; 05/20/2015-05/19/2016 Role: PI

Title of Research Project “Therapeutic effect of Aeura”. Amount of Award: \$50,000; Source
of support: Aeura Inc. Period covered: 06/01/2016-12/31/2017. Role: PI; FUNDED

Nutrapharm Health LLC Award: to Herb Weissbach plus 6 PIs. (Prentice: one of seven
PIs). Anti-ischemic mechanisms of a Sulindac analogue. FUNDED.

Gene Therapy for Stroke: Federal Agency/Institute: DOH, State of Florida; Grant
Mechanism (RO1, PO1, etc.): James and Esther King TTF proposal, Principal
Investigator: JANG-YEN WU; Prentice -Co-investigator: Proposal Submission
08/30/2015. Grant Start – End Date: 00/01/2016-12/31/2019. Submission
Status (Funded/Not funded/Pending): Funded: Total Funds: \$1,213,000

Ed and Ethel Moore research on Alzheimer’s Disease. Investigating the use of a
sulindac analogue in models of Alzheimer’s Disease. Role in the project: PI.
(Co-PIs Shailaja Allani, Herb Weissbach) Proposal Submission
Date:02/13//2020; Grant Start – End Date: 07/01/2021- 11/30/2023; Total Funds
Awarded: \$100,000.00;

Gene Therapy for Alzheimer’s Disease: FAU Brain Institute seed grant, Principal
Investigator: Jang-Yen Wu; Prentice -Co-investigator: 6/1/2023- 6/30/2025,
\$25,000.

PATENTS AWARDED AND PENDING

Patent awarded on Anti-Angiogenic Gene Therapy (Dr. H. Prentice, Dr. J. Blanks and Dr K. Dorey) (2013).

Patent Awarded-Anti-Angiogenic Gene Therapy-Continuation in part -2017.

Patent awarded on Multidrug therapy for Stroke (Dr. H. Prentice and Dr. J. Wu) (2015).

Patent Awarded: Title: TREATMENT FOR ISCHEMIC STROKE

U.S. Patent Number: 10272063

Date issued: 04/30/2019

Inventors: Jang-Yen Wu and Howard Prentice

2019: Elected as Member, National Academy of Inventors, September 10, 2019.

OTHER EXPERIENCE AND PROFESSIONAL ORGANIZATION MEMBERSHIP

Chair American Heart Association Study Section: Genetics and Epigenetics 2014-2021.

Vice Chair American Heart Association Study Section: Genetics and Epigenetics 2011-2014.

Member American Heart Association Study Section: Genetics and Epigenetics 2022- 2023.

Member American Heart Association Study Section: 2023- 2025. Innovative Project Award. Basic Science.

Member of Editorial Board of Frontiers in Physiological Genomics. Member of Editorial Board of Journal of Vascular Medicine.

American Heart Association Basic Science Council Member.

ARVO Member.

JOURNAL REVIEW

Member of Editorial Board of Frontiers in Physiological Genomics.

Member of Editorial Board of Journal of Vascular Medicine.

Member of Editorial Board of Journal of J. Brain Science.

Member of Editorial Board of Journal of Neuroscience Communications.

Proc. Natl. Acad. Sci. USA.

Journal of Gene Medicine

Journal of Experimental Biology

Circulation Research.

Journal of Biomedical Science.

Journal of comparative Biochemistry and Physiology.
FASEB Journal.
Editorial Board Frontiers in Physiology;
Editorial Board Journal of Molecular and Cellular Toxicology;
(Reviewer for Journals – J Biomedical Science, J Cell Physiol. ; Amino Acids; Journal of Integrative Neuroscience; Frontiers in Cardiovascular Medicine; Frontiers in Pediatrics.

GRANT REVIEW

NIH

Academia Sinica Taiwan.

National Heart Research Fund

Trustees to St. Thomas's Hospital, London

British Heart Foundation (1993-2001)

Wellcome Trust

American Heart Association Study Section Member: Florida Affiliate 2002-2007.

American Heart Association Study Section Member (National) 2007- 2014; 2022-2024. (Chair of Genetics and Epigenetics study section: 2014-2019)., 2023-2025.

Department of Veterans Affairs

Grant review for Italian Ministry of Education, Universities and Research (IMUR).

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INVITED LECTURES, SEMINARS AND SYMPOSIUM PRESENTATIONS:

American Heart Association 65th Annual Scientific Sessions, November 1992, New Orleans, LA. Speaker.

N + N Meeting (SERC and NIH sponsored) on Cellular Engineering, September 1993, Chester, UK. Invited Speaker.

American Heart Association 66th Annual Scientific Sessions, November 1993, Atlanta, GA. Speaker.

NATO Advanced Research Workshop on Cardiac Growth and Regeneration, June 1994, Vertibo, Italy. Speaker.

Cellular Engineering Conference, San Diego, CA, August 1995 Speaker

American Heart Association 68th Annual Scientific Sessions, November 1995, Anaheim, CA. Speaker.

Annual Workshop On Hypoxia and the Tumour Microenvironment, May 1997, Martha's Vineyard, MA. Invited Speaker.

Miami Nature Biotechnology Winter Symposium, February 1998, Miami, FL. Invited Speaker.

Heart Failure '98 Update-Glasgow. Molecular Biology of Cellular Stress in the Cardiovascular System. 1998. Invited Speaker.

European Society of Cardiology International Symposium 1998, Vienna. Invited Speaker.

British Society for Cardiovascular Research-Molecular Genetics of Cardiovascular Disease 1999, Glasgow. Speaker.

International Symposium on Hypoxia Sensing 1999, Philadelphia. Invited Speaker.

Symposium On Organisms With Slow Aging (SOSA II) 2003, Los Angeles. Invited Speaker.

International Union of Physiological Sciences Conference. Session on Hypoxia: Neuroprotection. 2005, San Diego. Invited speaker.

Society for Experimental Biology; Canterbury, England. Session on Anoxia and Hypoxia. Invited Speaker, March 2006.

International Conference on Coronary Artery Disease. Organizing committee, Invited speaker, Prague October 2009.

International Conference on Coronary Artery Disease. Organizing Committee, Congress of 2011, Venice, Italy.

International Taurine meeting, Morocco, April 2012. Plenary speaker plus two additional lectures.

August 2012 Gordon Conference in Stroke: Session Organizer and Session Chair on – "Tissue stress and oxygen availability"

Invited speaker at International conference on Amino Acids: Galveston, Texas, September 2013.

Invited Seminar At MGH: Boston MA, November 7, 2013, Neuronal survival mechanisms and models of ischemic protection.

Global Summit on Stroke: Stroke-2015, Birmingham, UK. Plenary speaker plus one additional lectures. Organizing committee representative.

Invited Speaker: International Taurine Meeting, 2016; Seoul, Korea. Poster

Presentation ARVO, Hawaii, 2018.

Invited Speaker University of South Florida, February 2019. Poster presentation ARVO, Vancouver, Canada, May 2019.

Organizer and Invited speaker: International Symposium on Brain Function/ Dysfunction and Intervention: In honor of Dr. Jang-Yen Wu's Lifetime Achievements in Neuroscience. December 2025

CONFERENCE ORGANISATION

Heart Failure '98 Update-Glasgow. Local Organizer and Chair for sessions on Molecular Biology of Cellular Stress in the Cardiovascular System and on Gene Therapy for Heart Failure.

International Union of Physiological Sciences Conference. Session on Hypoxia: Neuroprotection. 2005, IUPS: Symposium co-organiser, San Diego 2005.

The Brain Without Oxygen; A Symposium in Honor of Peter Lutz – A one day international symposium. H. Prentice Organizer. Florida Atlantic University, September 23rd, 2005.

Society for Experimental Biology; Canterbury, England. Session on Anoxia and Hypoxia. Co-organiser; March 2006.

International Conference on Coronary Artery Disease. Organising committee, Chair of session on Signaling. Prague October 2009.

International Taurine Meeting, Florida Atlantic University, Boca Raton, Florida; Local Organizer, 2009.

International Conference on Coronary Artery Disease. Organizing Committee, Congress of 2011.

International Conference on Coronary Artery Disease. Organizing Committee, Congress of 2013.

Global Summit on Stroke: Stroke-2015 Organizing Committee, Birmingham, UK.

PUBLICATIONS IN JOURNALS

- 1) Bhandari S, Xu H, Chen B, Basilio S, Sartipi P, Sontag H, Shen W, Tao R, **Prentice H**, and Wu J.-Y. Assessing Behavioral and Psychological Symptoms of Dementia in a 3xTg-AD Mouse Model of Alzheimer's Disease. *Open Access J Neurol Neurosurg* (2023); 18(5): DOI: 10.19080/OAJNN.2023.18.555996.
- 2) Modi JP, Shen W, Menzie-Sudaram J, Xu H, Lin CH, Tao R, **Prentice HM**, Schloss J, Wu JY. The Role of NMDA Receptor Partial Antagonist, Carbamathione, as a Therapeutic Agent for Transient Global Ischemia. *Biomedicines*. 2023 Jul 3;11(7):1885. doi: 10.3390/biomedicines11071885
- 3) Clemons GA, Silva ACE, Acosta CH, Udo MSB, Tesic V, Rodgers KM, Wu CY, Citadin CT, Lee RH, Neumann JT, Allani S, **Prentice H**, Zhang Q, Lin HW. Protein arginine methyltransferase 4 modulates nitric oxide synthase uncoupling and cerebral blood flow in Alzheimer's disease. *J Cell Physiol*. 2022 Aug 29;1002/jcp.30858. doi: 10.1002/jcp.30858. Online ahead of print.PMID: 36036549
- 4) Allani SK, Rayala R, Rivera O, **Prentice HM**, Chen X, Ramírez-Alcántara V, Canzoneri J, Menzie-Sudaram J, Huang X, Georgescu C, Wren JD, Piazza GA, Weissbach H. A novel sulindac derivative protects against oxidative damage by a cyclooxygenase-independent mechanism. *J Pharmacol Exp Ther*. 2022 Jun 9;382(2):79-87. doi: 10.1124/jpet.122.001086. Online ahead of print.PMID: 35680377
- 5) Wu JY, **Prentice H**. Potential New Therapeutic Intervention for Ischemic Stroke. *J Transl Int Med*. 2021 Jan 29;9(1):1-3. doi: 10.2478/jtim-2021-0014. eCollection 2021 Mar.
- 6) Menzie-Sudaram JM, Modi J, Xu H, Bent A, Trujillo P, Medley K, Jimenez E, Shen J, Marshall M, Tao R, **Prentice H**, Wu JY. Granulocyte-colony stimulating factor gene therapy as a novel therapeutics for stroke in a mouse model. *J Biomed Sci*. 2020 Oct 30;27(1):99. doi: 10.1186/s12929-020-00692-5.
- 7) Modi J, Menzie-Sudaram J, Xu H, Trujillo P, Medley K, Marshall ML, Tao R, **Prentice H**, Wu JY. Mode of action of granulocyte-colony stimulating factor (G-CSF) as a novel therapy for stroke in a mouse model. *J Biomed Sci*. 2020 Jan 6;27(1):19. doi: 10.1186/s12929-019-0597-7.
- 8) Couturier CS, Stecyk JAW, Ellefsen S, Sandvik GK, Milton SL, **Prentice HM**, Nilsson GE. The expression of genes involved in excitatory and inhibitory neurotransmission in turtle (*Trachemys scripta*) brain during anoxic submergence at 21 °C and 5 °C reveals the importance of cold as a preparatory cue for anoxia survival. *Comp Biochem Physiol Part D Genomics Proteomics*. 2019 Jun;30:55-70. doi: 10.1016/j.cbd.2018.12.010. Epub 2019 Feb 13.

- 9) J. M. Menzie-Sudaram , P. Gharibani , J. Modi , Z. Ma, R. Tao ,**H. Prentice**, J.-Y. Wu. Granulocyte-colony stimulating factor protects against endoplasmic reticulum stress in an experimental model of stroke. *Brain Research*. 1682: 1-13 (2018).
- 10) Biswal MR, **Prentice HM**, Smith GW, Zhu P, Tong Y, Dorey CK, Lewin AS, Blanks JC. Cell-specific gene therapy driven by an optimized hypoxia- regulated vector reduces choroidal neovascularization. *J Mol Med (Berl)*. 2018 Oct;96(10):1107-1118.
- 11) **Howard Prentice**, Chunliu Pan, Payam M. Gharibani, Zhiyuan Ma, Allison L. Price, Grace S. Giraldo, Howard M. Retz, Amit Gupta, Po-Chih Chen, Hongyuan Chiu, Jigar Modi, Janet Menzie, Rui Tao and Jang-Yen Wu. Analysis of neuroprotection by taurine and taurine combinations in neuronal cultures and primary neuronal cell lines exposed to glutamate toxicity and to hypoxia/reoxygenation. *Adv Exp Med Biol*. 2017;975:207-216. doi: 10.1007/978-94-024-1079-2_18 (2017).
- 12) **Howard Prentice**, Payam M. Gharibani, Zhiyuan Ma, Anamaria Alexandrescu, Rafaella Genova, Po-Chih Chen, Jigar Modi, Janet Menzie, Chunliu Pan, Rui Tao and Jang-Yen Wu. Neuroprotection through ER stress inhibition by taurine and taurine combination therapies in a rodent model of stroke. . *Adv Exp Med Biol*. 2017; 975:193-205. doi: 10.1007/978-94-024-1079-2_17 (2017).
- 13) Modi J, Altamimi A, Morrell A, Chou H, Menzie J, Weiss A, Marshall ML, Li A, **Prentice H**, and Wu J-Y. Protective functions of AEURA in cell based model of Stroke and Alzheimer disease. *Journal of Neuroscience and Neurological Disorders*, 1:016-023 (2017).
- 14) Jong, C. J., Ito, T., **Prentice, H.**, Wu, J.-Y., and Schaffer, S.W.. Role of Mitochondria and Endoplasmic Reticulum in Taurine-deficiency-mediated apoptosis. *Nutrients* 2017 Jul 25;9(8). pii: E795. doi: 10.3390/nu9080795. (2017).
- 15) Modi, J; **Prentice, H** and Wu, J-Y. Preparation, Stimulation and Other Uses of Adult Rat Brain Synaptosomes. *Bio-Protocol*, 7; 24 Dec 20, (2017).
- 16) **Prentice H**, Modi J, Menzie J, Chou H, Weiss A, Marshall ML, Wu JY. Neuroprotective Mechanisms of Action of DETC-Meso, GCSF, Sulindac, Taurine and AEURA. *SciTzNeurolNeurosci*. 2016. 1(1): 1004
- 17) **Prentice H**, Weiss A, Marshall ML and Wu J -Y, AEURA, a novel homeopathic agent, shows high level protection against viral infection and stress induced neuronal toxicity. *Journal of Biomedical Science and Applications* (2016).
- 18) Chou CC, Modi JP, Wang CY, Hsu PC, Lee YH, Huang KF, Wang AH, Nan C, Huang X, **Prentice H**, Wei J, Wu JY. Activation of Brain L-glutamate Decarboxylase 65 Isoform (GAD65) by Phosphorylation at Threonine 95 (T95). *Mol Neurobiol*. 2016 Jan 16. [Epub ahead of print].

- 19) Nayak G, **Prentice HM**, Milton SL. Lessons from nature: Signaling cascades associated with vertebrate brain anoxic survival. *Exp Physiol*. 2016 Mar 17. doi: 10.1113/EP085673. [Epub ahead of print]
- 20) Ren, J. Q., Chen, I., Chen, P.-C., **Prentice, H.**, Wu, J.-Y. and Liu, P.K. Non-invasive evaluation of brain damage and repair by gene therapy. *Gene Ther*. 2016; 23(1):1-9. doi: 10.1038/gt.2015.81.
- 21) Modi, J.P., **Prentice, H.** and Wu, J.-Y. Regulation of GABA synthesis and transport. In "Gamma-Aminobutyric Acid (GABA): Biosynthesis, Medicinal Uses and Health Effects" (Vlainic, J. ed., NOVA publisher). 2015, In Press
- 22) Modi JP, **Prentice H**, Wu JY. Regulation of GABA Neurotransmission by Glutamic Acid Decarboxylase (GAD). *Curr Pharm Des*. 2015; 21(34):4939-42.
- 23) Modi JP, Gharibani PM, Ma Z, Tao R, Menzie J, **Prentice H**, Wu JY. Protective mechanism of sulindac in an animal model of ischemic stroke. *Brain Res*. 2014 Aug 12;1576:91-9. (Prentice, Tao, Wu –corresponding authors).
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Education:

Huazhong Univ. of Science & Technology, China	B.A	1985	Bioengineering
University of Tennessee, Memphis, TN	Ph.D	1991	Physiology
Duke University Medical Center, Durham, NC	Postdoctoral	1992	Neuroimmunology
National Institute of Mental Health, MD	Postdoctoral	1998	Neuroimmunology

Personal statement: The focus of my lab is on how the nervous system and immune system form a combined neuroimmune supra-system. We are interested in understanding how these two systems communicate with each other to modulate each other's function. We use multiple techniques in molecular biology, neuroscience, and immunology to accomplish this goal. This multidisciplinary approach creates an ideal environment for training students on broad biomedical research subjects. Advanced technologies such as FACS analysis, cloning, in-cell Western, patch-clamping electrophysiology, production of transgenic mouse and targeted transgenesis, and behavioral analysis are employed in my laboratory. Our current research led to the discovery of the euflammatory process which can be used to design vaccine-based induction of immune responses as well as bacterial based cancer therapy. We are also conducting detailed analyses of cell-type specific actions mediated by IL-1R1 using several lines of transgenic animals that we created. This research has led to the identification of specific pathways related to the pathogenesis of various psychopathology caused by CNS inflammation.

A. Positions and Honors.

Positions and Employment

1987-1991	Graduate Research Assistant, Department of Physiology, University of Tennessee, Memphis, TN
1991-1992	Postdoctoral Fellow, Department of Psychiatry, Duke University Medical Center, Durham, NC
1992-1995	Instructor, Department of Psychiatry, Emory University School of Medicine, Atlanta, GA
1995-1998	Intramural Training Fellow, National Institute of Mental Health, Bethesda, MD
1998-2003	Assistant Professor, Oral Biology and Institute for Behavioral Medicine Research, Ohio State University, Columbus, OH
2003-2009	Associate Professor, Oral Biology and Institute for Behavioral Medicine Research, Ohio State University, Columbus, OH

2009-2019 Tenure Professor, Biosciences and Institute of Behavior Medicine, Ohio State University.
2009-2016 Chair, Oral Biology Graduate Program, Ohio State University.
2019-present Professor, Biomedical Science, Charles E. Schmidt College of Medicine, FAU
2019-present Professor, FAU Brain Institute
2020-present Director, Program in Neuroimmunology & Glial Biology
2021-present Faculty, International Max Planck Research Schools

B. Honors and Appointments

1998 Tanaguchi Young Investigator
2001 Stazen Award for Junior Research Scientist
2008 Stazen Award for Senior Research Scientist
2004-2008 NIH Study Section Member (NNB, Neuro-endocrine, Neuro-immunology, and Behavior)
2010-2017 Ad-hoc NIH Study Section (PMDA) Member
2017-2019 NIH Study Section Member (PMDA).
2020-present Ad-hoc NIH Study Section Member (BNRS, Behavioral Neuroendocrinology, Neuroimmunology, Rhythms and Sleep)
2018-present Board of Directors, Psychoneuroimmunology Research Society (PNIRS)

C. Invited Lectures

2008 Invited lecture: "Pathophysiology of neuroimmune communication", Pennington Institute, Louisiana
2010 Invited lecture: "Neuroimmune communication pathways", University of Virginia
2011 Invited lecture: "Integrating neuroimmune suprasystem", Indiana University.
2012 Invited lecture: "Integrated neuroimmune system", University of Kansas.
2013 Invited lecture: "To talk or not to talk: that is the question for the neuroimmune suprasystem", Georgia Regents University
2014 Invited lecture: "The neuroimmune system", Wuhan University, China
2015 Invited lecture: "IL-1 and neuroimmune communication", Sept. 18th, at Vanderbilt University.
2016 Invited speaker, International conference of physiological sciences. Sept. 27th, Beijing, China
2016 Invited speaker, Department of Psychiatry and Behavioral Neuroscience, University of Cincinnati. Oct. 6.
2017 Invited speaker, Department of Neuroscience, University of Kentucky. Feb. 17. 2017
2018 Invited speaker, Hamilton Biotechnology Lecture Series, Wuhan, China. July, 10-17. 2018
2018 Invited lecture: "IL-1R1 in the context of neuroimmunology, new discoveries and re-evaluation", Brain Institute, Florida Atlantic University, Oct. 5, 2018.
2018 Invited speaker, Grand Round Series, School of Health and Rehabilitation, the Ohio State University, Oct. 19, 2018.
2019 Invited lecture: "Health and neuroimmune communication", Nantong Medical College, Zhejiang, China, Jan. 7, 2019.
2019 Invited lecture: "Insights from dissecting cell type specific IL-1R1 functions", Animal Sciences, University of Illinois at Urbana-Champaign, Feb. 21, 2019.
2020 Invited lecture: "pathogenic mechanisms of CNS interleukin-1", Grand Rounds, Department of Psychiatry, Thomas Jefferson University, Dec. 16, 2020

March 26, 2021

- 2021 Invited Lecture: “orchestrating health and disease by brain-to-immune crosstalk” Osher Life-long learning, June 8, 2021.
- 2022 Invited Lecture: “COVID-in it for the long haul, how immune system impact your brain and mind” OLLL, March 23, 2022
- 2022 Invited Lecture: “The nervous system and the immune system, why they matter to each other” Frontiers in Science, April 8, 2022.
- 2023 Invited lecture: “Westward and back, the circle of my life around psychoneuroimmunology” PNIRS annual meeting, June 13, 2023.
- 2023 Invited lecture: “Unlocking CNS IL-1 system: how Jim’s work inspired this line of study” University of Washington, Pullman, Wasginton, August 8, 2023.
- 2024 Neuronal IL-1R1-regulated neural circuits: a ne concept, Zhejiang Chinese Medical University, HangZhou, China, August 14, 2024.
- 2025 Mechanisms of Body-Brain Immune Coordination: IL-1 Signaling. October 24, Jupiter, Stiles-Nicholson Brain Institute, USA.
- 2025 Inflammation and Brain: Is it all Bad News? October 25, Jupiter, USA.

Editorial Boards: Journal of Inflammation Research, 2013-present, Editor-in-Chief.
Psychoneuroimmunology Journal, 2019-present, founding Editor-in-Chief
Brain, Behavior, and Immunity. 2013-present, board member.

Teaching

- 1998-2001 Molecular Techniques, course director, OSU. I directed and taught this entire 3-credit course.
- 1998-2001 Neuroimmunology, Lecturer, OSU. I taught 3 lectures in this course.
- 1998-2001 Immunology and Microbiology, lecturer, OSU. I taught 10 lectures in this course.
- 2001-2009 Biochemistry, lecturer, OSU. I taught 12 lectures in this course.
- 2009-2019 Immunology and microbiology, director, OSU. I directed and taught this course.
- 2001-2019 Biochemistry, course director, OSU. I directed and taught this course.
- 2019-present Neuroscience 1, lecturer, FAU. I taught 2 lectures in this course every year.
- 2021-present Principles in Neuroimmunology, course director and sole lecturer, FAU. I directed and taught the entire 3-credit course.

Research Project Funding

Current Projects

R21 NS133843 (Quan, PI) 06/1/2023-5/31-2025
Dynamic regulation of neuroinflammation and IL-1b-trap

R21 NS122154 (Quan, Co-PI) 08/1/2021-8/1-2023
Cell Specific Identification of IL-1R Actions in Acute and Chronic Pain

R01 NS116914 (Quan, PI) 4/1/2020-3/31/2025
Neuroinflammation, Neuronal IL-1R1, and Behavior

R21 AI169218-01 (Quan, PI) 2/1/2022-2/1-2024

IL-1R1, MMP9, and EAE

R01 NS103785 (Quan, Co-I) 12/15/18-11/30/23
Cell-Specific Actions of IL-1 / IL-1R1 Signaling Following Traumatic Brain Injury

R01NS120882 (Quan, Co-I) 7/1/22-6/30/27
Neuronal IL-1R1 Signaling in Mild Closed Head Injury

R21AG074846 (Quan, Co-I) 8/1/22-7/31/24
Serotonergic IL-1R1 and Neuropsychiatric Traits of an Alzheimer's Mouse Model

Anonymous Donor (Quan, Co-I) 1/1/2020-12/31/24
Discretionary funds for research costs related to neuroimmune research.

Psychiatric Neuroscience Institute (Quan, Co-I) 04/01/21-03/31/2022
Investigating Neuroimmune causes of Depression.

Brain Research Foundation (Quan, co-I) 3/1/2022-3/1/2024
Impact of Activity on Inflammatory Mechanisms

Veterans Mental health Research (Blakely and Quan, co-PI) 2/1/2024-2/1/2027
Identifying Resiliency Mechanisms as it relates to Early Life Stress

Completed Projects

R01 NS04098 (PI) 12/1/2001-11/31/2004
Pathophysiology of Neuroimmune Communication

R01 AI059089 (PI) 12/1/2001-01/31/2007
Stress & Enhancement of Skin Immunity: Molecular Mechanisms

R01 AI059089 (PI) 12/1/04-11/30/09
Neuroimmune Communication at the Blood Brain Barrier.

R01 AI076926 (PI) 12/1/07-11/31/12
IL-1R1 Promoter Complex in the Neuroendocrine, Nervous, and Immune System.

GRT00016597 (PI) 8/13/2010-7/31/2014
IL-1R3 and brain

R01 AI076926 (PI) 12/1/07-11/30/12
IL-1R1 promoter complex in the neuroendocrine, nervous, and immune systems.

R01 DA014610 (Co-I) 1/15/09-11/30/14
Mechanism of Drug Addiction.

R21 MH099482 (PI) 12/15/12-12/15/14 PI
IL-1R1 Restore: Dissecting Cell Type Specific Functions of IL-1R1

R01 MH097243 (Co-I) 6/1/2012-6/1/2017
Brain Region Specific Trafficking of Myeloid Cells in Repeated Social Defeat

GRT00049956 (PI) 12/08/17-12/31/18
Anxiety Research (private foundation, SPM)

R01 MH109165 (Quan, PI) 12/1/15-12/1/20 (no-cost extension to 2021)
Anxiety, IL-1R1, and Neuroinflammation

R33 MH 82118515 (Quan, Co-I) 8/28/18-8/28/21
The Role of the Intestinal Microbiome in Anxiety and Depression.

Graduate and postdoctoral students

San Ching	Postdoctoral fellow	9/2006/-9/2008
Lin Zhu	Postdoctoral fellow	9/2008-9/2009
Jiang Qian,	Postdoctoral fellow	3/2011-8/2012
Andrew Tarr	Postdoctoral fellow	9/2012-9/2015
Anping Song	Postdoctoral fellow	9/2016-9/2017
Haicheng Niu	Postdoctoral fellow	9/2015-9/2017
Xiaoyu Liu	Postdoctoral fellow	5/2017-9/2021
Daniel Nemeth	Postdoctoral fellow	9/2021-present
Lillian Onwuha-Ekpete	Postdoctoral fellow	1/2022-present
Emily Ho	Graduate student (Human ecology)	9/1999-9/2002 (Graduated)
Ana Mercado	Graduate student (Oral Biology)	9/1999-9/2002 (Graduated)
Mike Horan	Graduate student (Oral Biology)	9/2000-9/2003 (Graduated)
Hao Zhang	Graduate student (Biosciences)	9/2004-9/2009(Graduated)
Qiming Li	Graduated student (MCDB program)	9/2008-12/2010(Graduated)
Karol Ramirez	Graduate student (Biosciences)	9/2012-12/201(Graduated)
Ying An,	Graduate student (Biosciences)	9/2008-2016 (Graduated)
Dan Mckim	Graduate student (Neuroscience)	9/2012-2017 (Graduated)
Xiaoyu Liu	Graduate student (Biosciences)	9/2011-2017 Graduated
Damon DiSabato	Graduate student (Neuroscience)	9/2015-3/2021 (Graduated)
Daniel Nemeth	Graduate student (Biosciences)	1/2016-9/2021 (Graduated)
Nuran Kocek	Graduate student (Biomedical Science)	9/2020-present
Maria Smirnova	Graduate student (Biomedical Science)	9/2021-present
Loretta Chen	MS student (Biomedical Science)	2022-2023

Education and training of minority students

Biandra Louis-XVI, FAU (Biomedical Science M.S. program)

Aug. 2020- 2023

Charleese Williams, University of Georgia

May 2021-July 2021

- FAU Summer REU Internship Program.

Peer-reviewed publications.

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EMPLOYMENT

01/01/2024 – present	Pediatric Radiology Master Author/Consultant Elsevier Invited to take on authorship and leadership roles across Elsevier's pediatric radiology educational products, including revising major reference texts, updating online resources, contributing to resident question banks, and managing supplemental digital content. Responsibilities involve substantive writing, editing, planning, and oversight duties with financial incentives tied to royalties.
05/01/2023 – present	Pediatric Radiologist; Remote, per-diem Department of Radiology Children's Hospital of Philadelphia Provide remote interpretations of pediatric imaging studies including radiography, computed tomography, magnetic resonance imaging, ultrasound on a per-diem basis. Collaborate with clinicians for accurate diagnoses and patient care. Requires board certification/eligibility in Diagnostic Radiology with Pediatric Radiology subspecialty, excellent diagnostic skills, ability to work independently, strong communication skills, and proficiency in PACS and dictation software.
04/15/2023 – present	Interim Department Chair Department of Women's & Children's Health Charles E. Schmidt College of Medicine Florida Atlantic University, Boca Raton FL Provide leadership and oversight for an academic department encompassing obstetrics/gynecology and pediatrics. Manage faculty and staff, facilitated clinical, research, and educational activities. Advise on strategic planning, budgeting, recruitment, and departmental policies and procedures. Foster interdisciplinary collaboration and partnerships within the university and community.
07/05/2022 – present	Assistant Professor Course Director & Director of Radiology Education Charles E. Schmidt College of Medicine

Florida Atlantic University, Boca Raton FL

Course Director: Recruit and manage multidisciplinary team of lecturers across specialties. Continuously update lecturer roster and course materials to ensure curricular relevance and academic rigor. Modernized examinations and student assessments by incorporating innovative question formats and measurement tools. Provide oversight and quality assurance for all aspects of course delivery, including coordination of schedules, classroom resources, and student communications. Fostered an interactive and engaging learning environment by promoting the use of active learning strategies and educational technologies among the teaching faculty.

Director of Radiology Education: Develop and oversee the radiology components across all four years of the medical school curriculum. Created a vertically and horizontally integrated radiology curriculum, ensuring coherent progression of radiology knowledge and aligning radiology teaching with other disciplines. Design and implement innovative teaching methods, including case-based learning, audience response systems, and interdisciplinary collaboration. Coordinate radiology faculty involvement and provide faculty development. Establish assessment tools to evaluate student competencies in radiology. Contribute to medical student advising, mentorship, and scholarly activities within the department.

07/01/2019-06/30/2022 Assistant Program Director
Department of Radiology
Eastern Virginia Medical School, Norfolk, VA
Assisted the Program Director in overseeing and administering the diagnostic radiology residency program. Spearheaded the program's reaccreditation efforts. Performed periodic reviews of resident evaluations and provided feedback to ensure progress towards achievement of competencies. Implemented policies and procedures in accordance with ACGME requirements. Served as a mentor and advisor to residents, providing guidance on career planning and professional development.

07/01/2019-06/30/2022 Assistant Professor & Core Faculty
Department of Radiology
Eastern Virginia Medical School, Norfolk, VA
Provided clinical service and instructional duties as a core member of the radiology faculty. Supervised and precepted diagnostic radiology residents during clinical rotations, guiding their development of interpretive skills and medical knowledge. Delivered didactic lectures and case-based teaching conferences to residents and medical students. Participated in curriculum development and innovative instructional methods to enhance radiology education.

Engaged in scholarly activities, including research projects, publications, and presentations at regional and national meetings.

10/01/2018-06/30/2022 Pediatric Radiologist
Medical Center Radiologists, Virginia Beach, VA
Provided expert interpretations of a wide range of pediatric imaging examinations, including radiography, fluoroscopy, ultrasound, computed tomography (CT), and magnetic resonance imaging (MRI). Consulted with referring pediatricians and subspecialists to ensure accurate diagnoses and optimal patient care. Prepared detailed reports on imaging findings and therapeutic recommendations. Attended multi-disciplinary conferences and tumor boards to discuss complex pediatric cases. Supervised and instructed radiology residents and fellows on pediatric imaging rotations. Maintained compliance with quality assurance measures and radiology practice standards.

EDUCATION

07/01/2017-06/30/2018	Pediatric Radiology Fellow The Children's Hospital of Philadelphia, Philadelphia PA
07/01/2013-06/30/2017	Radiology Resident Eastern Virginia Medical School, Norfolk VA
07/01/2012-06/30/2013	Internal Medicine Preliminary Resident Eastern Virginia Medical School, Norfolk VA
08/17/2008-05/28/2012	M.D. Eastern Virginia Medical School, Norfolk VA
09/01/2005-05/01/2008	BSc, Anatomy & Cell Biology McGill University, Montreal Canada

CERTIFICATIONS

10/23/2018	American Board of Radiology Board Certification with MOC enrollment
09/25/2019	American Board of Radiology Certificate of Added Qualification in Pediatric Radiology

LICENSURE

2022 – present Florida Physician License #ME155082 Exp. 1/31/2026

2018 – present Virginia Physician License #0101264241 Exp. 6/30/2026

2017 – present Pennsylvania Physician License # MD462793 Exp. 12/31/2026

2017 – present New Jersey Physician License #25MA10089200 Exp. 6/30/2027

AWARDS

2022 Gold Apple Award, EVMS Radiology
This honor is bestowed annually by the resident physicians to a faculty member who has demonstrated exceptional dedication to resident education and mentorship. Selection criteria include delivery of high-quality didactic instruction, provision of outstanding clinical teaching, fostering an engaging learning environment, displaying patience and approachability, and serving as an exemplary role model and mentor. The award recognizes the pivotal role faculty play in shaping the next generation of radiologists through their teaching efforts and commitment to professional development of trainees.

2016 – 2017 EVMS Radiology Chief Resident
Supervised and provided educational oversight for 16 radiology residents across all levels of post-graduate training. Organized and facilitated resident didactics, simulation labs, multidisciplinary conferences, and journal clubs. Participated in resident recruitment efforts and admissions process for the residency program. Served on the Graduate Medical Education Committee (GMEC), Ethics Committee. Completed additional training in radiology leadership through the AUR Radiology Resident Academic Leadership Development Program. Demonstrated strong organizational abilities, excellent teaching skills, and a commitment to advancing residency education throughout tenure.

2016 International Association of Medical Science Educators (IAMSE) Best Oral Presentation Award Finalist, Leiden, Netherlands
Recognized as a finalist for the Best Oral Presentation Award, highlighting significant contributions to medical science education through impactful research and presentation skills.

2016 RSNA R&E Foundation Roentgen Resident/Fellow Research Award
Presented to radiology residents or fellows who demonstrate exceptional research achievements. This award recognizes outstanding contributions to radiologic research, encouraging continued academic and scientific excellence within the field of radiology.

2015 ACR Gold-Merit Abstract Award
The Effect of Obesity on Radiological Cost and Utilization: The Implications for Health Policy and Reimbursement

2015	AUR Radiology Resident Academic Leadership Development Program Scholarship Awarded to exceptional radiology residents demonstrating leadership potential and academic excellence. The scholarship supports participation in a specialized program designed to cultivate leadership skills, enhance academic development, and foster professional growth within the field of radiology.
2014	RSNA/AUR/ARRS Introduction to Academic Radiology Program Scholarship Granted to promising radiology residents committed to pursuing academic careers. This scholarship provides an opportunity to participate in a collaborative program focused on introducing residents to academic radiology, fostering research skills, and promoting career development in the academic setting.
2012	Sigfred Award, Department of Radiology, EVMS Awarded for demonstrating superior skills, knowledge, and capacity for learning in Diagnostic Radiology. This prestigious recognition is given by the Department of Radiology at Eastern Virginia Medical School to honor exceptional proficiency and dedication in the field of radiology.
2008	Graduation with Great Distinction, McGill University Awarded for outstanding academic performance, this honor recognizes exceptional scholastic achievement and commitment to excellence throughout the course of study.

GRANTS

2014 – 2016	Redefining the Radiology Curriculum in Medical School: Vertical Integration and Global Accessibility RSNA Education Scholar Grant (\$75,000) Role: Co-investigator Created a globally accessible, web-based undergraduate medical radiology curriculum modeled after the National Medical Student Curriculum in Radiology program of the Alliance of Medical Student Educators in Radiology.

PUBLICATIONS

1. Hadi M. Brown J. Doo F. Straus C. Rozenshtein A. **Retrouvey M.** A RRA Perspective on Quantum Computing and Blockchain in Radiology: Emerging Paradigms for Data Integrity and Advanced Computation. (Accepted to Academic Radiology October 2025)
2. Fotos J. Brofman N. Ozkan M. Sin J. Rozenshtein A. **Retrouvey M.** Visualization Tools in Radiology: A RRA Perspective on Virtual Reality, Augmented Reality, and 3D Printing. (Accepted to Academic Radiology October 2025)

3. Brown J. Dashevsky B. Polat D. Doo F. Straus C. Rozenshtein A. **Retrouvey M.** A RRA Perspective on AI and Machine Learning Applications in Radiology: From Experimental to Clinically Viable Solutions. (Accepted to Academic Radiology October 2025)
4. Dogra S. Rifai S. Hadi M. Hanna T. Rozenshtein A. **Retrouvey M.** Huang H. Doo F. From Artificial Intelligence to Robotics: How to Navigate Technological Innovation in Radiology with the Gartner Hype Cycle. (Accepted to Academic Radiology September 2025)
5. **Retrouvey M.** Snyder, L. Burgan C. Chetlan A. Butler R. Reichman M. Averill S. The Lifecycle and Role of Faculty-Trainee Relationships in Physician Wellness: A Framework Grounded in the AAMC Faculty-Resident Compact. (Accepted to JACR August 2025)
6. Belfi, L. Averill S. **Retrouvey M.** Butler R. Deitte L. Leading with C.A.R.E. (Accepted to Academic Radiology August 2025)
7. Knopf E, Eisenreich E, Bonthu S, Meka P, Roberts L, **Retrouvey M.** The role of advanced degrees in reproductive endocrinology and infertility specialists. J Assist Reprod Genet. 2025 Aug 12.
8. Deitte LA, Nadgir R, Recht M, **Retrouvey M.** Remote Radiologists: Benefits, Costs and Opportunities. J Am Coll Radiol. 2025 Jun 7:S1546-1440(25)00316-3.
9. Barlolotta R, Catanzano T, Chetlan A, Lo G, **Retrouvey M,** Deitte L. The “New” Diagnostic Radiology Oral Boards: Strategies for Success. Journal of the American College of Radiology.
10. Brown JD, Lenchik L, Doja F, Kaviani P, Judd D, Probyn L, Lee S, Goodman EM, Sedeh AE, Makary MS, Lee RK, **Retrouvey M.** Leveraging Large Language Models in Radiology Research: A Comprehensive User Guide. Acad Radiol. 2025 Jan 6:S1076-6332(24)00928-0.
11. Belfi LM, **Retrouvey M,** Alexandre Frigini L, Harrington S, Verzani Z, Woods R, Averill SL. Current Trends in Remote and Flexible Work Options in Radiology and Perception of Impact on Radiologist Well-being. Acad Radiol. 2024 Dec 24:S1076-6332(24)00946-2.
12. Garner HW, Slanetz PJ, Swanson JO, Griffith BD, DeBenedictis CM, Gould JE, Holm TL, **Retrouvey M,** Paladin AM, Rozenshtein A. What Program Directors Think About Resident Recruitment: Results of the 2023 Spring Survey of the Association of Program Directors in Radiology (APDR) Part I. Acad Radiol. 2024 Sep 25:S1076-6332(24)00608-1.
13. Garner HW, Slanetz PJ, Swanson JO, Griffith BD, DeBenedictis CM, Gould JE, Holm TL, **Retrouvey M,** Paladin AM, Rozenshtein A. What Program Directors Think About Resident Education: Results of the 2023 Spring Survey of the Association of Program Directors in Radiology (APDR) Part II. Acad Radiol. 2024 Sep 25:S1076-6332(24)00607-X.
14. Sacca L, Zerrouki Y, Burgoa S, Okwaraji G, Li A, Arshad S, Gerges M, Tevelev S, Kelly S, Knecht M, Kitsantas P, Hunter R, Scott L, Reynolds AP, Colon G, **Retrouvey M.** Exploring measurement tools used to assess knowledge, attitudes, and perceptions of pregnant women toward prenatal screening: A systematic review. Womens Health (Lond). 2024 Jan-Dec;20:17455057241273557.

15. Peppiatt I, **Retrouvey M**, Conran RM. Educational Case: Neonatal respiratory distress syndrome. *Acad Pathol*. 2024 Apr 8;11(2):100115.
16. Sumner C, Kietzman A, Kadom N, Frigini A, Makary MS, Martin A, McKnight C, **Retrouvey M**, Spieler B, Griffith B. Medical Malpractice and Diagnostic Radiology: Challenges and Opportunities. *Acad Radiol*. 2023 Sep 21:S1076-6332(23)00435-X.
17. Knopp BW, Weiss HZ, **Retrouvey M**, Luck G. Inhalational Heroin Use and Leukoencephalopathy: A Case Report. *Cureus*. 2023 Jul 23;15(7):e42323.
18. **Retrouvey M**. To Sedate or Not to Sedate: The Future of Pediatric Imaging. *Acad Radiol*. 2023 Sep;30(9):1989-1990.
19. Velez-Florez MC, Dougherty S, Ginader A, Hailu T, Bodo N, Poznick L, **Retrouvey M**, Reid JR, Gokli A. Hands-On Ultrasound Training for Radiology Residents: The Impact of an Ultrasound Scanning Curriculum. *Acad Radiol*. 2023 Mar 11;S1076-6332(23)00044-2.
20. Hodges H, Epstein KE, **Retrouvey M**, Wang SS, Richards AA, Lima, D, Revels JW. Pitfalls in the interpretation of pediatric head CTs: What the emergency radiologist needs to know. *Emerg Radiol*. 2022 Aug;29(4):729-742.
21. Light J, Retrouvey M, Wellman LL, Conran RM. Educational Case: Rickets. *Acad Pathol*. 2022 Sep 23;9(1):100054.
22. Light J, **Retrouvey M**, Conran R. Educational Case: Langerhans Cell Histiocytosis, *Acad Pathol*. 2022 May 12;9(1):100018.
23. Light J, **Retrouvey M**, Conran R. Educational Case: Osteogenesis Imperfecta. *Acad Pathol*. 2022 May 12;9(1):100025.
24. **Retrouvey M**, Vossough A, Zandifar A, Bellah R, Heuer G, Flibotte J, Tierradentro-Garcia L, Saade-Lemus, S, Du Ub Kim J, Back, S, Kaplan, S. Validation of Sonographic Fronto-Occipital Ratio Based on Anatomical Landmarks compared to MR/CT-Derived Indexes in Children with Chiari II and Ventriculomegaly. *Pediatr Neurosurg*. 2022;57(2):71-77.
25. Light J, **Retrouvey M**, Conran R. Educational Case: Osteoid Osteoma. *Acad Pathol*. 2021 Dec 13;8:23742895211060536.
26. Eccleston, C, **Retrouvey M**, Conran, R. Educational Case: Ewing Sarcoma. *Acad Pathol*. 2021 Aug 31;8:23742895211040204.
27. Revels J, **Retrouvey M**, Weaver J. Clinical Manifestations and Medical Imaging of Osteogenesis Imperfecta: Fetal Through Adulthood. *Acta Med Acad*. 2021 Aug;50(2):277-291.
28. **Retrouvey M**, Grajo JR, Awan O, Catanzano T, Cheong LHA, Mankoff D, Burdette JH, Mendiratta-Lala M, Spalluto LB, Bronen RA, DeBenedictis CM. Transitioning From Radiology Training to Academic Faculty: The Importance of Mentorship. *Curr Probl Diagn Radiol*. 2019 Feb 28.
29. Grajo JR, **Retrouvey M**, Awan O, Catanzano T, Cheong LHA, Mankoff D, Burdette JH, Mendiratta-Lala M, Spalluto LB, Bronen RA, DeBenedictis CM. Transitioning from Radiology Training to Academic Faculty: Defining Your Role. *Curr Probl Diagn Radiol*. 2019 Mar 7 and Interests.

30. Ganeshan D. Duong P. Probyn L. Lenchik L. McArthur T. **Retrouvey M.** Ghobadi E. Desouches S. Pastel D. Francis I. Structured Reporting in Radiology. *Acad Radiol.* 2018 Jan;25(1):66-73.
31. **Retrouvey M.** Trace AP. Goodmurphy C. Shaves S. Redefining the Radiology Curriculum in Medical School: Vertical Integration and Global Accessibility. *AJR Am J Roentgenol.* 2018 Jan;210(1):118-122.
32. **Retrouvey M.** Keefe B. Kotsenas A. McGinty G. Patel A. Women in Radiology: Creating a global mentorship network through social media. *J Am Coll Radiol.* 2017 Nov 9.
33. **Retrouvey M.** Trace AP. Johnson LS. Shaves S. Streamlining the Radiology Consultation Service in the Digital Era. *J Am Coll Radiol.* 2017 Nov;14(11):1464-1467.
34. Ortiz D. Trace AP. **Retrouvey M.** A Resident and Fellow-Driven Review Course to Prepare Trainees for the ABR Core Examination. *J Am Coll Radiol.* 2017 Nov;14(11):1473-1475.
35. Erickson J, **Retrouvey M.**, Rush J, Trace AP. Simultaneous Duodenal Stenosis and Duodenal Web in a Newborn. *Radiol Case Rep.* 2016 Oct 1;11(4):444-446.
36. Trace AP. Ortiz D. Deal A. **Retrouvey M.** Elzie C. Goodmurphy C. Morey J. Hawkins CM. Radiology's Emerging Role in 3D Printing Applications in Healthcare. *J Am Coll Radiol.* 2016 Jul;13(7):856-862.
37. **Retrouvey M.** Trace AP, Shaves S. Radiological Knowledge and Ordering Habits of Clinical Residents: ACR Appropriateness Criteria Awareness & Perceptions. *J Am Coll Radiol.* 2016 Jun;13(6):725-9.
38. Decker S. Grajo J. Hazelton T. Hoang K. McDonald J. Otero H. Patel M. Prober A. **Retrouvey M.** Rosenkrantz A. Roth C. Ward R. Research Challenges and Opportunities for Clinically Oriented Academic Radiology Departments. *Acad Radiol.* 2016 Jan;23(1):43-52.
39. **Retrouvey M.** Zeal P. Shaves S. US Preventive Services Task Force CT Lung Cancer Screening Recommendations: Community Awareness and Perceptions. *J Am Coll Radiol.* 2015 Jan;12(1):114-5; *J Am Coll Radiol.* 2016 Feb;13(2 Suppl):R35-7
40. Patel Z. **Retrouvey M.** Vingan H. Williams S. Tumor track seeding: A new complication of fiducial marker insertion. *Radiology Case Reports.* 2014;2;928
41. Schaaf W. Patel Z. **Retrouvey M.** Cunningham, T. Johnson L. Frequency and Clinical Relevance of PET/CT Incidentalomas. *Abdom Imaging.* 2014 Jun;39(3):657-62.
42. Tomich J. **Retrouvey M.** Shaves S. Emergency Imaging Discrepancy Rates at a Level 1 Trauma Center: A Multimodality Approach to Identifying the Most Common On-Call "Misses" Among Residents at Each Level of Training. *Emerg Radiol.* 2013 Dec;20(6):499-505.
43. **Retrouvey M.** Strand J. Quidley A. Goodmurphy C. Chiodo T. Use of Ultrasound in Needle Placement in Intercostal Muscles: A Method for Increased Accuracy in Cadavers. *Arch Phys Med Rehabil.* 2013 Jul;94(7):1256-9.

44. **Retrouvey M.** Koch L. Williams J. Gianotti-Crosti syndrome after childhood vaccination. *Pediatr Dermatol.* 2012 Sep-Oct;29(5):666-8, *Pediatr Dermatol.* 2012 Sep-Oct;29(5):666-8.

Book Chapters

45. AI for Radiology, Chapter 7: Harnessing AI in Radiology Education & Training. CRC Press; 1st edition (February 12, 2024)

ABSTRACTS & ORAL PRESENTATIONS

Regional

46. Carter S. **Retrouvey M.** Kalynych C. Nichols K. Hsieh P. Leveraging Your Influence: Learning to Lead from Where You Are. AAMC Southern Regional Conference April 2025
47. **Retrouvey M.** Wyatt A. Perumareddi P. AI in Medical Education: the Good, the Bad, the Ugly. Southern Group on Educational Affairs (SGEA) Annual Conference - Association of American Medical Colleges April 2024
48. Kalynych C, Mateja C, Rudd M, Oller K, Bailey J, **Retrouvey M**, Berry A. Are We Still Unveiling the Hidden Curriculum? Practical Steps Towards Faculty Development in Professionalism for Medical Educators. Southern Group on Educational Affairs (SGEA) Annual Conference - Association of American Medical Colleges April 2024
49. **Retrouvey M.** Clevenger C. Perumareddi P. Effective use of audience response technology in medical education: Integration into live and virtual learning Southern Group on Educational Affairs (SGEA) Annual Conference - Association of American Medical Colleges March 2023
50. **Retrouvey M.** Patel Z. Shaves S. USPSTF CT Lung Cancer Screening Recommendations: Community Awareness & Perceptions. Eastern Virginia Medical School Research Day October 2014
51. **Retrouvey M.** Murillo J. P. acnes embolization following quadrangular repair. Imaging Conference at the Beach, May 2011
52. Patel Z. **Retrouvey M.** Vingan H. Williams S. Tumor Track Seeding Leading to Secondary Disease Focus Following Lung Fiducial Marker Placement: A New Complication. Eastern Virginia Medical School Research Day, October 2011
53. **Retrouvey M.** Patel Z. Gastric Band Erosion: A Rare Complication in Weight Loss Surgery. Eastern Virginia Medical School Research Day, October 2011
54. **Retrouvey M.** Strand J. Quidley A. Goodmurphy C. Chiodo T. Ultrasound guidance for EMG needle sampling of the intercoastal muscles: a cadaver study. Eastern Virginia Medical School Research Day, October 2009
55. Byrant L. **Retrouvey M.** Han J. Goodmurphy, C. Endoscopic & CT imaging of the Pterygopalatine & Infratemporal Fossae: an anatomical and surgical study. Eastern Virginia Medical School Research Day, October 2009

56. Trexler S. **Retrouvey M.** Retrouvey JM. Goodmurphy C. Orthodontic Microimplants: a Three-Pronged Cadaver Study of Implant Bony Placement, Vascular Supply and Anchoring Strength. Eastern Virginia Medical School Research Day, October 2009

National

57. Luck G., Zaglul J., Peters D., Sagar A., Manotas A., Gleiber M.K., **Retrouvey M.** AI in the Gray Zone: Ethics of End-of-Life Resource Allocation in Language Models. Annual Assembly, Hospice and Palliative Care. March 2026
58. **Retrouvey M.** Radiological Readiness: Horizontal & Vertical Integration of a Radiology Curriculum for the Physicians of Tomorrow. Association of Academic Radiologists National Meeting March 2025
59. Rozenshtein A. **Retrouvey M.** Nascent Technology Disruptors In Diagnostic Radiology: Radiology Research Alliance Taskforce Report 2025. Association of Academic Radiologists National Meeting March 2025
60. **Retrouvey M.** Building Bridges: Creating Meaningful Social Connections as a Remote Radiologist. Association of Academic Radiologists National Meeting March 2025
61. Zandifar A. **Retrouvey M.** Back SJ. Bellah R. Hailu T. Vossough A. Heuer G. Flibotte J. Kaplan S. Validation of Sonographic Fronto-Occipital Ratio (FOR) Based on Anatomical Landmarks compared to MR/CT-Derived Indexes in Children with Chiari II and Ventriculomegaly. American Institute of Ultrasound in Medicine (AIUM) March 2022
62. **Retrouvey M.** Back SJ. Bellah R. Hailu T. Vossough A. Heuer G. Flibotte J. Kaplan S. Sonographic Fronto-Occipital Ratio (FOR) in Evaluation of Hydrocephalus. Society for Pediatric Radiology National Meeting May 2018
63. **Retrouvey M.** Saul D. Hailu T. Khwaja A. Francavilla M. Johnson, A. Bellah R. Ho-Fung V. Mirza S. Baad M. Machnitz J. Kaplan S. Feasibility and Impact of Intensive Hands-On Sonography Training for Pediatric Radiology Fellows. Society for Pediatric Radiology National Meeting May 2018
64. Nguyen D. Cleveland N. Bhowmik N. **Retrouvey M.** Tran C. Hartman M. Unusual Manifestations and Complications of Aneurysms: What the Radiologist Needs to Know. Society of Interventional Radiology National Meeting March 2018
65. **Retrouvey M.** Reid J. Back SJ. Bellah R. Saul D. Mastering Ultrasound through a Just-In-Time Mobile Application. Society for Pediatric Radiology National Meeting May 2018
66. Dey C. Trace AP. **Retrouvey M.** Shaves S. Internship in Radiology: Who Does It Better? American Roentgen Ray Society Annual Meeting April 2018
67. **Retrouvey M.** Trace AP. Johnson LS. Shaves S. Streamlining the Radiology Consultation Service in the Digital Era. American College of Radiology Annual Meeting May 2017
68. **Retrouvey M.** Trace AP. Shaves S. Imaging & the Graduating Medical Student: Perceptions and Knowledge of ACR Appropriateness Criteria. American College of Radiology Annual Meeting May 2017

69. **Retrouvey M.** Trace AP. Goodmurphy C. Shaves S. Early Radiology Exposure in the Pre-Clinical Curriculum: Does It Increase Interest? Association of University Radiologists National Meeting May 2017
70. **Retrouvey M.** Trace AP. Goodmurphy C. Shaves S. Radiology Education for the 21st Century: Implementation of an E-learning curriculum. American Roentgen Ray Society Annual Meeting 2017
71. **Retrouvey M.** Ganeshan D. Unification of structured reporting across radiology practices. Association of University Radiologists National Meeting 2017
72. Trace A. **Retrouvey M.** Goodmurphy C. Shaves S. Modern Radiology Education: E-learning. American Roentgen Ray Society Annual Meeting April 2016.
73. **Retrouvey M.** Trace AP. Cunningham T. Goodmurphy C. Shaves S. Radiology Education for the 21st Century: Effectiveness of E-learning. Radiological Society of North America Annual Meeting November-December 2015
74. Revels J. **Retrouvey M.** Cunningham T. Shaves S. Johnson L. Expectations of modern-day radiology applicants: the interview day and beyond. Radiological Society of North America Annual Meeting November-December 2015.
75. **Retrouvey M.** Trace AP. Shaves S. Radiological Knowledge and Ordering Habits of Clinical Residents: ACR Appropriateness Criteria Awareness & Perceptions. American College of Radiology Annual Meeting Washington DC May 2015
76. **Retrouvey M.** Morey J. Haney N. Cooper PB. The Effect of Obesity on Radiological Cost and Utilization: The Implications for Health Policy and Reimbursement. American College of Radiology Annual Meeting Washington DC May 2015
77. **Retrouvey M.** Patel Z. Shaves S. USPSTF CT Lung Cancer Screening Recommendations: Community Awareness & Perceptions. American College of Radiology Annual Meeting Washington DC April 2014
78. Patel Z. **Retrouvey M.** Johnson L. Standardized Sign-out Protocols for Fluoroscopic Studies. American College of Radiology Annual Meeting Washington DC April 2014
79. Patel Z. **Retrouvey M.** Johnson L. Positive Impact of American College of Radiology Lobby Day Participation on Attendees. American College of Radiology Annual Meeting Washington DC April 2014
80. Tomich, J. **Retrouvey M.** Shaves S. Emergency Imaging Discrepancy Rates at a Level 1 Trauma Center: Identifying the Most Common On-Call Resident “Misses. American Society of Emergency Radiology October 2013
81. Tomich J. **Retrouvey M.** Shaves S. Emergency Imaging Discrepancy Rates at a Level 1 Trauma Center: Identifying the Most Common On-Call Resident “Misses. Association of University Radiologists National Meeting April 2013

82. **Retrouvey M.** Strand J. Quidley A. Goodmurphy C. Chiodo T. The use of ultrasound in intercostal EMG needle placement: a potential method for increased accuracy. Annual American Academy of Clinical Anatomy, July 2009.

International

83. Trace A. **Retrouvey M.** Goodmurphy C. Shaves S. Radiology Education for the 21st Century: Implementation of learning at the Medical Undergraduate Level. International Association of Medical Science Educators (IAMSE) Annual Conference June 2016

Non-Refereed Publications, Presentations and Proceedings

84. **Retrouvey M.** Beaver K. Using social media to enhance your meeting experience. American College of Radiology Bulletin, RFS eNews. November 2017
85. **Retrouvey M.** Valerie Jackson Fellowship in Education: Experiences. American College of Radiology Bulletin, RFS eNews. October 2017
86. **Retrouvey M.** RadExam: the Resident Perspective. American College of Radiology Bulletin, RFS eNews. August 2017
87. **Retrouvey M.** Meet the American College of Radiology Leadership: Cheri Canon, MD, FACR. American College of Radiology Bulletin, RFS eNews. August 2016
88. **Retrouvey M.** Hepatic adenoma. RAD-PATH Dx. American College of Radiology /AIRP. <http://www.acr.org/Education/e-Learning/RADPATH-Dx>.
89. **Retrouvey M.** Myers J. Weaver J. Mesenteric ischemia with bowel infarction leading to pneumatosis intestinalis and portal venous gas. American College of Radiology Case in Point (04/07/2016)
90. **Retrouvey M.** Myers J. Weaver J. Topacheous gout in olecranon bursa. American College of Radiology Case in Point (11/20/2015)
91. **Retrouvey M.** Young D. Granata L. Surgical repair of ruptured abdominal aortic aneurysm (AAA) with subsequent multiorgan infarction. American College of Radiology Case in Point 8/11/2014
92. Revels J. **Retrouvey M.** Lee B. Vingan H. Endovascular Nephrectomy: A Treatment for Pre-transplant Nephrotic Syndrome. The Endovascular Forum. 01/01/2014
93. **Retrouvey M.** Vingan H. Endovascular diagnosis of cardiac Non-Hodgkin Lymphoma. The Endovascular Forum. 12/04/2013
94. Revels J. **Retrouvey M.** Hoang K. Vingan H. The Endovascular Management of Postoperative Hemorrhage Following Nephron Sparing Surgery. Endovascular Forum 07/24/2013
95. **Retrouvey M.** Vingan H. Renal Vein Compression Syndrome. The Endovascular Forum, 01/23/2013
96. **Retrouvey M.** Patel Z. Noga J. Vingan H. Endovascular management of a penetrating internal carotid injury. The Endovascular Forum 2/20/2012

97. **Retrouvey M.** Vingan H. Suprarenal Placement of a Suprarenal Optional IVC Filter for Progressive Gonadal Vein Thrombosis. The Endovascular Forum 10/21/2011
98. **Retrouvey M.** Borderline Personality disorder: Axis 1 comorbidities. AJP Residents' Journal August 2011 Vol 6 Issue 8. P.6

INVITED LECTURES

05/20/2025	Pediatric Radiology Board Review Department of Radiology Jefferson Einstein Philadelphia Hospital Invited speaker for R3 radiology resident board preparation series. Delivered a comprehensive pediatric radiology review, reinforcing key concepts and high-yield topics. Lecture built upon prior grand rounds and case conference sessions, with consistently positive resident feedback.
04/15/2025	AI for medical educators: What's out there and how to make it work for you (CME) Florida Atlantic University College of Medicine Lunch & Learn Series Delivered the highest-attended lecture in the series, presenting practical approaches to integrating AI into medical education. Highlighted favorite tools, real-world use cases, and strategies for enhancing teaching and learner engagement through generative artificial intelligence.
02/24/2025	Pediatric Radiology Emergencies Invited Speaker, Pediatric Radiology noontime lecture Department of Radiology Jefferson Einstein Philadelphia Hospital Delivered an interactive, case-based lecture via Zoom on pediatric radiology emergencies. Engaged participants using audience response technology to enhance learning and discussion during the department's noontime lecture series.
01/30/2025	Leading with C.A.R.E: Community, Advocacy, Recognition and Empowerment that Support a Culture of Belonging Invited Speaker, Association of Academic Radiologists (AAR) Webinar Presented on strategies to cultivate a sense of community in hybrid academic and clinical settings as part of the Leading with C.A.R.E. series, focused on Community, Advocacy, Recognition, and Empowerment to support a culture of belonging.
01/29/2025	Fetal MRI (CME)- Grand Rounds; AAR/APDR ECLEP Department of Radiology Jefferson Einstein Philadelphia Hospital

Selected participant in the Association of Academic Radiology (AAR)/ Association of Program Directors in Radiology (APDR) Early Career Lecture Exchange Program (ECLEP). Delivered a departmental grand rounds didactic on fetal MRI to faculty, fellows, and residents, highlighting key imaging findings, clinical applications, and interpretation strategies.

04/02/2024

My life in Medicine

Medical Careers Featured Speaker

FAU Friends of Médecins Sans Frontières/Doctors Without Borders
Invited to present an account of my professional journey in medicine, including education, residency, fellowship, and career milestones. Discussed challenges faced during medical school applications, key strategies for success, and leadership experiences. Highlighted significant roles and responsibilities in academic and clinical settings, such as Program Director and Interim Chair at FAU, and current clinical practice. Concluded with valuable lessons learned, emphasizing the importance of self-awareness, relationship-building, and strategic planning in a medical career.

05/10/2022

Pediatric Radiology Visiting Professor

EVMS Radiology, Norfolk VA

Invited to provide an all-day interactive pediatric radiology experience for residents at Eastern Virginia Medical School (EVMS) and Naval Medical Center Portsmouth (NMCP). Covered a range of topics including radiography of pediatric support devices, congenital cardiac imaging, and fetal MRI, enhancing residents' knowledge and practical skills in pediatric radiology.

JOURNAL EDITORIALS

03/2022 – present Pediatrics Reviewer

06/2021 – present American Journal of Roentgenology Reviewer

01/2020 – present Abdominal Radiology Reviewer

07/2017 – present Journal of the American College of Radiology Reviewer

09/2016 – present Academic Radiology Reviewer

PROFESSIONAL MEMBERSHIPS

2013 – present Radiological Society of North America (RSNA)

2013 – present Association of Academic Radiologists (AAR)

2013 - present Alliance of Medical Student Educators in Radiology (AMSER)

2013 - present Radiology Research Alliance (RRA)

2013 – 2022	American College of Radiology (ACR)
2013 – 2022	American Association for Women Radiologists (AAWR)
2013 – 2022	Society of Pediatric Radiology (SPR)
2021 – 2022	Association of Program Directors in Radiology (APDR)
2013 – 2018	American Roentgen Ray Society (ARRS)
2016 – 2017	American Alliance of Academic Chief Residents in Radiology (A ³ CR ²)

SERVICE

Departmental & College

07/2025 – 06/2027	Florida Atlantic University College of Medicine Curriculum Integration and Program Evaluation Committee Vice Chair
07/2025 – present	Florida Atlantic University College of Medicine Medical Student Performance Progress and Standing Committee Member (>30 hours/year) Participate in monthly meetings and additional sessions as needed to review and address medical student academic progress, professionalism, and standing. Contribute to deliberations on student performance, remediation plans, and promotion decisions.
04/2025 – present	Florida Atlantic University Foundational Clinical Skills Educator Search Committee Chair Led the search process for a new faculty member responsible for teaching foundational clinical skills. Duties included reviewing the position description, developing interview questions, leading committee meetings, screening applicants, interviewing candidates, facilitating consensus-building among committee members, and communicating recommendations to the hiring agent. Ensured an equitable and mission-aligned search process that prioritized teaching excellence, professionalism, and student-centered values.
07/2022 - present	Florida Atlantic University Magnetic Resonance Imaging Division of Research & Safety Committees Appointed by the College of Medicine dean to engage in comprehensive committee activities including meetings with General Electric (manufacturer of MRI machine), hiring a technologist and physicist, writing job descriptions, reviewing Standard Operating Procedures (SOPs), advising the medical director, and collaborating with Environmental Health and Safety. Contributed to the advancement of MRI research and safety protocols at Florida Atlantic University.

- 08/2022 - present Florida Atlantic University Admission Committee (50 hours/year)
- Appointed by the Dean of Admissions due to extensive experience. Responsibilities included reviewing applicant applications and participating in bi-weekly meetings to evaluate potential students and contribute to the admissions process at Florida Atlantic University.
- 11/2010 – present McGill University Career Planning Service Mentor (10 hours/year)
- Served as a mentor specifically assisting students interested in pursuing medical school and careers in the USA. Leveraged extensive experience to guide and advise students on the application process and career planning, providing valuable insights into the medical field and supporting their professional development through personalized mentorship.
- 10/2018 – 6/2022 Eastern Virginia Medical School Clerkship Director & Longitudinal Ultrasound Honors Course Faculty
- Oversaw the clinical education of 3rd year medical students by developing and managing the curriculum, coordinating clinical rotations, and ensuring the quality of the educational experience. Provided guidance and mentorship to students, fostering their professional growth. Played a key role in evaluating and enhancing the clerkship program to meet educational standards and objectives. Also, served as faculty for an elective program for 4th-year medical students spanning the entire year. Responsibilities included reading cases with students and providing education on ultrasound techniques and applications.
- 12/2014 - 06/2017 Eastern Virginia Medical School /Sentara Norfolk General Hospital Patient Safety/Quality Improvement Council Member
- Participated in initiatives to enhance patient safety and improve the quality of patient care, contributing to the development and implementation of quality improvement strategies and practices within the hospital and medical school setting, specifically as it related to medical student and resident clinical activities in an interdisciplinary context.
- 07/2013 - 06/2017 Eastern Virginia Medical School Radiology Facebook Group Administrator
- Created and managed the Eastern Virginia Medical School Radiology Facebook Group. Responsibilities included overseeing group activities, engaging with members, and sharing relevant content to foster a supportive online community for radiology applicants and trainees.
- 10/2013 - 06/2017 Eastern Virginia Medical School Ultrasound Teaching Modules Instructor
- Instructed medical students in hands-on ultrasound skills as part of their anatomy course. Provided practical training and enhanced students'

proficiency in ultrasound techniques, integrating theoretical knowledge with real-world application to prepare them for clinical practice.

07/2013 - 09/2016 Eastern Virginia Medical School Residents and Fellows Association Radiology Representative

Served as the Radiology Representative for the Eastern Virginia Medical School Residents and Fellows Association. Organized and invited the White Coat Investor, Dr. Jim Dahle, a well-known financial expert specializing in financial education for physicians, to give a highly acclaimed talk on financial literacy. The event was well received by trainees, faculty, and staff, providing valuable financial guidance to attendees.

11/2012 - 06/2017 Eastern Virginia Medical School Graduate Medical Education Council Member

Contributed to the development and oversight of graduate medical education policies, ensuring the quality and effectiveness of residency and fellowship programs. Engaged in discussions and initiatives to enhance the educational experience and professional development of medical trainees.

07/2014 - 07/2016 Sentara Norfolk General Hospital Ethics Committee Member

Participated in reviewing and addressing ethical issues related to patient care, ensuring adherence to ethical standards and providing guidance on complex ethical dilemmas. Contributed to the development and implementation of ethical policies and practices within the hospital.

09/2009 – 02/2019 Eastern Virginia Medical School Admissions Committee

Conducting applicant interviews and presenting detailed summaries of candidates' files and interviews to the general admission committee. Later recruited to the executive committee to help select applicants for interviews, further enhancing the admissions process by contributing to the strategic decision-making and candidate selection.

Service to the Discipline/Profession

06/2025 – present Radiology Research Alliance Mentorship Committee Chair

Leads the year-round RRA mentorship program, including the recruitment and pairing of mentors and mentees based on subspecialty interests. Coordinates two major mentorship events at the annual meeting: a moderated panel discussion and an in-person mentoring workshop. Oversees communications and program logistics using standardized templates and collaborates with committee members to promote professional development opportunities for members.

07/2022 – present American College of Radiology Radiology-TEACHES mentor

- Mentor students in the Radiology-TEACHES program, which integrates radiology into medical education through case-based learning. Guide students in utilizing ACR's Radiology-TEACHES resources, promoting the appropriate use of medical imaging, and enhancing their understanding of radiologic decision-making. Assist in developing clinical scenarios and provided feedback to foster critical thinking and practical skills in radiology.
- 05/2024 – present Alliance of Medical Student Educators in Radiology (AMSER) Radiology Residency Guide Work Group Member
- Contribute to the creation and enhancement of the Radiology Residency Guide aimed at medical students applying for radiology residency programs. Collaborate with fellow educators to provide comprehensive resources and guidance, ensuring students are well-prepared and informed throughout the residency application process.
- 03/2022 – 05/2024 American Board of Radiology Diagnostic Radiology Pediatrics Subspecialty Committee member
- Recruited by former fellowship program director. Responsibilities include writing questions for the certifying exam, participating in monthly virtual meetings, and attending an annual in-person meeting in Tucson Arizona to develop the next year's exam. Played a key role in maintaining the rigor and quality of the certification process for pediatric radiology subspecialists.
- 10/2018 – 6/2022 Virginia Chapter of the American College of Radiology Alternate Councillor
- Participated in council activities, contributing to discussions and decision-making processes related to radiology practice and policies within the state. Engaged with fellow councillors to represent the interests and concerns of radiologists in Virginia at the national meeting.
- 05/2017 – 05/2018 American College of Radiology Resident & Fellow Section Executive Committee Education Liaison
- Facilitated educational initiatives and programs aimed at enhancing the training and professional development of radiology residents and fellows. Collaborated with committee members to organize educational resources, events, and opportunities, contributing to the overall mission of advancing radiology education within the ACR RFS community.
- 05/2017 – 05/2018 American College of Radiology Resident & Fellow Section Women and Diversity Advisory Panel Chair
- Linked the Resident and Fellow Section with the Women's Section of the ACR, bridging the gap between trainees and attending/practicing radiologists on gender issues. Provided leadership and guidance in addressing gender and diversity concerns among radiology residents and fellows, fostering a more inclusive and equitable professional environment.

- 08/2015 - 05/2017 American College of Radiology Resident & Fellow Section Medical Student Focus Group Member
- Focused on educational initiatives to attract medical students to radiology. Collaborated on strategies for recruitment by identifying and addressing key factors important to medical students. Worked to enhance the appeal of radiology through targeted educational programs and outreach efforts.
- 10/2016 - 04/2017 Virginia American College of Radiology Resident & Fellow Section Rapid Fire Review Course Creator & Organizer
- Founded and organized a course with a novel approach to better align board preparation with the new multiple-choice exam. Reimagined traditional board review with an interactive, case-based format using audience response systems, enhancing exam readiness and enabling full participation of the audience. Recruited the best teaching faculty from all Virginia radiology residencies to present engaging cases in a comprehensive two-day course. Promoted the event through the VA RFS and social media, attracting local and out-of-state residents. The course received overwhelmingly positive feedback, highlighting its impact and success. The experience was also published in the Journal of the American College of Radiology.
- 10/2016 - 08/2017 Virginia American College of Radiology Resident & Fellow Section Governing Council Education Liaison
- Played a key role in founding the Resident and Fellow Section (RFS) for the Virginia ACR. As Education Liaison, facilitated the development of educational initiatives and resources for radiology residents. Spearheaded the creation and organization of the Rapid-Fire Review Course. Promoted educational events and fostered engagement within the radiology community, contributing to the growth and success of the VA RFS.

PROFESIONAL DEVELOPMENT

- 07/2022 – present Association of American Medical Colleges Building Better Curriculum Webinar Series participant
- Participating in a webinar series focused on exploring innovations in curriculum development to learn about and discuss best practices and original strategies for creating effective courses.
- 03/2024 – present Association of American Medical Colleges Artificial Intelligence in Academic Medicine Webinar Series participant
- Participating in a webinar series by the AAMC focused on leveraging AI opportunities in academic medicine. The series explored critical concepts, the current AI landscape, and practical strategies from diverse perspectives and institutions.

- 10/2024 – 12/2024 Association of College and University Educators (ACUE) Course Participant: Inspiring Inquiry and Preparing Lifelong Learners
Completed evidence-based professional development focused on fostering student engagement, critical thinking, and lifelong learning in higher education. Earned a microcredential.
- 06/2024 - 08/2024 Association of College and University Educators (ACUE) Course Participant: Designing Learner-Centered Courses
Earned a microcredential focused on designing equitable, learner-centered courses emphasizing evidence-based practices, equitable grading, and inclusive syllabus design.
- 09/2022 – 05/2023 Association of Academic Radiologists (AAR) Emotional Intelligence and Social Competence in Leadership Course participant
Selected to participate in a course focused on teaching and reinforcing emotional intelligence and social competence skills for future leaders in Radiology, sponsored by an AAR Strategic Alignment Grant. The course covered units on building trust, effective communication, managing emotions, influence, negotiation, conflict resolution, coaching, and change management. Responsibilities included completing a confidential self-assessment, engaging with reading and video materials, participating in virtual monthly 1.5-hour group discussions, and contributing to the development of a handbook on emotionally intelligent leadership for AAR members.
- 08/2022 – 12/2022 Association of American Medical Colleges Medical Education Research Certificate (MERC) Program participant
Completed a program designed to enhance understanding of medical education research purposes and processes, improve consumption of relevant literature, and foster effective collaboration in research projects.

TEACHING ACTIVITIES

Academic Year	Lecture Title	Course/ Institution	Instruction		Learners	
			Type	Min	#	Type
2024-2025; 2023-2024	Introduction to Radiology	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1

2024-2025; 2023-2024	Spine Imaging	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the Upper Extremity	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Chest Imaging	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the Abdomen/Pelvis 1: Solid organs	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the Abdomen/ pelvis 2: GI, Repro, Vascular	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the Lower Extremity	Fundamentals of Basic Science	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Intracranial Anatomy on Imaging	Neuroscience and Behavior	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the Skull	Neuroscience and Behavior	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Intracranial Pathology on Imaging	Neuroscience and Behavior	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Head & Neck Imaging	Neuroscience and Behavior	Interactive large group didactic session	50	80	M1

2024-2025; 2023-2024	Neuroradiology Case Review	Neuroscience and Behavior	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Imaging of the GI Tract	Pathophysiology and Therapeutics 1	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Developmental and Congenital Diseases and Radiological Correlates	Pathophysiology and Therapeutics 1	Interactive large group didactic session	50	80	M1
2024-2025; 2023-2024	Introduction to Ultrasound	Foundations of Medicine 1	Interactive large group didactic session	60	80	M1
2024-2025; 2023-2024	Basics of Vascular Ultrasound	Foundations of Medicine 1	Interactive large group didactic session	60	80	M1
2024-2025; 2023-2024	Chest Imaging Cases	Foundation of Medicine 3	Interactive large group didactic session	90	80	M2
2024-2025; 2023-2024	Abdominal Imaging Cases	Foundation of Medicine 3	Interactive large group didactic session	90	80	M2
2024-2025; 2023-2024	Pediatric Imaging Emergencies	Foundation of Medicine 3	Interactive large group didactic session	50	80	M2
2024-2025; 2023-2024	Basic Pediatric Radiology	FCBS	Interactive large group didactic session	60	80	M3
2021-2022; 2020-2021;	Pediatric Radiology Resident Case Conference Fall & Spring	Radiology Resident Lunchtime Series	Interactive large group didactic session	60	15	PGY2-PGY5

2019-2020						
2021-2022; 2020-2021; 2019-2020	Pediatric Resident Basic Imaging Series Part 5: Child Abuse	Pediatric Resident Lunchtime Series	Interactive large group didactic session	60	25	PGY1-PGY3
2021-2022; 2020-2021; 2019-2020	Pediatric Resident Basic Imaging Series Part 4: MSK	Pediatric Resident Lunchtime Series	Interactive large group didactic session	60	25	PGY1-PGY3
2021-2022; 2020-2021; 2019-2020	Pediatric Resident Basic Imaging Series Part 3: Abdomen	Pediatric Resident Lunchtime Series	Interactive large group didactic session	60	25	PGY1-PGY3
2021-2022; 2020-2021; 2019-2020	Pediatric Resident Basic Imaging Series Part 2: Chest	Pediatric Resident Lunchtime Series	Interactive large group didactic session	60	25	PGY1-PGY3
2021-2022; 2020-2021; 2019-2020	Pediatric Resident Basic Imaging Series Part 1: Lines	Pediatric Resident Lunchtime Series	Interactive large group didactic session	60	25	PGY1-PGY3

ADVISING ACTIVITIES

07/2022 – present Academic Advisor

Multiple FAU Medical Students & McGill Undergraduate Students

Provide academic guidance, career planning, and specialty mentoring. Support residency applications, ERAS preparation, and Match readiness. Several students successfully matched radiology, OB/GYN and pediatrics.

07/2022 – present Informal Mentor

Multiple FAU College of Medicine faculty

Provide ongoing guidance to FAU COM faculty on teaching material development, promotion dossier preparation, and scholarly writing. Specific support includes integrating artificial intelligence tools such as large language models into instructional design, assessment creation, and manuscript drafting. Mentorship has helped colleagues produce AI-enhanced educational content and strengthen their academic portfolios for promotion and national presentation opportunities.

08/2024 – present Research Mentor

RRA taskforce members (Faculty & trainees, multiple institutions)

Selected to participate in a course focused on teaching and reinforcing emotional intelligence and social competence skills for future leaders in Radiology, sponsored by an AAR Strategic Alignment Grant. The course covered units on building trust, effective communication, managing emotions, influence, negotiation, conflict resolution, coaching, and change management. Responsibilities included completing a confidential self-assessment, engaging with reading and video materials, participating in virtual monthly 1.5-hour group discussions, and contributing to the development of a handbook on emotionally intelligent leadership for AAR members.

05/2023 – present Clinical Advisor

L. Sacca & Y. Kitsantis (Faculty, FAU College of Medicine)

Advised group project on women's health, focusing on attitudes toward prenatal screening. Assisted with study design, survey validation, and manuscript writing. Project resulted in publication in Women's Health.

07/2024 – present Research Mentor

E. Guirguis, E. Knopf (Medical Students, FAU College of Medicine)

Mentored student on radiology education research focused on integrating AI in medical education. Guided study design, abstract preparation, and manuscript development.

- 08/2022 – present Interdisciplinary Mentor/Collaborator
A. Wyatt, P. Perumareddi (Faculty, FAU College of Medicine)
Collaborated on educational innovation projects including use of audience response technology and AI in curriculum design. Co-authored presentations accepted at national conferences (SGEA, AAMC).
- 05/2023-12/2023 Faculty Mentor (Name confidential, FAU College of Medicine)
Provided structured mentorship in time management, course leadership, and task prioritization. Regular check-ins led to improvement in goal completion and teaching effectiveness.
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Claudia O. Rodrigues

Curriculum Vitae

INSTITUTIONAL AFFILIATION

Florida Atlantic University
Charles E. Schmidt College of Medicine
Department of Biomedical Science

CONTACT

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EDUCATION

B.Sc. Pharmacy, 1994
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

M.Sc., Microbiology (Emphasis in Cell Biology), 1996
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

Ph.D., Microbiology (Emphasis in Biochemistry), 1999
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

EMPLOYMENT HISTORY

2021-Present **Associate Professor**
Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, FL

2016-2021 **Research Associate Professor**
Department of Molecular and Cellular Pharmacology, University of Miami Miller School of Medicine, Miami, FL

2007-2016 **Research Assistant Professor**
Department of Molecular and Cellular Pharmacology, University of Miami Miller School of Medicine, Miami, FL

2005-2007 **Post-Doctoral Fellow (under NIH Training Grant)**
Department of Molecular and Cellular Pharmacology, University of Miami Miller School of Medicine Miami, FL

2003-2005 **Post-Doctoral Research Associate**
Department of Biochemistry, St. Jude Children's Research Hospital, Memphis, TN

1999-2003 **Post-Doctoral Research Associate**
Department of Veterinary Pathobiology, University of Illinois at Urbana-Champaign, Champaign, IL

- 1997-1999 **Visiting Scholar**
Department of Veterinary Pathobiology, University of Illinois Urbana-Champaign, Champaign, IL
- 1994-1996 **Graduate Research Assistant**
Department of General Microbiology
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- 1991-1994 **Undergraduate Research Assistant**
Department of General Microbiology
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

SCHOLARSHIP/RESEARCH

Peer-Review Journal Articles

1. Nategh P, Neghabi M, Ceyhan B, Machi JF, Rahbar HA, Rodriguez MS, Santana AG, **Rodrigues CO*** and Ranji M. Endothelial c-Myc and Doxorubicin-induced metabolic alterations: a multi-organ optical imaging study. *Journal of Biophotonics*. 2025 Apr 21:e70037. **Co-Senior corresponding author.*
2. Machi JF, Altilio I, Qi Y, Morales AA, Silvestre DH, Hernandez DR, Da Costa-Santos N, Santana AG, Neghabi M, Nategh P, Castro TL, Werneck-de-Castro JP, Ranji M, Evangelista FS, Vazquez-Padron RI, Ernesto Bernal-Mizrachi E and **Rodrigues CO***. Endothelial c-Myc knockout disrupts metabolic homeostasis and triggers the development of obesity. *Frontiers in Cell and Developmental Biology*. 2024 Jul 19; 12:1407097. **Senior corresponding author.*
3. Tan AW, Tong X, Alvarez-Cubela S, Chen P, Santana AG, Morales AA, Tian R, Infante R, Paiva VN, Kulandavelu S, Benny S, Dominguez-Bendala J, Wu S, Young KC, **Rodrigues CO** and Schmidt AF. c-Myc Drives Inflammation of the Maternal-Fetal Interface and Neonatal Lung Remodeling Induced by Intra-amniotic Inflammation. *Frontiers in Cell and Developmental Biology*. Volume 11 - 2023 / doi: 10.3389/fcell.2023.1245747
4. Benny M, Sharma M, Kulandavelu S, Chen P, Tian R, Ballengee S, Huang J, Levine AF, Claire M, Schmidt AF, Vazquez-Padron RI, **Rodrigues CO**, Wu S, Velazquez OC, Young KC. Protective role of CXCR7 activation in neonatal hyperoxia-induced systemic vascular remodeling and cardiovascular dysfunction in juvenile rats. *Scientific Reports* 13(1):19538, 2023.
5. Vivian GK, da Silva RO, Santos ACA, Hastreiter AA, Dias CC, Makiyama EN, Borelli P, **Rodrigues CO** and Fock RA. The interaction between aging and protein malnutrition modulates peritoneal macrophage function: An experimental study in male mice. *Experimental Gerontology* 171:112025, 2023.
6. Qi Y, Qadir MMF, Hastreiter AA, Fock RA, Machi JF, Morales AA and **Rodrigues CO***. Endothelial c-Myc knockout enhances diet-induced liver inflammation and fibrosis. *FASEB J*. 2022 36(1):e22077, 2022. **Senior corresponding author.*
7. Rangel EB, **Rodrigues CO**, Guimarães-Souza NK. Stem Cell Applications in Regenerative Medicine for Kidney Diseases. *Stem Cells International*, 9817324, eCollection, 2021.
8. Rangel EB, **Rodrigues CO** and Sa, JR. Micro and Macrovascular Complications in Diabetes Mellitus: Preclinical and Clinical Studies. *Journal of Diabetes Research* Feb 17; 2019:2161085, eCollection 2019.

9. Pinto MT, Melo FUF, Malta TM, Rodrigues ES, Plaça JR, Silva Jr WA, Panepucci RA, Covas DT, **Rodrigues CO** and Kashima S. Endothelial Cells from different anatomical origin have distinct responses during Snail/TGF- β 2-mediated Endothelial-Mesenchymal Transition. *American Journal of Translational Research* 10(12): 4065-4081, 2018.
10. Bellio MA, Pinto MT, Florea V, Barrios PA, Taylor CN, Brown AB, Lamondin C, Hare JM, Schulman IH and **Rodrigues CO***. Hypoxic stress decreases c-Myc protein stability in cardiac progenitor cells inducing quiescence and compromising their proliferative and vasculogenic potential. *Scientific Reports* 7: 9702, 2017. ***Senior corresponding author.**
11. Reiter J, Drummond S, Sammour I, Huang J, Florea V, Dornas P, Hare JM, **Rodrigues CO*** and Young, KC. Stromal Derived Factor-1 Mediates the Lung Regenerative Effects of Mesenchymal Stem Cells in an Experimental Model of Bronchopulmonary Dysplasia. *Respiratory Research* 18: 137, 2017 ***Shared senior authorship with Dr. KC Young.**
12. Bellio MA, **Rodrigues CO***, Landin AM, Hatzistergos KE, Florea V, Valasaki K, Khan A, Hare JM, Schulman IH. Physiologic and Hypoxic Oxygen Concentration Differentially Regulate Human c-Kit+ Cardiac Stem Cell Proliferation and Migration. *American Journal of Physiology-Heart and Circulatory Physiology* 311(6):H1509-H1519, 2016.
13. Pinto, MT, Covas DT, Kashima S and **Rodrigues CO***. Differential Response of Endothelial Cells to TGF- β and Hypoxia-Induced Endothelial-Mesenchymal Transition. *Biomedical Procedures Online*. 18:10, 2016. ***Senior corresponding author.**
14. Florea V, Majid SS, Kanashiro-Takeuchi, RM, Cai, RZ, Block, NL, Schally, AV, Hare, JM and **Rodrigues CO***. Agonists of Growth Hormone Releasing Hormone Stimulate Self-Renewal of Cardiac Stem Cells and Promote their Survival. *Proceedings of the National Academy of Science USA (PNAS)* 111(48):17260-5, 2014. ***Senior corresponding author.**
15. Florea V, Bhagavatula N, Simovic G, Macedo FY, Fock RA and **Rodrigues CO***. c-Myc is Essential to Prevent Endothelial Pro-Inflammatory Senescent Phenotype. *PLoS One* 8(9):e73146, 2013. ***Senior corresponding author.**
16. Shehadeh LA, Sharma A, Wei JQ, Pessanha M, Yuan H, **Rodrigues CO**, Scher M, Tsinoremas, N F, and Bishopric NH. MicroRNA-20a constrains p300-driven myocardial angiogenic transcription by direct targeting of p300. *PLoS One* 8(11):e79133, 2013.
17. Miranda LF, **Rodrigues CO**, Ramachandran S, Torres E, Sanchez M, Klim J, Hehre D, McNiece I, Hare JM, Suguihara C, Young KY. Stem Cell Factor Attenuates Neonatal Hyperoxia-Induced Lung Injury. *Pediatric Research* 74(6):682-8, 2013.
18. Rangel EB, Gomes SA, Dulce RA, Premer C, **Rodrigues CO**, Kanashiro-Takeuchi RM, Oskoue B, Carvalho DA, Ruiz P, Reiser J and Hare JM. C-kit+ Cells Isolated from Developing Kidneys are Stem/Progenitor Cells with Regenerative Potential. *Stem Cells* 31(8):1644-56, 2013.
19. Ramachandran S, Suguihara C, **Rodrigues CO**, Rodriguez M, Drummond S, Klim J, Torres E, Hehre D, McNiece I, Sanchez M, Hare J and Young KY Bone Marrow-Derived c-kit Positive Cells Attenuate Neonatal Hyperoxia-Induced Lung Injury. *Cell Transplant* 24(1):85-95, 2015 (Epub 2013 May 22).
20. Gomes SA, Rangel EB, Premer C, Dulce RA, Cao Y, Florea V, Balkan W, **Rodrigues CO**, Schally AV, and Hare JM. S-nitrosoglutathione reductase (GSNOR) enhances vasculogenesis by

- mesenchymal stem cells. *Proceedings of the National Academy of Science USA (PNAS)* 110(8):2834-9, 2013.
21. Kanashiro-Takeuchi RM, Takeuchi LM, Rick FG, Dulce RR, Treuer AV, Florea V, **Rodrigues CO**, Paulino EC, Hatzistergos KE, Selem SM, Gonzalez DR, Block NL, Schally AV and Hare JM. Activation of Growth Hormone Releasing Hormone (GHRH) Receptor Stimulates Cardiac Reverse Remodeling After Myocardial Infarction. *Proceedings of the National Academy of Science USA (PNAS)*. 109(2):559-63, 2012.
 22. **Rodrigues CO**, Shehadeh LA, Hoosien M, Otero V, Chopra I, Tsinoremas NF and Bishopric NH. Heterogeneity in SDF-1 Expression Defines the Vasculogenic Potential of Adult Cardiac Progenitor Cells. *PLoS One*. 6(8):e24013, 2011.
 23. **Rodrigues CO**, Nerlick S, White EL, Cleveland JL and King ML. A Myc-Twist-Slug Regulatory Circuit Directs Vascular Development. *Development* 135:1903-1911, 2008.
 24. Tran TH, Andreka P, **Rodrigues CO**, Webster KA and Bishopric NH. Jun kinase delays caspase-9 activation by interaction with the apoptosome. *Journal of Biological Chemistry* 282(28): 20340-20350, 2007.
 25. Miranda K, Vercesi AE, Catisti R, de Souza W, **Rodrigues CO**, and Docampo R. P-type proton ATPases are involved in intracellular calcium and proton uptake in the plant parasite *Phytomonas françai*. *Journal of Eukaryotic Microbiology* 52(1): 55-60, 2005.
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34. Ruiz FA, **Rodrigues CO**, and Docampo R. Rapid changes in polyphosphate content within acidocalcisomes in response to cell growth, differentiation, and environmental stress in *Trypanosoma cruzi*. *Journal of Biological Chemistry* 276(28): 26114-21, 2001.
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47. Vercesi AE, **Rodrigues CO**, Uyemura SA, Zhong, Li, and Moreno, S. N. J. Respiration and Oxidative Phosphorylation in the Apicomplexan Parasite *Toxoplasma gondii*. *Journal of Biological Chemistry* 273(47): 31040-31047, 1998.
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49. Meyer-Fernandes JR, Dutra PML, **Rodrigues CO** and Lopes AHCS. Mg²⁺-dependent ecto-ATPase in *Leishmania tropica*. *Archives of Biochemistry and Biophysics* 341(1): 40-46, 1997.
50. **Rodrigues CO**, Dutra PML, Souto-Padrón T, Cordeiro RSB and Lopes AHCS. Effect of Platelet-activating factor (PAF) on cell differentiation of *Trypanosoma cruzi*. *Biochemical and Biophysical Research Communications* 223(3): 735-740, 1996.

Presentations and Proceedings (Selected)

1. Marques JR, Shanefield MH, Santana AG and **Rodrigues CO**. The Toxic Effects of Doxorubicin on Human Coronary Artery Endothelial Cells Are Associated with Deregulation of Mitochondrial Function and Autophagy. *Vasculata 2025, Pittsburgh, 2025*. ***Abstract selected for Travel Award.**
2. Shanefield MH, Guan K, Marques JR, Santana AG and **Rodrigues CO**. Doxorubicin Exposure Leads to Deregulation of the Circadian Clock in Human Coronary Artery Endothelial Cells. *Vasculata 2025, Pittsburgh, 2025*. ***Abstract selected for Travel Award.**
3. Trenta B, Marques JR, Shanefield MH and **Rodrigues CO**. *Inhibition of c-Myc in Liver Sinusoidal Endothelial leads to changes in energy metabolism and protein synthesis*. *Vasculata 2025, Pittsburgh, 2025*. ***Abstract selected for Travel Award.**
4. Potenti SG, Shanefield MH, Marques JR and **Rodrigues CO**. Doxorubicin Induction of ULK1 in Human Coronary Artery Endothelial Cells Correlates with Proliferation Decline. *Vasculata 2025, Pittsburgh, 2025*. ***Abstract selected for Travel Award.**
5. Guan K, Santana AG, Jeanty FM, Morales, AA and **Rodrigues CO**. Transcriptome analysis reveals a novel role for endothelial c-Myc in sepsis-induced cardiomyopathy. *Vasculata 2025, Pittsburgh, 2025*. ***Abstract selected for Travel Award.**
6. Meyer JH, Marques JR and **Rodrigues CO**. *The Effects of Torin-1 on Doxorubicin-Induced Toxicity in Human Coronary Arterial Endothelial Cells*. *Vasculata 2025, Pittsburgh, 2025*.
7. Tan AW, Tong X, Alvarez-Cubela S, Dominguez-Bendala J, Duara J, Young KC, Benny S, Wu S, Bircher S, Yost CC, **Rodrigues CO** and Schmidt AF. *Prenatal c-Myc inhibition improves alveolar simplification induced by chorioamnionitis*. *Pediatric Academic Societies Meeting (PAS), Washington DC, 2023*. *** Related Manuscript Published.**
8. Machi JF, Altilio-Bove ID, Qi Y, Morales, AA and **Rodrigues CO**. Endothelial c-Myc knockout triggers cardiac dysfunction through modulation of contractility mechanisms and increase in inflammation. *Accepted for poster presentation at Vasculata, Durham, NC, 2022*. *** Related Manuscript Published.**

9. Machi JF, Tang JK, Menzie-Suderam, J and **Rodrigues CO**. Differential response to doxorubicin-induced cardiac dysfunction and remodeling in endothelial c-Myc overexpressing mice. *Accepted for poster presentation at the 22nd International Vascular Biology Meeting, Oakland, CA, 2022. * Related Manuscript Published.*
10. Benny M, Machi JF, Kulandavelu S, Tian R, Chen P, Ballengee S, Schmidt AF, Wu S, **Rodrigues CO** and Young KC. Decreased Cardiac SDF-1/CXCR7 Expression Contributes to Neonatal Hyperoxia Induced Exercise Intolerance in Young Adult Rats. *Pediatric Academic Societies Meeting (PAS), Denver, CO, 2022. * Related Manuscript Published.*
11. Machi JF, Qi Y, Rocha MS, Morales AA, Altilio-Bove ID, Werneck-de-Castro JP, Silvestre DH, Bernal-Mizrachi E and **Rodrigues CO**. Loss of Endothelial c-Myc triggers visceral fat accumulation in aging mice associated with serum increase in cholesterol and leptin. *Accepted for oral presentation at the American Heart Association Scientific Sessions Philadelphia, PA, 2019. *Abstract selected for oral presentation and Travel Award to Dr. Jacqueline F. Machi. * Related Manuscript Published.*
12. Da Rocha, M.S.; Morales, A.A.; Qi, Y.; Stahl, J.P., Wanschel, A. and **Rodrigues CO**. Identification of Novel Cardioprotective Mechanisms in Doxorubicin-Induced Cardiac Injury. *Accepted for oral presentation at the Society of Toxicology (SOT) 58th Annual Meeting & ToxExpo, Baltimore, MD, 2019. *Related Manuscript Published.*
13. Stahl, J.P., da Rocha, M.S., Qi, Y., Pinto, M.T., Lassance-Soares, R.M. and **Rodrigues CO**. Endothelial Myc regulates neuroprotective pathways in the brain microenvironment. *Accepted for poster presentation at the North American Vascular Biology Organization Annual Meeting - Vascular Biology, Newport, RI, 2018.*
14. Qi, Y., da Rocha, M.S., Hernandez, D. R., Pinto, M.T., Lassance-Soares, R.M., Vazquez-Padron, R.I. and **Rodrigues CO**. Endothelial Myc regulates pro-inflammatory and -fibrotic mediators in the heart during aging. *Accepted for poster presentation at the North American Vascular Biology Organization Annual Meeting - Vascular Biology, Newport, RI, 2018.*
15. Qi, Y., Pinto, M.T., Florea V., Lassance-Soares, R.M.L., and **Rodrigues CO**. Endothelial c-Myc Protects the Heart from Pro-Inflammatory Changes during Aging and Atherogenic Stress *Accepted for poster presentation at the American Heart Association Scientific Sessions, Chicago, IL, 2018.*
16. Lassance-Soares, R.M., Hernandez, D.R., Pinto, M.T., **Rodrigues CO**, Liu, Z., Vazquez-Padron, R.I. and Velazquez, O.C. Importance of c-kit Signaling in Arteriogenesis. *12th Annual Academic Surgical Congress Las Vegas, NV, 2017.*
17. Pinto, M.T, Kanashiro-Takeuchi, R.M., Florea, V., Taylor, C.N., Takeuchi, L.M., Hehre, D.A., Huang, J., Kurlansky, P.A. and **Rodrigues CO**. c-Myc Inhibition Improves *Cor Pulmonale* through Epigenetic Regulation and Changes in Pro-Inflammatory and -Fibrotic Mechanisms in Experimental Pulmonary Hypertension. *19th International Vascular Biology Meeting, Boston, MA, 2016.*
18. Pinto, M.T., Lassance-Soares, R.M.L., Rodriguez, G., Coutelle, N.A. and **Rodrigues CO**. c-Myc is a Potential Regulator of Endothelial-Mesenchymal Transition in Aging. *19th International Vascular Biology Meeting, Boston, MA, 2016.*
19. Bellio, M.A., **Rodrigues CO**, Landin, A.M., Hatzistergos, K.E., Valasaki, K., Khan, A., Hare, J.M., Schulman, I.H. Oxygen Concentration Modulates Cardiac Stem Cell Proliferation and Migration.

*American Heart Association Scientific Sessions, New Orleans, LO, 2016. *Related Manuscript Published.*

20. Florea, V., Barrios, P.A., Lamondin, C., Medina, A.S. and **Rodrigues CO**. Ischemic stress reduces cardiac progenitor cell self-renewal through GSK3 β activation and reduction in cMyc stability. *American Heart Association Scientific Sessions, Chicago, IL, 2014. * Related Manuscript published.*
21. Florea, V., Majid, S.S., Kanashiro-Takeuchi, R.M., Block, N.L., Schally, A.V., Hare, J.M. and **Rodrigues CO**. Cytoprotective Effect of Growth Hormone Releasing Hormone Agonist in Cardiac Stem Cells. *Basic Cardiovascular Sciences Scientific Sessions, Las Vegas, NV, and American Heart Association Scientific Sessions, Chicago, IL, 2014. * Related Manuscript published.*
22. Bellio, M., **Rodrigues CO**, Florea, V., Balkan, W., Hare, J.M. and Schulman, I.H. Hypoxia-Induced Decrease in Cardiac Stem Cell Proliferation is Associated with Downregulation of Sirtuin 1. *Keystone Symposia on Molecular and Cellular Biology, Breckenridge, CO, 2014. * Related Manuscript published.*
23. Florea, V., Taylor, C.N., Martinez, P.A.B., Lamondin, C., Hare, J.M. and **Rodrigues CO**. Integrin- β 1 Regulates Cardiac Stem Cell Self-Renewal and Differentiation. *Basic Cardiovascular Sciences Scientific Sessions, Las Vegas, NV, 2013.*
24. Reiter, J., Huang, J., Florea, V., Dornas, P., Hare, J.M., **Rodrigues CO** and Young, K.Y. "Stromal Derived Factor-1 Mediates the Lung Regenerative Effects of Mesenchymal Stem Cells In Neonatal Hyperoxia-Induced Lung Injury. *American Thoracic Society International Conference. Philadelphia, PA, 2013. * Related Manuscript published.*
25. Florea, V., Majid, S.S., Kanashiro-Takeuchi, R. M., Block, N. L., Schally, A. V., Hare, J. M. and **Rodrigues CO**. Cytoprotective Effect of Growth Hormone Releasing Hormone Agonist in Cardiac Stem Cells. *American College of Cardiology, San Francisco, CA, 2013. * Related Manuscript published.*
26. Bhagavatula, N., Macedo, F. Y., Fock, R. A. and **Rodrigues CO** Development of a Pro-Inflammatory Senescent Phenotype in Endothelial Cells After Loss of c-Myc. *Vascular Matrix Biology and Bioengineering Workshop II, Cape Cod, MA, 2011. * Related Manuscript published.*
27. Miranda, L. F., **Rodrigues CO**, Alfonso, E. T., Sanchez, M., Hehre, D., McNiece, I., Suguihara, C., Hare, J. M. and Young, K. Stem Cell Factor Attenuates Neonatal Hyperoxia-Induced Lung Injury. *Pediatric Academic Societies 2011, Denver, CO, 2011. * Related Manuscript published.*
28. Ramachandran, S., Suguihara, C., **Rodrigues CO**, Drummond, S., Torres, E., Hehre, D., McNiece, I., Sanchez, M., Hare, J. M. and Young, K. Bone-Marrow Derived c-kit cells Improve Alveolarization in Neonatal Rats with Hyperoxia-Induced Lung Injury. *Pediatric Academic Societies 2011, Denver, CO, 2011. * Related Manuscript published.*
29. **Rodrigues CO**, Shehadeh, L.A., Hoosien, M., Calero, K., Chopra, I., Tsinoremas, N.F., Webster, K.A., and Bishopric, N.H. Clonal Variation Reveals Subpopulations of Stem Cells Committed to Myogenic and Vasculogenic Lineages in Adult Mouse Myocardium. *American Heart Association Scientific Sessions, Orlando, FL, 2009. * Related Manuscript published.*
30. Shehadeh LA, Sharma S, Wei JQ, Pessanha, M, **Rodrigues CO**, Yuan H, Scherr M, Webster KA and Bishopric NH Regulation of Compensatory Angiogenesis during Cardiac Hypertrophy by a

p300-miR-17392 Feedback Loop. *American Heart Association Scientific Sessions, Orlando, FL, 2009.* * *Related Manuscript published.*

31. **Rodrigues CO**, Shehadeh LA, Chopra I, Calero K, Webster KA and Bishopric NH. Transcriptional variability in stem cell populations isolated from adult mouse myocardium. *American Heart Association Scientific Sessions, Orlando, FL, 2007.* * *Related Manuscript published.*
32. **Rodrigues CO**, White EL, King ML, Nerlick S, Bishopric NH and Cleveland JL. A MYC-twist-slug regulatory circuit directing neural crest determination affects angiogenesis. *Nature Biotechnology Short Reports, Miami, FL, 2006.* * *Related Manuscript published.*

Non-Refereed Publications, Presentations and Proceedings

Publications

1. **Rodrigues CO**, Shehadeh LA, Webster KA and Bishopric NH. Myocyte deficiency as a target in the treatment of cardiomyopathy. *Progress in Pediatric Cardiology.* 23: 49-59, 2007.

Book Chapters

1. **Claudia O. Rodrigues**, Cristiane M. De Leis and Andrew V. Oleinikov. Endothelial Dysfunction Induced by Infectious Agents in Cerebral Small Vessel Disease. Chapter 14 in Understanding and Treating Cerebral Small Vessel Disease. Published in December 2020. Nova Science Publishers.

National Presentations

1. *Invited Oral Presentation: "Endothelial Dysfunction – Novel Mechanisms and their Potential Contribution to Vascular Disease"* at **Katz Center Research Meeting, September 2019, University of Miami Miller School of Medicine, FL.**
2. *Invited Oral Presentation: "Angiocrine Signaling in Tissue Repair and Regeneration"* at Dermatology Grand Rounds, June 2019, University of Miami Miller School of Medicine, FL.
3. *Invited Oral Presentation: "Targeting c-Myc in Inflammatory Disorders of the Cardiopulmonary System"* at **College of Pharmacy Graduate Seminar Lecture, September 2016, Nova Southeastern University, Davie, FL.**
4. *Invited Oral Presentation: "Molecular Mechanisms of Angiogenesis and Vascular Homeostasis: From Development to Disease"* at **Center for Molecular Biology and Biotechnology, September 2015, Florida Atlantic University, Boca Raton, FL.**
5. *Invited Oral Presentation: "Molecular Mechanisms that Control Stem Cell Self-Renewal and Survival under Ischemic Stress"* at **International Society for Heart Research (ISHR), May 2014, Miami, FL.**
6. *Invited Oral Presentation: "Endothelial Dysfunction – Novel Mechanisms and their Potential Contribution to Vascular Disease"* at **Medical Grand Rounds, May 2014 University of Miami Miller School of Medicine, FL.**
7. *Invited Oral Presentation: "Molecular Mechanisms of Endothelial Senescence"* at **Center for Molecular Biology and Biotechnology, April 2013, Florida Atlantic University, Boca Raton, FL.**
8. *Invited Oral Presentation: "Molecular Mechanisms of Endothelial Senescence"* at **Vascular Biology Institute, September 2012, University of Pittsburgh, PA.**

9. *Abstract Selected for Oral Presentation: “Hypoxic Stress Effect on Cardiac Stem Cells and its Relevance for Cardiac Repair”* at **NIH/NHLBI K Award Investigators Meeting, July 2012, Washington DC.**
10. *Invited Oral Presentation: “Molecular Mechanisms of Endothelial Senescence”* at **Department of Cell Biology, 2011, University of Miami Leonard M. Miller School of Medicine, FL.**
11. *Invited Oral Presentation: “Combining Biological and Biophysical Approaches for Better Understanding and Improvement of Stem Cell Engraftment”* at **Department of Physiology and Biophysics, February 2010, University of Miami Leonard M. Miller School of Medicine, FL.**

International Presentations

12. *Invited Oral Presentation: “Mechanisms of Renal Fibrosis”* at **Symposium of Chronic Renal Disease, March 2019, University of São Paulo, College of Veterinary Medicine and Zootechny, São Paulo, SP, Brazil.**
13. *Invited Oral Presentation: “Stem Cell Diversity and Molecular Basis for Cardiovascular Repair”* at **8th International Congress of Pharmaceutical Sciences (CIFARP) - New Trends in Pharmaceutical Sciences, 2011, São Paulo, Brazil.**
14. *Invited Oral Presentation: “Tumor Angiogenesis and Vascular Development – Two related processes?”* **5th International Congress of Pharmaceutical Sciences (CIFARP), Symposium of Advances in Diagnosis and Cancer Therapy, 2005, São Paulo, Brazil.**
15. *Invited Oral Presentation: “Vacuolar Proton Pyrophosphatase Activity as Possible Target for Chemotherapy of Diseases Caused by Protozoan Parasites”* at **XXVII Annual Meeting of Basic Research in Chagas’ Disease, November 2000, Minas Gerais, Brazil.**

GRANTS

1. **Agency/No: Florida Heart Research Institute (FHRI)**
 Title: Molecular Mechanisms of Anthracycline-Induced Cardiovascular Toxicity
 Role: ***Principal Investigator***
 Project Period: 08/23/2021-9/15/2026
 Total Award: \$869,883
 Status: Active (**Currently under 5th year renewal**)
2. **Agency/No: NIH/NHLBI *GRANT14514652 Application ID Not Yet Assigned (shutdown)**
 Title: Ticking the Clock in Chemotherapy-Induced Cardiotoxicity: The Role of Endothelial
 Role: ***Principal Investigator***
 Project Period: 07/01/2026-06/30/2031
 Total Award: 2,563,588.00
 Status: Pending review
3. **Agency/No: NIH/NIDNS R21NS149661**
 Title: Angiocrine Signaling in Neuroinflammation
 Role: ***Principal Investigator***
 Project Period: 12/01/2025-11/30/2027
 Total Award: \$275,000.00
 Status: Pending review

4. **Agency/No: McKnight Endowment Fund for Neuroscience/Neurobiology of Brain Disorders (NBD) Award/ 1997039**
Title: The Contribution of Endothelial Circadian Deregulation to Alzheimer's Disease
Role: **Principal Investigator**
Project Period: 07/1/2026-06/30/2029
Total Award: \$300,000.00
Status: Pending review
5. **Agency/No: Research Pilot Grant Florida Atlantic Stiles-Nicholson Brain Institute and Institute for Human Health & Disease Intervention**
Title: Early detection of cardiotoxicity through *in vivo* retinal optical imaging
Role: **Co-Principal Investigator** (Dr. Mahsa Ranji is the contact Co-PI)
Project Period: TBD
Total Award: \$25,000.00
Status: Pending Review
6. **Agency/No: FairfaxWood Health & Innovative Technology Initiative Pilot Research Awards**
Role: **Co-Principal Investigator** (Dr. Randy Blakely is the contact Co-PI)
Project Period: TBD
Total Award: \$50,000.00
Status: Pending review
7. **Agency/No: AHA/ 26PRE1558218**
Title: The Role of the Endothelial Circadian Clock in Doxorubicin-Induced Cardiotoxicity
Role: **Mentor (PI: Michelle Shanefield)**
Project Period: 01/01/2026-12/31/28
Total Award: \$70,676.00
Status: Pending review
8. **Agency/No: College of Science Jumpstart Postdoctoral Program (FAU)**
Role: **Mentor (PI: Dr. Juliana Marques)**
Project Period: 8/1/2023 to 7/31/2025
Total Award: \$10,000.00
Status: Completed
9. **Agency/No: NIH/NHLBI 1R01HL128536-01A1**
Title: *A Novel Role for cMyc in Vascular Homeostasis*
Role: **Principal Investigator**
Project Period: 08/10/2017-07/31/2022
Total Award: \$1,532,025
Status: Completed
10. **Agency/No: Florida Department of Health/9LA06**
Live Like Bella Pediatric Cancer Research Initiative
Title: *Novel Mechanisms of Anthracycline-Induced Cardiomyopathy*
Role: **Principal Investigator**
Project Period: 03/01/2019-03/31/22
Total Award: \$250,000
Status: Completed
11. **Agency/No: NIH/NHLBI 3R01HL128536-03S1**

Research Supplement to Promote Diversity (connected to parent R01)
Role: **Principal Investigator**
Project Period: 05/12/2020-07/31/2021
Total Award: \$148,781.00
Status: Completed

12. Agency/No: NIH/NHLBI 3R01HL128536-03S2

Research Supplement to Promote Diversity (connected to parent R01)
Role: **Principal Investigator**
Project Period: 05/12/2020-07/31/2021
Total Award: \$80,919
Status: Completed

13. Agency/No: American Heart Association 19POST34381057

Title: *Molecular Mechanisms of Anthracycline-Induced Cardiovascular Toxicity*
Role: **Mentor in Postdoctoral Fellowship (PI: Mitscheli Sanches da Rocha)**
Project Period: 01/01/19-12/31/19 *Early termination due to postdoc personal reasons
Total Award: \$104,060
Status: Completed

14. Agency/No: Florida Heart Research Institute (FHRI)

Title: *Molecular Mechanisms of Anthracycline-Induced Cardiovascular Toxicity*
Role: **Principal Investigator**
Project Period: 03/01/2018-06/28/19
Total Award: \$100,000
Status: Completed

15. Agency/No: NIH/NHLBI 1R03 HL133638-01

Title: *A Novel Role for cMyc in the Control of Vascular Response to Stress*
Role: **Principal Investigator**
Project Period: 01/07/16-06/30/18
Total Award: \$153,500
Status: Completed

16. Agency/No: University of Miami/Dean's NIH Bridge Program

Title: *A Novel Role for cMyc in Vascular Homeostasis*
Role: **Principal Investigator**
Project Period: 07/01/17-6/30/18
Total Award: \$75,000
Total Award: \$95,000
Status: Completed

17. Agency/No: NIH/NHLBI/1K01HL103184-01

Title: *Molecular Mechanisms of Stem Cell Engraftment*
Role: **Principal Investigator**
Project Period: 08/01/2010-11/31/2015
Total Award: \$664,215
Status: Completed

18. Agency/No: Florida Heart Research Institute (FHRI)

Title: *Novel Mechanisms of Vascular Dysfunction and Contribution to Cardiovascular Disease*

Role: **Principal Investigator**
Project Period: 09/01/15-12/31/16
Total Award: \$25,000
Status: Completed

19. Agency/No: [AHA/14POST20380654](#)

Title: *A Novel Role for c-Myc in Vascular Homeostasis*
Role: **Mentor** in Postdoctoral Fellowship Application (PI: Victoria Florea)
Project Period: 07/01/2014-06/30/2016
Total Award: \$105,768
Status: Completed

20. Agency/No: Florida Heart Research Institute (FHRI) M1400204

Title: *The Role of c-Myc in Pulmonary Hypertension*
Role: **Principal Investigator**
Project Period: 02/01/2013-05/31/2015
Status: Completed

21. Agency/No: University of Miami/Glaser Award UM SJG2013-29

Title: *Molecular Mechanisms of Endothelial Dysfunction*
Role: **Principal Investigator**
Project Period: 06/01/2013-12/31/2014
Total Award: \$40,000
Status: Completed

22. Agency/No: [Florida Department of Health/James and Esther King 09KN-12-23113](#)

Title: *Mechanisms of Intercellular Communication during Angiogenesis*
Role: **Principal Investigator**
Period: 07/01/2009-12/31/2012
Total Award: \$375,000

23. Agency/No: [American Heart Association SDG 0735311N](#)

Title: *Mechanisms of Cardiac Stem Cell Survival*
Role: **Principal Investigator**
Period: 07/01/2007-06/31/2011
Total Award: \$254,000
Status: Completed

24. Agency/No: Florida Heart Research Institute (FHRI) M0801316

Title: *Molecular Mechanisms Guiding Endothelial Cell Function*
Role: **Principal Investigator**
Project Period: 2010-2011
Total Award: \$30,000
Status: Completed

25. Agency/No: [NIH/NHLBI 1R01HL182936-01](#)

Title: *The Endothelial Circadian Clock in Cardiotoxicity*
Role: **Principal Investigator**
Project Period: 07/01/2025-06/30/2030
Total Award: 2,934,365.00
Status: Not funded

26. Agency/No: NIH/NIDDK 1R01DK143654-01

Title: Endothelial-mediated mechanisms in obesity and metabolic dysfunction associated liver disease

Role: ***Principal Investigator***

Project Period: 4/1/2025-3/31/2030

Total Award: 3,317,405.00

Status: Not funded

TEACHING**Courses (FAU)**

1. Neuroscience and Behavior (BMS 6020) – Role: Primary Facilitator (Since Spring 2024)
2. Advanced Molecular and Cellular Biology (PCB 5532) – Role: Primary Instructor (Since Fall 2023)
3. Fundamentals of Biomedical Sciences (BMS 6031) – Role: Primary Facilitator (Since Fall 2022)
4. Integrating Genomics into Predictive Health (PCB 6667) – Role: Co-Instructor (Fall 2022)

Supervision of Graduate Students

1. David Brzostowicki – FAU Master Student (Spring 2025-Present)
2. Michelle Shanefield – FAU PhD Student (Summer 2023-Present)
3. Homan Rahbar – FAU Master Student (Fall 2023-Summer 2024)
4. Joshua Tang – FAU Medical Student (Summer 2021-Spring 2023)
5. Nikesh Katuwal – FAU Master Student (Spring-Summer-Fall 2023)
6. Anna Kingham – FAU Master Student (Fall 2022)
7. Nicole Jimenez – FAU Master Student (Spring 2023)
8. Yue Qi – University of Miami PhD Student (Spring 2018-Spring 2022)

Supervision of Undergraduate Students

1. Jack Meyer – Florida Atlantic University (Fall 2024-Present)
2. Stella Potenti – Florida Atlantic University (Spring 2024-Present)
3. Brandon Trenta – (Spring 2024-Present)
4. Koye Guan – Florida Atlantic University (Fall 2023-Present)
5. Olivia Binder – Florida Atlantic University (Summer 2025)
6. Laura James – Florida Atlantic University (Spring 2025)
7. David Brzostowicki – Florida Atlantic University (Spring 2025)
8. Olivia Thomas – Florida Atlantic University (Fall 2023-Fall 2024)
9. Maya Rodrigues – Florida Atlantic University (Fall 2023)
10. Yossi Kagan – FAU Wilkes Honors College (Fall 2023)
11. Isabella Altilio – University of Miami (Summer 2019-Spring 2021)
12. Nikole Mendez – University of Miami (Fall 2019-Spring 2020)
13. Milo Unzueta – Miami-Dade College (Howard Hughes Medical Institute Summer Program 2019)
14. Isabella Altilio – University of Miami (Summer 2019-Present)
15. Jack Stahl – University of Miami (Summer 2017-December 2018)
16. Martine Domond – Miami-Dade College (Summer 2018)
17. Bruce Hsieh – University of Miami (January-May 2018)
18. Nino Coutelle – University of Miami (Summer and last semester of 2016)
19. Gretel Rodriguez – Florida International University of Miami (Summer 2016)
20. Maria Monroig – University of Puerto Rico - Mayaguez (Summer 2014)

21. Anthony Cioci – University of Miami (2013-2015)
22. Neville Patel – University of Miami (Summer 2013)
23. Ariel Brown – Tufts University (Summer 2013/Summer 2014)
24. Courtney Lamondin – University of Wisconsin (Summer 2012)
25. Paola Barrios – University of Miami (2012-2015)
26. Christy Taylor – University of Miami (2011-2015)
27. Louis Vincent – Emory University (Summer 2011)
28. Melissa Valle – Miami-Dade College (2010-2011)
29. Patricia De Leon – Miami-Dade College (2010-2011)
30. Gaurav Dubey – University of Miami (2010-2011)
31. Emmanuel Berchmans – University of Miami (2009-2010)
32. Janny Mesa – Miami-Dade College (2009-2010)
33. Sonia Majid – University of Miami (2009-2012)

Supervision of Postdocs

1. Juliana Rocha Marques (August 2023-Present)
2. Aline Guimaraes Santana (October 2022-Present)
3. Lara Carolina Mario (August 2022-July 2023)
4. Cristiane Maria de Leis – University of Miami Postdoctoral Associate (May 2020-July 2021)
5. Jacqueline Freire Machi – University of Miami Postdoctoral Associate (December 2018-June 2021)
6. Mitscheli Sanches da Rocha – University of Miami Postdoctoral Associate (June-2017-June 2019)
7. Mariana Pinto – University of Miami Postdoctoral Associate (December 2016-May 2017)

Medical Students and Fellows

1. Isabella Kirshteyn – Florida Atlantic University (Summer 2025)
2. Joshua Tang – Florida Atlantic University (Summer 2021-Spring 2023)
3. April Tan* – University of Miami Neonatology Fellow (2020-2021)
4. Joel Reiter* – University of Miami Pneumology Fellow (2012-2013)
5. Shalini Ramachandran* – University of Miami Neonatology Fellow (2012)
6. Francisco Y. Macedo – Hospitalist Jackson Hospital (2011)
7. Connie Chung – University of Miami Medical Student (2010)
8. Luis F. Miranda* – University of Miami Neonatology Fellow (2010)
9. Patrick O. Nwajei* – University of Miami Neonatology Fellow (2010)

Advising of Junior Faculty

1. Dr. Merline Benny, MD – University of Miami (August 2020-Present) [*K08 advisory committee.](#)
2. Dr. Jacqueline Freire Machi, PhD – Florida Atlantic University (August 2021-July 2024)
3. Dr. Janet Menzie-Suderam, PhD – Florida Atlantic University (August 2021-February 2023)

THESIS & DISSERTATION ADVISING ACTIVITIES (UM)

1. PhD Dissertation Committee (Chair) (2024-Present)
Student: *Michelle Shanefield*
Department of Biomedical Science, Florida Atlantic University, FL
2. Master Thesis Committee (2024-Present)
Student: *Michelle Shanefield*
Department of Biomedical Science, Florida Atlantic University, FL

3. Undergraduate Honor's Thesis Committee (2023-2025)
Student: *Yossi Kagan*
Wilkes Honors College
4. Master Thesis Committee (2023-2024)
Student: *Homan Rahbar*
Department of Biomedical Science, Florida Atlantic University, FL
5. PhD Dissertation Committee (Chair) (2017-2020)
Student: *Zachary Zigmond*
Department of Molecular and Cellular Pharmacology, University of Miami, FL
6. PhD Dissertation Committee (Chair) (2017-2019)
Student: *Sunil Yadav*
Department of Molecular and Cellular Pharmacology, University of Miami, FL
7. PhD Dissertation Committee (2017-2019)
Student: *Fahd Qadir*
Department of Cell Biology, University of Miami, FL

SERVICE & PROFESSIONAL DEVELOPMENT (FAU)

Department

1. Faculty Search Committee (November 2022 - July 2023)
2. IACUC Internal Merit Reviewer (1 review / May 2023)

College

1. MD Admissions Committee (August 2023 - Present)
2. Research and Scholarship Committee (March 2022 - Present)
3. Appeals Committee (1 review / March-April 2022)
4. Graduate Student Research Awards Reviewer (1 review / July 2022)

University

1. Financial Conflict of Interest Committee (FCOIC) (September 2022 - Present)

External

Grant reviewer

1. Standing Member of NIH Study Section (2019 - Present)

TIPI (Translational Investigations of Pulmonary and Immunological Diseases) 2024-Present
RIBT (Respiratory Integrative Biology and Translational Research) (2019-2024)

2. Ad-hoc Reviewer Cardiovascular Studies Study Section (CARA/CARB) (1 Session, 2019)
Office of Research and Development at the Department of Veterans Affairs

3. Ad-hoc Reviewer NIH Respiratory Integrative Biology and Translational Research Study Section (RIBT) (1 session 2018)

4. Ad-hoc Reviewer of AHA Vascular Endothelial Biology-1 Study Section (1 session on Career Development Grants, 2018)
5. Ad-hoc Reviewer Swiss Cancer League (1 grant, 2017)

6. Ad-hoc Reviewer AHA Vascular & Brain-1 Study Section (1 session, on Innovative Research Grants, 2016)
7. Ad-hoc Reviewer NIH AREA/R15 (1 session, 2016)
- 8. NIH Respiratory Integrative Biology and Translational Research Study Section (RIBT) Early Career Ad-hoc Reviewer (2 sessions between 2012-2013)**
- 27. Ad-hoc Reviewer AHA Vascular Endothelial Biology-1 Study Section (2 session between 2013)**

HONORS AND AWARDS

2016	Stop Heart Disease Researcher of the Year, FHRI/FCACC
2011	Fellow of the American Heart Association (FAHA)
2005-2007	Postdoctoral Fellowship, NIH Cardiovascular Training Grant Department of Molecular and Cellular Pharmacology University of Miami Miller School of Medicine Miami, FL
2000	Visiting Researcher Fellowship, National Research Council (CNPq), Brazil.
1997-1998	Ph.D. Fellowship (International), National Research Council (CNPq), Brazil.
1996-1997	Ph.D. Fellowship (National), National Research Council (CNPq), Brazil.
1996	Teaching Assistantship, Institute of Biophysics Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Brazil.
1995	Teaching Assistantship, Institute of Microbiology, Universidade Federal do Rio de Janeiro, Brazil.
1994-1996	M.Sc. Fellowship, National Research Council (CAPES), Brazil.
1991-1994	Undergraduate Research Assistant Fellowship, National Research Council (CNPq), Brazil.

EDITORIAL RESPONSABILITIES

2025	Ad-hoc Reviewer for Archives of Biochemistry and Biophysics
2018-2024	Editorial Board Member of Scientific Reports
2019	Guest Editor for Special Issue of Stem Cells International <i>"Stem Cell Applications in Regenerative Medicine for Kidney Diseases."</i>
2018	Guest Editor for Special Issue of Journal of Diabetes Research <i>"Micro- and Macrovascular Complications in Diabetes Mellitus: Preclinical and Clinical Studies"</i>
2016-2017	Ad-hoc Reviewer for Circulation Research
2016	Ad-hoc Reviewer for Cellular Physiology and Biochemistry Ad-hoc Reviewer for Scientific Reports

2014	Ad-hoc Reviewer Plos One
	Ad-hoc Reviewer Lab Invest
2012-2013	Ad-hoc Reviewer Plos One
2011	Ad-hoc Reviewer International Journal of Vascular Medicine
2008-2010	Ad-hoc Reviewer Circulation Research

PROFESSIONAL AND HONORARY ORGANIZATION

American Heart Association – Member/FAHA (2007-Present)

North American Vascular Biology Organization – Member (2004-Present)

LEA SACCA, PhD, MPH

Assistant Professor of Population Health

Structures, Systems, and Society Thread Director

Department of Population Health

Schmidt College of Medicine

Florida Atlantic University (FAU)

777 Glades Road BC-71

Boca Raton, FL 33431

Email: lsacca@health.fau.edu

EDUCATION

The University of Texas Health Science Center at Houston School of Public Health

Houston, TX

PhD, Health Promotion Behavioral Sciences

August 2021

- Minor: Epidemiology
- Breadth: Quantitative Methods
- Dissertation: "Using Technology to Disseminate and Implement Sexual Health Education in Native Communities: Perspectives and Lessons Learned from the Field On the benefits of Network Overhead Protection for High Fidelity Video Streaming Over 6G."

Masters, Health Promotion and Health Education

May 2019

- Graduate Certificate: Global Health
- Capstone Project: "Using Intervention Mapping to Develop Health Education and Health Policy Components to Increase Breast Cancer Screening and Chemotherapy Adherence Among Syrian and Iraqi Refugee Women in Beirut, Lebanon"
- Fulbright Scholarship (2017-2019)

University of Balamand,

Al Kourah, Lebanon

Bachelor of Science in Public Health and Development Sciences

May 2017

- Dean's Honor List

TRAINING

Florida International University

Herbert Wertheim College of Medicine

Miami, FL

Postdoctoral Fellowship

October 2021 - October 2022

- Green Family Foundation, NeighborhoodHELP Program
- Focus: Social Determinants of Health, Community-based research

RESEARCH EXPERIENCE

- **Florida Atlantic University**
Summer Research Fast Track Mentor
Boca Raton, FL
Summer 2023, 2024
- **Florida International University Herbert Wertheim College of Medicine**
Postdoctoral Fellow, Department of Humanities, Health, and Society
Miami, FL
Oct 2022-Oct 2023
- **UTHealth School of Public Health**
Project Coordinator, Center for Health Promotion and Prevention Research
NIH-R21 Grant: Native iCHAMPS
Houston, TX
Feb 2020-Aug 2021
- **UTHealth School of Public Health**
Graduate Research Assistant, Center for Health Promotion and Prevention Research
Houston, TX
Aug 2019-Feb 2020

Cancer Prevention Institute of Texas (CPRIT) funded grant-All of Them Vaccination Project

- **American University of Beirut** Beirut, Lebanon
Graduate Research Intern, Department of Social and Behavioral Sciences June 2019-Aug 2019
Project: Exploring plastic surgery trends in Lebanese female college students
- **Global Health Institute, American University of Beirut** Beirut, Lebanon
Research Intern, Department of Refugee Health June 2019-Aug 2019
Qualitative Research Projects in Refugee Settings
- **MD Anderson Cancer Research Center** Houston, TX
Graduate Research Assistant, Department of Infectious Diseases, May 2018-May 2019
Infection and Control, and Employee Health
Project: Impact of Flu Vaccine on Outcomes in Cancer Patients with STEM Cell Transplants
- **The University of Texas Health Science Center at Houston** Houston, TX
Graduate Research Assistant, School of Biomedical Informatics Jan 2018-April 2018
Project: Assessing Parental Perceptions of HPV Vaccination Initiation for Adolescents 9-11 years old

TEACHING EXPERIENCE

Florida Atlantic University, Charles E. Schmidt College of Medicine Boca Raton, FL
Facilitator and Guest Lecturer

- Foundations of Medicine I Course (Fall 2023, Fall 2024, Fall 2025)
- Foundations of Medicine II Course (Spring 2023, Spring 2024, Spring 2025)
- Foundations of Medicine III Course (Fall 2023, Fall 2024, Fall 2025)
- Foundations of Basic Science Course (Fall 2023 (shadowing))
- Foundations of Neuroscience Course (Spring 2024 (Back-up))

UTHealth School of Public Health Houston Houston, TX
Department of Health Promotion and Behavioral Sciences
Graduate Teaching Assistant

- PHM 1111-Introduction to Health Promotion Theories and Methods II (Summer 2020, Summer 2021)
- PHWM/PHD 1120-Program Evaluation (Summer 2020)
- PHM 1110- Introduction to Health Promotion Theories and Methods I (Summer 2019, Fall 2018)
- PHM 1112- Health Promotion Theories and Methods II (Summer 2018)

LEADERSHIP, PROFESSIONAL COMMITTEES, & COMMUNITY EXPERIENCE

- **FAU College of Medicine Admissions Committee (Member)** 2025-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **Search Committee Population Health Chair Position (Member)** 2025-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **Search Committee Population Health Biostatistician Position (Chair)** 2025-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **Facilitator, Schwartz Grand Rounds, Schwartz Center** 2025-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **University Faculty Senate** 2024-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **Research and Scholarship Committee** 2024-present
Charles E. Schmidt College of Medicine, Florida Atlantic University
- **COMCC** 2022-present
Charles E. Schmidt College of Medicine, Florida Atlantic University

▪ CIPEC Charles E. Schmidt College of Medicine, Florida Atlantic University	2022-present
▪ Search Committee Data Science Position (Member) Charles E. Schmidt College of Medicine, Florida Atlantic University	2023-2024
▪ Interviewer-Medical School Admissions Committee Charles E. Schmidt College of Medicine, Florida Atlantic University	2023-present
▪ Faculty Primary Investigator (PI) for Pathways Programs Charles E. Schmidt College of Medicine, Florida Atlantic University	2023
▪ FAU Liaison-Florida Department of Health Palm Beach County, FL	2022-present
▪ FAU Liaison with the Health Care District Palm Beach County, FL	2022-present
▪ Houston Global Health Collaborative (HGHC), Houston, TX Board Member (2019-2020) Head Co-Chair for “UNLIMITED” Conference (2018-2019) PR Chair Houston Global Health Grants Committee (2017-2019) PR Chair for the HGHC “GLOCAL” conference	2017-2020
▪ The Lebanese Ministry of Public Health, Beirut, Lebanon Intern, E-Health Department Intern, Health Promotion and Public Education Office	2016-2017
▪ Highlights Newspaper, University of Balamand, Lebanon English Editor (2015-2017) Public Relations Officer (2014-2015)	2014-2017

AWARDS AND HONORS

- **2024** Outstanding Mentor of the Year, FAU Schmidt College of Medicine (Student-Elected)
- **2024-2027** O1 VISA Recipient for Extraordinary Abilities in the Sciences
- **2023** Outstanding Mentor of the Year, FAU Schmidt College of Medicine (Student-Elected)
- **2021** Delta Omega Honorary Public Health Society (Alpha Iota Chapter)
- **2021** UThHealth Student InterCouncil (SIC) COVID-19 Relief Scholarship (\$500)
- **2021** UThHealth Student InterCouncil (SIC) Academic Achievement Award (\$1,000)
- **2021** Health Promotion Behavioral Sciences (HPBS) Sponsorship Funding (\$1,000)
- **2021** Eugene H. Vaughan Endowed Scholarship (\$1,000) for PhD Student in HPBS
- **2020-2021** The L. Kay Bartholomew Eldredge Family Endowed Scholarship in HPBS (\$1,000)
- **2020** Popular Vote, Research Day, UThHealth (\$200)
- **2019-2020** The L. Kay Bartholomew Eldredge Family Endowed Scholarship in HPBS (\$1,000)
- **2019-2020** New Outstanding Student Scholarship in HPBS (\$3,000)
- **2019** The James Emerson Outstanding Teaching Assistant Award
- **2019** Delta Omega Honorary Public Health Society (Alpha Iota Chapter)
- **2018-2019** The Lauren and Adam Strauss Endowed Scholarship (\$1,000)
- **2017-2018** New Outstanding Public Health Student Scholarship in HPBS (\$1,000)
- **2017-2019** Fulbright Scholarship for an MPH in Health Promotion/Global Health at UThHealth Houston
- **2014-2017** Dean’s Honor List, University of Balamand

ONLINE SCIENTIFIC ARTICLES

1. The Lebanese Code of Ethics: A New Milestone. *MOPH Lebanon Website.*
2. Comprehensive Hospitalization Coverage for all Elderly over the Age of 64. *MOPH Lebanon Website.*
3. Toward the Development of Sustainable Agriculture in Lebanon. *Borgen Project Website.*
4. Poverty Acts as a Factor in High Rates of Obesity in India. *Borgen Project Website.*
5. Mutual Gains: How the US benefits from foreign Aid to Lebanon. *Borgen Project Website.*
6. A Global Health Institute in Lebanon. *Borgen Project Website.*
7. WHO Confirmed: The Elimination of Measles in Bhutan and Maldives. *Borgen Project Website.*
8. WHO Initiative and the Ongoing Fight against Polio and Measles in Yemen. *Borgen Project Website.*

9. The Ways that Vaccination Acts as a Solution to Poverty. *Borgen Project Website*.
10. Success in Improving Mental Health in Lebanon. *Borgen Magazine*.
11. Promoting Breastfeeding in Lebanon: A Success Story. *Borgen Magazine*.
12. Maternal Mortality in Lebanon: A Success Story. *Borgen Magazine*.
13. From Lebanon to the U.S: How Fulbright Changed My Life. *Borgen Magazine*.
14. Stop the Outbreak: Free Measles Vaccination in Lebanon. *Borgen Magazine*.
15. John Hopkins GLOBAL HEALTH NOW: Featured article: Maternal Mortality in Lebanon: Improving Against the Odds. *Global Health Now Website*.

PEER-REVIEWED PUBLICATIONS (*Indicates Student Authorship)

1. Reis, V. *, Llorens, C. *, Soto, P. *, Dunn, A. *, Jimenez, S. *, Starr, A. *, Burgoa, S. *, Lewis, K. *. **Sacca, L.** Parental Aggravation and Adverse Childhood Experiences as Influential Factors in Adolescent Depression and Anxiety. (*Accepted*).
2. Soto, P. *, Reis, V. *, Abraham, I. *, Llorens, C. *, Dunn, A. *, Lent, A. *, **Sacca, L.** Risk Factors for Bullying in US Adolescents Aged 12-17. *Child Psychiatry & Human Development* (*Accepted*).
3. Chandrasekaran, R. *, Eng, E. *, Knecht, M. *, **Sacca, L.** The Global Impact of NGOs in Decreasing Barriers to Accessing Healthcare Services in High-Risk Communities: A Scoping Review. *Health Promotion International* (*Accepted*).
4. Swickley, T. *, Bandi, R. *, **Sacca, L.** A Virtual Reality Medical Curriculum for Underrepresented Students in Florida: An Intervention Mapping Approach. *Discover Public Health* (*Accepted*).
5. Abraham, I. *, Dasilva, G. *, Ernst, K. *, Campson, A. *, Starr, A. *, Kamm, C. *, Koseifi, G. *, Decker, M. *, Kaleem, S. *, Eldawy, N. *, Brinzo, P. *, Follin, T., Ramdin, C., Mejia, M., Nelson, L., **Sacca, L.** A Systematic Review on the Risk of Developing Cancer and Frequency of Alcohol Consumption Behaviors in US Adults. *Cancer Epidemiology* (*Accepted*).
6. Starr, A. *, Dasilva, G. *, Soto, P. *, Ernst, K. *, Campson, A. *, Puvvala, A. *, Srivastav, M. *, Knopf, E. *, Zerrouki, Y. *, Okwaraji, G. *, Densley, S. *, Knecht, M. *, & **Sacca, L.** (2025). A scoping review of barriers experienced by underserved and rural maternal populations in accessing epidural analgesia in the United States. *Journal of anesthesia*, 10.1007/s00540-025-03586-8. <https://doi.org/10.1007/s00540-025-03586-8>
7. Puvvala, A. *, Rohatgi, A. *, Lobaina, D. *, Srivastav, M. *, Jhumkhawala, V. *, Kaleem, S. *, & **Sacca, L.** (2025). Trends in Heart Disease Mortality Among US Female Adults Aged ≥ 35 Years Old in Florida: A Descriptive Analysis. *Women*, 5(4), 37. <https://doi.org/10.3390/women5040037>
8. Dunn, A. *, Brinzo, P. *, Kaleem, S. *, Lent, A. *, Etzel, M. *, Mendonca, J. *, Jhumkhawala, V. *, Khoury, M., & **Sacca, L.** (2025). Behavioral and dietary factors in U.S. early childhood type II diabetes. *Pediatric research*, 10.1038/s41390-025-04417-y. Advance online publication. <https://doi.org/10.1038/s41390-025-04417-y>
9. Ejezie, C. L., Sacca, L., Burgoa, S. *, Zerrouki, Y. *, Oladoyin, O. O., Anunobi, P. C., & Messiah, S. E. (2025). Digital health strategies for sudden infant death syndrome prevention: A scoping review. *Preventive Medicine*.
10. Miron, E. *, Eldawy, N. *, Dunn, A. *, Lent, A. *, & **Sacca, L.** (2025). Caregiver Socio-Economic Factors and Perceived Effectiveness of Care Delivery in Relation to US Adolescent Vision Care: A Retrospective Analysis from a National Database. *Pediatric Reports*, 17(5), 88. <https://doi.org/10.3390/pediatric17050088>
11. Ernst, K. *, Dasilva, G. *, Srivastav, M. *, Campson, A. *, Soto, P. *, Puvvala, A. *, Knopf, E. *, Lobaina, D. *, Okwaraji, G. *, Mendonca, J. *, Frishman, M. B. *, Knecht, M. K., & **Sacca, L.** (2025). Challenges in Accessing Mental Health Services in Underserved Pregnant and Postpartum Women: A Scoping Review. *Women*, 5(3), 31. <https://doi.org/10.3390/women5030031>
12. Campson, A. *, Ernst, K. *, Lewis, K. *, Starr, A. *, Dasilva, G. *, Decker, M. *, Romeus, T. *, Knecht, M., Mejia, M., **Sacca, L.** (2025). The Role of Community Health Workers (CHW) in Improving Cervical Cancer Screening Rates and Access to Treatment in Underserved US Populations: A Scoping Review. *Cancer Causes and Control*.
13. Gines, V., Rodriguez, J., Lobaina, D.,* **Sacca, L.**, Torres, M., Mejia, M.C. (2025) Generational perspectives and advocacy barriers among community health workers: implications for public health workforce leadership. *Frontiers in Public Health* 13:1616506.doi: 10.3389/fpubh.2025.1616506
14. Sohmer, J. *, Lobaina, D. *, Faliv, M. *, Lotharius, K. *, Jhumkhawala, V. *, Fridman, S. *, **Sacca, L.** (2025). CMV Infection Prevention During Pregnancy: A Call for Effective and Sustained Educational Efforts. *Discover Public Health*.
15. Rao, M. *, Perumareddi, P., Brinton, K. *, Sherman, C. *, Linzer, N. *, Follin, T., **Sacca, L.** (2025). The Role of Wellness and Well-being in Addressing Medical Student Burnout in the United States: A Scoping Review. *American Journal of Lifestyle Medicine*.

16. Myers, C. N., Rao, M.*, Bandi, R.*, Densley, S.*, Diaz, D.*, Knecht, M., & **Sacca, L.** (2025). Funding the future: safeguarding pediatric health equity through CMS and CHIP. *Frontiers in public health*, 13, 1611720. <https://doi.org/10.3389/fpubh.2025.1611720>
17. Okwaraji, G.*, Miranda, H.*, Ostanin, J.*, Kaleem, S.*, Dunn, A.*, Lobaina, D.*, Jimenez, S.*, Lent, A.*, Etzel, M.*, Follin, T., **Sacca, L.** The Role of Family Social Support in Stroke Recovery and Desired Rehabilitation Outcomes among Young Adults: A Scoping Review. *Topics in Stroke Rehabilitation*.
18. Miranda, H.*, Ostanin, J.*, Shugar, S.*, Mejia, M. C., **Sacca, L.**, Doucette, M. L., Hennekens, C. H., & Kitsantas, P. (2025). Disparities in Treatment Outcomes for Cannabis Use Disorder Among Adolescents. *Pediatric Reports*, 17(4), 74. <https://doi.org/10.3390/pediatric17040074>
19. Gurivireddygar, S.*, Hayes, E.*, Hicks, S.*, Rao, M.*, Densley, S.*, Choudhury, S., Kitsantas, P., Mejia, M., **Sacca, L.** Barriers Experienced During Fatherhood and the Role of Adverse Childhood Experiences: A Mixed-Methods Approach. *Societies*. <https://doi.org/10.3390/soc15060162>
20. Mendonca, J.*, Etzel, M.*, Eldawy, N.*, Brinzo, P.*, Lent, A.*, Dean, A.*, Jimenez, S.*, Kaleem, S.*, Burgoa, S.*, Follin, T., Kitsantas, P., Mejia, M., & **Sacca, L.** (2025). The Role of Patient-Provider Communication and Social Support in Improving Adherence to Breast Cancer Screening and Treatment Guidelines Among U. Breast Cancer Screening and Treatment Guidelines Among U.S. Underserved Communities: A Systematic Review. *Journal of Public Health*.
21. Brinzo, P.*, Dean, A.*, Dunn, A.*, Lobaina, D.*, Densley, S.*, Kitsantas, P., Mejia, M., & **Sacca, L.** The Rising Tide: Disparities in Fentanyl-Related Mortality Among Hispanic and Non-Hispanic Adolescents and Young Adults in the United States. *Youth*.
22. Zerrouki, Y.*, Burgoa, S.*, Okwaraji, G.*, Arshad, S.*, Knopf, E.*, Mendonca, J.*, Bulut, E.*, Jhumkhawala, V.*, Kelly, S.*, Follin, T., Mejia, M., Kitsantas, P., **Sacca, L.** (2025). Prenatal Screening Educational Interventions for U.S. Pregnant Women: A Scoping Review. *Discover Public Health*.
23. Jimenez, S.*, Lent, A.*, Kaleem, S.*, Eldawy, N.*, Mendonca, J.*, Etzel, M.*, Brinzo, P.*, Burgoa, S.*, Zerrouki, Y.*, Follin, T., Kitsantas, P., Mejia, M., & **Sacca, L.** (2025). Digital Platforms and Educational Tools for Enhancing Menstrual Health: A Scoping Review. *Journal of International Sexual Health*.
24. **Sacca, L.**, Lobaina, D.*, Burgoa, S.*, Jhumkhawala, V.*, Rao, M.*, Okwaraji, G.*, Zerrouki, Y.*, Sohmer, J.*, Knecht, M., Mejia, M. C., & Kitsantas, P. (2025). Period Poverty and Barriers to Menstrual Health Equity in U.S. Menstruating College Students: A Scoping Review. *International Journal of Environmental Research and Public Health*, 22(4), 619. <https://doi.org/10.3390/ijerph22040619>
25. Sohmer, J.*, Lobaina, D.*, Faliv, M.*, Lotharius, K.*, Jhumkhawala, V.*, Fridman, S.*, Follin, T., & **Sacca, L.** (2025). Assessing the Scope of Evidence-Based Interventions and Policy Mobilization Efforts on CMV Infection Prevention in U.S. Pregnant Women: A Scoping Review. *Women*, 5(2), 11. <https://doi.org/10.3390/women5020011>
26. Eldawy, N.*, Kaleem, S.*, Jhumkhawala, V.*, Okwaraji, G.*, Jimenez, S.*, Sohmer, J.*, Mejia, M., Kitsantas, P., **Sacca, L.** The Role of Sociodemographic Characteristics and Social Determinants of Health in Influencing the Perceived Quality of Patient–Provider Communication. *Nurs. Rep.* 2025, 15, 113. <https://doi.org/10.3390/nursrep15030113>
27. Dean, A.*, Eldawy, N.*, Mendonca, J.*, Lobaina, D.*, Zerrouki, Y.*, Okwaraji, G.*, Jhumkhawala, V.*, Burgoa, S.*, Ejezie, C. L., Kitsantas, P., Mejia, M., & **Sacca, L.** (2025). HPV-Related Knowledge and Impact of Patient–Provider Communication on HPV-Associated Cervical Cancer Awareness and Pap Smear Completion in US Women Aged 21–65 Years. *Cancers*, 17(7), 1188. <https://doi.org/10.3390/cancers17071188>
28. Peters, D.*, Kalathoor, J.*, Phillips, C., Andric, B., **Sacca, L.** Examining Benefits and Limitations to Treatment Outcome Measurement Tools for Substance Use Disorder: A Scoping Review. *Therapeutics*.
29. Snell, A.*, Lobaina, D.*, Densley, S.*, Moothedan, E.*, Baker, J.*, Al Abdul Razzak, L.*, Garcia, A.*, Skibba, S.*, Dunn, A.*, Follin, T., Mejia, M., Kitsantas, P., **Sacca, L.** (2025). Disparities in Postoperative Pain Management: A Scoping Review of Prescription Practices and Social Determinants of Health. *Pharmacy*.
30. Evans, G., **Sacca, L.**, Markham, C., Schultz, K., McCurdy, S., Peskin, M., & Tingey, L. (2025). A Systematic Review of Trauma-Informed Sexual Health Education Interventions for Adolescents and Young Adults. *International Journal of Sexual Health*.
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70. Nabulsi, D., Ismail, H., Abou Hassan, F., **Sacca, L.** Honein-AbouHaidar, G., & Jomaa, L. (2020). Voices of the vulnerable: Exploring the livelihood strategies, coping mechanisms and their impact on food insecurity, health and access to health care among Syrian refugees in the Beqaa region of Lebanon. *PloS one*, 15(12), e0242421. <https://doi.org/10.1371/journal.pone.0242421>
71. **Sacca, L.** Markham, C., & Fares, J. (2020). Using Intervention Mapping to Develop Health Education and Health Policy Components to Increase Breast Cancer Screening and Chemotherapy Adherence Among Syrian and Iraqi Refugee Women in Beirut, Lebanon. *Frontiers in public health*, 8, 101. <https://doi.org/10.3389/fpubh.2020.00101>
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PUBLICATIONS UNDER REVIEW

1. Burgoa, S.*, Karki, M.*, Lobaina, D.*, Okwaraji, G.*, Knecht, M., **Sacca, L.** (2024). Adoption of Implementation Strategies in Educational and Outreach Efforts to Decrease Period Poverty and Menstrual Health Equity in U.S. Menstruating College Students: A Scoping Review. *Women & Health*.
2. Kaleem, S.*, Dunn, A.*, Eldawy, N.*, Mendonca, J.*, Dean, A.*, Densley, S.*, **Sacca, L.** (2025). Impact of Mental and Emotional Health of Primary Caregiver on Childhood Anxiety and Depression using the NSCH Survey. *Maternal and Child Health*.
3. Phillips, C., Peters, D.*, Kalathoor, J.*, **Sacca, L.**, Mejia, M., Andric, B. Measuring Functional Recovery in Substance Use Disorder: Retrospective analysis of Five Years of data from a Community-Based Program using the Brief Addiction Monitor. *Addiction Science and Clinical Practice*.
4. Dasilva, G.*, **Sacca, L.**, Starr, A.*, Campson, A.*, Ernst, K.*, Lobaina, D.*, Jhumkhawala, V.*, Frishman, M.* Impact of Menstrual Health Status on Mental Health and Food Insecurity among US College-Aged Women. *Women's Health*.
5. Lewis, K.*, Llorens, C.*, Reis, V.*, Abraham, I.*, Soto, P.*, Knopf, E.*, Jimenez, S.*, Rao, M.*, **Sacca, L.** Caregiver Social Determinants and Mental Health Influential Factors for the Development of Adolescent Eating and Body-Image Related Behaviors in the United States. *Child Psychiatry and Human Development*.
6. Kamm, C.*, Eldawy, N.*, Lewis, K.*, Abraham, I.*, Miron, E.*, Decker, M.*, Zerrouki, Y.*, **Sacca, L.** The Role of US Adult Cancer Risk Perceptions and Knowledge on Nutritional Behaviors and Alcohol Intake. *Societies*.
7. Srivastav, M.*, Etzel, M.*, Decker, M.*, Kamm, C.*, Lewis, K.*, Miron, E.*, Reis, V.*, **Sacca, L.** Trends in Skin Cancer in the Sunshine State: An Ongoing Concern for Older US Adults. *Journal of Geriatric Oncology*.
8. Branstetter, B.*, Clelland-Goddard, A.*, Sagar, A.*, **Sacca, L.** Ticks in the Tropics: Challenging the Myth of a Lyme-less Florida. *Public Health Reports*.
9. Decker, M.*, Kamm, C.*, Burgoa, S.*, Rao, M.*, Mejia, M., Ramdin, C., Dean, A.*, Nasr, M., Nelson, L., **Sacca, L.** Qualitative Assessment of ChatGPT Responses to Substance Use Disorder Treatment Questions Compared to National Health Guidelines. *Drug and Alcohol Dependence*.
10. **Sacca, L.**, Mejia, M., Dunn, A.*, Kamm, C.*, Decker, M.*, Lewis, K.*, Starr, A.*, Campson, A.*, Ernst, K.*, Dasilva, G.* Association of Food Insecurity with Depression Severity, Period Poverty, and Access to Healthcare Among College-Aged Women in South Florida. *Nutrition*.
11. Kosseifi, G.*, Llorens, C.*, Reis, V.*, Dunn, A.*, Rao, M.*, **Sacca, L.** National Prevalence, Severity, and Access to Treatment Rates for US Children with ADHD. *Child and Family Studies*.

12. Wilson, C., Aljadani, M.*, Arshad, S.*, Mendonca, J.*, Kaleem, S.*, Pirrone, N.*, Follin, T., Chiang-Hanisko, L., **Sacca, L.** A Scoping Review of PCOS Management in Perimenopausal and Menopausal Women Through Lifestyle and Complementary Therapies. *Journal of Obstetric, Gynecologic & Neonatal Nursing*.
13. **Sacca, L.**, Lobaina, D.*, Knopf, E.*, Okwaraji, G.*, Dunn, A.*, Burgoa, S.*, Brinzo, P.*, Zerrouki, Y.*, Knecht, M., Kitsantas, P. Exploring Usability and Knowledge of Screening Tools for Cannabis Usage in Pregnant and Postpartum Women: A Scoping review. *Substance Use and Misuse*.

ABSTRACTS AND ORAL PRESENTATIONS

1. Starr, A.*, Dasilva, G.*, Soto, P.*, Ernst, K., Campson, A.*, Puvvala, A.*, Srivastav, M.*, Knopf, E.*, Zerrouki, Y.*, Okwaraji, G.*, Densley, S.*, Knecht, M.*, & **Sacca, L.** (2025). A scoping review of barriers experienced by underserved and rural maternal populations in accessing epidural analgesia in the United States. *AMA Poster Showcase, Washington D.C (October 2025)*
2. Sohmer, J.*, Lobaina, D.*, Faliv, M.*, Lotharius, K.*, Jhumkhawala, V.*, Fridman, S.*, Follin, T., & **Sacca, L.** (2025). Assessing the Scope of Evidence-Based Interventions and Policy Mobilization Efforts on CMV Infection Prevention in U.S. Pregnant Women: A Scoping Review. *AAO-HNSF 2025 Annual Meeting & OTO Expo (October 2024)*.
3. Knecht, M., Follin, T., Perumareddi, P. & **Sacca, L.** (2025, May) A Researcher, a Faculty Member, and Two Librarians Walk into an Evidence Synthesis Services Collaboration.... *Short Talk presented at the Empirical Librarians Conference, online*.
4. Mejia, M., **Sacca, L.**, Caceres, J. (2025). Better Together: Collaborative Approaches to Population Health in Medical Education. *2025 Joint SGEA/SGSA/SOSR Regional Conference*.
5. Knecht, M., Follin, T. Perumarreddi, P, **Sacca, L.** Enhancing Research Collaboration: The Role of Evidence Synthesis Services in Medical Education. *2025 Joint SGEA/SGSA/SOSR Regional Conference*.
6. Kaleem, S.*, Dunn, A.*, Eldawy, N.*, Mendonca, J.*, Dean, A.*, Densley, S.*, **Sacca, L.** (2025). Impact of Mental and Emotional Health of Primary Caregiver on Childhood Anxiety and Depression using the NSCH Survey. *Association of Maternal and Child Health Programs 2025 Conference. (Accepted)*
7. Follin, T., Knecht, M., Perumareddi, P., & **Sacca, L.** (2024, December) A Researcher, a Faculty Member, and Two Librarians Walk into an Evidence Synthesis Services Collaboration.... *Lightning Round presentation at the South Florida Health Sciences Library Consortium (SFHSLC) Winter Meeting, online*.
8. Perumareddi, P., Knecht, M., Follin, T., & **Sacca, L.** (2024, November) Mentoring students on evidence synthesis research projects. *Continuing Medical Education Lunch & Learn Presentation for the Florida Atlantic University Charles E. Schmidt College of Medicine, Boca Raton, FL*.
9. Dunn, A.*, Brinzo, P.*, Kaleem, S.*, Etzel, M.*, Lent, A.*, Mendonca, J.*, Jhumkhawala, V.*, & **Sacca, L.** *Behavioral and Dietary Factors in Childhood Type II Diabetes: A Trends Analysis. Palm Beach County Medical Society Poster Symposium 2024. (Accepted)*
10. Chandrasekaran, R.*, Eng, E.*, **Sacca, L.** Assessing the Global Impact of NGOs in Decreasing Healthcare Disparities in Vulnerable Communities: A Scoping Review. *FMA 2024. (Accepted)*
11. Sohmer, J.*, Lobaina, D.*, Rao, M.*, Jhumkhawala, V.*, Baker, J.*, Fridman, S.*, **Sacca, L.** Health Disparities and Health Literacy Challenges Experienced by Individuals with Hearing Loss: A Scoping Review. *2024 Annual Meeting & OTO Expo. (Accepted)*
12. Lobaina, D.*, Burgoa, S.*, Lotharius, K.*, Moothedan, E.*, Gilmore, N.*, Xie, J.*, Mohler, R.*, Scharf, G.*, Knecht, M., Kitsantas, P., **Sacca, L.** (2024). Promoting Artificial Intelligence for Global Breast Cancer Risk Prediction and Screening in Adult Women: A Scoping Review. *FMA 2024. (Accepted)*
13. Lee, J.*, Peters, D.*, Ash Smith, N.*, Shugar, S.*, **Sacca, L.** (2024). Trends in Psychiatric Emergency Care, Hospitalizations, and Access to Mental Health Professionals in Florida. *FMA 2024. (Accepted)*
14. Swickley, T.*, Bandi, R*., **Sacca, L.** Implementation of A Pilot Virtual Reality Curriculum for Underrepresented Middle and High School Students. *HGHC 2024. (Accepted)*
15. Bhoda, K.*, Burgoa, S.*, Zerrouki, Y.*, Lobaina, D.*, Jhumkhawala, V.*, Knecht, M., Kitsantas, P., **Sacca, L.** Exploring Menstrual Health and Hygiene Curriculums and Associated Interventions in U.S. Public Schools: A Scoping Review. *CUGH 2024 (Accepted)*.
16. Rao, M.*, Densley, S.*, Marciniak, A.*, Burgoa, S.*, Zerrouki, Y.*, Okwaraji, G.*, Lobaina, D.*, Jhumkhawala, V.*, Knecht, M., Kitsantas, P., **Sacca, L.** Dissemination and Implementation Science Frameworks and Strategies to increase breast cancer screening and sufficient follow-up for affected women in the United States: A Systematic Review. *CUGH 2024 (Accepted)*.

17. Jhumkhawala, V.*, Lobaina, D.*, Okwaraji, G.*, Zerrouki, Y.*, Burgoa, S.*, Marciniak, A.*, Densley, S.*, Rao, M.*, Diaz, D.*, Knecht, M., **Sacca, L.** Examining Social Determinants of Health as Factors Contributing to Health Inequities in Cancer Screening and Treatment Among Underserved U.S. Women: A Scoping Review. *CUGH 2024 (Accepted)*.
18. Choi, S., & **Sacca, L.** Invisible Suffering: Syrian Women and Children Need Your Attention. *6th Annual Chapman Regional Conference (Accepted)*.
19. Okwaraji, G.*, Marciniak, A.*, Zerrouki, Y.*, & **Sacca, L.** Social Determinants of Health Predictors of Breast Cancer Screening Behaviors among U.S. Adult Women. *6th Annual Chapman Regional Conference (Accepted)*.
20. Meknarit, S.*, Elshaer, Z.*, Castro, M.A.*, Al Abdul Razzak, L.*, Handa, I.*, Rootes, A. **Sacca, L.** Pathway to Medical School: Increasing Healthcare Career Engagement of Underrepresented Students. *2023 Association of Schools Advancing Health Professions*.
21. Lobaina, D.*, Rao, M.*, Burgoa, S.*, Jhumkhawala, V.*, Zapata, S., Isaac, M., & Medina, S., **Sacca, L.** Using Patient-Centered Dissemination and Implementation Frameworks and Strategies in Palliative Care Settings for Improved Quality of Life and Health Outcomes: A Scoping Review. *2023 Association for Academic Minority Physicians (AAMP)*. **NIH award \$1200 for presenting student**.
22. Lee, J.*, Peters, D.*, Vest, J.*, **Sacca, L.** Comparing Pre- and Post-COVID-19 Unmet Substance Abuse Treatment Needs in U.S. Young Adults: A Retrospective Cross-Sectional Study. *American Medical Association Symposium*.
23. Lahiri, S.*, **Sacca, L.**, Forouhi, M.*, Vartany, C.*, Jacomino, M., Luck, G. Using the Theory of Planned Behavior to Predict HPV Vaccination Intentions and HPV Vaccine Completion Rates Among Medical College Students: A Cross-sectional Study. *FAU Research Day 2023*.
24. Lahiri, S.*, **Sacca, L.**, Forouhi, M.*, Vartany, C.*, Jacomino, M., Luck, G. Using the Theory of Planned Behavior to Predict HPV Vaccination Intentions and HPV Vaccine Completion Rates Among Medical College Students: A Cross-sectional Study. *FAU Research Day 2023. Baptist Health Academic Conference*.
25. **Sacca, L.**, Bhoite, P., Clarke, R., Garba, N. Predicting COVID-19 Vaccine Hesitancy Among US Adults Using Classification Machine Learning Algorithms and the Household Pulse Survey. *APHA 2022 (ACCEPTED)*
26. **Sacca, L.**, Garba, N.A., Clarke, R.D., Maroun, V., & Brown, D.R. Using Community-Based Implementation Frameworks and Strategies to Address Food Insecurity during the COVID-19 Pandemic: A Scoping Review. *GLOBAL HEALTH PRACTITIONER CONFERENCE 2022*.
27. **Sacca, L.**, Bhoite, P., Clarke, R.D., & Garba, N.A. Comparing Parental Vaccine Hesitancy and Socio-Demographics between COVID-19 and Human Papilloma Virus Vaccine: Lessons Learned. *APHA 2022 (ACCEPTED)*
28. Garba, N.A., **Sacca, L.**, Clarke, R.D., Bhoite, P., Buschman, J., Oller, V., Napolitano, N., Hyppolite, S., LaCroix, S., Archibald, A., Hamilton, O., Ash, T., & Brown, D. A Collaborative Food Delivery Response to Address Food Insecurity in Underserved South Florida's Households during the COVID-19 Pandemic (2022). *2022 RCMI Consortium National Conference March 16-18, 2022*.
29. **Sacca, L.**, Markham, C., Shegog, R., Hernandez, B., Peskin, M., Craig-Rushing, S., Jessen, C., Lane, T. Barriers, frameworks, and mitigating strategies influencing the dissemination and implementation of health promotion interventions in indigenous communities: A scoping review. *14th Annual Conference on the Science of Dissemination and Implementation Virtual Conf*. Dec. 14-16, 2021.
30. Markham, C., Craig Rushing, S., Manthei, J., Singer, M., Jessen, C., Thomas, J., Peskin, M., Hernandez, B., **Sacca, L.**, Luna-Meza, C., Shegog, R. Healthy Native Youth Implementation Toolbox: An Online Decision Support System to Increase Adoption and Implementation of Culturally Relevant Sexual Health Education in Indigenous Communities. *IUHPE_Montreal, 2022*.
31. **Sacca, L.**, Markham, C., & Fares, J. (April 2020). Using Intervention Mapping to Develop Health Education and Health Policy Components to Increase Breast Cancer Screening and Chemotherapy Adherence Among Syrian and Iraqi Refugee Women in Beirut, Lebanon. *Research Day, UTHealth Houston*.
32. **Sacca, L.**, Chemaly, R., Batista, M., El Haddad, L. et al. (April 2019). O1043 Outcomes of influenza infection in vaccinated and non-vaccinated patients with cancer. *29th ECCMID Amsterdam, Netherlands*.
33. **Sacca, L.**, Chemaly, R., Batista, M., El Haddad, L. et al. (February 2019). 525 - Impact of Influenza Vaccination on Outcomes of Influenza Infections in Immunocompromised Patients. *2019 TCT Transplantation and Cellular Therapy Meetings*.

34. **Sacca, L.** (May 2017). Verbal Abuse: An Underlying Factor in the Development of Eating Disorders- An overview of the mental illness among young females in Lebanon. *University of Balamand Public Health Research Day*.

GRANT ACTIVITY

- **2025-2030 Substance Abuse and Mental Health Services Administration (SAMHSA):** Rising Strong: Empowering Youth for Substance-Free Futures. **PD: Maria Mejia, Role: Program Evaluator (FTE: 50%), Funded, \$3,000,000**
- **2024-2025 Research Grants Program of the Consortium for Medical Marijuana Clinical Outcomes Research,** Medical Cannabis Use among Pregnant and Non-Pregnant Women of Reproductive Age **PI: Panagiota Kitsantas, funded \$75,000. Role: Co-I.**
- **2024-2025 National Institutes of Health (NIH), R03:** Comorbidities in Pregnant Women with Prenatal Alcohol Exposure and Adverse Birth Outcomes. **PI: Panagiota Kitsantas, scored percentile 1.0 and impact factor of 17. Role: Co-I.**
- **2019-2021 NIH/NIMHD 1R21MD013960-01A1 Native iCHAMPS: An Innovative Online Decision Support System for Increasing Implementation of Effective Sexual Health Education in Tribal Communities.** **Goal:** To assess the feasibility and impact an innovative online decision support system Native iCHAMPS, to facilitate the implementation of culturally relevant effective sexual health education interventions in Native communities. **Joint PI: C. Markham, R. Shegog, and M. Peskin. Role: Project Coordinator. (Completed)**
- **2019-2020 Cancer Prevention and Research Institute of Texas (CPRIT) PP170046: Using Social Marketing and Mobile School-Based Vaccination Clinics to Increase HPV Vaccination Uptake in High-Risk Geographic Areas. PI: Paula Cuccaro. Role: Graduate Research Assistant. (Completed)**

FAU STUDENT MENTORSHIP

Research Distinction Track

- Ayden Dunn, Class of 2027
- Sahar Kaleem, Class of 2027

Class of 2026:

- Diana Lobaina (**Summer Fast Track 23'- ongoing**)
- Vama Jhumkhawala (**Summer Fast Track 23'- ongoing**)
- Adeife Marciniak (**Summer Fast Track 23'**)
- Goodness Okwaraji (**Summer Fast Track 23'- ongoing**)
- Sara Burgoa (**Summer Fast Track 23'- ongoing**)
- Meera Rao (**Summer Fast Track 23'- ongoing**)
- Yasmine Zerrouki (**Summer Fast Track 23'- ongoing**)
- Sebastian Densley (**Summer Fast Track 23'- ongoing**)
- Joshua Sohmer
- Shaima Arshad
- Esin Bulut
- Sophie Kelly
- Emma Eng
- Kathryn Lotharius
- Elijah Moothedan
- Ryan Mohler
- Gabriel Scharf
- Justin Xie
- Ritesh Chandrasekaran
- Soojung Choi
- Tomas Swickley

- Rishiraj Bandi
- Julianne Baker
- Jared Kushner
- Jake Goguen
- Madison Tharp
- Ashlee Li
- Maria Gerges
- Stacey Tevelev
- Michelle Faliv
- Brian Branstetter
- Allan Clelland-Goddard
- Casey Craig
- Niko Linzer
- Pranav Meka

Class of 2027:

- Madison Etzel (**Summer Fast Track 24'- ongoing**)
- Nada Eldawy (**Summer Fast Track 24'- ongoing**)
- Ayden Dunn (**Summer Fast Track 24'- ongoing**)
- Adrienne Dean (**Summer Fast Track 24'- ongoing**)
- Paige Brinzo (**Summer Fast Track 24'- ongoing**)
- Jennifer Mendonca (**Summer Fast Track 24'- ongoing**)
- Samantha Jimenez (**Summer Fast Track 24'- ongoing**)
- Sahar Kaleem (**Summer Fast Track 24'- ongoing**)
- Austin Lent (**Summer Fast Track 24'- ongoing**)
- Alexandra Matarazzo
- Christina Sherman
- John Dunn
- Elisheva Knopf
- Vartiter Vardanyan
- Christopher Machado
- Daniel Colome
- Nathan Gilmore
- Ryan Beaton
- Shane Skibba

Class of 2028:

- Alexandra Campson (**Summer Fast Track 25'- ongoing**)
- Alana Starr (**Summer Fast Track 25'- ongoing**)
- Gabriella Dasilva (**Summer Fast Track 25'- ongoing**)
- Kayla Ernst (**Summer Fast Track 25'- ongoing**)
- Kendell Lewis (**Summer Fast Track 25'- ongoing**)
- Christine Kamm (**Summer Fast Track 25'- ongoing**)
- Isabella Abraham (**Summer Fast Track 25'- ongoing**)
- Megha Srivastav (**Summer Fast Track 25'- ongoing**)
- Avanthi Puvvala (**Summer Fast Track 25'- ongoing**)
- Erik Miron (**Summer Fast Track 25'- ongoing**)
- Victoria Reis (**Summer Fast Track 25'- ongoing**)
- Cheila Llorens (**Summer Fast Track 25'- ongoing**)
- Pedro Soto (**Summer Fast Track 25'- ongoing**)
- Morgan Decker (**Summer Fast Track 25'- ongoing**)
- Darian Peters
- Jacob Kalathoor

- Silvia Zervos
- Clarissa Portocarrero
- Kylie Andonian
- Taylor-Rose Connors
- Anna Kate Gaskin

Medical Student Graduates:

- Sarinya Meknarit (2025)
- Miguel Antonio Castro (2025)
- Ishan Handa (2025)
- Lama Al Abdul Razzak (2025)
- Zeynep Elshaer (2025)
- Monika Karki (2025)
- Samantha Hicks (2025)
- Elizabeth Hayes (2025)
- Sravya Reddy Gurivireddygar (2024)
- Alexandra Garcia (2025)

EDITORIAL AND REVIEWER ACTIVITY

- **Editorial Service**
2022– Special Issue Topic Coordinator. Period Poverty. *Frontiers in Reproductive Health*.
2022-present. Editorial Board. *PLOS ONE*.
2025-present. Editor. *Discover Global Society*.
- **Article Reviewer**
Australian Journal of Primary Health
Journal of International Medical Research
BMC Health Services Research
Preventive Medicine
Journal of Women's Health
Frontiers in Public Health
International Journal of Environmental Health
Implementation Science
PLOS ONE
BMC Women's Health
Medicina
Journal of Behavioral Health
Medicina
Healthcare
Vaccines
BMJ Public Health
Health Science Reports
Pediatric Reports
BMC Public Health

CONFERENCE PRESENTATIONS, WEBINARS, AND CONSULTANCIES

- 2025 2025 Joint SGEA/SGSA/SOSR Regional Conference (**Presenter**)
- *The Power of Partnership: Innovation and Inspiration in Critical Conversations* (**Presenter**)
- *Equity and Inclusion Conference 2023 (Speaker on the Psychosocial Issues Panel)*
- *Dissemination & Implementation Methods: Identifying Priority Implementation Strategies for Native Communities* (**Speaker**)
- *FAU Spring 2023 Office of Undergraduate Research and Inquiry (OURI) Research Intensive Faculty*

Learning Community (Consultant)

- *FIU Research Centers in Minority Institutions (RCMI) (Consultant)*

COMMUNITY SERVICE

2014-2019

- Health Outreach in the Middle East Public Health Volunteer
- Fundraising Volunteer for the Health Outreach in the Middle East (HOME) Gala
- MD Anderson Boot Walk Against Cancer
- UNICEF WASH and Hygiene Campaign at the Austin City Limits Music Festival
- Maronite Youth Association Volunteer (MYA) at NAM Convention, Houston-Texas
- Volunteer at Book'em-Nashville, Tennessee
- Volunteer at the Houston Food Bank
- Vice-President for the 4D Club (Undergraduate Health Promotion Group)
- LIONS Club Volunteer at the Annual Christmas Charity Event
- Secretary of Healthy Minds Club (College Public Health Group)

SKILLS

COMPUTER SKILLS: Microsoft Word, Excel, PowerPoint, Outlook (Advanced), STATA, and RED CAP

LANGUAGES: Fluent in English, Arabic, and French/ Beginner in Spanish

CURRICULUM VITAE

Wen Shen, Ph.D.

INSTITUTIONAL ADDRESS

Department of Biomedical Science
Charles E Schmidt College of Medicine
Florida Atlantic University
Rm. 229, Bldg. BC-71
777 Glades Road
Boca Raton, FL 33431

Telephone: (561) 297-0628
Email: wshen@health.fau.edu

EDUCATION

- 1999 Ph.D. in Physiology and Biophysics, School of Medicine and Biomedical Science,
State University of New York (SUNY) at Buffalo, New York
- 1983 B.S. in Electrical Engineering, College of Engineering Science, Shanghai University,
P.R. China

ACADEMIC APPOINTMENTS

- 2023-present Professor, Department of Biomedical Science, College of Medicine,
Florida Atlantic University (FAU)
Affiliate faculty, Professor, Brain Institute, FAU
Affiliate faculty, Professor, Center for Complex System and Brain Science, FAU
- 2012-2023 Associate professor (tenured), Department of Biomedical Science,
College of Medicine, FAU
Affiliate faculty, Associated Professor, Brain Institute, FAU
Affiliate Associated Professor, Center for Complex System and Brain Science, FAU
- 2010-2014 Summer Visiting Investigator, Whitman Center, the Marine Biological Laboratory
(MBL), Woods Hole, Massachusetts.
- 2007-2012 Associate Professor (tenured), College of Biomedical Science, FAU
- 2007-2010 Affiliated faculty, Associate Professor, Integrative Biology and Neuroscience,
Max Plank Florida Institute (MPFI)-FAU
- 2003-2007 Assistant Professor (tenure track), College of Biomedical Science, FAU
Affiliate faculty, Assistant Professor, Department of Physiology and Biophysics,
University of Miami Miller School of Medicine
- 1999-2003 Research Assistant Professor, Department of Physiology and Biophysics,
State University of New York (SUNY) at Buffalo, Buffalo, New York
- 1998-1999 Research Associate, Department of Physiology and Biophysics, SUNY at Buffalo

1993-1998	Graduate Research Assistant, Department of Physiology and Biophysics, SUNY at Buffalo, Buffalo, New York.
1988-1993	Research Specialist, Shanghai Institute of Physiology, Chinese Academy of Science, Shanghai, PR China
1983-1988	Engineer, Research Institute of Environmental Control and Protection, Shanghai Municipal Bureau of Chemical Industry, Shanghai, PR China

MEMBERSHIPS

2003-present Member of the Society for Neuroscience

1994-present Member of the Association for Research in Vision and Ophthalmology

RESEARCH GRANTS

Current Grant

2021-2025	NSF research grant, IOS-2126141, PI “The Neural Mechanism Underlying Visual Adaptation”

Grants Completed

2017- 2021	National Institute of Health (NIH) R15, Co-Investigator “Activators of MsrA and MsrB: potential use for diseases of the retina”
2017-2019	Collaborative project between FAU and the Sancilio Co., Major Collaborator “Evaluation of potential role of DHA in slow down of retinitis pigmentosa progression in mouse model”
2017-2018	FAU Brain Institute Pilot Award, (PI) “The role of Na-K-2Cl co-transporter in light adaptation”
2013-2015	Neuroscience Priority Research Award, FAU, (PI) “Identification and Characterization of a Novel Taurine-Sensitive Receptor”
2010-2015	NSF research grant, IOS-1021646 (PI) “The function of glycine in modulation of cone visual sensitivity”
2006-2007	No.1180-074 (PI), New project development award, FAU Title: Neuroprotection by Growth Factor in Retina”
2002-2008	NIH, NEI, R01 grant EY14161 (PI) Title: “Function of Interplexiform Cells”
2001-2003	GA01032 (PI), Grant-in-Aid Fight for Sight, Prevent Blindness of America Title: “Neuroprotective effect of TGF- β Superfamily of Growth Factors in Human Retin”
2000-2001	PD20047 (PI), Postdoctoral research fellowship Fight for Sight, Prevent Blindness of America

Title: “Kainate-Preferring Glutamate Receptors in Human Retinal Function and Disease”

PEER-REVIEWED PUBLICATIONS

1. Yufei Liu, Nick Libian, Zheng Jiang, **Wen Shen** (2025) Contribution of pannexin channels to afterimage signals in the amphibian retina. *AJP-Cell Physio.* 329(2):c355-c365. <https://doi.org/10.1152/ajpcell.00028.2025>
2. Matthew Nguyen, James Sullivan, **Wen Shen** (2023) Retinal vascular remodeling in photoreceptor degenerative disease. *Exp Eye Res.*, 234: 109566. <https://doi.org/10.1016/j.exer.2023.109566>.
3. Jigar Pravinchandra Modi, **Wen Shen**, Janet Menzie-Sudaram, Hongyuan Xu, Chun-Hua Lin, Rui Tao, Howard Prentice, John Schloss, Jang-Yen JY Wu (2023) The Role of NMDA Receptor Partial Antagonist, Carbamathione, as a Therapeutic Agent for Transient Global Ischemia. *Biomed.*, 11:1885. <https://doi.org/10.3390/biomedicines11071885>.
4. Baoqin Li, Sylvia Gografe, Alcira Munchow, Miguel Lopez-Toledano, Zhuo-Hua Pan, **Wen Shen** (2019) Sex-related differences in the progressive retinal degeneration of the rd10 mouse. *Exp Eye Res.*; 187: 107773. <https://doi.org/10.1016/j.exer.2019.107773>
5. **Wen Shen**, Changlong Nan, Peter T Nelson, Harris Ripps & Malcolm M Slaughter (2017) GABA(B) receptor attenuation of GABA(A) currents in neurons of the mammalian central nervous system. *Physiol Reports.* 5(6) e13129 DOI: 10.14814/phy2.13129.
6. Yan Xiaochen, Bo Pan, Tiewei Lv, Lingjuan Liu, Jing Zhu, **Wen Shen**, Xupei Huang, Jie Tian (2017) Inhibition of histone acetylation by curcumin reduces alcohol-induced fetal cardiac apoptosis. *J. Biomed. Sci.*; 24(1):1. doi: 10.1186/s12929-016-0310-z.
7. Liu Xiaoyan., Lei Zhang, Daniel Pacciulli, Jianquan Zhao, Changlong Nan, **Wen Shen**, Junjun Quan, Jie Tian, Xupei Huang (2016) Restrictive cardiomyopathy caused by troponin mutations: application of disease animal models in translational studies. *Front. Physiology*, 7:629, doi: 10.3389/fphys.2016.00629.
8. Xiaoqin Wang, Zhengyu Zhang, Gang Wu, Changlong Nan, **Wen Shen**, Yimin Hua and Xupei Huang (2016) Green tea extract catechin improves internal cardiac muscle relaxation in RCM mice. *J. Biomed. Sci.* 23:51, DOI 10.1186/s12929-016-0264-1
9. J Yang, CL Nan, H Ripps, **W Shen** (2015) Destructive Changes in the Neuronal Structure of the FVB/N Mouse Retina. *PLoS ONE* 10(6): e0129719.doi:10.1371/journal.pone.0129719. PMID: PMC4475023.
10. Z Jiang, JN Yang, LA Purpura, YF Liu, H Ripps, **W Shen** (2014) Glycinergic feedback enhances synaptic gain in the distal retina. *J Physiol. (London)*, 592 (7) 1479-1492. PMID: PMC3979606.
11. I Anastassov, **W Shen**, H Ripps, RL Chappell (2013) Zinc modulation of calcium activity at the photoreceptor terminal: a calcium imaging study. *Exp Eye Res*, 112:37-44. PMID: PMC3700670

12. **W Shen**, LA Purpura, BQ Li, CL Nan, IJ Chang and H Ripps (2013) Regulation of synaptic Transmission at the photoreceptor terminal: A novel role for the cation-chloride cotransporter NKCC1. *J Physiol. (London)*, 591:133-147. PMID: PMC3630777
13. S Bulley, YF Liu, H Ripps, and **W Shen** (2013) Taurine activates delayed rectifier KV channels via a metabotropic pathway in retinal neurons. *J Physiol. (London)*, 591:123-132. PMID: PMC3630776
14. M JM Rowan, S Bulley, L Purpura, H Ripps and **W Shen** (2012) Taurine regulation of voltage-gated channels in retinal neurons. Chapter 7 in “Taurine 8” Book. PMID:23392926
15. Z Jiang, S Bulley, J Guzzone, H Ripps and **W Shen** (2012) The modulatory role of taurine in retinal neurons. Chapter 5 in “Taurine 8” Book. PMID:23392924
16. H Ripps and **W Shen** (2012) Taurine: An exceedingly ‘Essential’ amino acid. *Mol. Vision*. 18:2673-2686. PMID:PMC3501277
17. M JM Rowan, H Ripps and **W Shen** (2010) Fast glutamate uptake via EAAT2 shapes the cone-mediated light offset response in bipolar cells. *J Physiol.(London)*, 588(20): 3943-3956. PMID: PMC3000584
18. S Bulley and **W Shen** (2010) Reciprocal regulation between taurine and glutamate response via Ca²⁺ -dependent pathways in retinal third-order neurons. *J Biomed Sci*. 17 (Suppl I):55. (special issue). PMID: PMC2994392
19. Z Jiang and **W Shen** (2010) Role of neurotransmitter receptors in mediating light-evoked response of retinal interplexiform cells. *J Neurophysiol*. 103:924-933. PMID: PMC2822699
20. **W Shen**, Z Jiang and BQ Li (2008) Glycinergic input induces the synaptic facilitation in amphibian photoreceptors. *J Biomed Sci*. 15: 743-754.
21. BQ Li, KA McKernan and **W Shen** (2008) Spatial and temporal distribution patterns of Na-K-2Cl⁻ cotransporter in adult and developing mouse retinas. *Vis. Neurosci.* 25:109-123.
22. Z Jiang, BQ Li, F Jursky and **W Shen** (2007) Differential distribution of glycine transporters in Müller cells and neurons in amphibian retinas. *Vis. Neurosci.* 24:157-168.
23. BQ Li and **W Shen** (2007) Cation Cl⁻ cotransporters in the dendrites of goldfish bipolar cells. *NeuroReport* 18(7):625-630.
24. **W Shen** and Z Jiang (2007) Characterization of glycinergic synapse in vertebrate retina. *J Biomed. Sci*. 14:5-13.
25. **W Shen** (2005) Repetitive light stimulation inducing glycine receptor plasticity in the retinal neurons. *J Neurophysiol*. 94:2231-2238
26. **W Shen**, S.G. Finnegan, P. Lein, S. Sullivan, M.M. Slaughter and D Higgins (2004) Bone morphogenetic proteins regulate ionotropic glutamate receptors. *Europ J Neurosci*. 20:2031-2037.
27. **W Shen** and S.G Finnegan, M.M Slaughter (2004) Glutamate receptor subtypes in human retinal horizontal cells. *Vis. Neurosci*. 21(1): 89-95.
28. **W Shen** and M.M. Slaughter (2002) A non-excitatory paradigm of glutamate toxicity. *J Neurophysiol*. 87:1629-1634.

29. **W Shen** and M.M. Slaughter (2001) Multireceptor GABAergic regulation of synaptic communication in amphibian retina. *J Physiol.(London)*, 530(1):55-67.
30. **W Shen** and M.M. Slaughter (1999) Internal calcium modulates apparent affinity of metabotropic GABA receptors. *J Neurophysiol.* 82:3298-3306.
31. **W Shen** and M.M. Slaughter (1999) Metabotropic GABA receptors facilitate L-type and inhibit N-type calcium channels in single salamander retinal neurons. *J Physiol.(London)*, 516(3):711-718.
32. **W Shen** and M.M. Slaughter (1998) Metabotropic and ionotropic glutamate receptors regulate calcium channel currents in salamander retinal ganglion cells. *J Physiol.(London)*, 510(3): 815-828.
33. J. Zhang, **W Shen** and M.M. Slaughter (1997) Two metabotropic GABA receptors differentially modulated calcium currents in retinal ganglion cells. *J Gen. Physiol.* 110:45-58.
34. X.L.Yang, T.X.Fan and **W Shen** (1994) Effects of prolonged darkness on light responsiveness and spectral sensitivity of cone horizontal cells in carp retina in vivo. *J Neurosci.* 14(10):326-334.

PROFESSIONAL SERVICE

Journal Reviewer for

Visual Neuroscience

Vision Research

Experimental Eye Research

European Journal of Neuroscience

Journal of Physiology

ISRN – Physiology (Editorial Board)

Journal of Neurosignal

JSM Cell (Editorial Board)

Journal of Neuroscience

Journal of Neurophysiology

Journal of Neurology

PLoS One

Science Report

IOVS

Journal of Biomedical Science

Neuroscience

Synapse

Grant Reviewer

National Science Foundation (NSF)

TEACHING EXPERIENCES

Mentoring Post-Doctoral Fellows

Dr. Baoqin Li (2004-2007)	Research projects: Chloride transporters in retinal function” and “Neuroprotection against glaucoma disease”
Dr. Jinnan Yang (2012-2015)	Research project: Role of NKCC transporter in visual adaptation”
Dr. Chunglong Nan (2010-2016)	Research project: Molecular biological approach towards functional role of taurine in the CNS.
Dr. Desheng Chen (2016-2018)	Research project: Deficiency of the bone morphogenetic protein related retinal degeneration.

Training Ph.D Students

Zheng Jiang (2004 - 2009), Ph.D student , Graduated
Dissertation title: “Function of Glycine in Retina”.
Current position: Assistant Professor, Department of Ophthalmology at Baylor College of Medicine

Simon Bulley (2007 – 2010), Ph.D student , Graduated
Dissertation title: “New insights of the potential neuromodulatory role and activation site of taurine in retina”
Current position: Assistant Professor, College of Pharmacy, Western University of Health Science.

Matthew Rowan (2006 - 2011), Ph.D student, Graduated
Dissertation title: “Chemical synapses in retinal adaptation”
Current position: Assistant Professor, Department of Cell Biology, Emory University School of Medicine

Lauren Purpura (2010-2014), Ph.D student, Graduated
Dissertation project: Function of Cl co-transporter in retinal physiology and disease.
Current position: Professor in the Biological Sciences Department at Broward College

James Sullivan (2018- 2021), Ph.D student, Graduated
Dissertation project: “A cell biological and electrophysiological study of mouse retina”
Current position: Post-doctoral fellow, FAU

Luiza Sora Pedro Romero (2022-present) Ph.D student

Training Medical Students in Research

Irene Chang (M2), 2010

John Rollo (M2), 2010
Lisa Sonnenblick (M1), 2012
Minh Quan le (M1), 2015
Andrew Fahmy (M1), 2019
Elshaer Zeynep (M1), 2022

Training Master's Students

Karie McKernan (2007-2008), graduated with non-Thesis Master's Degree
Paper published "Spatial and temporal distribution patterns of Na-K-2Cl⁻ cotransporter in adult and developing mouse retinas. *Visual Neuroscience*. 25:109-123.

Joseph Guzzone (2010 –2011), graduated with non-Thesis Master's Degree
Abstract published "Glycine Positive Control of the Distal Retinal Signals by a NKCC-Mediated Mechanism", ARVO, 2011

Yufei Lu (2009- 2011). Graduated with Thesis Master's Degree
Master's Thesis "Immunocytochemical study of electrical and chemical synapses
in retinal circuitry"

Nick Libian (2019-2020) Graduated with non-Thesis Master's Degree

Matthew Nguyen (2019- 2021) Graduated with as Thesis Master's Degree
Master's Thesis "Photoreceptor degeneration and abnormal retinal vasculogenesis"

Training Undergraduate Students

Heejab Bhatti (2007-2008) FAU
Michael Appelbatt (2008) FAU
Tassia Kostopoulos (2008) FAU
Omar Olyar (Spring- Summer 2009) FAU
Claudia Zapata (2009) FAU
Samuel Drysen (Summer 2011) Princeton University
Miguel Moreno (2015-2016)
Leyla Ali (2016)
Layal Dabbas (2016)
Angie Fontaine (2016)
Brain Nudelman (2017-2019)
Joshua Chatoo, NSF T-LEARN program, FAU, (2017-2018)
Alejandra Mejia, NSF T-LEARN program, FAU, (2017-2018)
John Kit, FAU (2018-2019)

Nicole Nudelman (2020)
Omar Saad (2020)
Dylan Parsons (2022)

Ph.D Student Advisory Committee:

Claudia Prada, (2005) Ph.D. Dissertation defense -Department of Physiology and Biophysics,
SUNY at Buffalo
Zheng Jiang, (2004-2009), Chair of the Committee, Integrative Biology Ph.D Program
Manas Biswal, (2006-2008), Committee Member, integrative Biology Ph.D Program
Matthew Rowan, (2006-2011), Chair of the Committee, Integrative Biology Ph.D Program
Yujing Li (2006-2011), Committee Member, Integrative Biology Ph.D Program
Simon Bulley, (2007-2010) Chair of the Committee, Integrative Biology Ph.D Program
Pierre Jean-Charles (2007-2012), Committee Member, Integrative Biology Ph.D Program
Chandana Buddhala (2006-2012), Committee Member, Integrative Biology Ph.D Program
Stacey Caplan (2009-2015), Committee Member, Integrative Biology Ph.D Program
Lauren Purpura (2010-2014), Chair of the Committee, Integrative Biology Ph.D Program
Arunodoy Sur (2011- 2014) Committee Member, Integrative Biology Ph.D Program
Brati Das (2013-2016) Committee Member, Neuroscience program MPFI/FAU
Szu-Yu Chen (2017-2018), Committee Member, University of Miami
Dustin Gerber (2017 – 2020) Committee Member, Master These
James Sullivan (2018-present), Chair of the Committee, Brian &Complex System Ph.D
Jin Wang (2021), Invited External Examiner, Hong Kong Poly-Technic University Ph.D

Master Student Advisor Committee:

Tracy Cowell (2004) Master's thesis - College of Biomedical Science
Percy Tumbale (2004) Master's degree – College of Biomedical Science
Ying Jin (2004-2005) Master's thesis – College of Biomedical Science
Karie McKernan, (graduated in 2008), Committee member, Biomedical Science
Joseph Guzzone, (2010-2012), Chair of the Committee, Biomedical Science Master
Yufei Lu, Master thesis, (2012-2015), Chair of the Committee, Biomedical Science
Matthew Nguyen, Master thesis (2019- 2021), Biomedical Science Master

Courses Taught at FAU

Medical Program-

- Lecture for Neuroscience (M1 Medical Students), 2007-present
- Facilitation for a student-centered, problem-based learning (PBL) group in the Fundamental Neuroscience and Behavior module, 2007- present
- Facilitation for PBL in the Cardio-Vascular System and Renal System module, 2011-2013
- Facilitation for PBL in GI/Nutrition module, 2013- 2014

- Facilitation for M1 and M2 medical Students, Inquiry Cases (IQ), 2017 – present

Graduate instruction-

- Advanced Cell Physiology (Course director), 2007 – present
- Biomedical Science Core Technologies (Course co-director), 2018- present
- Biomedical Concepts & translation al applications (instructor), 2018-present
- Physiology of the Heart (Instructor), 2010-2014
- Neuroscience II (Instructor), 2009-2011, 2021-present
- Brain and Complex System Pro-seminar (Instructor), 2013- present

New course development

- Cellular Function and Physiology for M1 medical students
- Neurotransmission in the CNS for M1 medical students
- Visual System for M1 medical students
- Advanced Cell Physiology (graduate course, also registered by undergraduates)
- Neural Function and Degeneration (M1 students)
- Biomedical Science Topic I (course for both graduate and undergraduate)
- Biomedical Science Core Technologies

SERVICE

Committee Service

2003	Member of Annual Review Committee - Department of Biomedical Science
2005-2007	Member of Infrastructure Committee - College of Science
2006	Junior Faculty Search Committee - College of Biomedical Science
2006-2010	Neuroscience Program Seminar Committee - University
2008-2011	Graduate Committee - College of Medicine
2008-2012	University Honor and Award Committee
2010-2012	Promotion & Tenure Committee – Department of Biomedical Science
2011-2012	University Promotion & Tenure Committee
2011-2012	Chair of the College Promotion & Tenure Committee
2011-2013	Advisor for Student Journal Club - College of Medicine
2013-2014	Research Stimulate Award Committee – College
2014-2015	Annual Evaluation Criteria Panel – Department
2014-2015	Honors Committee – College of Medicine
2014- 2016	Research Committee –College of Medicine
2014- present	Honor and Award Committee - University
2016-2017	P & T Committee - Department
2017-2018	P & T Committee – College of Medicine
2017-2018	BMS working group - Department
2017-2019	Graduate Committee – College of Medicine
2017-2019	Research Committee – College of Medicine

2018-2020 SPE Committee – Department of Biomedical Science
2019 Education subcommittee
2022-present Medical Students Promotions & Professional Standards Committee (MSPPSC)
2023-present Graduate Committee- College of Medicine- College of Medicine
2023-present Research and Scholarship committee -College of Medicine

CURRICULUM VITAE

Name: Rui Tao
Institutional address: Bldg 71, Room 327, College of Medicine, 777 Glades Road, Boca Raton, FL33431
Home address: 18320 Coral Isles Drive, Boca Raton, FL 33498

CONTACT INFORMATION

Office (561) 297-0713; Room 327, bldg 71
Laboratory (561) 297 0715; Room 328, bldg 71
Fax: (561) 297 2221 (college office) or (561) 297 2519 (department office)
Mobil.....(561) 212 2093
E-mail: rtao@health.fau.edu

INSTITUTIONAL AFFILIATION

Department of Biomedical Science
Charles E. Schmidt College of Medicine
Florida Atlantic University

EDUCATION

1984	DVM	Anhui Agricultural College, Anhui, China
1987	M.Sc.	Beijing Agricultural University, Beijing, China
2000	Ph. D.	Rutgers University, New Jersey, USA

MASTER THESIS

Place: The Graduate School-Beijing Agricultural University.
Year: 1987
Title: Study of trichophytosis on donkey and their pathogens in mycology” presented in partial fulfillment of the master’s degree requirements (1987),
Committee: Dr Jia-Pu Chang (Chair), Drs Jia-Pu Chian, Bao-Fan Wan, Dai-Ru Wen and Zhen-Sheng Lu.

DORCTORAL DISSERTATION

Place: The Graduate School-New Brunswick, Rutgers, The State University of New Jersey and the Graduate School of Biomedical Sciences, University of Medicine and Dentistry of New Jersey.
Year: 2000
Title: Regulation of Serotonin Release in the Rat CNS by Opioid-Mediated Inhibition of GABAergic and glutamatergic Afferents

Committee: Dr Sidney B. Auerbach (Chair). Dissertation Committee Members: Drs Sidney B. Auerbach, Mark R. Plummer, Larissa A. Pohorecky and Mark O. West.

POSTDOCTORAL TRAINING

1990-1991	Göteborg University, Göteborg, Sweden
1991-1995	Rutgers University, New Jersey, USA
2000-2001	Rutgers University, New Jersey, USA
2001-2004	Harvard Medical School, Boston, USA

ACADEMIC APPOINTMENTS

2000-2001	Research Assistant Professor , Department of Cell Biology and Neuroscience, Rutgers University, New Jersey
2001-2004	Instructor in Psychology, Department of Psychiatry, Harvard Medical School, VAMC, Massachusetts
2004-2008	Assistant Professor , Department of Basic Sciences, Florida Atlantic University, Florida
2008-present	Associate Professor , Department of Basic Sciences, Florida Atlantic University, Florida
2016-present	Affiliated Associate Professor , Brain Research Institute, Florida Atlantic University, Florida

OTHER APPOINTMENTS

1995-1998	Graduate Research Assistant , Department of Cell Biology and Neuroscience, Rutgers University, New Jersey
1998-1999	Teaching Assistant , Department of Cell Biology and Neuroscience, Rutgers University, New Jersey
1999-2000	Research Assistant Professor , Department of Cell Biology and Neuroscience, Rutgers University, New Jersey
2004-2008	Affiliated Assistant Professor , Department of Cell Biology and Anatomy, University of Miami Miller School of Medicine, Florida
2008-2011	Affiliated Associate Professor , Department of Cell Biology and Anatomy, University of Miami Miller School of Medicine, Florida

TEACHING

Teaching activities conducted between 2020 and 2025, encompassing both graduate and medical education, accounted for approximately 65-70% of my overall effort, as detailed below.

GRADUATE TEACHING

Note: All listed courses are graduate-level with enrollment capped at 20 students to ensure instructional quality and support advanced learning. Unless otherwise noted, the course content is independently designed and delivered by me, with a strong emphasis on pedagogical innovation and the integration of current research to enrich graduate-level education. Courses highlighted in **pink** indicate teaching activities conducted during the past five years (**2020–2025**), reflecting sustained efforts and progressive instructional development.

1.

Course title: Topics in Biomedical Sciences (PCB 6933)

Past Taught: Fall 2004, Fall 2005, Fall 2006

2.

Course title: Molecular Neuropsychopharmacology (PCB 6933)

Past Taught: Spring 2008, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013

Past Enrollment: 10 (2008), 14 (2009), 13 (2010), 13 (2011), 13 (2012), 13 (2013)

3.

Course title: Biomedical Concepts and Translational Applications

Past Taught; 1-hour lecture: Fall 2018, Fall 2019

4.

Course Title & Number: Autonomic Function and Diseases, (BMS 6523)

Course Level: Graduate

Past Taught: Fall 2007, Fall 2014, Summer 2016, Summer 2017, Summer 2019

Past Enrollment: 22 (2007), 22 (2014), 8 (2016), 14 (2017), 12 (2019)

Couse State: **Continued**

Role: **Course design and instructor**

	2020	2021	2022	2023	2025	2025
Semester	Fall	Fall	Fall	Fall	Fall	Fall
Enrollment	21	19	17	21	17	20
SPOT	2	n/a	1.73	1.25	1.77	n/a
Highest =1						

Selected Feedback & Comments from Students:

2020: *I enjoyed learning about these autonomic diseases and Dr. Tao makes them very interesting*

2022: *Thought provoking and intensive/comprehensive research skills learned*

2023: *The interactiveness and discussions we would have with the class about the topics we are learning. I also liked the kahoots we did in class and extra credit opportunities. Dr. Tao is also a great and sweet professor who cares for his students!!*

2024: *I enjoyed the critical thinking we had to do on certain topics, it was very engaging. I also thought it was beneficial that we did kahoots to make sure we learn each topic efficiently*

5.

Course title & Number: Pharmacology (GMS 6513)

Course level: Graduate

Past Taught: Summer 2018, Spring 2019; Past Enrollment 12 (2018), 14 (2019).

Course state: **Continued**

Role: **Course design and instructor**

	2020	2021	2022	2023	2025	2025
Semester	Spring	Spring	Spring	Spring	Spring	Spring
Enrollment	20	18	25	18	22	20
SPOT	1.47	1.29	1.76	1.08	1.43	2.33
Highest =1						

Selected Feedback & Comments from Students:

2022: *I liked that Dr. Tao allowed for us to complete drug research presentations and learn information from our classmates. It helped to link the concepts of the powerpoint presentations*

2023: *This course was very interact with the students, and allowed us all to participate. It did not feel like a typical lecture class as we all contributed to the lecture each week. I enjoyed the feeling of family with the instructor and students*

2024: *I like how interactive the class was and it was beneficial to present Pharmacology questions instead of a certain topic on Pharmacology, because the questions on Pharmacology could be applied for future use*

6.

Course title & Number: Advanced Pharmacology (GMS 6551)

Course level: Graduate

Course state: **New course, started 2021**

Role: **Course design and instructor**

	2020	2021	2022	2023	2025	2025
Semester	x	Summer	Summer	Summer	Summer	Summer
Enrollment	x	15	17	17	21	17
SPOT	x	1.75	1.42	1.00	1.21	1.27
Highest =1						

Selected Feedback & Comments from Students:

2021: *Course material is comprehensive and focus heavily on the most clinically relevant pharmacology. Professor does his due diligence to be prepared before class*

2022: *Professor Tao is very committed to our learning and I can definitely appreciate this quality in a professor. Professor Tao has great qualities such as: great character, effective teaching style, curriculum expertise, and ability to set goals for the class overall*

2023: *Dr. Tao did a great job promoting a collaborative atmosphere in the class. The incorporation of a flipped classroom approach gave students the opportunity to present their research questions and interact with other students. I've never been in an FAU class where there is so much comradery among students. Dr. Tao encourages student interaction and promotes students to connect because the class design includes student participation via presentations*

2024: *The course is very interesting in itself and the topics are extensive and fascinating to learn about regarding antimicrobial drugs and anti inflammatory drugs. The presentations and quizzes from students were a nice feature of this graduate course, it was great to interact with peers and Dr. Tao in a relaxed, professional environment in class*

7.

Course title & Number: Directed Independent Study (PCB 6905)

Course level: Graduate

2020-2025

Taught: Summer 2020, Summer 2023

Enrollment: 2 (2020), 3 (2023)

Topic: PET Imaging Analysis

Role: Instructor and mentor; guided student through literature review, data analysis, and presentation

SPOT: Not eligible

8.

Course title & Number: Directed Independent Study (PCB 4915 & PCB 4916)

Course level: Undergraduate

2020-2025

Taught: Spring 2022, Fall 2024, Spring 2025

Enrollment: 3 (2022), 1 (2024), 1 (2025)

Topic: PET Imaging Analysis

Role: Instructor and mentor; guided student through literature review, data analysis, and presentation

SPOT: Not eligible

9.

Course title: Thesis-related research (PCB 6974 & PCB 6971)

Program: MS in Biomedical Science

Role: Primary advisor; guided student through proposal development, data analysis, and thesis defense

Semester: Fall 2021, Fall 2022, Summer 2024, Fall 2024, Summer 2025

Enrollment: 1 (2021), 2 (2022), 3 (2024), 1 (2025)

SPOT: Not eligible

MEDICAL TEACHING

Note: Medical teaching activities may consist of lectures or small group discussions. Unlike graduate-level courses, these sessions typically do not have formal course numbers. Lecture-based teaching generally involves 1–3 instructional hours per semester, while small group facilitation typically requires approximately 6 hours per week over a period of 6 to 8 consecutive weeks. The number of students in lecture sessions varies depending on the class year and is therefore not specified. Small group discussions usually include 8 to 9 medical students, allowing for more interactive and facilitated instruction. Courses highlighted in pink indicate teaching activities conducted during the past five years (2020–2025).

1.

Course title: Pathology Inflammation

Past Taught: Fall 2004, Fall 2005, Fall 2006

2.

Course title: Autonomic Nervous System

Past Taught: Fall 2004, Fall 2005, Fall 2006

3.

Course title: Gut Secretion

Past Taught: 2005 Fall 2005, Fall 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010

4.

Course title: Temperature Regulation

Past Taught: Spring 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019

5.

Course title: Small group for Problem-based learning

Past Taught as facilitator: Fall 2008, Fall 2009, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Spring 2016, Fall 2017, Spring 2017, Fall 2018, Spring 2018, Fall 2019, Spring 2019

6.

Course title: FBS1 PBL

Course state: New course; started in 2021

Role: Taught as a facilitator

	2020	2021	2022	2023	2025	2025
Semester	x	Fall	Fall	Fall	Fall	Fall
Med	x	4.50	4.12	4.75	4.38	N/A
Evaluation						
Highest =5						

Selected Feedback & Comments from Med Students:

2021: Dr. Tao helped me understand my role within the group and what I can do to improve. He suggested that I spend more time breaking down the information given in the case, I agree that I need to participate more in the discussion and investigate deeper

2022: Dr. Tao is an excellent facilitator. He allows us to think for ourselves but also allows himself to guide us onto the right track. He is very understanding, encouraging and allows us to confidently contribute. He is very helpful throughout each and every session of PBL that we have

2023: The feedback that Dr. Tao provided me was useful as, while I was aware of some of the areas that I could improve in, he provided me with guidance as to how to approach finding solutions. My biggest struggle in PBL at the start was ensuring that my presentations were under 5 minutes long. After discussing with him, he offered a number of different routes that I could take so as to help me work on my presentation timing

2024: Dr. Tao was great at asking us questions to get us thinking on our own and guiding us in the right direction. He was a great facilitator

7.

Course title: FBS2 PBL

Course state: New course; started in 2021

Role: Taught as a facilitator

	2020	2021	2022	2023	2025	2025
Semester	x	Fall	Fall	Fall	Fall	Fall
Med	x	4.50	4.38	4.70	4.67	N/A
Evaluation						
Highest =5						

Selected Feedback & Comments from Med Students:

2022: Dr. Tao gave me great supportive feedback. It was also nice getting to share my feedback of our PBL group with him, in order to try and improve our PBL experience as well. It allowed me to know where I'm at and gauge my contributions

2023: The mid-course narrative feedback really helped me improve what I include in my presentations and how to make my material easier for the students to understand. Also now I stop after every paragraph in the case study when I am the reader and really analyze the passage one sentence at a time to make sure that the group discusses all of the important information

2024: *The mid-course feedback was helpful. Dr. Tao gave mostly positive feedback and told me that my presentations were organized and easy to digest, and that I was contributing adequately to the group discussions. It was helpful to hear that I was performing well, and that I could continue to do what I was doing*

8.

Course title: NSB PBL

Course state: Continued

Role: Taught as a facilitator

	2020	2021	2022	2023	2025	2025
Semester	Spring	Spring	Spring	Spring	Spring	Spring
Med	4.38	4.75	4.50	3.41	4.29	4.60
Evaluation						
Highest =5						

Selected Feedback & Comments from Med Students:

2020: *Dr. Tao spoke more than the other facilitators I've had, but he brought up some important questions and really helped us*

2022: *The mid-course feedback was somewhat useful in improving my performance. My performance in the group was evaluated and discussed with my facilitator*

2022: *I thought Dr. Tao made good improvements over the semester and he really listened to our feedback*

2023: *The narrative feedback allowed me to tailor my participation more to allow for more contribution from other students without taking over*

2024: *Yes the feedback did help because he told me to ask more clarifying questions on topics that I needed more information on. This was helpful in the second half of the block*

2025: *.....helped me improve my performance*

9.

Course title: ICA (Yr1 or Yr2)

2020-2025

Taught as an interviewer: Spring 2020

Medical Evaluation: Not eligible

10.

Course title: PT2 Block1 IQ

2020-2025

Taught as a backup facilitator:

Med Evaluation: not eligible

11.

Course title: NSB, Pharmacology of Drug Addiction

Course state: Continued

Role: Individual lecturer, 1-hour

	2020	2021	2022	2023	2025	2025
Semester	Spring	Spring	Spring	Spring	Spring	Spring
Med	4.39	4.43	4.20	n/a	3.12	3.48
Evaluation						
Highest =5						

Selected Feedback & Comments from Students:

2020: *Dr Tao covered all the essentials with concise points and mechanisms that were clearly explained. He presents with tons of energy*

2022: *I really like the layout of the slides, it really helped organize the information for me*

2023: *I appreciated that Dr. Tao emphasized making the transition from using 'addiction' to 'substance use disorder' in order to help reduce the stigma surrounding this disease*

2024: *I had used the boards and beyond materials for this lecture, however I had also studied the powerpoint presentation from this professor to ensure the learning objectives matched up*

2025: *Dr. Tao knows a lot about the mechanisms behind drugs and pathways in the brain, helping make the information he was presenting in his addiction and stimulants lecture very thorough*

RESEARCH & SCHOLAR

*There has been approximately 26-30% of my overall efforts and time on this section.
Specifically, 25-26% of research and 5% of scholar activity, as detailed below.*

RESEARCH

1. Grants and Funding

- Pending Application
 - ❖ **Title:** Integrative AI & biomedical analysis of A β PET imaging
 - ❖ Funding agency: Alzheimer's Association
 - ❖ Total amount requested: \$300,000 for 3 years
 - ❖ Date submitted: 8/15/2025
 - ❖ Role: PI
 - ❖ Status: Under review
 - ❖ **Title:** PET Imaging, Lymphography & A β Drainage
 - ❖ Funding agency: FDoH Ed and Ethel Moore Alzheimer's Disease Research Program
 - ❖ Total amount requested: \$350,000 for 3 years
 - ❖ Date intended: 10/2025
 - ❖ Role: PI
 - ❖ Status: In preparation
- Funded Research (2020-2025)
 - ❖ Synthetic cathinones (Bath Salts)-induced psychosis. Funding agency: Ross University School of Veterinary Medicine; Role: PI; Total amount awarded: \$25,000; Date awarded: Date completed: 6/2021
 - ❖ Anti-inflammatory effects of short chain fatty acids in the brain. Funding agency: Ross University School of Veterinary Medicine; Role: PI; Total amount awarded: \$25,000; Date awarded: 7/2021-6/2023
 - ❖ Effect of A β on glucose. Funding agency: FAU OURI Research. Total amount awarded: \$600; Date awarded: Fall 2021
 - ❖ A β and glucose; Funding agency: FAU mentor program; Total amount awarded: \$150; Date awarded: Spring 2024
 - ❖ A β , glucose, and cell starvation, FAU OURI UG research; Total amount awarded: \$1200; Date awarded: Fall 2022
 - ❖ A β & phagocytosis research, FAU OURI UG research; Total amount awarded: \$1200; Date awarded: Fall 2023
 - ❖ Florbetapir and A β PET; Funding agency: FAU NSF-LEARN program; Total amount awarded: \$500; Date awarded: Spring 2024
 - ❖ Lymphatic-like canals in the brain, Funding agency: FAU OURI UG research; Total amount awarded: \$1200; Date awarded: Fall 2024
 - ❖ Florbetapir and A β PET; Funding agency: FAU NSF-LEARN program; Total amount awarded: \$500; Date awarded: Spring 2025

- Unfunded projects
 1. Targeting GRP55 receptors on neuroglial cells to investigate mechanisms of action for CBD involving therapeutic effects. Funding agency: Consortium for Medical Marijuana Clinical Outcomes Research; Role: PI. Total amount requested: \$75,000. Date submitted: 2/2020
 2. Cannabis and phenotypic changes of neuroglial cells. Funding agency: Consortium for Medical Marijuana Clinical Outcomes Research; Role: PI. Total amount requested: \$75,000. Date submitted: 2/2021
 3. Hypometabolism & cell starvation in the AD brain; Funding agency: FDoH Ed and Ethel Moore Alzheimer's Disease Research Program; Role: PI; Total amount requested: 250,000; Date submitted: 9/2021
 4. FDG-PET and artificial intelligence (AI) for assessing cognitive health of patients; Funding agency: FDoH Ed and Ethel Moore Alzheimer's Disease Research Program; Role: PI; Total amount requested: \$750,000; Date submitted: 8/2023
 5. BDNF gene therapy for treatment of stroke; Funding agency: FDoH James ad Esther King Biomedical Research Program; Role: Co-I; Total amount requested: \$750,000; Date submitted: 10/2023
 6. Imaging lymphatic-like vessels in the brain; Funding agency: Alzheimer's Drug Discovery Foundation; Role: PI; Total amount proposed: \$600,000; Date submitted: 9/2024

2. Publications

- Peer-reviewed journal articles
 - ❖ Mode of action of granulocyte-colony stimulating factor (G-CSF) as a novel therapy for stroke in a mouse model. J Biomed Sci. 27: 19. Doi: 10.0086/s12929-019-0597-7.
 - ❖ Granulocyte-colony stimulating factor gene therapy as a novel therapeutic for stroke in a mouse model. J Biomed Sci 27: 99. DOI: 10.1186/s 12929-020-00692-5
 - ❖ Methamphetamine causes an increase in kynurenine associated with neuroglial reactivity involved in brain neuroinflammation. European Neuropsychopharmacology 40 (supple 1) S17-S18
 - ❖ Characteristic changes in EEG spectral powers of patients with opioid-use disorder as compared with those with methamphetamine- and alcohol-use disorders. PLoS One 2021 16: e0248794
 - ❖ Involvement of beta amyloid 1-42 in amino acid transportation into astrocytes and immunoreactive hypofunction. European Neuropsychopharmacology P.0442. DOI:10.1016/j.euroneuro 2021.10.415
- Conference proceedings
 - ❖ Involvement of beta amyloid 1-42 in amino acid transportation into astrocytes and immunoreactive hypofunction. The 34th ECNP Congress. Lisbon, Portugal

❖

3. Presentations

- Research talks at conferences
 - ❖ Amyloid Related Diseases Summit (May 2025)
Title: Compartmental analysis of amyloid beta containment followed by reconstruction 18F-florbetapir PET into 3D canal-like networks in the brain of patients with Alzheimer's disease.
- Poster presentations
 - ❖ 2020-2021:
 - ❖ IFN γ activation o the kynurenine pathway in astrocytes increase in inflammatory activity in the brain. The 12th 13th FAU Annual Undergraduate Research Symposium
 - ❖ Effect of methamphetamine on the pro-inflammatory response in different cortical regions. The 12th 13th FAU Annual Undergraduate Research Symposium
 - ❖ 2021-2022:
 - ❖ Effect of soluble β -amyloid peptides on cell function and nutrient uptake into astrocytes. FAU COM Res 2022
 - ❖ Cell starvation caused by amyloid peptide. The 13th FAU Annual Undergraduate Research Symposium
 - ❖ Quantitative analysis of FDG PET of patients with AD. The 13th FAU Annual Undergraduate Research Symposium
 - ❖ Exploring the relationship between starvation and A β peptides in AD. The 13th FAU Annual Undergraduate Research Symposium
 - ❖ Effect of amyloid peptides on cytosol ATP production. COM Graduate Res
 - ❖ 2022-2023:
 - ❖ Developing an image processing algorithm for analyzing FDG-PET in patients with AD, the 13th FAU Annual Undergraduate Research Symposium
 - ❖ New algorithm for analyzing FDG-PET in patients with AD, 10th Annual LSSF STEM Undergraduate Research Symposium, The Life Sciences of South Florida Research Symposium.
 - ❖ Novel algorithm and SUVR comparison in FDG-PET scan analysis of Alzheimer's disease, GPSA's 14th Annual Graduate Research
 - ❖ Glucose transporters act as probable primary target of amyloid beta in initiating nutrition issues during early stage of Alzheimer's disease, FAU COM Graduate Research Day
 - ❖ Amyloid beta targeting glucose transporters in Alzheimer's disease initiation due to cell starvation, GPSA's 14 Annual Graduate Research

- ❖ Difference between astrocytes and microglia in response to amyloid beta, FAU COM Graduate Research Day

1. 2023-2024:

- ❖ Glucose transporters are likely a primary target of amyloid beta in causing nutritional deficit involved in initiating Alzheimer's disease, FAU COM Graduate Research Day
- ❖ Potential interaction between glial cells and ab excess in the white and gray matter of patients with Alzheimer's disease, the 14th FAU Annual Undergraduate Research Symposium.

2. 2024-2025:

- ❖ Exploring the temporal gap between A β aggregation and onset of Alzheimer's disease, 15th FAU Graduate Professional Student Associate.
- ❖ Volumetric analysis of the cerebellum in Alzheimer's disease patients using magnetic resonance imaging scans, the 15th FAU Annual Undergraduate Research Symposium.
- ❖ 3D reconstruction of amyloid beta distribution in the brain and an application of waste clearance impairment of patients with AD, 2025 SAU LEARN program symposium
- ❖ Reconstructing 346 slices of amyloid beta PET scan into a single 3D image for the brain, 2025 SAU LEARN program symposium

- Invited lectures

1. 2023:

- ❖ Lecture to FAU NSF-LEARN program

2. 2024:

- ❖ Lecture to FAU NSF-LEARN program

2. Research Supervision

- Mentoring undergraduate research

1. 2020-2021:

- ❖ Mark Lewis, Rudolf Hall, Isha Khan

2. 2021-2022:

- ❖ Sara Anim, Mary Adam, Rudolf Hall, Andrew Yany

3. 2022-2023:

- ❖ Carole Aziz, Luisana Munoz

4. 2023-2024:

- ❖ Mary Adam, Alexandra To

5. 2024-2025:

- ❖ Lillian Cruz, Pam Putnam

- Mentoring medical students

1. 2021-2022:

- ❖ Veronica Hagan

- Mentoring graduate students

1. 2020-2021:
 - ❖ Chris Minnerly, William To, Sajeewani Wijetunga, Esteban V Saldarriaga, Zachary Lee, Belinda Chen, Subashi Bhandari Sara Ecoff
2. 2021-2022:
 - ❖ Willian To, Agjanae Jones, Giselle Shm, Vishala Ramdin, Marigabriel Manrique, Guiherme Da Silva
3. 2022-2023:
 - ❖ Ahjanae Johes, Eden Assraf, Roberto Esteves, Rudolf Hall, Giselle Shim, Gerald Pluviose.
4. 2023-2024:
 - ❖ Roberto Esteves, Nour Chammakhi, Rudolf Hall, Giselle Shim
5. 2024-2025:
 - ❖ Rudolf Hall, Giselle Shim
- Thesis/dissertation committees
 1. 2020-2021:
 - ❖ Chris Minnerly, William To, Zachary Lee, Belinda Chen, Subashi Bhandari
 2. 2021-2022:
 - ❖ Subashi Bhandari, Belinda Chen, Willian To, Agjanae Jones, Giselle Shim
 3. 2022-2023:
 - ❖ Subashi Bhandari, Willian To, Agjanae Jones, Giselle Shim, Rudolf Hall
 4. 2023-2024:
 - ❖ Ahmed Altaher (Computer Science Department), Md Raza Ul Karim (Chemistry Department)
 5. 2424-2025:
 - ❖ Sabrina Islam, Luiza V. Sao Pedro Romer (Neuroscience of Brain Research Institute), Matthew Araujo (IB Doctorial Program), Stefania Volpe (IB Doctorial Program), Ahmed Altaher (computer science), Md Raza Ul Karim (chemistry)

3. Innovation

- Patents
 1. System and Methods for Quantifying Brain Image Data
 - ❖ Status: Active since 2024
 - ❖ Patent # US2024/040541
 2. Therapeutic Modulation of Subarachnoid Smooth Muscle Mechanisms for Enhanced CNS Waste Clearance
 - ❖ Status: Rejected in 2025, the first submission
 - ❖ Under data collection for revision

SCHOLAR ACTIVITY

1. Teaching and Curriculum Development

- Course design or revision
Advanced pharmacology

2. Editorial and Peer Review Work

- Associated editor since 2023, for Frontiers in Pharmacology, Neuropharmacology section
- Guest Associate editor, since 2023, for Frontiers in Neuroscience, Neuroimaging section
- Ad hoc reviewer, for Journals including Brain Research, Journal of Biomedical Science, Current Medicinal Chemistry, Translational Psychiatry etc.

3. Professional Development

- Workshops attended
 - ❖ 2024,
 - AI Basics (6/9/2024)
 - AI Prompting (7/23/2024)

SERVICE

Approximately 5% of my overall efforts are attributed to this section as detailed below.

COLLEGE-LEVEL SERVICE

- ❖ P & T Committee
 - Committee member

PROFESSIONAL/DISCIPLINARY SERVICE

- ❖ FAU Undergraduate service
 - Mentor
 - OURI grant reviewer
 - Undergraduate research judge
- ❖ Editorial work
 - Associated editor
 - Guest Associate editor
- ❖ Ad hoc reviewer
 - 2020-2025**
 - N-S Archives of Pharmacology
 - Experimental Brain Research
 - Neurophysiologie Clinique
 - Drug Delivery Letter
 - Neuropharmacology
 - Bentham Science
 - ACS Chemical Neuroscience
 - J Exp Pharmacology
 - Frontiers in Cellular Neuroscience
 - Journal of Inflammation Research
 -

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1987,
Prevention cure of zoonotic ringworm between man and cats.
Acta Agriculturae Universitatis Pekinensis 13(3).
2. Tao R, Yang YM, Guo T and Wan BF,
1990,
Regulation of gastric peristalsis by alpha-2 adrenoceptor using in vivo transducer technique within mini-pig stomach.
Chinese Journal of Veterinary Medicine 16: 4-6.
3. Hjorth S and Tao R,
1991,
The putative 5-HT-1B receptor agonist CP-93,129 suppresses rat hippocampal 5-HT release in vivo: comparison with RU 24969.
European Journal of Pharmacology 209: 249-252. [Pubmed]
4. Tao R and Hjorth S,
1992,
Alpha-2 adrenoceptor modulation of rat ventral hippocampal 5-hydroxytryptamine release in vivo.
Naunyn-Schmiedeberg's Arch Pharmacology 345:137-143. [Pubmed]
5. Auerbach SB, Wilkinson LO, Tao R, Grauer S and Rutter J,
1992,
Microdialysis measurement of serotonin release in the central nervous system.
Journal of Chemical Neuroanatomy 5: 331-333. [Pubmed]
6. Grauer SM, Tao R and Auerbach SB,
1992,
Morphine induces an increase in extracellular serotonin in the rat diencephalon.
Brain Research 599: 277-282. [PubMed]
7. Tao R and Hjorth S,
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Differences in the in vitro and in vivo 5-hydroxytryptamine extraction performance among three common microdialysis membranes.
Journal of Neurochemistry 59: 1778-1785. [Pubmed]
8. Tao R and Auerbach SB,
1994,
Increased extracellular serotonin in rat brain after systemic or intra-raphe administration of morphine.
Journal of Neurochemistry 63: 517-524. [PubMed]

9. Tao R and Auerbach SB,
1994,
Anesthetics block morphine-induced increases in serotonin release in rat CNS.
Synapse 18: 307-314. [PubMed]
10. Tao R and Auerbach SB,
1995,
Involvement of dorsal raphe but not median raphe in morphine-induced increases in serotonin release in rat brain.
Neuroscience 68: 553-561. [PubMed]
11. Tao R and Auerbach SB,
1996,
Differential effect of NMDA on extracellular serotonin in rat midbrain raphe and forebrain sites.
Journal of Neurochemistry 66: 1067-1075. [PubMed]
12. Tao R, Ma Z and Auerbach SB,
1996,
Differential regulation of 5-hydroxytryptamine release by GABAA and GABAB receptors in midbrain raphe nuclei and forebrain of rats.
British Journal of Pharmacology 119: 1375-1384. [PubMed]
13. Tao R, Ma Z and Auerbach SB,
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Influence of AMPA/kainate receptors on extracellular 5-hydroxytryptamine in rat midbrain raphe and forebrain.
British Journal of Pharmacology 121: 1707-1715. [PubMed]
14. Tao R, Ma Z and Auerbach SB,
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Alteration in regulation of serotonin release in rat dorsal raphe nucleus after prolonged exposure to morphine.
Journal of Pharmacology and Experimental Therapeutics 286: 481-488. [PubMed]
15. Tao R, Ma Z and Auerbach SB,
2000,
Differential effect of local infusion of serotonin reuptake inhibitors in the raphe versus forebrain, and the role of depolarization-induced release in increased extracellular serotonin.
Journal of Pharmacology and Experimental Therapeutics 294:571-579. [PubMed]
16. Tao R, Fray A, Aspley S, Brammer R, Heal D, Auerbach S,
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European Journal of Pharmacology 445: 69-81. [PubMed]

17. Tao R, Auerbach SB, 2002, Opioid receptor subtypes differentially modulate serotonin efflux in the rat CNS. *Journal of Pharmacology and Experimental Therapeutics* 303:549-556. [PubMed]
18. Tao R, Auerbach SB, 2002, GABAergic and glutamatergic afferents in the dorsal raphe nucleus mediate morphine-induced increase in serotonin efflux in the rat CSN. *Journal of Pharmacology and Experimental Therapeutics* 303:704-710. [PubMed]
19. Tao R, Auerbach SB, 2003, Influence of inhibitory and excitatory inputs on serotonin efflux differs in the dorsal and median raphe nuclei. *Brain Research* 961:109-120. [PubMed]
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Publications**Original Research**

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G. Loew, **L. Toll**, J. Lawson, G. Frenking, and W. Polgar. Opiate receptor heterogeneity: Relative ligand affinities and molecular determinants of high affinity binding at different opiate receptors. In Computer-Assisted Modeling of Receptor-Ligand Interactions: Theoretical Aspects and Applications to Drug Design. Alan R. Liss, Inc., New York (1989).

R. G. Almquist, S. R. Kadambi, D. M. Yasuda, F. L. Weitzl, W. Polgar, **L. Toll**, and E. T. Uyeno. Development of antagonists of des-Glu1-conotoxin GI. In Peptides, Chemistry, Structure, and Biology. J. E. Rivier and G. R. Marshall (Eds.). ESCOM; Leiden, Netherlands, 1990, pp. 505-507.

R. G. Almquist, C. Olsen, C. K. Hiebert, S. R. Kadambi, S. Brandt, and **L. Toll**. Development of peptidomimetic inhibitors of a newly isolated atrial peptide-degrading enzyme. In Peptides: Chemistry and Biology. J. S. Smith and J. E. Rivier (Eds.). ESCOM, Leiden, 1992, pp. 791-792.

C. T. Dooley, C. G. Spaeth, **L. Toll**, I. P. Berzetei-Gurske, and R. A. Houghten. Potent Orphanin FQ receptor ligands identified using combinatorial libraries. Peptides 1996, Ramage. R and Epton R. ed. Mayflower Scientific Limited England, 343-344, 1997.

L. Toll, T.V. Khroyan, W.E. Polgar, S. M. Husbands, N.T. Zaveri. Pharmacology of Mixed NOP/Mu Ligands. In ACS Symposium Series, Vol. 1131, Research and Development of Opioid-Related Ligands, Chapter 17, pp 369–391, May 10, 2013.

Survey Articles, non-peer review

Alexander SPH, Christopoulos A, Davenport AP, Kelly E et al., The Concise Guide to PHARMACOLOGY 2023/24: G protein-coupled receptors.
The Concise Guide to PHARMACOLOGY 2013/14. Br J Pharmacol. 2013 Dec;170(8):1449-58.

Alexander SP, Kelly E, Marrion N, Peters JA, Benson HE, et al. The Concise Guide to PHARMACOLOGY 2015/16: Overview. British Journal of Pharmacology. 2015; 172(24):5729-5743. PMID:26650438 PMCID:PMC4718217

Alexander SP, Kelly E, Marrion NV, Peters JA, Faccenda E, Harding SD, Pawson AJ, Sharman JL, Southan C, Buneman OP, Cidlowski JA, Christopoulos A, Davenport AP, Fabbro D, Spedding M, Striessnig J, Davies JA; **CGTP Collaborators**. THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. Br J Pharmacol. 2017 Dec;174 Suppl 1:S1-S16. PMID:29055037

Toll L, Standifer KM, Massotte D. Editorial: Current Topics in Opioid Research. Front Psychiatry. 2019 Aug 15;. eCollection 2019. PMID: 31474891

Patents

Inventors: Ronald G. Almquist, **Lawrence Toll**

Isolated atrial peptide-degrading enzyme and novel compounds useful as inhibitors thereof.

Patent number: 5262521. Issue date: Nov 16, 1993

Inventors: **Lawrence Toll**, Patrick Denis Lincoln, Peter D. Karp, Kemal Sonmez. Biopolymer sequence comparison. Patent number: 7133781. Issue date: Nov 7, 2006

Inventors: Kemal Sonmez, **Lawrence Toll**, Patrick Denis Lincoln, Peter D. Karp. Data relationship model. Patent number: 7039238. Issue date: May 2, 2006

Inventors: Irving W. Wainer, Michel Bernier, **Lawrence Robert Toll**, Lucita Arenas Jimenez. The use of fenoterol and fenoterol analogues in the treatment of glioblastomas and astrocytomas
Application number: 20130005799 Issued: January 3, 2013

Inventors: **Lawrence R. TOLL**, David C. Yeomans, Martin S. Angst, Daniel I. Jacobs.
METHODS FOR TREATMENT OF PAIN

Application number: 12/844,721

Publication number: US 2011/0021426 A1

Filing date: Jul 27, 2010 Issued: October 8, 2013

Inventors Faming Jiang, Taline Khroyan, Cris M. Olsen, Willma E. Polgar, **Lawrence R. Toll**, Nurulain T. Zaveri

Nicotinic Acetylcholine Receptor Modulators

Application number: 11/934,583

Publication number: US 2009/0118326 A1

Filing date: Nov 2, 2007 Issued: April 15, 2014

Inventors: Stephen Husbands, John Lewis, **Lawrence Toll**

Novel Opioid Compounds and Their Uses

Filing Date – 05/2014

Publication number: EP3077398B1

Filing date: Dec. 5, 2014 Issued: March 11, 2020

Patents Pending

Inventors: Jinhua Wu, Marc Giulianotti, **Lawrence Toll**, Yongping Yu.

Novel nicotinic acetylcholine receptor antagonists.

Filed 05/2017

Inventors: **Lawrence Toll**, Andrea Cippitelli, Kelly Standifer

Methods of Treating Post-Traumatic Stress Disorder and Alcohol Use Disorder

Application number: WO 2024/238897 A2

Filed November 24, 2024

Funding

Ongoing Research Support

W81XWH-21-0410 Toll 06/01/2021 – 05/31/2025
Department of Defense/CDMRP
Investigation into NOP Receptor Agonists for the Treatment of Chronic Migraine
The major goal of this project is to investigate the role of the nociception orphanin FQ/NOP receptor system on migraine-like states.
Role PI

U01DA057862 PI: Toll, Lawrence; Levy, Daniel; Levin, Frances 10/01/2022-09/30/2025
NIH/NIDA
Development of PPL-138, a Novel Mixed NOP/Mu Partial Agonist for Treatment of Cocaine Use Disorder
Major Goals: The major goals of this project are the preclinical development and Phase 1 clinical trials of PPL-138, a mixed NOP/mu partial agonist, for the treatment of cocaine use disorder (CUD). Initial studies will determine efficacy of PPL-138 in a non-human primate model of CUD. Chemical manufacturing will produce GLP and GMP grant PPL-138 to be used for safety studies in dogs and rats, followed by single ascending dose (SAD) and multiple ascending dose (MAD) studies as first in human studies.

R15DA061114 PI Cudic 09/30/2024 – 08/31/2027
NIH/NIDA
Novel Cyclic Peptide Analgesics for Intranasal Delivery
Major Goals: Use combinatorial libraries to identify novel peptide opioid analgesics that can be delivered intranasally.
Co-I

1R01DA05761-01A1 Riley, PI 09/01/2023 – 08/31/2028
NIH NIDA
Selective Targeting of Nicotinic Acetylcholine Receptor Subtypes for Cocaine Use Disorder
The goal is to test a new class of nicotinic compounds called Aristoquinolines on cocaine use disorders.

Pending Research Support

1R41NS145804-01 Toll/Wainer PI
NIH/NINDS
HNK analog identification and characterization as an approach to non-opioid analgesics
Major Goal: Identify novel non-opioid analgesics that are analogs of hydroxynorketamine.

1U01DA066076-01 Toll PI
NIH/NIDA

Development of PPL-138 for the treatment of cocaine use disorder

Major Goal: Phase 1 clinical trial and additional development of PPL-138 towards Phase 2 trials for efficacy.

Completed Research Support

1R01DA023281-01A1 Toll, PI 9/01/11–08/31/22 3 calendar
NIH/ NIDA

Mixed NOP/mu Compounds and the Involvement of Their Receptors in Analgesia

The major goal of this grant is the characterization of compounds with both NOP and μ -opioid activity with respect to analgesic activity, and the examination of the role of each receptor in an analgesic response.

W81XWH1820044

Cippitelli, Andrea (PI), and Toll, Lawrence (co-I)

01/01/2023 – 06/20/2025

Evaluation of PPL-138, a NOP/mu partial agonist, for treatment of alcohol abuse in the context of PTSD

W81XWH-17-0558 (McCurdy/McLaughlin) 9/15/17-9/14/20 1.2 calendar
DoD \$604,637

Sigma receptor ligands as nonopioid-based pain management

The goal of this project is to identify and develop sigma receptor antagonists as pain therapeutics.

Role Co-I

BA160369 (Toll) 12/01/2018-09/28/2021 2.4 calendar
USAMRMC \$1,065,791

This DoD grant to Phoenix PharmaLabs is to conduct pre-IND development studies of the non-addicting analgesic PPL-103 for treatment of acute pain.

Role: PI

R21NS122154 (Toll/Quan MPI) 04/01/2021 - 03/31/2023 1.2 calendar
NIH/NINDS \$150,000

In this grant we will identify neuronal cells containing IL-1 that are involved in pain.

Role MPI

1R41DA044894/01A1 (Toll) 09/01/2018-01/01/2021 1.2 calendar
NIH/NIDA \$181,627 (total direct costs requested)

This project seeks to determine whether the partial kappa agonist PPL-103 can block cocaine self-administration and relapse.

Role PI

2R44DA036968-02 (Wu) 09/01/2015-08/31/2017
NIH/NIDA

Novel Selective Alpha4beta2 Nicotinic Receptor Antagonists For Smoking Cessation

The goal of this Phase II SBIR is to identify Alpha4beta2 Nicotinic Receptor Antagonists as lead compounds to be developed as smoking cessation medications. (In no-cost extension).

Role Co-I

1R01DA023281-01S1, NIH/NIDA

Toll, Lawrence (PI)

Supplement to "Mixed NOP/mu Compounds and the Involvement of Their Receptors in Analgesia"

For this supplement, we will test the hypotheses that alcohol modulates the NOP receptor changes induced by chronic opioids and that the presence of alcohol will affect the rewarding properties of buprenorphine and analogs and therefore affect their efficacy as analgesics and drug abuse medications.

Role: PI

1R01DA027811-01

Zaveri (PI)

9/30/2009–8/30/2014

NIH/NIDA

Discovery of Bifunctional NOP/Opioid Receptor Ligands for Drug Abuse Therapy

We will synthesize and characterize novel high affinity bifunctional NOP/opioid ligands.

Compounds will be tested in vitro and in vivo as potential drug abuse medications.

Role: Co-Investigator

1R01DA020811-01

Toll (PI)

06/2006–05/2011

NIH/NIDA. Subtype-Selective Nicotinic Receptor Ligands as Smoking Cessation Pharmacotherapy.

The goals of this project are to develop and characterize selective $\alpha 3\beta 4$ nicotinic acetylcholine receptor antagonists and examine the hypothesis that this receptor is a valid target for smoking cessation medication.

Role: PI

1R03DA025939-01

Jiang (PI)

02/2009–01/2012

NIH/NIDA

Development of Photoaffinity Ligands for the Alpha3Beta4 Nicotinic Acetylcholine

We will develop photoaffinity ligands for the $\alpha 3\beta 4$ nicotinic acetylcholine receptor in order better characterize the ACh binding site to aid in the discovery of novel selective ligands.

1R01DA020469-01A2

Husbands (PI)

07/08–06/2011

NIH/NIDA

Derivatives of Naltrexone as Opioid Pharmacotherapies

The principal aim of the project is to provide potential pharmacotherapies for opiate dependence with profiles similar to buprenorphine, but having higher mu opioid receptor efficacy. The target ligands are based on 14-(O)-ethers and -esters of the opioid antagonist naltrexone and on the orvinols.

Role Co-I

Courses Taught at FAU

Neuroscience and Behavior PBL Winter 2019
4 lectures in Graduate Neuroscience 2018, 2019

Undergraduate Students

Jasmine Cano 2018-2019
Jason Marcus 2019-
Maymun Mohiuddin 2019-
Darian Peters 2019-
Daniel Padron 2019-
Marcel Orellana 2019-

Graduate Students

Amanda Rainey 2019-

Summer Medical Students

Hanna Mielke-Maday 2018
Jamshed Desai 2020
Nadia Sial 2020

Service and Professional Development Since Joining FAU (01/2018-06/2020)

Service to the Institution

Committees

Comparative Medicine Advisory Committee
Comparative Medicine Equipment Committee
Radiation Safety Committee, **Chair**
Faculty search committee, Genomics 04/19
iPSC faculty search committee 10/18
Director of Learning Health Center Search Committee 5/19
Faculty search committee Biomedical Sciences 07/19
Research Climate Survey Task Force 11/2019
Social Work/Brain Institute Joint Hire Search Committee 11/2019
College of Medicine Space Committee-**Chair** 2/20
Director, Center for Brain Health Search Committee, **Chair**
Internal Advisory Board of the Brain Institute
Integrated Biology Graduate Admissions Committee

Service to the Profession

Grant Review

NIH Study Sections

SCS Feb. 2018
SCS June 2018
SCS Oct. 2018
SPS Feb. 2019
HEAL grants Feb. 2019
SPS June 2019
HEAL grants July 2019
SEP Nov. 2019
HEAL grants Nov. 2019
SPS Feb. 2020
SPS June 2020
NPI (Formerly SPS) Standing member 2021-2025

Editorial Boards

Associate Editor of Frontiers in Psychopharmacology
Editorial Board of Neuropharmacology
Frontiers in Psychiatry
Journal of Drug Abuse Research

Manuscript Reviewer or Editor

Science Advances, Reviewer, 05/18
Frontiers in Psychiatry, Reviewer, 07/18
Neuropharmacology, Reviewer, 11/18
Frontiers in Psychiatry, Reviewer, 11/18
Neuropharmacology, Reviewer, 03/19
Frontiers in Psychiatry, Guest Editor, Special Topic on Opiates, 25 manuscripts
Journal of Medicinal Chemistry, Reviewer 9-19
Frontiers in Psychiatry, Reviewer 10-19
PNAS, Reviewer 11-19
Frontiers in Psychiatry, Reviewer 2-20
Frontiers in Psychiatry, Editor 6-20

Invited Lectures/Conference Symposia

Broward County Crime Commission's 5th Annual Narcotics Conference-- May 17, 2018
Brainy Days-- March, 2018
Committee for Problems on Drug Dependence, San Diego, Invited symposium June 2018
University of Florida-- Jan. 17, 2019
Brainy Days-- March 22, 2019
March Madness Panel Discussion -- March 29, 2019
Albert Einstein School of Medicine-- April 1, 2019
Institute for Learning in Retirement (ILIR)--April 8, 2019

Biomedical Sciences Retreat – May 7, 2019
Neuroscience Student Organization Retreat – June 10, 2019
Neurology residents – September 10, 2019
International Brain Research Organization (IBRO), Daegu South Korea, Invited symposium -
October, 2019
Hoshi University, Tokyo, October 16, 2019
DOR Research in Action series -- May 21, 2020 (online seminar)
Temple University -- May 2021
OLLI -- Jan 2023
Associated Professional Sleep Societies (APSS) Invited symposium –May 2023
Biomedical Research Awareness Day (BRAD) – April, 2023
International Narcotics Research Conference (INRC) Invited symposium – July, 2024
American Academy of Pain Medicine (AAPM) Invited symposium– May 2025

Professional Organizations and Honors:

Society for Neuroscience
College for Problems of Drug Dependence
ASPET
International Narcotics Research Conference
 Chair Local Organizing and Program Committee (2002)
 Member Executive Committee (2002-2005)
 President (2018-2022)
Winner of 2002 SRI Fellowship Award for Research Excellence
Current Chair of the Opioid Receptor Subcommittee of NC-IUPHAR (IUPHAR Nomenclature).
National Academy of Inventors – FAU Chapter
Researcher of the Year 2022, Charles E. Schmidt College of Medicine FAU

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Henriette van Praag

eRA COMMONS USER NAME (credential, e.g., agency login): HVANPRAAG

POSITION TITLE: Associate Professor of Biomedical Sciences

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Bar-Ilan University, Tamat Gan, Israel	B.A.	09/1984	Psychology
Tel-Aviv University, Tel Aviv, Israel	M.A.	09/1989	Psychobiology
Tel-Aviv University, Tel Aviv, Israel	Ph.D.	09/1992	Psychobiology
Robert Wood Johnson Medical School, New Brunswick, NJ	Postdoc	09/1997	Neuroscience

A. Personal Statement

My research pertains to the structural and functional plasticity of adult and aging rodent brain areas that are important for learning and memory. We focus on the regulation and function of adult hippocampal neurogenesis, a now well-established phenomenon. To determine whether new neurons in the adult brain are functionally integrated into the hippocampal circuitry, I initiated and developed a novel virus-based approaches to visualize new neurons, record their physiological properties and analyze their neural networks. In addition, I discovered that voluntary wheel running increases adult hippocampal neurogenesis and that increased neurogenesis is associated with enhanced synaptic plasticity and spatial memory function in rodents. Furthermore, we found that exercise improves pattern separation performance, a behavior linked closely to adult neurogenesis. We are interested in understanding the mechanisms underlying the beneficial effects of exercise on adult neurogenesis, and more broadly on mood and cognition. In addition to researching the central changes that occur with running, which include enhanced adult neurogenesis, synaptic plasticity, morphology, neurotrophin levels and angiogenesis, we have also examined the role of peripheral organs. In particular, we study whether factors secreted from muscle during exercise communicate with the brain to enhance neural plasticity. We hope our work will have translational significance for humans by promoting brain function and staving off neurodegeneration.

- a. van Praag, H., Kempermann, G., Gage, F.H. Running increases cell proliferation and neurogenesis in the adult mouse dentate gyrus, *Nature Neuroscience*, 2:266-270, 1999.
- b. Creer, D.J., Romberg, C., Saksida, L.M., van Praag, H., Bussey, T.J. Running Enhances Spatial Pattern Separation in Mice, *PNAS*, 107(5):2367-2372, 2010.
- c. Moon H.Y., Becke, A., Berron, D., Becker, B., Sah, N., Benoni, G., Janke, E., Lubejko, S.T., Greig, N.H., Mattison, J.A., Duzel, E., van Praag H. Running-induced systemic cathepsin B secretion is associated with memory function. *Cell Metabolism*, 24:332-340, 2016.
- d. Pinto, A., Haytural, H., Loss, C.M., Alvarez, C., Ertas, A., Curtis, O., Williams, A.R., Murphy, G., Salleng, K.J., Gografe, S., Visavadiya, N.P., Khamoui, A.V., Altıntaş, A., Kafri, T., Barres, R., Deshmukh, A.S., **van Praag, H.** Muscle Cathepsin B Treatment Improves Behavioral and Neurogenic Deficits in a Mouse Model of Alzheimer's Disease. *Aging Cell*, e70242. doi: 10.1111/accel.70242, 2025.

B. Positions, Scientific Appointments, and Honors

Positions and employment

2018 - Associate Professor of Biomedical Sciences, College of Medicine and Brain Institute, Florida Atlantic University, Jupiter, FL

2007 - Investigator, Intramural Research Program NIA/NIH, Baltimore, MD

2000 - Staff Scientist, Salk Institute, La Jolla, CA

1997 - Research Associate, Salk Institute, La Jolla, CA

Professional Activities

Member, Society for Neuroscience, 1991

Editorial board member: 'Neuromolecular Medicine' and 'npj Aging and Mechanisms of Disease'.

Associate Editor: 'Frontiers in Neuroscience'

Honors

Elected to National Academy of Inventors, Florida Chapter, 2021.

NIH Merit Award for mentorship of women scientists of NIA, 2016.

Distinguished Traveling Scientist, Midlands Chapter of the Society for Neuroscience, 2013

C. Contributions to Science

1. As a Ph.D. student at Tel-Aviv University with Dr. Hanan Frenk, I addressed the question as to whether neonates do or do not feel pain. Infant pain has traditionally been undertreated due to perceived risks of use of analgesics and anesthetics. I found, however, that rat pups do have nociceptive responses, and that electrical activation of the periaqueductal grey region does not produce analgesia until the third postnatal week. These findings indicated that the developing nervous system is sensitive to pain and suggested that perioperative analgesia is necessary when neonates undergo surgery.
 - a. **van Praag, H.**, Frenk, H. The development of stimulation produced analgesia (SPA) in the rat, *Developmental Brain Research*, 64:71-76, 1991.
2. During my postdoctoral research with the late Dr. Ira Black, I became interested in the effects of brain injury on learning and memory, and neurotrophin levels in the hippocampal circuitry. As a research associate and then staff scientist at the Salk Institute in the lab of Dr. Fred Gage, I began to study adult hippocampal neurogenesis as a new way by which the brain could repair itself. At the time little was known about the functional relevance of new neurons in the adult brain. A prevailing critique was that adult neurogenesis was an artifact resulting from bromodeoxyuridine labeling of cells that were undergoing DNA repair. To determine whether the cells are functional neurons, I originated and developed a retroviral labeling method expressing a fluorescent reporter to directly visualize and record from new neurons. This method is now widely used for birth-dating, genetic modification, morphological analyses and electrophysiological recordings of new neurons. More recently, we combined retroviral labeling with rabies virus as a retrograde tracer to delineate the circuitry of new neurons during their development in the adult and aging brain. We found a predominant innervation to new neurons from the lateral entorhinal cortex supporting the proposed role of new neurons in pattern separation processes.
 - a. **van Praag, H***, Schinder, A.F., Christie, B.R., Toni, N., Palmer, T.D., Gage, F.H. Functional neurogenesis in the adult hippocampus. *Nature*, 415:1030-1034, 2002. *Corresponding author
 - b. Vivar, C., Potter, M.C., Choi, J., Lee, J.Y., Stringer, T.P., Callaway, E.M., Gage, F.H., Suh, H., **van Praag, H.** Monosynaptic inputs to new neurons in the dentate gyrus. *Nature Communications* 3:1107, 2012.
 - c. Vivar, C., Peterson, B.D., **van Praag, H.** Running rewires the neuronal network of adult-born granule cells. *NeuroImage*, 131:29-41, 2016.

- d. Vivar, C., Peterson, B., Pinto, A.P., Janke, E., **van Praag, H.** Running throughout middle-age keeps old adult-born neurons wired. *eNeuro* ENEURO.0084-23.2023.
3. Another area of investigation that I became interested in while at the Salk Institute and have followed up on in my laboratory is the regulation of new neuron production by exercise. Initial studies showed that environmental enrichment increases adult neurogenesis. By isolating the different components of the enriched environment, I found that running is a strong neurogenic stimulus and that increased levels of adult hippocampal neurogenesis correlate with enhanced synaptic plasticity, spatial memory and pattern separation. These studies have translational significance given that physical activity improves memory function in association with increased cerebral blood flow and hippocampal gray matter volume in humans.
 - a. **van Praag, H.**, Kempermann, G., Gage, F.H. Running increases cell proliferation and neurogenesis in the adult mouse dentate gyrus, *Nature Neuroscience*, 2:266-270, 1999.
 - b. **van Praag, H.**, Christie, B.R., Sejnowski, T.J., Gage, F.H. Running enhances neurogenesis, learning and long-term potentiation in mice. *PNAS*, 96:13427-13431, 1999.
 - c. **van Praag, H.**, Shubert, T., Zhao, C., Gage, F.H. Exercise enhances learning and hippocampal neurogenesis in aged mice. *Journal of Neuroscience*, 25(38):8680-8685, 2005
 - d. Creer, D.J., Romberg, C., Saksida, L.M., **van Praag, H.**[#], Bussey, T.J. Running Enhances Spatial Pattern Separation in Mice, *PNAS*, 107(5):2367-2372, 2010. [#]corresponding author.
4. Peripheral factors such as myokines may play a role in brain plasticity. We found that spatial memory function is improved by pharmacological activation of muscle AMP-kinase with agonist AICAR, a compound that enhances endurance. This compound also elevates hippocampal BDNF levels, and contributes to enhancing cognition in the 5xFAD mouse model of Alzheimer's Disease. By applying AICAR to muscle cells in culture and analyzing the conditioned medium we identified a novel myokine, Cathepsin B, that influences adult neurogenesis and memory function. Cathepsin B is elevated by exercise in humans and associated with cognitive function.
 - a. Kobil, T., Yuan, C., **van Praag, H.** Endurance factors improve hippocampal neurogenesis and spatial memory in mice, *Learning and Memory*, 18:103-107, 2011.
 - b. Moon H.Y., Becke, A., Berron, D., Becker, B., Sah, N., Benoni, G., Janke, E., Lubejko, S.T., Greig, N.H., Mattison, J.A., Duzel, E., **van Praag H.** Running-induced systemic cathepsin B secretion is associated with memory function. *Cell Metabolism*, 24:332-340, 2016.
 - c. Choi, S.H., Bylykbashi, E., Chatila, Z.K., Lee, S.W., Pulli, B., Clemenson, G.D., Kim, E., Rompala, A., Oram, M.K., Asselin, C., Aronson, J., Zhang, C., Miller, S.J., Lesinski, A., Chen, J.W., Kim, D.Y., **van Praag, H.**, Spiegelman, B.M., Gage, F.H., Tanzi, R.E. Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimer's mouse model. *Science* 361(6406), 2018.
 - d. Gaitan J.M., Moon H.Y., Stremlau M., Dubal D.B., Cook D.B., Okonkwo O.C., **van Praag H.** Effects of Aerobic Exercise Training on Systemic Biomarkers and Cognition in Late Middle-Aged Adults at Risk for Alzheimer's Disease. *Front. Endocrinol.* 12:660181. 2021.
5. Increasing evidence suggests that diet influences brain function. We found that a single molecule, the plant-derived dietary flavanol (-) epicatechin enhances retention of spatial memory, increases neuronal spine density, hippocampal vascularization and upregulates expression of genes important for synaptic plasticity. In a recent follow-up study, we determined that this compound also may be anxiolytic and results in upregulation of hippocampal and cortical monoamine levels.
 - a. **van Praag, H.**, Lucero, M.J., Yeo, G.W., Stecker, K., Heivand, N., Zhao, C., Yip, E., Afanador, M., Schroeter, H., Hammerstone, J., Gage, F.H. Plant-derived flavanol (-) epicatechin enhances angiogenesis and retention of spatial memory in mice. *Journal of Neuroscience* 27(22):5869-78, 2007.
 - b. **van Praag, H.** Exercise and the brain: something to chew on. *Trends in Neurosciences*, 32: 283-290, 2009.
 - c. Stringer, T.P., Guerrieri D., Vivar C., **van Praag H.** Plant-derived flavanol (-)epicatechin mitigates anxiety in association with elevated hippocampal monoamine and BDNF levels, but does not influence pattern separation in mice. *Transl. Psychiatry*, 5:e493, 2015.

JIANNING WEI, PH.D.

Associate Professor
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777 Glades Road
Boca Raton, FL 33431

EDUCATION

Ph.D. University of Kansas Lawrence, Kansas Majored in Biochemistry/Neuroscience	July 2003
B.S. University of Science and Technology of China Hefei, Anhui P. R. China Majored in Organic Chemistry	July 1999

ACADEMIC POSITION

2013-present	Associate Professor with Tenure , Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL
2013-present	Member , FAU Brain Institute, Florida Atlantic University, Boca Raton, FL
2006-2013	Assistant Professor , Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL
2008-2010	Affiliated Assistant Professor of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, Miami, FL
Jan 2006-July 2006	Research Assistant Professor , Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL
2003-2005	Postdoctoral Fellow , Department of Biomedical Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL

AWARDS

2024	2023-2024 William R. Jones Outstanding Mentor Award, Florida Education Fund
2021	Researcher of the Year at the Associate Professor level, FAU
2009	Excellence in Graduate Mentoring Award, Florida Atlantic University
2002	Stanley L. Twomey Memorial Award, University of Kansas
2002	Graduate Student Travel Award, Taiwanese Neuroscience Association
1997	P & G Fellowship, University of Science and Technology of China, Hefei, Anhui, P. R. China

RESEARCH INTEREST

Neurodegeneration and regeneration, Protein misfolding, Protein trafficking, Cellular stresses, Proteomics, Neuronal network activity

SOCIETY MEMBERSHIP

The Society for Neuroscience

TEACHING EXPERIENCE

- Multi-omic applications towards understanding health and disease, PCB6933 (2024-present, Course Developer and Instructor)
- Brain Diseases: Mechanisms/Therapy (BMS6736, 2024-present, Course Developer and Instructor)
- Adult Neurogenesis, PCB6848 (2009-2023, Course Developer and Instructor)
- Biomedical Concepts and Translational Applications, GMS6841 (2018-2023, Course Developer and co-course Director)
- Fundamental Topics in Human Health (2017, Course developer and co-course Director)
- Introduction to biological Research BSC3453 (2019, invited speaker for one lecture)
- Graduate seminar, PCB6934 (2007-2008, instructor)
- Topics in Biomedical Sciences I, PCB6933 (2008, instructor)
- Integrative Biology I, BSC 6390 (2009, invited speaker for one lecture)
- Introduction to honors I, BSC 4905 (2012,2015, invited speaker for one lecture)
- Problem-Based Learning in Medical Teaching (2008-present, Core Facilitator)

MENTORING EXPERIENCE

- Ph.D. students: Ian Gaudet (2022-present), Gianna Cannestro (2022-present), Tyler Sarovich (2024-present), Genevieve Liddle (2018-2022), Rebecca Leon (2008-2012), Mark McCollum (2006-2012)
- M.S. Students: Daniel Rush (2010-2012), Nithya Bhagathula (2006-2008)
- Medical Student Fast Track Summer Research Internship: Emily Gordon (5/2022-7/2022), Sunil Raju (6/2021-8/2021), Katherine Johnson (6/2019-8/2019)
- Postdoctoral Fellow: Mark McCollum (Aug, 2012-Dec. 2012), Yuhao Qiang (Jan 2019-Aug. 2019)
- Research Assistants: Hongyuan Xu (2018-present), Mathew Sacino (2012-2014), Christine Erie (2012-2014)
- Supervisors of 16 graduate students and 27 undergraduate students who conducted directed independent research activities in the lab.
- Supervisors of 4 high school students who conducted directed independent research activities in the lab.

GRANTS

In recent three years

1. **Florida Department of Health (7/23/2025-6/30/2026)**. Title: Targeting Actin-Microtubule Network to Enhance Taxane Efficacy in Advanced Prostate Cancer. **Role: Co-I**. Total amount: \$274,558.

2. **1R21NS136077 (NIH/NINDS, 07/10/2024 to 06/30/2026)** Title: The involvement of GPR37L1 on a chronic migraine-like state. **Role: Co-I.** Total amount: \$419,375.
3. **1R01EB025819-01 (NIH/NIBIB, 9/15/2017-6/30/2023)** Title: SCH: INT: Virtual Neuroprosthesis: Restoring Autonomy to People Suffering From Neurotrauma. **Role: multi-PI** (Other PIs: Drs. Erik Engeberg (contact PI), Sarah Du, Emmanulle Tognoli, Douglas Hutchinson). Total amount: \$1,297,577.
4. **1R21NS111202-01 (NIH/NINDS, 4/1/2019-3/31/2023)** Title: Dynamic network analysis of huntingtin interactome in response to cellular stresses. **Role: PI.** Total amount: \$342,081 (Direct: \$275,000).
5. **3R01EB025819-04S1 (NIH/NIBIB, 9/1/2020-6/30/2023)** Title: Alzheimer's disease supplement for virtual neuroprosthesis. **Role: PI.** Total amount: \$349,939 (Direct: \$250,000).
6. **9AZ06 (Department of Health, Florida, 03/01/2019-2/28/2022)** Title: Effect of neuronal activity on synaptopathy in Alzheimer's disease using a novel multi-electrode microfluidic platform. **Role: PI.** Total amount: \$95,000 (Direct: \$82,609).

PAST

1. **Brain Institute Pilot Grant/FAU,** 03/10/2017-09/09/2018, Title: Lysosomal Positioning in the Pathogenesis of Huntington's Disease. **Role: PI.** Total amount: \$20,000.
2. **i-SENSE-FAU** 01/09/2017-01/08/2018, Title: Robotic Symbiosis with Neuronal Action Potential Sensing Electrodes (ROBO-SYNAPSE): Network Connection To Link Living Systems with Robotic Devices. **Role: co-PI.** Total amount: \$20,000.
3. **R15NS066339-02 (NIH/NINDS)** 07/01/2012-06/30/2015, Title: Regulation of BimEL phosphorylation in the pathogenesis of Huntington's disease. **Role: PI.** Total amount: \$428,694.
4. **R15DA029863 (NIH/NIDA)** 07/01/2010-06/30/2013, Title: Mechanisms of sudden onset of malignant MDMA toxicity. **Role: Co-I.** Total amount: \$287,775.
5. **R15DC012425-01A1 (NIH/NIDCD)** 9/13/2012-9/12/2015, Title: BDNF over-expression and olfactory neurogenesis. **Role: Co-I.** Total amount: \$430,000.
6. **FAU Seed grant** 1/1/2012-12/31/2013, Title: Regulation of BimEL phosphorylation in the pathogenesis of Huntington's disease. **Role: PI.** Total amount: \$20,000
7. **R15NS066339-01 (NIH/NINDS)** 07/01/2009-06/30/2012, Title: Regulation of BimEL phosphorylation in the pathogenesis of Huntington's disease. **Role: PI.** Total Amount: \$211,200.
8. **07KB-08 Bridge Grant (State of Florida)** 07/01/2007-6/30/2008, Title: Regulation of GABA Biosynthesis in the Brain. **Role: Co-I.** Total amount: \$173,223.
9. **New Project Development Award (FAU)** 06/01/2007-05/31/2008, Title: Neuron Protective Effect of Granulocyte-Colony Stimulating Factor in a Model of Huntington's

Disease. **Role: PI.** Total amount: \$10,000.

PUBLICATIONS

Journal Publications

1. Iannotta L, Fasiczka R, Favetta G, Zhao Y, Giusto E, Dall'Ara E, Wei J, Ho FY, Ciriani C, Cogo S, Tessari I, Iaccarino C, Liberelle M, Bubacco L, Taymans JM, Manzoni C, Kortholt A, Civiero L, Hilfiker S, Lu ML, Greggio E. PAK6 rescues pathogenic LRRK2-mediated ciliogenesis and centrosomal cohesion defects in a mutation-specific manner. *Cell Death Dis.* 2024 Oct 17;15(10):752. doi: 10.1038/s41419-024-07124-4. PMID: 39419978; PMCID: PMC11487180.
2. Gaudet ID, Xu H, Gordon E, Cannestro GA, Lu ML, Wei J. Elevated SLC7A2 expression is associated with an abnormal neuroinflammatory response and nitrosative stress in Huntington's disease. *J Neuroinflammation.* 2024 Feb 28;21(1):59. doi: 10.1186/s12974-024-03038-2. PMID: 38419038; PMCID: PMC10900710.
3. Breitwieser GE, Cippitelli A, Wang Y, Pelletier O, Dershem R, Wei J, Toll L, Fakhoury B, Brunori G, Metpally R, Carey DJ; Regeneron Genetics Center; Robishaw J. Rare GPR37L1 Variants Reveal Potential Association between GPR37L1 and Disorders of Anxiety and Migraine. *J Neurosci.* 2024 May 8;44(19):e1226232024. doi: 10.1523/JNEUROSCI.1226-23.2024. PMID: 38569927; PMCID: PMC11089846.
4. Ades C, Abd MA, Hutchinson DT, Tognoli E, Du E, Wei J, Engeberg ED. Biohybrid Robotic Hand to Investigate Tactile Encoding and Sensorimotor Integration. *Biomimetics (Basel).* 2024 Jan 27;9(2):78. doi: 10.3390/biomimetics9020078. PMID: 38392124; PMCID: PMC10886511.
5. Xu, H., Bensale, J., Raju, S., Capobianco, E., Lu, M., Wei, J. Characterization of huntingtin interactomes and their dynamic responses in living cells by proximity proteomics. *J Neurochem.* 2023, 164(4): 512-528.
6. Xu H, Bensalel J, Capobianco E, Lu ML, Wei J. Impaired Restoration of Global Protein Synthesis Contributes to Increased Vulnerability to Acute ER Stress Recovery in Huntington's Disease. *Cell Mol Neurobiol.* 2022 42 (8): 2757-2771. PMID: 34347195.
7. Ades C, Abd MA, Du E, Wei J, Tognoli E, Engeberg ED. Robotically Embodied Biological Neural Networks to Investigate Haptic Restoration with Neuroprosthetic Hands. *IEEE Haptics Symp.* 2022 Mar;2022:10.1109/haptics52432.2022.9765605. doi: 10.1109/haptics52432.2022.9765605. Epub 2022 May 5. PMID: 37822968; PMCID: PMC10566548.
8. Bensalel J, Xu H, Lu ML, Capobianco E, Wei J. RNA-seq analysis reveals significant transcriptome changes in huntingtin-null human neuroblastoma cells. *BMC Med Genomics.* 2021 Jul 2;14(1):176. doi: 10.1186/s12920-021-01022-w. PMID: 34215255; PMCID: PMC8252266.
9. Galpayage Dona, K., Du, E., Wei, J. An impedimetric assay for the identification of abnormal mitochondrial dynamics in living cells. *Electrophoresis* (2020). 10.1002/elps.202000125.
10. Louis P, Mercer B, Cirone AM, Johnston C, Lee ZJ, Esiobu N, Li Z, Wei J, Dorey CK, Shibata Y, Nan C. Dietary Chitin Particles Called Mimetic Fungi Ameliorate Colitis in

- Toll-Like Receptor 2/CD14- and Sex-Dependent Manners. *Infect Immun.* 2019 Apr 23;87(5).
11. Davis S, Cirone AM, Menzie J, Russell F, Dorey CK, Shibata Y, Wei J, Nan C. Phagocytosis-mediated M1 activation by chitin but not by chitosan. *Am J Physiol Cell Physiol.* (2018) 315 (1): C62-C72.
 12. Huang, N., Erie, C., Lu, M., Wei, J (2017) Aberrant subcellular localization of SQSTM1/p62 contributes to increased vulnerability to proteotoxic stress recovery in Huntington's disease. *Mol. Cell. Neurosci.* 88: 43-52. PMID: PMC5893379.
 13. Chou CC, Modi JP, Wang CY, Hsu PC, Lee YH, Huang KF, Wang AH, Nan C, Huang X, Prentice H, Wei J, Wu JY. (2017) Activation of Brain L-glutamate Decarboxylase 65 Isoform (GAD65) by Phosphorylation at Threonine 95 (T95). *Mol Neurobiol.* 54(2):866-873
 14. Erie C, Sacino M, Houle L, Lu M, Wei J. (2015) Altered lysosomal positioning affects lysosomal functions in a cellular model of Huntington's disease. *Eur J Neurosci.* 42(3): 1941-51. PMID: PMC4523460.
 15. Liu X, Busby J, John C, Wei J, Yuan X, Lu ML. (2013) Direct Interaction between AR and PAK6 in Androgen-Stimulated PAK6 Activation. *PLoS One.* 8(10):e77367.
 16. McCollum, M., Leon, R., Rush, D., Guthrie, K., Wei, J. (2013) Striatal oligodendroglioneogenesis and neuroblast recruitment is increased in the R6/2 mouse model of Huntington's disease. *Brain Res.* 1518, 91-103. PMID: PMC3684253.
 17. McGreal, R.S., Brennan, L.A., Kantorow, W.L., Wilcox, J.D., Wei, J., Chauss, D., Kantorow, M. (2013) Chaperone-independent mitochondrial translocation and protection by α B-crystallin in RPE cells. *Exp Eye Res.* 110, 10-7.
 18. Brennan, L.A., Kantorow, W.L., Chauss, D., McGreal, R., He, S., Mattucci, L., Wei, J., Riazuddin, S.A., Cvekl, A., Hejtmancik, J.F., Kantorow, M. (2012) Spatial expression patterns of autophagy genes in the eye lens and induction of autophagy in lens cells. *Mol. Vis.* 18, 1773-86.
 19. McGreal, R.S., Kantorow, W.L., Chauss, D.C., Wei, J., Brennan, L.A., Kantorow, M. (2012) α B-crystallin/SHSP protects cytochrome c and mitochondrial function against oxidative stress in lens and retinal cells. *Biochim Biophys Acta.* 820(7), 921-30.
 20. Rush, D., Leon, R., McCollum, M., Treu, R., Wei, J. (2012) Palmitoylation and trafficking of GAD65 is impaired in a cellular model of Huntington disease. *Biochem J.* 442(1) 39-48. PMID: PMC4646170.
 21. Krishnamoorthy, S., Ma, Z., Zhang, G., Wei, J., Auerbach, SB., Tao, R. (2010) Involvement of 5-HT(2A) Receptors in the Serotonin (5-HT) Syndrome caused by Excessive 5-HT Efflux in Rat Brain. *Basic Clin Pharmacol Toxicol.* 107 (4), 830-41.
 22. McCollum, M., Ma, Z., Cohen, E., Leon, R., Tao, R., Wu, J-Y., Maharaj, D., Wei, J. (2010) Post-MPTP treatment with granulocyte colony-stimulating factor improves nigrostriatal function in the mouse model of Parkinson's disease. *Mol Neurobiol.* 41(2-3), 410-9.
 23. Leon, R., Bhagavatula, N., Ulukpo, O., McCollum, M., Wei, J. (2010) BimEL as a possible molecular link between proteasome dysfunction and cell death induced by mutant huntingtin. *Eur J Neurosci.* 31, 1915-1925. PMID: PMC2931320.
 24. Leon, R., Wu, H., Jin, Y., Wei, J., Buddhala, C., Prentice H., Wu, J-Y. (2009) Protective function of taurine in glutamate-induced apoptosis in cultured neurons. *J Neurosci Res.* 87(5), 1185-94.

25. Sha, D., Jin, Y., Wu, H., Wei, J., Lin, C.H., Lee, Y.H., Buddhala, C., Kuchay, S., Chishti, A.H., Wu, J-Y. (2008) Role of mu-calpain in proteolytic cleavage of brain L-glutamic acid decarboxylase. *Brain Res.* 1207:9-18.
26. Wu, H., Jin, Y., Buddhala, C., Osterhaus, G., Cohen, E., Jin, H., Wei, J., Davis, K., Obata, K., Wu, J-Y. (2007) Role of glutamate decarboxylase (GAD) isoform, GAD(65), in GABA synthesis and transport into synaptic vesicles-Evidence from GAD(65)-knockout mice studies. *Brain Res.* 1154, 80-3.
27. Jin, Y., Wu H, Cohen EM, Wei, J., Jin H, Prentice H, Wu J-Y. (2007) Genistein and daidzein induce neurotoxicity at high concentrations in primary rat neuronal cultures. *J Biomed Sci.* 14(2):275-84.
28. Wei, J., Lin, C-H., Wu, H., Jin, Y., Lee, Y-H., and Wu, J-Y. Activity Dependent Cleavage of Brain Glutamic Acid Decarboxylase 65 by Calpain (2006) *J. Neurochem.* 98(5), 1688-95.
29. Wei, J., and Wu, J-Y. Structural and Functional Analysis of Cysteine Residues in Human Glutamate Decarboxylase 65 (GAD65) and GAD67. (2005) *J. Neurochem.* 93 (3), 624-633.
30. Jin, H., Sha, D., Wei, J., Davis, K.M., Wu, H., Jin, Y., and Wu, J-Y (2005). Effect of apocalmulin on recombinant human brain glutamic acid decarboxylase. *J. Neurochem.* 92, 739-48.
31. Sha, D., Wei, J., Wu, H., Jin, Y., and Wu, J-Y. (2005) Molecular cloning, expression, purification, and characterization of shorter forms of human glutamic decarboxylase 67 in an E. coli expression system. *Brain Res. Mol. Brain Res.* 136 (1-2), 255-61.
32. Wu, H., Jin, Y., Wei, J., Jin, H., Sha, D., and Wu, J-Y. (2005) Mode of action of taurine as a neuroprotector. *Brain Res.* 1038 (2), 123-131.
33. Wei, J., Davis, K.M., Wu, H., and Wu, J-Y. (2004) Protein phosphorylation of human brain glutamic acid decarboxylase (GAD)65 and GAD67 and its physiological implications. *Biochemistry* 43, 6182-89.
34. Wei, J., Jin, Y., Wu, H., and Wu, J-Y. (2003) Identification and functional analysis of truncated human glutamic acid decarboxylase 65. *J. Biomed. Sci.* 10, 617-24.
35. Sha, D., Wei, J., Jin, H., Wu, H., Osterhaus, G. L., and Wu, J-Y. (2003) Effect of taurine on regulation of GABA and acetylcholine biosynthesis. *Adv Exp Med Biol.* 526, 499-505.
36. Chen, R., Wei, J., Fowler, S.C., and Wu, J.Y. (2003) Demonstration of functional coupling between dopamine synthesis and its packaging into synaptic vesicles. *J. Biomed. Sci.* 10, 774-81.
37. Jin, H., Wu, H., Osterhaus, G., Wei, J., Davis, K., Sha, D., Floor, E., Hsu, C.C., Kopke, R.D., and Wu, J.Y. (2003) Demonstration of functional coupling between gamma-aminobutyric acid (GABA) synthesis and vesicular GABA transport into synaptic vesicles. *Proc. Natl. Acad. Sci. USA* 100, 4293-98.
38. Zhu, M.Z., Wei, J., Wu, Q.H., Zheng, X.Q., and Guo, Q.X. (2000) A synthetic study of neutral and cationic cholesteryl derivatives as gene vectors. *Syn. Comm. (USA)* 30(13), 2325.
39. Zhu, M.Z., Wei, J., Wu, Q.H., Zheng, X.Q., and Guo, Q.X. (2000) Synthesis of novel cationic lipids bearing cholesteryl groups as gene vectors. *Chinese Chemical Letter* 11(7), 577-580.

40. Zhu, M.Z., Wei, J., Wu, Q.H., Zheng, X.Q., Guo, Q.X., and Liu, Y.C. (1999) Biodegradable cationic lipids bearing cholesteryl groups: A synthetic study. *Journal of Xiamen University* 38 (sup), 547.

Reviews and Book Chapters

1. Wei, J and Wu, J-Y. (2008) Post-translational regulation of L-glutamic acid decarboxylase in the brain. *Neurochemical Res* 33, 1459-65.
2. Wu, J-Y., Wu, H., Jin, Y., Wei, J., Sha, D., Prentice, H., Lee, H-H., Lin, C-H., Lee, Y-H., Yang, L-L. (2008) Mechanism of neuroprotective function of Taurine. In: *Taurine 7* (Lombardini, J.B. and Schaffer, S.W., eds) Kluwer Academic/Plenum Publisher, New York. Pp. 169-179.
3. Sha, D., Wei, J., Jin, H., Wu, H., Osterhaus, G.L. and Wu, J.-Y. (2003) Effect of taurine on regulation of GABA and acetylcholine biosynthesis. In: *Taurine 5* (Lombardini, J.B. and Schaffer, S.W., eds) Kluwer Academic/Plenum Publisher, New York. Pp. 499-505.

Meeting Abstracts

1. Wei, J., Xu, H., Beliard, E., Capobianco, E., Lu, M. Dynamic analysis of huntingtin interactomes in response to proteotoxic stress. *Soc. Neurosci. Abstr.* (2021-S-6225-SfN).
2. Ades, C., Abd, M., Liddle, G., Lin, M., Du, E., Wei, J., Tognoli, E., Engeberg, E. A Closed-Loop Neuroprosthetic Platform to Study Afferent and Efferent Transmission in the Hand (# 477) *Computational and Systems Neuroscience (Cosyne)* 2021.
3. Wei, J., Xu, H., Capobianco, E., Lu, M. Dynamic analysis of huntingtin interactomes, normal and diseased, in response to proteotoxic stress. *SfN Global Connectome* (Jan 11-13, 2021). 2021-S-1300-SfN.
4. Liddle, G., Abd., M., Engeberg, E., Tognoli, E., Du, E., Wei, J. A Study of Activity-Dependent Synaptic Plasticity in Primary Huntington's Disease Neurons by Means of Microfluidic Electrical Stimulation. *FAU Research day showcase*. 9/26/2019
5. Johnson, K., Wei, J. The Integrated Stress Response is Differentially Regulated in Huntington's Disease. *FAU Medical Research Day*. 2/28/20.
6. Liddle, G., Abd., M., Engeberg, E., Tognoli, E., Du, E., Wei, J. A Study of Activity-Dependent Synaptic Plasticity in Primary Alzheimer's Neurons by Means of Microfluidic Electrical Stimulation. *FAU Graduate Study Research Day*. April. 10th, 2020. (poster abstract submitted on 3/18/2020, virtual presentation cancelled due to the COVID-19 outbreak)
7. Microglial dynamics in Huntington's disease: Physical interactions between microglia and synaptic nerve terminals. Johanna Bensalel, Nicole Rosa, Jianning Wei. *FAU undergraduate research symposium*, 4/8/2019.
8. A Noninvasive Microfluidic Platform: Understanding How Hand Actions and Nerve Regeneration Play Hand-to-hand". Genevieve Liddle, Moaed Abd, Erik Engeberg, Sarah Du, Emmanuelle Tognoli, Jianning Wei, *Third Annual Neural Engineering Symposium in Miami* 4/4/2019

9. Sacino, M., Lambrino, N., Erie, C., Lu, M., Wei, J. (2013) Impairment of Parkin-mediated mitophagy in Huntington's disease. Soc. Neurosci. Abstr. (2013-S-13500-SfN).
10. McCollum, M., Rush, D., Leon R., Guthrie, K., Wei, J. (2012) Striatal oligodendroglioneogenesis and neuroblast recruitment is increased by BDNF overexpression in the R6/2 transgenic mouse model of Huntington's disease. Soc. Neurosci. Abstr. (2012-S-18145-SfN).
11. Tao, R., Ma, Z., Adams, H., O'Malley, B.D., Tran, P., Wei, J. (2011) Effect of MDMA on integrity of serotonergic projections from dorsal raphe nucleus to prefrontal cortex. Soc. Neurosci. Abstr. Program No. 690.14.
12. McCollum, M., Rush, D., Leon, R., Wei, J. (2011) Adult striatal neurogenesis is altered in the R6/2 transgenic mouse model of Huntington's disease. Soc. Neurosci. Abstr. Program No. 557.02.
13. Rush, D., Leon, R., McCollum, M., Treu, R., Wei, J. (2011) Palmitoylation and trafficking of GAD65 is impaired in a cellular model of Huntington disease. Soc. Neurosci. Abstr. Program No.148.06.
14. McCollum, M., Rush, D., Leon, R., Wei, J., (2010) Dopaminergic modulation of adult neurogenesis in the striatum using transgenic mouse model of Huntington disease. Soc. Neurosci. Abstr. Program No. 235.13.
15. Leon R., McCollum M., Rush, D., Wei, J. (2010) BimEL as a key molecule in regulating mHtt-induced cell death. Soc. Neurosci. Abstr. Program No.860.3.
16. Bhagathula, N., Ulukpo, O., Wei, J. (2008) Polyglutamine aggregates stimulate ER stress and triggers apoptosis by activating BH3-only protein Bim. FAU Research Fair.
17. Leon, R., Buddhala, C., Bhagathula, N., Wu, J-Y., Wei, J. (2007) Neuron protective effect of taurine against glutamate-induced excitotoxicity. FAU Research Fair.
18. Wu, J-Y., Wei, J. (2004) Cysteine 446 is crucial for human glutamate decarboxylase (GAD), GAD65, activity. CP4-02, Amer. Soc. Neurochem. Annual meeting. Aug 14-18.
19. Wu, J-Y., Wei, J., Jin, H., Wu, H., Sha, D., Jin, Y. (2003) Characterization of full length and truncated L-glutamate decarboxylase. BP08-04. Amer. Soc. Neurochem. Annual meeting. May 4-8.
20. Chen, R., Wei, J., Fowler, S.C., Wu, J-Y. (2002) Cocaine-induced behavioral sensitization and functional changes in plasmalemmal and vesicular dopamine transporter. Soc. Neurosci. Abstr. Program No. 898.12.
21. Wei, J., Osterhaus, G., Wu, H., Davis, K.M., Jin, H., Sha, D., Wu, J-Y., Floor, E. (2002) Role of truncated human glutamate decarboxylase 65 (hGAD65) in GABA biosynthesis. Soc. Neurosci. Abstr. Program No. 837.18.
22. Wang, J.H., Wei, J. (2001) The regulation of unitary synaptic responses to multipulse inputs. Soc. Neurosci. Abstr. Program No. 501.1.
23. Wei, J., Kelly, P., Floor, E., Wang, J.H. (2000) Ca²⁺/CaM signal pathways enhance the function of GABAergic synapses through cytoskeleton-mediated mechanisms. Soc. Neurosci. Abstr. Program No. 522.3.
24. Wei, J., Wang, J.H. (2000) The polymerization of postsynaptic tubulin and actin involved in Ca²⁺/CaM-induced potentiation of glutamatergic synapses on CA1 interneurons. Soc. Neurosci. Abstr. Program No. 335.4.

25. Zhu, M.Z., Wei, J., Wu, Q.H., Zheng, X.Q., and Guo, Q.X. Synthesis and characterization of cationic lipids bearing cholesteryl groups for gene delivery in vitro. the 6th International Symposium for Chinese Organic Chemists ISCOC-2000, Shanghai.

PRESENTATIONS AND INVITED LECTURES

1. The role of BH3-only protein BimEL in the pathogenesis of Huntington's disease. FAU/MPFI Neuroscience Symposium. Sep. 28, 2010.
2. Parkinson's Disease: Challenges, Progress and Promise. Neuroscience Seminar. FAU. Sep. 11, 2007

PROFESSIONAL DEVELOPMENT

Seminar or Workshop

1. iPSC maintenance and differentiation workshop, STEMCELL Technologies, 11/10/2019 and 11/12/2019, Virtual workshop.
2. Exploring Frontiers: the future of brain health research. The Paul. G. Allen Frontiers Group. 10/7/2019. Virtual seminar.
3. GLIA in Health and Disease- CSHL Virtual Meeting 2020, 7/16-7/19, 2020
4. NIS-Elements End User workshop, Nikon, 12/12-12/14, 2017, FAU Jupiter. perform image analysis in NIS-Elements (Nikon's image acquisition and analysis software) with hands-on exercises.

Certification

1. Certificate of Completion: R programming A-Z™: R for Data Science with Real Exercises. Udemy, 11/3/2020.
2. R programming for Statistics and Data Science 2023, 5/12/2023
3. MATLAB Onramp, 6/13/2023

PROFESSIONAL SERVICE

Committees (only representative committees are listed)

FAU IACUC committee (Member, 2017-present), College Research Committee (Member, 2019-present), Faculty Search Committee (Member, 2019, Chair, 2020), Comparative Medicine (CM) Advisory Committee (Member, 2019-present), FAU Cell Imaging Core Advisory Committee (Member, 2019-present), FAU Institutional Biosafety Committee (Member, 2008-2018), FAU College of Medicine Graduate Admission Committee (Member, 2013-2015), FAU College of Medicine Admission Committee (Member, 2011-2013)

Ad hoc reviewer

- NIH S10 Flow Cytometry review panel, CB-J (30) Study section, July, 8-9, 2009.
- *Ad Hoc* reviewer for NIH Challenge Grant Initiatives (NIH, RFA-OD-09-003), 2009.
- *NSF reviewer*, 2021-present

Peer reviewer

Annals of Microbiology, Pharmacological reports, Molecular and Cellular proteomics, Journal of Biomedical Science, BMC Neurology, Journal of Neural Regeneration Research, Molecular Neurobiology, Neurobiology of Disease, Brain Research, Scientific Reports

Lead Guest Editor

Special Issue in Journal of Amino Acids “Protein Modifications in Neurodegenerative Diseases” (March, 2011-Dec. 2011)

Judge, Poser Session

Medical Students Research and Scholarship Day (2/28/2020, 3/1/2019, 2/23/2018, 2/24/2017, 3/13/2015, 3/22/2013), COM Graduate Research Day (4/5/2019), GPSA Research Day (4/4/2014)



**Palm Beach
Atlantic**
UNIVERSITY

Debra A. Schwinn
President
Palm Beach Atlantic University

November 12, 2025

Marc Kantorow, Ph.D, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL 33467
561-297-2910

Dear Dr. Kantorow:

On behalf of Palm Beach Atlantic University, I am pleased to express our support for the new College of Medicine, Ph.D. program in Health Science Innovation & Technology at Florida Atlantic University.

We are enthusiastic about the unique vision of this program and believe it will play a meaningful role in providing talent for the advancing economic and workforce needs of South Florida.

Sincerely,

Dr. Debra A. Schwinn
President & Professor of Health Sciences
Palm Beach Atlantic University

Dr. Stephen P. Johnson
Provost & Chief Academic Officer
Palm Beach Atlantic University



UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

OFFICE OF GRADUATE STUDIES

November 24, 2025
Marc Kantorow, PhD, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL 33467

Dear Dr. Kantorow,

On behalf of the University of Miami, Miller School of Medicine, I am pleased to express my support for the new PhD degree in Health Science Innovation and Technology at the Charles E. Schmidt College of Medicine at Florida Atlantic University.

We are enthusiastic about the unique vision of this program and believe it will play a meaningful role in developing talent for the advancing the economic and workforce needs of biomedical science in South Florida.

Sincerely,

Coleen Atkins, PhD
Associate Professor, Neurological Surgery
Associate Dean of Graduate Education
University of Miami Miller School of Medicine



UNIVERSITY OF CENTRAL FLORIDA

Vice President for Health Affairs

Dean, College of Medicine
Health Sciences Campus at Lake Nona
6850 Lake Nona Blvd.
Orlando, FL 32827-7408

November 5, 2025

Marc Kantorow, Ph.D, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL 33467

Dear Dr. Kantorow,

I am pleased to write a letter of support for the development of a new Ph.D. program in Health Science Innovation & Technology at the Schmidt College of Medicine at Florida Atlantic University.

This program would allow many of our Florida students to pursue advanced education in a field that is important to the health and well-being of Florida residents. As the Dean of the UCF College of Medicine, I can attest to the need. UCF College of Medicine has >2500 undergraduates (in Burnett School), many of whom are preparing for Ph.D. graduate school as a next step in their training. This proposed program would open opportunities for those who cannot be accommodated by our current programs. Our curriculum for Biomedical Science is an intense series of molecular, cellular and physiology courses and labs that prepare students for research careers. Many of these undergraduates are eager to apply their basic science skill sets to more applied science in graduate school, as described for the Health Science Innovation & Technology Program. This program would be complementary to ours and would allow us to provide a full menu of offerings to our students and community.

I support the notion that graduates of this program will play a pivotal role in meeting the growing demand for scientific and technological innovation within Florida's expanding healthcare and biomedical enterprise. This program has my full support.

Sincerely,

Deborah C. German, M.D.
Vice President for Health Affairs
Dean, UCF College of Medicine



**DR. KIRAN C. PATEL COLLEGE
OF ALLOPATHIC MEDICINE**
3300 South University Drive
Fort Lauderdale, Florida 33328-2004
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November 24, 2025

Marc Kantorow, Ph.D, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL 33467
561-297-2910

Dear Dr. Kantorow:

On behalf of the Kiran C. Pate College of Allopathic Medicine at Nova Southeastern University, I am pleased to express our support for the new College of Medicine, Ph.D.program in Health Science Innovation & Technology at Florida Atlantic University.

We are enthusiastic about the unique vision of this program and believe it will play a meaningful role in providing talent for the advancing economic and workforce needs of South Florida.

Sincerely,

Candice Sareli

Candice Sareli, MBBCh
Vice President of Human Research Affairs, NSU Health
Associate Dean of Research, Kiran C. Pate College of Allopathic Medicine
Nova Southeastern University
3300 S. University Drive; Davie, FL 33328
Terry Building #1504
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**PALM BEACH STATE
COLLEGE**

Vice President of
Academic Affairs

4200 Congress Avenue
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561.868-3147 Office
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November 4, 2025

Dr. Marc Kantorow, Ph.D, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
777 Glades Road, SU 80
Boca Raton, FL 33431

Dear Dr. Kantorow,

On behalf of Palm Beach State College, I am pleased to offer enthusiastic support for Florida Atlantic University Schmidt College of Medicine's proposed Ph.D. program in Health Science Innovation Technology. This visionary initiative aligns strongly with our institutional commitment to educational excellence, innovation, and workforce preparation within South Florida's dynamic healthcare environment.

Palm Beach State College has long prioritized academic programs that address the critical needs of our region's healthcare and biomedical sectors. The proposed doctoral program's focus on biotechnology, drug discovery, medical device technology, and healthcare applications will further develop a talent pipeline essential for advancing South Florida's position as a hub for scientific and technological innovation.

We recognize the importance of cultivating advanced competencies in both our students and graduates, and we look forward to exploring collaborative arrangements—such as research partnerships, experiential learning opportunities, and faculty exchange programs—that serve our mutual goals. This program directly supports our workforce development strategies and advances our shared commitment to preparing the next generation of scientific leaders and innovators.

In conclusion, Palm Beach State College fully endorses the creation of FAU's Ph.D. in Health Science Innovation Technology. We eagerly anticipate the lasting positive impact this program will have on our community, our students, and the broader healthcare and biomedical enterprise throughout South Florida.

Thank you for the opportunity to support this important initiative.

Sincerely,

A handwritten signature in black ink that reads "Roger L. Yohe".

Roger L. Yohe, Ph.D.
Interim Vice President of Academic Affairs

January 29, 2026

Marc Kantorow, Ph.D, FARVO
Associate Dean for Graduate Programs
Professor of Biomedical Science
Schmidt College of Medicine
Florida Atlantic University
Boca Raton, FL 33467
561-297-2910

Dear Dr. Kantorow,

On behalf of Baptist Health South Florida, I am pleased to express my strong support for the development of a new Ph.D. program in Health Science Innovation & Technology within the College of Medicine at Florida Atlantic University. This program represents a strategic opportunity to advance cutting-edge medical technology research while preparing highly trained scientists and innovators for the future of healthcare. I believe it will meaningfully contribute to meeting the workforce and innovation needs of South Florida through rigorous academic and translational training. The program also aligns well with the growing need for collaboration between academic medicine, health systems, and industry. Baptist Health South Florida enthusiastically supports its development and long-term impact.

Sincerely,



Samer Fahmy, MD, FACP

Chief Medical Executive

Vice President, Quality, Patient Safety, Informatics & Academic
Medicine

Baptist Health South Florida

SFahmy@baptisthealth.net | 561-459-9405

Student Feedback Requested – New **FAU** **College of Medicine** Ph.D. Proposal

The New Proposed FAU College of Medicine Health Science Innovation and Technology PhD program will provide an interdisciplinary training program for students in state-of-art concepts, methodology and research in health science. Concentration areas include human genetics and genomics, applied bioinformatics for health sciences and integrated human systems physiology and disease. This PhD program will offer a unique curriculum for scientists who want to impact patient care by developing innovations to prevent, diagnose, and treat disease

* Required

1. What is your current program of study? *

- ☐ MS Biomedical Science (Thesis)
- ☐ MS Biomedical Science (Non-Thesis)
- ☐ Other

2. What year of your Master's program are you in? *

- ☐ 1st Year
- ☐ 2nd Year
- ☐ Completed Coursework / Thesis Stage
- ☐ Alumni
- ☐ Other

3. Are you interested in pursuing a doctoral degree after completing your Master's? *

- ☐ Yes, definitely
- ☐ Yes, possibly
- ☐ Not sure
- ☐ No

4. If yes, which type of doctoral program are you most interested in?

- ☐ PhD in Biomedical Science
- ☐ PhD in Health Science Innovation & Technology
- ☐ Integrative Biology
- ☐ Other

5. If FAU College of Medicine offered a PhD program (e.g. the proposed PhD in Health Science Innovation & Technology) how likely would you be to apply?

- ☐ Very likely
- ☐ Somewhat likely
- ☐ Unsure
- ☐ Unlikely

6. Which factors would most influence your decision to apply? (check all that apply)

- ☐ Research opportunities with faculty
- ☐ Program focus (innovation, genomics, technology)
- ☐ Location (South Florida)
- ☐ Cost/assistantship availability
- ☐ Career outcomes
- ☐ Other

7. What are your long-term career goals? (check all that apply)

- ☐ Academic research
- ☐ Industry (biotech, pharma, health tech)
- ☐ Government/Policy/Regulatory
- ☐ Clinical/Healthcare Practice
- ☐ Other

8. Do you feel the proposed new PhD program in Health Science Innovation & Technology would prepare you for your intended career path?

- ☐ Yes
- ☐ Somewhat
- ☐ No

9. What specific program features would make the proposed PhD most appealing to you?

10. Do you have any concerns about pursuing a PhD at FAU?

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