December 19, 2023

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
Primate Social Behavior and Endocrinology

Raymond DuVarney, Department of Physics
Microcomputer Amperometry Interface Fabrication

Joseph Justice, Department of Chemistry, and Daryll Neill, 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
Masters 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 Adviser: Dr. Joseph T. Coyle
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, Intergrative 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
Phi Beta Kappa	1981
Sigma Xi 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, ACNP	1999
Charles R. Park Prize for Basic Research	2003
Distinguished Investigator Award, NARSAD	2005
Zenith Award, Alzheimer's Association	2005
Julius Axelrod Award, ASPET	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
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	2022

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

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)

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

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
Burry 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 (*ex officio*)	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 Representatitve	2020-2021
AAAS Electorate Nominating Committee	2021-present
FAU John D. MacArthur Campus Strategic Planning Task Force	2021

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

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 or Lecturer	2012-2016
Neuroscience Seminar Series, Director	2016-present
Advanced Psychophathology, FAU School of Social Work, Lecturer	2017
Integrative Biology (BSC 6390-001), GNTP Lecturer	2018
Science of Addiction (BSC 4930-10H), Lecturer	2018-present
FAU Center for Autism and Related Disabilities (CARD) Autism Training Program	2019
Neuroscience 1 (PSB 6345-001), Lecturer	2019-present
Graduate Neuroscience Program Bootcamp Program Lecturer	2021
Criminology & Criminal Justice-Virtual Community of Learners	2022
Neuroscience Graduate Program Bootcamp Program Lecturer	2022-present

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 Zaucha, 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.	Julieta 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, MPFI)	2018-2020
79.	Neymi Mignocchi, IB-NS PhD (IMPRS, MPFI)	2018-2020
80.	Amanda Kentner, IB-NS PhD (IMPRS, MPFI)	2018-2020
81.	Claire Rice-Kuchera, Exp Psychology PhD (FAU)	2018-2020
82.	Serena Sossi, IB-NS, Masters	2018-2019
83.	Lucas Thal, Chemistry PhD Program (Vanderbilt)	2018-2020
83.	Johnson Odibit, Masters in Fine Arts	2019
84.	Alaina Tillman, (FAU-Max Planck Honors Program)	2019-2020
85.	Danielle Riboul, IB PhD (FAU)	2020-present
86.	Goksu Oz, IB-NS, Ph. (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-present
90.	Nuran Kocak, IB-NS, Ph.D (IMPRS, MPFI)	2022-present
91.	Maria Smirnova, IB-NS, PhD	2023-present
92.	Anastasia Tyulmenkova, IB-NS, Ph.D.	2023-present

EDITORIAL BOARDS

Molecular Pharmacology, Field Editor	1995-2007
Journal of Biological Chemistry, Editorial Board	1999-2004
LENS, Editorial Board	2002-2008
Neuropsychopharmacology, Field Editor	2002-2007
Journal of Neuroscience, Editorial Board	2004-2009
Molecular Pharmacology, Editorial Board	2007-2012
Journal of Neurodevelopmental Disorders	2011-2020

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
NARSAD Young and Established Investigator Awards 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-present
BRAIN Initiative Project Multi-Council Working Group (Member)	2020-2021
NIMH Psychoactive Drug Screening Program, Committee (Chair)	2023

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, Montpelier, 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. Tennesee 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. Neuropharmacology Conference, 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 Psychophathology 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 Multidispinary 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, Boca Raton, FL 2022

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. Gordon Conference on Membrane Transport, Keynote Speaker, 2024

GRANT SUPPORT

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 *C. elegans*	2000-2005
28.	**NIH/NIHLBI P01 HL056693, Co-Inv (D. Roberton, 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. **NARSAD Distinguished Investigator Award**
A Knock-In Model to Elucidate Serotonin Specific Gene Regulatory Networks 2005-2006

39. **Wyeth Research Grant, PI**
Evaluation of The Interaction of Novel Norepinephrine Reuptake Inhibitors At the Norepinephrine Transporter 2005-2006

40. **Forest Research Institute, Research Grant, PI**
Interactions of Escitalopram and R-Citalopram With Human Serotonin Transporters 2005-2006

41. **NIH/NIMH Silvio O. Conte Center P50 MH078028, PI**
Genes Controlling Assembly and Function of Serotonin Systems 2007-2012

42. **NIH/NHLBI, PO1 HL56693, Co-Inv (D. Robertson, Vanderbilt PI)**
Autonomic Cardiovascular Regulation 2007-2012

43. **NIH/NIMH T32 MH065215, PI**
Postdoctoral Training Program in Functional Neurogenomics, PI 2008-2018

44. **Forest Research Institute, Research Grant, PI**
Dissection of the SSRI Actions at Serotonin Transporters using Integrated Structural Biology, Biochemical, and Transgenic Approaches 2008-2009

45. **NIH/NIDA R21 DA027739, PI**
Forward Genetics and the Presynaptic Dopamine Transporter 2009-2011

46. **NIH/NICHD R01 HD065278, PI**
Transgenic Mouse Model to Address Heterogeneity in Autism Spectrum Disorders 2009-2011

47. **NIH/NIMH R01 MH086530, Co-Inv (M. Sarter, U Michigan, PI)**
Choline Transporter Capacity Limits Motivated Behavior on Mice, Rats and Humans 2010-2015

48. **NIH/NCRR P41RR028133 Project Leader (R. Caprioli, Vanderbilt, PI)**
Imaging Mass Spectrometry Research Resource 2011-2015

49. **NIH/NIMH R21MH086033, PI**
Interleukin-1 (IL1) Receptor-Mediated Modulation of Serotonin Transporters 2011-2012

50. **AMGEN Research Project, PI**
Proline Transporter Neurobiology 2012-2013

51. **NIH/NIMH R01 MH095044, PI**
Presynaptic Regulation of *C. elegans* Dopamine Transporter 2012-2017

52. **NeuroDetective/Prexa, PI**
Impact of Novel Agents of Mutant Dopamine Transporters 2013-2013

53. **NeuroDetective/Prexa, PI**
Mechanisms of Action of DAT Inhibitors 2013-2014

54. **Lundbeck, Research Project, PI**
Dissection of the Role of the Presynaptic Serotonin Transporter in the Actions of Vortioxetine 2013-2014

55. **Institute for Psychiatric Neuroscience, PI**
Immune System Signaling Impact on Depression and Social Defeat Behaviors 2013-2014

56. **Dystonia Medical Research Foundation Research Award, PI**
Development of Novel Reagents to Augment Cholinergic Signaling in Dystonia 2014-2016

57. **Silvio O. Conte Center NIH/NIH P50 MH096972, PI**
Enduring Effects of Early-Life Serotonin Signaling 2012-2017

58. **Simons Foundation SFARI Research Award, PI**
Immune p38 MAPK Activation: Convergent Mechanism Linking ASD Models 2014-2017

59. **Pew Charitable Trusts, PI**

Procurement of Leading Technologies in Neuroscience 2017-2019

60. **NIH/NIMH 5R01 MH105094 (Blakely PI)**
Knock-In Mouse Model of Dopamine Dysfunction Underlying Traits of ADHD 2014-2020

61. **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 2020-2021

62. **Mangurian Center for Alzheimer's Disease Research** (Blakely) 2021-2022
Role of Copper Homeostasis in the Contribution of SWIP-10/MBLAC1 to Alzheimer's Disease

ACTIVE OR PENDING

1. **NIH/NIMH R01 MH094527 (Blakely, PI)**
Regulation of Serotonin Transporters 1992-2024

3. **ASCEND Program**
Advancing STEM-Community Engagement through Neuroscience Discovery
Stiles-Nicholson Foundation 2018-2024

4. **Community Foundation, (Blakely PI)**
Research on Addiction and Depression 2019-2022

5. **NIH/NINDS R01NS116914, Co-Inv (N. Quan, PI, Blakely, CoI)**
Neuroinflammation, Neuronal IL-1R1 and Behavior 2020-2025

6. **P. Srinivasan Fund** to support neuroinfammatory research 2021-2022

7. **Psychiatric Neuroscience Institute** support for serotonin research 2021-2022

8. **I-SENSE/CoE&CS Pilot Grant (Ranji and Blakely Co-PI)**
Optical Imaging-Based Assessment of *Ex Vivo* Metabolic Dysfunction in Mice with a Genetic Deficiency in MBLAC1, a Risk Factor for Alzheimer's Disease 2021-2022

9. **Brain Foundation**
Mechanism Supporting SERT Ala56 Induction of Inflammation 2021-2024

10. **Florida Department of Health: Ed and Ethel Moore Alzheimer's Research Foundation (Blakely, PI)**
In Vivo Functional Analysis of MBLAC1: A Novel Genetic Risk Factor in Alzheimer's Disease with Therapeutic Potential 2022-2024

11. **NIH/NIA R21 AG074846 (Blakely and Ushery, Co-PI)**
Neuronal IL-1R1 and Neuropsychiatric Traits of an Alzheimer's Mouse Model 2022-2024

12. **NIH/NIMH R01 MH105094 (Blakely PI)**
Molecules, Circuits and Mechanisms Altered by Anomalous Dopamine Efflux pending

13. **Community Foundation of Broward (Blakely, PI)**
Mechanisms Supporting Early Life Stress Resiliency 2023-2024

14. **NIH R21 NS137239 (Fenollar Ferrer, PI, Blakely Co-I)**
Structural Mechanics of Serotonin Transport Acceleration pending

15. **NIH R21 (Fenollar Ferrer, PI, Blakely Co-I)**
Role of N-terminus and PIP2 in establishing capacity for kinase-mediated regulation of serotonin transport pending

16. 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 pending

TRAINING HISTORY

HIGH SCHOOL RESEARCHERS (4)

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

3. Mira Wasserman, University School of Nashville
4. Sam Fisher, University School of Nashville
5. Vyapti Subramaniam, Gulfcoast High

UNDERGRADUATE RESEARCHERS (80)

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
55. Elizabeth Potts, Florida Atlantic University (Honors College)
56. Divyesh Doddapaneni, Florida Atlantic University (Honors College)
57. Ashleigh Ellis, Florida Atlantic University (Honors College)
58. Rodeania Pert, Florida Atlantic University (Honors College)
59. Edward Jackson, Florida Atlantic University (Honors College)
60. Jason Baluja, Florida Atlantic University (College of Science)
61. Abbie Nwiloh, Florida Atlantic University (Honors College)
62. Faakhira Dilijohn, Florida Atlantic University (Honors College)
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. Camden Weist, Florida Atlantic University (Honors College)
67. Michelle Velez, Florida Atlantic University (Honors College)
68. Jitesh Persaud, Florida Atlantic University (Honors College)
69. Hanna Phelps, Florida Atlantic University (College of Science)
70. Steven Shatkhin, Florida Atlantic University (Honors College)
71. Vuong Tran, Florida Atlantic University (Honors College)
72. Gloria Morales, FAU Summer SINE/REU Program
73. Tiffany Zhang, Florida Atlantic University (Honors College)
74. Kia Ghods, Florida Atlantic University (Honors College)
75. Melanie Hart, Florida Atlantic University (Honors College)
76. Jourdan DeFrain, Florida Atlantic University (Honors College)
77. Kyria Wickham, Florida Atlantic University (Honors College)
78. Siddhi Gavkar, Florida Atlantic University (Honors College)
79. Sofia Wasilewski, Florida Atlantic University (Honors College)
80. Tristan Wells, Florida Atlantic University (College of Science)

UNDERGRADUATE HONORS STUDENTS (18)

1. Melody (Mindy) Grey, Emory University (*summa cum laude*) 1995
2. Julie Field, Vanderbilt University (*summa cum laude*) 2003
3. Katie Emerson, Vanderbilt University (*summa cum laude*) 2009
4. Peter Reisz, Vanderbilt University (*cum laude*) 2011
5. Peter Chisnell, Vanderbilt University (*summa cum laude*) 2011
6. Hussain Jinnah, Vanderbilt University (*summa cum laude*) 2012
7. Lise Harbom, Vanderbilt University (*cum laude*) 2012
8. Kristin Bater, Vanderbilt University (*summa cum laude, Founder's Medal*) 2014
9. Jarrod Smith, Vanderbilt University (*summa cum laude*) 2015
10. Sam Snider, Vanderbilt University (*summa cum laude*) 2015
11. Joseph Balbona, Vanderbilt University (*cum laude*) 2017
12. Alaina Tillman. FAU/Max Plank Honors Program 2019
13. Angelica Bodine, FAU/Max Planck Honors Program 2020
14. Tiffany Zhang, FAU/Max Planck Honors Program 2022
15. Jourdan DeFrain, Wilkes Honors College 2023
16. Steven Shatkhin, Wilkes Honors College 2023
17. Kyria Whickham, Wilkes Honors College 2024
18. Melanie Hart, Wilkes Honors College 2024

GRADUATE TRAINEES (DIRECT AND CO-MENTORED (38)

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-present
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.	Cara Mellilo, Masters. Mentor**, Exp Psychology**	2023-present

POSTDOCTORAL FELLOWS/RESEARCH FACULTY (40)

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.	Tiffany Rogers, Ph.D. (Memphis State Univ)	2014-2015
34.	Matthew Robson, Ph.D. (West Virginia University)	2013-2017
35.	Adele Stewart, Ph.D. (University of Iowa)	2014-present
36.	Osama Refai, Ph.D. (University of Calgary)	2015-2022
37.	Paula Gajewski-Kurdziel, Ph.D. (Michigan St.)	2017-present
38.	Felix Mayer, Ph.D. (University of Vienna)	2018-2023
39.	Lorena Areal, Ph.D. (Federal University of Minas Gerais)	2018-2022
40.	Matthew Schrier, Ph.D. (Nova Southeastern Univ) - Co-Mentor with N. Quan	2022-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 (25)

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.	Zachary Filliben	2022-present

WORK/STUDY ASSISTANTS (24)

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

PUBLICATIONS: 351 published, 1 *in press*, 10 *submitted* (h-index = 106; citations = 35,561 (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-[^{3}H]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 a-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-alpha-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-acetylaspartylglutamate, 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-Slusher, 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., Fremeau, 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. Fremeau, 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]

33. Ramamoorthy, S., Bauman, A.L., Moore, K.R., Han, H., Yang-Feng, T., Chang, A.S., Ganapathy, V., and Blakely, R.D. Antidepressant- and cocaine-sensitive human serotonin transporter: Molecular cloning, expression, and chromosomal localization, **Proc Natl Acad Sci USA**, 90:2542-2546, 1993. [PMID: 7681602]

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]

35. Ramamoorthy, S., Cool, D.R., Mahesh, V.B., Leibach, F.H., Melikian, H.E., Blakely, R.D., and Ganapathy, V. Regulation of the human serotonin transporter: Cholera toxin-induced stimulation of serotonin uptake in human placental choriocarcinoma cells is accompanied by increased serotonin transporter mRNA levels and serotonin transporter-specific ligand binding, **J Biol Chem**, 268:21626-21631, 1993. [PMID: 8408014]

36. Austin, M.C., Bradley, C.C., Mann, J.J., and Blakely, R.D. Expression of serotonin transporter messenger RNA in the human brain, **J Neurochem**, 62:2362-2367, 1994. [PMID: 8189241]

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]

38. Demchyshyn, L.L., Pristupa, Z.B., Sugamori, K.S., Barker, E.L., Blakely, R.D., Wolfgang, W.J., Forte, M.A., and Niznik, H.B. Cloning, expression and localization of a chloride facilitated, cocaine-sensitive serotonin transporter from *Drosophila* melanogaster, **Proc Natl Acad Sci USA**, 91:5158-5162, 1994. [PMID: 8197200]

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]

40. Moore, K.R. and Blakely, R.D. Restriction site-independent formation of chimeras for homologous neurotransmitter transporter cDNAs, **BioTechniques**, 17:130-135, 1994. [PMID: 7946295]

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]

45. Qian, Y., Melikian, H.E., Rye, D.B., Levey, A.I., and Blakely, R.D. Identification and characterization of antidepressant-sensitive serotonin transporter proteins using site-specific antibodies, **J Neurosci**, 15:1261-1274, 1995. [PMID: 7869097]

46. Galli, A., DeFelice, L.J., Duke, B.J., Moore, K.R., & Blakely, R. D. Sodium-dependent norepinephrine-induced currents in norepinephrine-transporter-transfected HEK-293 cells blocked by cocaine and antidepressants, **J Exp Biol**, 198:2197-2212, 1995. [PMID: 7500004]

47. Barker, E.L. and Blakely, R.D. Norepinephrine and serotonin transporters: Molecular targets of antidepressant drugs, in **Psychopharmacology: The Fourth Generation of Progress**, (F.E. Bloom, D.J. Kupfer, editors), Raven Press, New York, 321-333, 1995.

48. DeFelice, L.J. and Blakely, R.D. Pore models for transporters? **Biophys J**, 70:579-580, 1996. [PMID: 8789077]

49. Risso, S., DeFelice, L.J., and Blakely, R.D. Sodium-dependent GABA-induced currents in GAT1-transfected HeLa cells, **J Physiol**, 490:691-702, 1996. [PMID: 8683468]

50. Wade, P.R., Chen, J., Jaffe, B., Kassem, I.S., Blakely, R.D., and Gershon, M.D. Localization and function of a 5-HT transporter in crypt epithelia of the gastrointestinal tract, **J Neurosci**, 16:2352-2364, 1996. [PMID: 8601815]

51. Blakely, R.D. Norepinephrine and serotonin transporters: Progress on molecular targets of antidepressants in **Biology of Schizophrenia and Affective Diseases**, (S. J. Watson, editor) American Psychiatry Press, Inc., 1996.

52. Gu, H.H., Ahn, J., Caplan, M.J., Blakely, R.D., Levey, A.I., and Rudnick, G. Cell-specific sorting of biogenic amine transporters expressed in epithelial cells, **J Biol Chem**, 271:18100-18106, 1996. [PMID: 8663573]

53. Melikian, H.E., Ramamoorthy, S., Tate, C.G., and Blakely, R.D. Inability to N-glycosylate the human norepinephrine transporter reduces protein stability, surface trafficking, and transport activity but not ligand recognition, **Mol Pharmacol**, 50:266-276, 1996. [PMID: 8700133]

54. Tamir, H., Hsiung, S.C.., Liu, K.P., Blakely, R.D., Russo, A.F., Clark, M.S. Nunez, E.A., Gershon, M.D. Expression and development of a functional plasmalemmal 5-hydroxytryptamine transporter by thyroid follicular cells, **Endocrinology**, 137:4475-4486, 1996. [PMID: 8828510]

55. Saltarelli, M.D., Bauman, A.L., Moore, K.R., Bradley, C.C., & Blakely, R.D. Expression of the rat brain creatine transporter *in situ* and in transfected HeLa Cells, **Dev Neurosci**, 18:524-534, 1996. [PMID: 8940628]

56. Kelsoe, J.R., Remick, R.A., Sadovnick, A.D., Kristbjarnarson, H., Flodman, P., Spence, M.A., Morison, M., Mroczkowski-Parker, Z., Bergesch, P., Rapaport, M.H., Mirow, A.L., Blakely, R.D., Helgason, T., Egeland, J.A. Genetic linkage study of bipolar disorder and the serotonin transporter, **Am J Med Genet**, 67:215-217, 1996. [PMID: 8723051]

57. Schroeter, S. and Blakely, R.D. Drug targets in the embryo. Studies on the cocaine- and antidepressant-sensitive serotonin transporter. **Ann NY Acad Science**, 801:239-255, 1996. [PMID: 8959038]

58. Fremeau, Jr., R.T., Velaz-Faircloth, M., Miller, J.W., Henzi, V.A., Cohen, S.M., Nadler, J.V., Shafquat, S., Blakely, R.D., and Domin, B. A novel nonopioid action of enkephalins: Competitive inhibition of the mammalian brain high affinity L-proline transporter, **Mol Pharmacol**, 49:1033-1041, 1996. [PMID: 8649341]

59. Galli, A., Blakely, R.D., and DeFelice, L.J. Norepinephrine transporters have channel modes of conduction, **Proc Natl Acad Sci USA**, 93:8671-8676, 1996. [PMID: 8710929]

60. Barker, E.L., and Blakely, R.D. Identification of a single amino acid, phenylalanine 586, that is responsible for high affinity interactions of tricyclic antidepressants with the human serotonin transporter, **Mol Pharmacol**, 50:957-965, 1996. [PMID: 8863842]

61. Burnette, W.B., Bailey, M.D., Kukoyi, S., Blakely, R.D., Trowbridge, C.G., and Justice, J.B., Jr. Human norepinephrine transporter kinetics using rotating disk electrode voltammetry, **Anal Chem**, 68: 2932-2938, 1996. [PMID: 8794928]

62. Chang, A.S., Chang, S.M., Starnes, D.M., Schroeter, S., Bauman, A.L., & Blakely, R.D. Cloning and expression of the mouse serotonin transporter, **Brain Res Mol Brain Res**, 43:185-192, 1996. [PMID: 9037532]

63. Blakely, R.D., Norepinephrine and serotonin transporters: progress on molecular targets of antidepressants, in **Biology of Schizophrenia and Affective Disease**, American Psychiatric Press, Washington, DC, 1996

64. Blakely, R.D., Ramamoorthy, S., Qian, Y, Schroeter, S., and Bradley, C.C. Regulation of antidepressant-sensitive serotonin transporters, in **Neurotransmitter Transporters: Structure, Function, and Regulation**, (M.E.A. Reith, editor), Humana Press, 29-72, 1997.

65. Qian, Y., Galli, A., Ramamoorthy, S., Risso, S., DeFelice, L.J., and Blakely, R.D. Protein kinase C activation regulates human serotonin transporters in HEK-293 cells via altered cell surface expression, **J Neurosci**, 17:45-47, 1997. [PMID: 8987735]

66. Apparsundaram, S., Moore, K.R., Malone, D., Hartzell, H.C., & Blakely, R.D. Molecular cloning and characterization of an L-epinephrine transporter from sympathetic ganglia of the bullfrog, *Rana catesbiana*, **J Neurosci**, 17:2691-2702, 1997. [PMID: 9092590]

67. Galli, A., Petersen, C.I., deBlaquiere, M., Blakely, R.D. and DeFelice, L.J. *Drosophila* serotonin transporters have voltage-dependent uptake coupled to a serotonin-gated ion channel, **J Neurosci**, 17:3401-3411, 1997. [PMID: 9133366]

68. Justice, Jr., J.B., Bailey, M.D., Barker, E.L., and Blakely, R.D. Voltammetric studies on the kinetics and mechanism of catecholamine transporters, **NATO ASI series**, Vol. H 100 "Cell Biology", (S. Pogun, editor), Neurotransmitter Release and Uptake, 249-261, 1997.

69. Steininger, T.L., Wainer, B.H., Blakely, R.D., and Rye, D.B. Serotonergic dorsal raphe nucleus projections to the cholinergic and noncholinergic neurons of the pedunculopontine tegmental region: A light and electron microscopic anterograde tracing and immunohistochemical study, **J Comp Neurol**, 382:302-322, 1997. [PMID: 9183696]

70. Schroeter, S., Levey, A.I., Blakely, R.D. Polarized expression of the antidepressant-sensitive serotonin transporter in epinephrine-synthesizing chromaffin cells of the rat adrenal gland, **Mol Cell Neurosci**, 9:170-184, 1997. [PMID: 9245500]

71. Bradley, C.C., and Blakely, R.D. Alternative splicing of the human serotonin transporter gene, **J Neurochem**, 69:1356-1367, 1997. [PMID: 9326263]

72. Eshleman, A.J., Stewart, E., Evenson, A.K., Mason, J.N., Blakely, R.D., Janowsky, A., & Neve, K.A. Metabolism of catecholamines by catechol-O-methyltransferase in cells expressing recombinant catecholamine transporters, **J Neurochem**, 69:1459-1466, 1997. [PMID: 9326274]

73. Tatsumi, M., Groshan, K., Blakely, R.D., and Richelson, E. Pharmacological profile of antidepressants and related compounds at human monoamine transporters, **Eur J Pharm**, 340:249-258, 1997. [PMID: 9537821]

74. Justice, Jr., J.B., Danek, K.S., Kable, J.W., Barker, E.L., and Blakely, R.D. Voltammetric approaches to kinetics and mechanism of the norepinephrine transporter, **Adv Pharm**, 42:191-194, 1998. [PMID: 9327876]

75. Blakely, R.D., and Apparsundaram, S. Structural diversity in the catecholamine transporter gene family: Molecular cloning and characterization of an L-epinephrine transporter from bullfrog sympathetic ganglia, **Adv Pharm**, 42:206-210, 1998. [PMID: 9327880]

76. Ramamoorthy, S., Giovannetti, E., Qian, Y. and Blakely, R.D. Phosphorylation and regulation of antidepressant-sensitive serotonin transporters, **J Biol Chem**, 273:2458-2466, 1998. [PMID: 9442097]

77. Fritz, J., Jayanthi, L.D., Thoreson, M., and Blakely, R.D. Cloning and chromosomal mapping of the murine norepinephrine transporter, **J Neurochem**, 70:2241-2251, 1998. [PMID: 9603188]

78. Zhu M.Y., Blakely R.D., Apparsundaram S., and Ordway G.A. Downregulation of the human norepinephrine transporter in intact 293-hNET cells exposed to desipramine, **J Neurochem**, 70:1547-1555, 1998. [PMID: 9523572]

79. Barker, E.L., Perlman, M.A., Adkins, E.M., Houlihan, W.J., Pristupa, Z.B., Niznik, H.B., and Blakely, R.D. High affinity recognition of serotonin transporter antagonists defined by species-scanning mutagenesis. An aromatic residue in transmembrane domain I dictates species-selective recognition of citalopram and mazindol, **J Biol Chem**, 273:19459-19468, 1998. [PMID: 9677366]

80. Blakely, R.D., Ramamoorthy, S., Schroeter, S., Qian, Y., Apparsundaram, S., Galli, A., and DeFelice, L.J. Regulated phosphorylation and trafficking of antidepressant-sensitive serotonin transporter proteins, **Biol Psychiatry**, 44:169-178, 1998. [PMID: 9693389]

81. Jayanthi, L.D., Apparsundaram, S., Malone, M.D., Ward, E., Miller, III, D.M., Eppler, M., Blakely, R.D. The *Caenorhabditis elegans* gene T23G5.5 encodes an antidepressant- and cocaine-sensitive dopamine transporter, **Mol Pharm**, 54:601-609, 1998. [PMID: 9765501]

82. Barker, E.L. and Blakely, R.D. Structural determinants of neurotransmitter transport using cross-species chimeras: Studies on serotonin transporter, **Methods Enzymol**, 296:475-498, 1998. [PMID: 9779469]

83. Ramamoorthy, S., Melikian, H.E., Qian, Y. and Blakely, R.D. Biosynthesis, N-glycosylation, and surface trafficking of biogenic amine transporter proteins, **Methods Enzymol**, 296:347-370, 1998. [PMID: 9779460]

84. Apparsundaram, S., Galli, A., DeFelice, L.J., Hartzell, H.C. and Blakely, R.D. Acute regulation of norepinephrine transport: I. Protein kinase C-linked muscarinic receptors influence transport

capacity and transporter density in SK-N-SH cells, **J Pharm Exp Ther**, 287:733-743, 1998. [PMID: 9808704]

85. Apparsundaram, S., Schroeter, S., Giovannetti, E., and Blakely, R.D. Acute regulation of norepinephrine transport: II. PKC-modulated surface expression of human norepinephrine transporter proteins, **J Pharm Exp Ther**, 287:744-751, 1998. [PMID: 9808705]

86. Galli, A., Blakely, R.D., and DeFelice, L.J. Patch-clamp and amperometric recordings from norepinephrine transporters: Channel activity and voltage-dependent uptake, **Proc Natl Acad Sci USA**, 95:13260-13265, 1998. [PMID: 9789076]

87. Flattem, N.L., and Blakely, R.D. The complex world of the brain's serotonin microvacuum cleaner, **Kennedy Ctr News**, 46:1-2, Fall, 1998.

88. Lebrand, C., Cases, O., Wehrle, R., Blakely, R.D., Edwards, R.H., and Gaspar, P. Transient developmental expression of monoamine transporters in the rodent forebrain, **J Comp Neurol**, 401:506-524, 1998. [PMID: 9826275]

89. Leitner, B., Lovisetti-Scamihorn, P., Heilmann, J., Striessnig, J., Blakely, R.D., Eiden, L.E., Winkler, H. Subcellular localization of chromogranins, calcium channels, amine carriers, and proteins of the exocytotic machinery in bovine splenic nerve, **J Neurochem**, 72:1110-1116, 1999. [PMID: 10037482]

90. Barker, E.L., Moore, K.R., Rakhshan, F., Blakely, R.D. Transmembrane domain I contributes to the permeation pathway for serotonin and ions in the serotonin transporter, **J Neurosci**, 19:4705-4717, 1999. [PMID: 10366604]

91. Ramamoorthy, S. and Blakely, R.D. Phosphorylation and sequestration of serotonin transporters differentially modulated by psychostimulants, **Science**, 285:763-766, 1999. [PMID:10427004]

92. Belous, A.R., Ramamoorthy, S., Blakely, R.D., Factor, M.I., Dupin, A.M., Katasonov, A.B., Lozier, Rkh., Beniashvili, A.G., Morozova, M.A., and Brusov, O.S. The status of serotonin protein -- a serotonin transporter in thrombocytes in patients with somatoform disorders, **Zh Nevrol Psikhiatr Im S S Korsakova** (Russian), 99:32-35, 1999. [PMID:10578533]

93. Upton, A.L., Salichon, N., Lebrand, C., Ravary, A., Blakely, R., Seif, I., and Gasper, P. Excess of serotonin (5-HT) alters the segregation of ipsilateral and contralateral retinal projections in monoamine oxidase A knock-out mice: Possible role of 5-HT uptake in retinal ganglion cells during development, **J Neurosci**, 19:7007-7024, 1999. [PMID: 10436056]

94. Belous, A.R., Ramamoorthy, S., Blakely, R.D., Faktor, M.I., Lozier, Rkh, Dupin, A.M., Bechiashvili, A.G., Morozova, M.A., Brusov, O.S. Decrease in the platelet level of 43 kDa immunoreactive fraction of serotonin transporting protein correlates with depressive symptoms in patients with somatoform disorders, **Vopr Med Khim**, (Russia), 45:256-262, 1999. [PMID: 10432563]

95. Tatsumi, M., Jansen, K., Blakely, R.D., and Richelson, E. Pharmacological profile of neuroleptics at human monoamine transporters, **Eur J Pharm**, 368:277-283, 1999. [PMID: 10193665]

96. Robertson, D., Biaggioni, I., Ertl, A. C., Robertson, R. M., Diedrich, A., Blakely, R. D., Flattem, N., Shannon, J. R. Orthostatic intolerance: Emerging genetic and environmental etiologies, **J Gravit Physiol**, 6:P51-P54, 1999. [PMID:11543025]

97. Flattem, N.L. and Blakely, R.D. Modified structure of the human serotonin transporter promoter, **Mol Psychiat**, 5:110-115, 2000. [PMID: 10673778]

98. Shannon, J.R., Flattem, N.L., Jordan, J., Jacob, G., Black, B.K, Biaggioni, I., Blakely, R.D., and Robertson, D. Orthostatic intolerance and tachycardia associated with norepinephrine transporter deficiency, **New Engl J Med**, 342:541-549, 2000. [PMID: 10684912]

99. Rakhshan, F., Day, T.A., Blakely, R.D., and Barker, E.L. Carrier-mediated uptake of the endogenous cannabinoid anandamide in RBL-2H3 cells, **J Pharm Exp Ther**, 292:960-967, 2000. [PMID: 10688610]

100. Schroeter, S., Apparsundaram, S., Wiley, R.G., Miner, L.H., Sesack, S.R., and Blakely, R.D. Immunolocalization of the cocaine- and antidepressant-sensitive L-norepinephrine transporter, **J Comp Neurology**, 420:211-232, 2000. [PMID: 10753308]

101. Blakely, R.D., and Bauman, A.L. Biogenic amine transporters: Regulation in flux, **Curr Op Neurobio**, 10:328-336, 2000. [PMID: 10851182]

102. Blakely, R.D. & Sung, U. SNARE-ing neurotransmitter transporters, **Nat Neurosci**, 3:969-971, 2000. [PMID: 11017164]

103. Bauman, A.L., Apparsundaram, S., Ramamoorthy, S., Wadzinski, B.E., Vaughan, R.A., and Blakely, R.D. Cocaine and antidepressant-sensitive biogenic amine transporters exist in regulated complexes with protein phosphatase 2A, **J Neurosci**, 20:7571-7578, 2000. [PMID: 11027216]

104. Apparsundaram, S., Ferguson, S.M., George, A.L., Jr., and Blakely, R.D. Molecular cloning of a human, hemicholinium-3-sensitive choline transporter, **Biochem Biophys Res Commun**, 276:862-867, 2000. [PMID: 11027560]

105. Miner, L.H., Schroeter, S., Blakely, R.D., and Sesack, S.R. Ultrastructural localization of the serotonin transporter in superficial and deep layers of the rat prelimbic prefrontal cortex and its spatial relationship to dopamine terminals, **J Comp Neurol**, 427:220-234, 2000. [PMID: 11054690]

106. Adkins, E.M., Barker, E.L., and Blakely, R.D. Interactions of tryptamine derivatives with serotonin transporter species variants implicate transmembrane domain 1 in substrate recognition., **Mol Pharm**, 59:514-523, 2001. [PMID: 11179447]

107. Ren, Z.G., Pörzgen, P., Zhang, J.M., Chen, X.R., Amara, S.G., Blakely, R.D., Sieber-Blum, M. Autocrine regulation of norepinephrine transporter expression, **Mol Cell Neurosci**, 17:539-550, 2001. [PMID: 11273648]

108. Nass, R., Miller, III, D.M., and Blakely, R.D. *C. elegans*: A pharmacogenetic model to study Parkinson's disease, **Parkinsonism Relat Disord**, 7:185-191, 2001. [PMID: 11331185]

109. Blakely, R.D. Neurobiology. Dopamine's reversal of fortune, **Science**, 293:2407-2409, 2001. [PMID: 1157225]

110. Apparsundaram, S., **Sung, U.**, Price, R.D., and Blakely, R.D. Trafficking-dependent and -independent pathways of neurotransmitter transporter regulation differentially involving p38 mitogen-activated protein kinase revealed in studies of insulin modulation of norepinephrine transport in SK-N-SH cells, **J Pharm Exp Ther**, 299:666-677, 2001. [PMID: 11602680]

111. Blakely, R.D. Physiological genomics of antidepressant targets: Keeping the periphery in mind, **J Neurosci**, 21:8319-8323, 1 Nov. 2001. [PMID: 11606618]

112. Apparsundaram, S., Ferguson, S.M., and Blakely, R.D. Molecular cloning and characterization of a murine, hemicholinium-3-sensitive choline transporter, **Biochem Soc Trans**, 29:711-716, 2001. [PMID: 11709061]

113. Belous, A.R., Ramamoorthy, S., Blakely, R.D., Factor, M.I., Dupin, A.M., Katasonov, A.B., Lozier, R.H., Beniashvili, A.G., Morozova, M.A., Brusov, O.S. The state of the serotonin transporter protein in the platelets of patients with somatoform disorders, **Neurosci Behav Physiol**, 31:185-189, 2001. [PMID: 11392354]

114. Robertson, D., Flattem, N., Telliouglu, T., Carson, R., Garland, E., Shannon, J.R., Jordan, J., Jacob, G., Blakely, R.D., Biaggioni, I. Familial orthostatic tachycardia due to norepinephrine transporter deficiency, **Ann N Y Acad Sci**, 940, 527-543, 2001. [PMID: 11458707]

115. Nass, R., Hall, D.H., Miller, III, D.M., and Blakely, R.D. Neurotoxin-induced degeneration of dopamine neurons in *Caenorhabditis elegans*, **Proc Natl Acad Sci USA**, 99:3264-3269, [PMID: 11867711]

116. Serafeim, A., Grafton, G., Chamba, A., Gregory, C. D., Blakely, R. D., Bowery, N. G., Barnes, N. M., Gordon, J. 5-Hydroxytryptamine drives apoptosis in biopsylike Burkitt lymphoma cells: Reversal by selective serotonin reuptake inhibitors, **Blood**, 99:2545-2553, 2002. [PMID: 11895792]

117. Rosenthal, S.J., Tomlinson, I., Adkins, E.M., Schroeter, S., Adams, S., Swafford, L., McBride, J., Wang, Y., DeFelice, L.J., Blakely, R.D. Targeting cell surface receptors with ligand-conjugated nanocrystals, **J Am Chem Soc,** 124:4586-94, 1 May 2002. [PMID: 11971705]

118. Bauman, P.A., Blakely, R.D. Determinants within the C-terminus of the human norepinephrine transporter dictate transporter trafficking, stability and activity, **Archives of Biochem and Biophys**, 404:80-91, Aug. 2002. [PMID: 12127072]

119. Hahn, M.K., and Blakely, R.D. Monoamine transporter gene structure and polymorphisms in relation to psychiatric and other complex disorders, **The Pharmacogenomics J**, 2002: 217-223, 2002. [PMID: 12196911]

120. Tamminga, C.A., Nemeroff, C.B., Blakely, R.D., Brady, L., Carter, C.S., Davis, K.L., Dingledine, R., Gorman, J.M., Grigoriadis, D.E., Henderson, D.C., Innis, R.B., Killen, J., Laughren, T.P., McDonald, W.M., Murphy, Jr., G.M., Paul, S.M., Rudorfer, M.V., Sausville, E., Schatzberg, A.F., Scolnick, E., Suppes, T. Developing novel treatments for mood disorders: Accelerating discovery, **Biological Psychiatry**, 52:589-609, 15 Sept. 2002. [PMID: 12361670]

121. Garland, E.M., Hahn, M.K., Ketch, T.P., Keller, N.R., Kim, C-H., Kim, K-S., Biaggioni, I., Shannon, J.R., Blakely, R.D., and Robertson, D. Genetic basis of clinical catecholamine disorders, **Ann NY Acad Sci**, 971:506-514, Oct. 2002. [PMID: 12438171]

122. Blakely, R.D. and Belous, A.R. Searching for novel genetic variation in neurotransmitter transporters, in **Transmembrane Transport: Receptor Biochemistry and Methodology Series**, (D.R. Sibley and M.W. Quick, editors), 2002:65-87, 2002.

123. Hahn, M.K., Blakely, R.D. Monoamine transporters: Gene organization and polymorphisms of monoamine transporters: Relationship to psychiatric and other complex diseases. **Neurotransmitter Transporters: Structure, Function, and Regulation, Second Edition**, (M.E.A. Reith, editor), Humana Press, Totowa, NJ, 2002.

124. Hahn, M.K., Mazei, M., Flattem, N., Shannon, J.R., Blakely, R.D., and Robertson, D. Familial orthostatic tachycardia due to norepinephine transporter (SLC6A2) deficiency, **Proc. Ninth Annual Symposium of Catecholamines,** 2002.

125. Nass, R., and Blakely, R.D. The *Caenorhabditis elegans* Dopaminergic System: Opportunities for Insights into Dopamine Transport and Neurodegeneration. **Annu Rev Pharmacol Toxicol**, 43:521-44, 2003. [PMID: 12415122]

126. Sung, U., Apparsundaram, S., Galli, A., Kahlig, K.M., Savchenko, V., Schroeter, S., Quick, M.W., Blakely, R. D. A regulated interaction of syntaxin 1A with the antidepressant-sensitive norepinephrine transporter establishes catecholamine clearance capacity, **J Neurosci**, 23:1697-1709, 2003. [PMID: 12629174]

127. Schwartz, J.W., Blakely, R.D., DeFelice, L.J. Binding and transport in norepinephrine transporters: real-time, spatially resolved analysis in single cells using a fluorescent substrate, **J Biol Chem**, 278: 9768-77, 2003. [PMID: 12499385

128. Ansah, T.A., Ramamoorthy, S., Montanez, S., Daws, L.C., Blakely, R.D. Calcium-dependent inhibition of synaptosomal serotonin transport by the {alpha}$_2$-adrenoceptor agonist 5-Bromo-N [4,5-dihydro-1H imidazol-2-yl]-6quinoxalinamine UK14304, **J Pharmacol Exp Ther**, 305:956-965, 2003. [PMID: 12626658]

129. Hahn, M.K., Robertson, D., Blakely, R.D. A mutation in the human norepinephrine transporter gene (SLC6A2) associated with orthostatic intolerance disrupts surface expression of mutant and wild-type transporters, **J Neurosci**, 23:4470-8, 2003. [PMID: 12805287]

130. Lakso, M., Vartiainen, S., Moilanen, A., Sirvio, J., Thomas, J.H., Nass, R., Blakely, R.D., Wong, G. Dopaminergic neuronal loss and motor deficits in *Caenorhabditis elegans* overexpressing human α-synuclein, **J Neurochem,** 86:165-172, 2003. [PMID: 12807436]

131. Kus, L., Borys, E., Chu, Y.P., Ferguson, S.M., Blakely, R.D., Emborg, M.E., Kordower, J.H., Levey, A.I., Mufson, E.J. Distribution of high-affinity choline transporter immunoreactivity in the primate central nervous system, **J Comp Neurol** 463: 341-57, 2003. [PMID: 12820166]

132. Tomlinson, I.D., Mason, J., Burton, J.N., Blakely, R.D., Rosenthal, S.J. The design and synthesis of novel derivatives of the dopamine uptake inhibitors GBR 12909 and GBR 12935. High affinity dopaminergic ligands for conjugation with highly fluorescent cadmium selenide/zinc sulfide core/shell nanocrystals, **Tetrahedron**, 59: 8035-8047, 2003.

133. Henry, L.K., Adkins, E.M., Han, Q., Blakely, R.D. Serotonin and cocaine sensitive inactivation of human serotonin transporters by methanethiosulfonates targeted to transmembrane domain I, **J Biol Chem**, 278:37052-37063, 2003. [PMID: 12869570]

134. Volpicelli-Daley, L.A., Hrabovska, A., Duysen, E.G., Ferguson, S.M., Blakely, R.D., Lockridge, O., Levey, A. Altered striatal function and muscarinic cholinergic receptors in acetylcholinesterase knockout mice, **Mol Pharm**, 64:1309-1319, 2003. [PMID: 14645660]

135. Miner, L.H., Schroeter, S., Blakely, R.D., Sesack, S.R. Ultrastructural localization of the norepinephrine transporter in superficial and deep layers of the rat prelimbic prefrontal cortex and its spatial relationship to probable dopamine terminals, **J Comp Neurol** 466:478, 2003. [PMID: 14566944]

136. Ferguson, S.M., Savchenko, V., Apparsundaram, S., Zwick, M., Wright, J., Heilman, C.J., Yi, Hong, Levey, A.I., Blakely, R.D., Vesicular localization and activity-dependent trafficking of presynaptic choline transporters, **J Neurosci**, 23: 9697-9709, 2003. [PMID: 14585997]

137. Savchenko, V., Sung, U., Blakely, R.D. Cell surface trafficking of the antidepressant-sensitive norepinephrine transporter revealed with an ectodomain antibody, **Mol Cell Neurosci**, 24:1131-1150, 2003. [PMID: 14697674]

138. Ferguson, S., Blakely, R.D. The choline transporter resurfaces: New roles for synaptic vesicles? **Mol Interventions**, 4: 23-37, 2004. [PMID: 14993474]

139. Hoover, D.B., Ganote, C.E., Ferguson, S.M., Blakely, R.D., Parsons, R.L. Localization of cholinergic innervation in guinea pig heart by immunohistochemistry for high affinity choline transporters, **Cardiovasc Res**, 62: 112, 2004. [PMID: 15023558]

140. Liprando, L.A., Miner, L.H., Blakely, R.D., Lewis, D.A., Sesack, S.R. Ultrastructural interactions between terminals expressing the norepinephrine transporter and dopamine neurons in the rat and monkey ventral tegmental area, **Synapse**, 52:233-4, 2004. [PMID: 15103690]

141. Proskocil, B.J., Sekhon, H.S., Jia, Y., Savchenko, V., Blakely, R.D., Lindstrom, J., Spindel, E.R. Acetylcholine is an autocrine or paracrine hormone synthesized and secreted by airway bronchial epithelial cells, **Endocrinology**, 145:2493-506, 2004.

142. McCauley, J.L., Olson, L.M., Dowd, M., Amin, T., Steele, A., Blakely, R.D., Folstein, S.E., Haines, J.L., Sutcliffe, J.S. Linkage and association analysis at the serotonin transporter (*SLC6A4*) locus in a rigid compulsive subset of autism, **American J of Medical Genetics**, 127: 104-112, 2004. [PMID: 14764638]

143. Zhu, C., Hewlett, W.A., Feoktistov, I., Biaggioni, I., Blakely, R.D. Adenosine receptor, protein kinase G and\p38 MAP kinase dependent upregulation of serotonin transporters involves both transporter trafficking and activation, **Mol Pharm**, 65: 1462-74, 2004. [PMID: 15155839]

144. Ferguson, S.M., Bazalakova, M., Savchenko, V., Tapia, J.C., Wright, J., Blakely, R.D. Lethal impairment of cholinergic neurotransmission in hemicholinium-3-sensitive choline transporter knockout mice, **Proc Natl Acad Sci USA**, 101:8762-8767, 2004. [PMID: 15173594]

145. Zhu, C.B., Hewlett, W.A., Francis, S.H., Corbin, J.D., Blakely, R.D. Stimulation of serotonin transport by the cyclic GMP phosphodiesterase-5 inhibitor sildenafil, **Eur J Pharmacol**, 504:1-6, 2004. [PMID: 15507214]

146. Carvelli, L., McDonald, P.W., Blakely, R.D., De Felice, L. Dopamine transporters depolarize neurons via a channel mechanism, **Proc Natl Acad Sci USA**, 101: 16046-51, 2004. [PMID: 15520385, PMCID: 528740]

147. Gates, J., Ferguson, S.M., Blakely, R.D., Apparsundaram, S. Regulation of choline transporter surface expression, and phosphorylation by protein kinase C and protein phosphatase 1/2A, **J Pharmacol Exp Ther,** 310:536-545, 2004. [PMID: 15064333]

148. Blakely, R.D. Antidepressant-sensitive norepinephrine transporters: Structure and regulation. **Primer on the Autonomic Nervous System**, D. Robertson, Editor, Elsevier; Ch24, 97-99, 2004.

149. Galli, A., Blakely, R.D., DeFelice, L.J. Neurotransmitter transporters, **Encyclopedia of Biological Chemistry**, 2004.

150. Fukumoto, T., Blakely, R., Levin, M. Serotonin transporter function is an early step in left-right patterning in chick and frog embryos, **Dev Neurosci**, 27:349-363, 2005. [PMID: 16280633]

151. Egli, R.E., Kash, T.L., Choo, K., Savchenko, V., Matthews, R.T., Blakely, R.D., Winder, D.G. Norepinephrine modulates glutamatergic transmission in the bed nucleus of the stria terminalis, **Neuropsychopharmacology**, 30:657-668, 2005. [PMID: 15602500]

152. Mason, J.N., Farmer, H., Tomlinson, I.D., Schwartz, J.W., Savchenko, V., DeFelice, L.J., Rosenthal, S.J., Blakely, R.D. Novel fluorescence-based approaches for the study of biogenic amine transporter localization, activity & regulation, **J Neurosci Methods**, 143:3-25, 2005. [PMID: 15763132]

153. Kahlig, K., Binda, F., Khoshbouei, H., Blakely, R.D., McMahon, D., Javitch, J., Galli, A. Amphetamine induces dopamine efflux through a dopamine transporter channel, **Proc Natl Acad Sci USA**, 109:3495-3500, 2005. [PMID: 15728379]

154. Jayanthi, L.D., Samuvel, D.J., Blakely, R.D., Ramamoorthy, S. Evidence for biphasic effect of protein kinase C mediated serotonin transporter function, endocytosis, and phosphorylation. **Mol Pharm**, 104:1124, 2005. [PMID: 15774771]

155. Zhu, C.B., Carneiro, A.M., Dostmann, W., Hewlett, W.A., Blakely, R.D. p38 MAPK activation elevates serotonin transport activity via a trafficking-independent, PP2A-dependent process, **J Biol Chem**, 280:15649-15658, 2005. [PMID: 15728187]

156. Meredith, E.J., Holder, M.J., Chamba, A., Challa, A., Lee, A.D., Bunce, C.M., Drayson, M.T., Pilkington, G., Blakely, R.D., Dyer, M.J.S., Barnes, N.M., Gordon, J. The serotonin transporter (SLC6A4) is present in B-cell clones of diverse malignant origin: probing a potential antitumor target for psychotropics, **FASEB J** 19:1197-1199, 2005. [PMID:15870169]

157. Mason, J., Tomlinson, I.D., Rosenthal, S.J., Blakely, R.D. Labeling cell-surface proteins via antibody quantum dot streptavidin conjugates, **Methods in Molecular Biology, NanoBiotechnology Protocols**, 303:35-50, 2005. [PMID: 15923673]

158. Tomlinson, I.D., Mason, J.N., Blakely, R.D., Rosenthal, S.J. Peptide-conjugated quantum dots: imaging the angiotensin type 1 receptor in living cells, **Methods in Molecular Biology**, 303:51-60, 2005. [PMID: 15923674]

159. Sutcliffe, J.S., Delahanty, R.J., Prasad, H., McCauley, J.L., Han, Q., Jiang, L., Li, C., Folstein, S.E., Blakely, R.D. Allelic heterogeneity at the serotonin transporter gene (SLC6A4) confer susceptibility to autism and rigid-compulsive behaviors, **Am J Hum Genet**, 77:265-279, 2005. [PMID:15995945; PMCID: 1224529]

160. Blakely, R.D., De Felice, L.J., Galli, A. Biogenic amine neurotransmitter transporters: Just when you thought you knew them, **J Physiology**, 20: 225-231, 2005. [PMID: 16024510]

161. Nass, R., Hahn, M., Jessen, T., McDonald, P., Carvelli, L., Blakely, R.D. A genetic screen in *Caenorhabditis elegans* for dopamine neuron insensitivity to 6-hydroxydopamine identifies dopamine transporter mutants impacting transporter biosynthesis and trafficking, **J Neurochem**, 94:774-785, 2005. [PMID: 15992384]

162. Hahn, M., Mazei-Robison, Blakely, R. Single nucleotide polymorphisms in the human norepinephrine transporter gene impact expression, trafficking, antidepressant interaction and protein kinase C regulation, **Mol Pharm**, 68:457-466, 2005. [PMID: 15894713]

163. Sung, U., Jennings, J.L., Link, A.J., Blakely, R.D. Proteomic analysis of human norepinephrine transporter complexes reveals associations with protein phosphatase 2A anchoring subunit and 14-3-3 proteins, **Biochem Biophy Res Comm**, 333:671-678, 2005. [PMID: 15963952]

164. Prasad, H.C., Zhu, C.B., McCauley, J.L., Samuvel, D.J., Ramamoorthy, S., Shelton, R.C., Hewlett, W.A., Sutcliffe, J.S., Blakely, R.D. Human serotonin transporter variants display altered sensitivity to protein kinase G and p38 mitogen activated protein kinase, **Proc Natl Acad Sci USA**, 102:11545-11550, 2005. [PMID: 16055563; PMCID: 1183547]

165. Guidry, G., Willison, B.D., Blakely, R.D., Landis, S.C., Habecker, B.A. Developmental expression of the high affinity choline transporter in cholinergic sympathetic neurons, **Auton Neurosci**, 123:54-61, 2005. [PMID: 16278103]

166. Blakely, R.D. Rare mutations in mental illness: Opportunities for rare insights or just one less reason to be depressed? **Neuron**, 48:701-706, 2005. [PMID: 16337900]

167. Mazei-Robison, M.S., Couch, R.S., Blakely, R.D. Sequence variation in the human dopamine transporter gene in children with attention deficit hyperactivity disorder, **Neuropharmacol**, 49:724-736, 2005. [PMID: 16171832]

168. Mazei-Robison, M.S., Blakely, R.D. Expression studies of naturally occurring human dopamine transporter variants identifies a novel state of transporter inactivation associated with Val382Ala, **Neuropharmacol**, 49:737-749, 2005. [PMID: 16212992]

169. Bentzen, E.L., Tomlinson, I.D., Mason, J., Gresch Pl, Warnement, M.R., Wright, D., Sanders-Bush E., Blakely, R.D., Rosenthal, S.J., Surface modification to reduce nonspecific binding of quantum dots in live cell assays, **Bioconjug Chem**, 16:1488-94, 2005 [PMID: 16287246]

170. Tomlinson, I.D., Mason, J.N., Blakely, R.D., Rosenthal S.J. Inhibitors of the serotonin transporter protein (SERT): The design and synthesis of biotinylated derivatives of 3-(1,2,3,6-Tetrahydro-pyridin-4-yl)-1H-indoles. High-affinity serotonergic ligands for conjugation with Quantum Dots. **Bioorganic and Medicinal Chemistry Letters**, 15: 5307-5310, 2005. [PMID: 16183285]

171. Henry, L.K., Field, J.R., Adkins, E.M., Parnas, M.L., Vaughan, R.A., Zou, M.F., Newman, A.H., Blakely, R.D. TYR95 and ILE172 in transmembrane segments I and III of human serotonin transporters interact to establish high-affinity recognition of antidepressants, **J Biol Chem**, 281:2012-2023, 2006. [PMID: 16272152]

172. Miner, L.H., Jedema, H.P., Moore, F.W., Blakely, R.D., Grace, A.A., Sesack, S.R. Chronic stress increases the plasmalemmal distribution of the norepinephrine transporter and the co-expression of tyrosine hydroxylase in norepinephrine axons in the prefrontal cortex, **J Neurosci,** 26:1571-1578, 2006. [PMID: 16452680]

173. Zhu, C.B., Blakely, R.D., Hewlett, W.A. The pro-inflammatory cytokines interleukin-1beta and tumor necrosis-alpha activate serotonin transporters, **Neuropsychopharmacology**, 31:2121-2131, 2006. [PMID: 16452991]

174. Binda, F., Lute, B.J., Dipace, C., Blakely, R.D., Galli, A. The N-terminus of the norepinephrine transporter regulates the magnitude and selectivity of the transporter-associated leak current, **Neuropharmacology**, 50:354-361, 2006. [PMID: 16289633]

175. Henry, L.K., DeFelice, L.J., Blakely, R.D. Getting the message across: A new transporter structure shows the way, **Neuron**, 49:791-796, 2006. [PMID: 16543127]

176. Bazalakova, M.H., Blakely, R.D. The high-affinity choline transporter: A critical protein for sustaining cholinergic signaling as revealed in studies of genetically altered mice, **Handbook Exp Pharm**, (H.H. Sitte, M. Freissmuth, editors), 175:525-544, 2006. [PMID: 16722248]

177. Mazei-Robison M.S., Blakely R.D. ADHD and the dopamine transporter: Are there reasons to pay attention? **Handbook Exp Pharm**, H.H. Sitte, M. Freissmuth, editors), 175:373-415, 2006. [PMID: 16722244]

178. Keller, N.R., Diedrich, A., Appalsamy, M., Miller, L.C., McDonald, M., Shelton, R.C., Blakely, R.D., Robertson, D. Norepinephrine transporter-deficient mice respond to stress-inducing and fearful environments with bradycardia and hypotension, **Neurosci**, 139: 931-46, 2006. [PMID: 16515844]

179. McDonald, P.W., Jessen, T., Field, J.R., Blakely, R.D. Dopamine signaling architecture in *Caenorhabditis elegans*, **Cell & Mol Neuro**, 2006. [PMID: 16724276]

180. Matthies, D.S., Fleming, P.A., Wilkes, D.M., Blakely, R.D. The *C. Elegans* choline transporter CHO-1 sustains acetylcholine synthesis and motor function in an activity-dependent manner, **J Neurosci**, 26:6200-6212, 2006. [PMID: 16763028]

181. Tomlinson, I., Mason, J., Blakely, R.D., Rosenthal, S.J. High affinity inhibitors of the dopamine transporter (DAT): novel biotinylated ligands for conjugation to quantum dots, **Bioorganic and Medicinal Chemistry Letters**, 16:4664-72006, 2006. [PMID: 16784853]

182. Carneiro, A.M.D., Blakely, R.D. Serotonin, protein kinase C and HIC-5 associated redistribution of the platelet serotonin transporter, **J Biol Chem**, 281:24769-24780, 2006. [PMID: 16803896]

183. Kim, C.H., Hahn, M.K., Joung, Y., Steele, A.H., Gizer, I., Cohen, B.M., Robertson, D., Waldman, I.D., Blakely, R.D., Kim, K.S. A polymorphism in the norepinephrine transporter gene alters promoter activity and is associated with attention-deficit hyperactivity disorder, **Proc Natl Acad Sci**, 103:19164-19169, 2006. [PMID: 17146058]

184. Wegner, A.M., McConnell, J.L., Blakely, R.D., Wadzinski, B.E. An automated, fluorescence-based method for continuous assay of PP2A activity, **Methods in Molecular Biology Series: Protein Phosphatase Protocols** (Moorhead, G., ed.) Humana Press, New Jersey, 2006. [PMID: 17200554]

185. Bazalakova M.H., Wright J., Schneble E.J., McDonald M.P., Heilman C.J., Levey A.I., Blakely RD. Deficits in acetylcholine homeostasis, receptors and behaviors in choline transporter heterozygous mice. **Genes Brain Behav**, 6:411-24, 2007. [PMID: 17010154]

186. Iwamoto H., Blakely, R.D., DeFelice, L.J. Na+, Cl-, and pH dependence of the human choline transporter (hCHT) in Xenopus oocytes: the proton inactivation hypothesis of hCHT in synaptic vesicles. **J Neurosci**, 26:9851, 2006. [PMID: 17005849]

187. Sung, U., Blakely, R.D., Calcium-dependent interactions of the human norepinephrine transporter with syntaxin 1A, **Mol Cell Neurosci**, 34: 251-260, 2007. [PMID: 17188889, PMCID: 1847414]

188. Dipace, C., Sung, U., Binda, F., Blakely, R.D., Galli, A., Amphetamine induces a CaMKII-dependent reduction in norepinephrine transporter surface expression linked to changes in syntaxin 1A/transporter complexes, **Mol Pharmacol**, 71:230-239, 2007. [PMID: 17032905]

189. Hahn, M.K., Blakely, R.D. The functional impact of SLC6 transporter genetic variation, **Annual Review of Pharmacology and Toxicology**, 47: 401-441, 2007. [PMID: 17067279]

190. Blakely, R.D., De Felice, L.J. All aglow about presynaptic receptor regulation of neurotransmitter transporters, **Mol Pharmacol**, 71: 1206-1208, 2007. [PMID: 17329498]

191. Ismair, M.G., Kullak-Ublick, G.A., Blakely, R.D., Fried, M., Vavricka, S.R. Tegaserod inhibits the serotonin transporter SERT. **Digestion**, 75:90-95, 2007. [PMID: 17510552]

192. Zhu, C.B., Steiner, J.A., Munn, J.L., Daws, L.C., Hewlett, W.A., Blakely, R.D. Rapid stimulation of presynaptic serotonin transport by A_3 adenosine receptors, **J Pharmacol Exp Ter,** 322:332-40, 2007**.** [PMID: 17460150]

193. Tomlinson, I.D., Warnerment, M.R., Mason, J.N., Vergne, M.J., Hercules, D.M., Blakely, R.D., Rosenthal, S.J., Synthesis and characterization of a pegylated derivative of 3-(1,2,3,6-tetrahydro-pyridin-4yl)-1H-indole (IDT199). A high affinity SERT ligand for conjugation to quantum dots, **Bioorganic & Medicinal Chemistry Letters,** 7:5656-60, 2007. [PMID: 17766114]

194. Mason, J.N., Deecher, D.C., Richmond, R.J., Stack, G., Mahaney, P.E., Trybulski, E., Winneker, R.C., Blakely, R.D. Desvenlafaxine succinate (DVS) identifies novel antagonist binding determinants in the human norepinephrine transporter**, J Pharmacol Exp Ther,** 323:720-9, 2007. [PMID:17673606]

195. Williams, J.M., Owens, W.A., Turner, G.H., Blakely, R.D., France, C.P., Gore, J.C., Daws, L.C., Avison, M.J., Galli, A. Hypoinsulinemia regulates amphetamine-induced reverse transport of dopamine. **PLoS Biol,** 5:2369-78, 2007. [PMID: 17941718, PMCID: 2020502]

197. Henry, K.L., Meiler, J., and Blakely, R.D. Bound to be different: neurotransmitter transporters meet their bacterial cousins, **Mol Interventions,** 7: 306-309, 2007. [PMID: 18199851]

198. McDonald, P.W., Hardie, S.L., Jessen, T.N., Carvelli, L., Matthies, D.S., Blakely, R.D. Vigorous motor activity in *C. elegans* requires efficient clearance of dopamine mediated by synaptic localization of the dopamine transporter DAT-1, **J Neurosci,** 27:14216-14227, 2007. [PMID: 18094261]

199. Tomlinson, I.D., Chang, J., Iwamoto, H., DeFelice, L.J., Blakely, R. D., and Rosenthal, S.J. Targeting the human serotonin transporter (hSERT) with quantum dots, **Proc. SPIE,** 68660X-1-12, 2008. [PMID: 19936040; PMCID: 2779040]

200. Kim, C.H., Waldman, I.D., Blakely, R.D., and Kim, K.-S. Functional gene variation in the human norepinephrine transporter: Association with attention deficit/hyperactivity disorder**, Annals NY Acad Sci,** 1129: 256-260, 2008. [PMID: 18591486]

201. Henry, K.L., Blakely, R.D., Distinctions between dopamine transporter antagonists could be just around the bend, **Mol Pharm,** 73:616-8, 2008. [PMID: 18156312]

202. Carneiro, A.M.D., Cook, E.H., Murphy, D.L., Blakely, R.D., Interactions between integrin αIIbβ3 and the serotonin transporter regulate serotonin transport and platelet aggregation, **J Clin Invest,** 118:1544-1552, 2008. [PMID: 18317590; PMCID: 2260909]

203. Misawa, H., Fujigaya, H., Takashi, N., Moriwaki, Y., Okuda, T., Kawashima, K., Nakata, K., Ruggiero, A.M., Blakely, R.D., Nakatsu, F., and Ohno, H. Aberrant trafficking of the high affinity choline transporter in AP3-deficient mice, **Eur J Neurosci,** 27: 3109-3117, 2008. [PMID: 18554297]

204. Carvelli, L., Blakely, R.D., DeFelice, L.J., Dopamine transporter/syntaxin 1A interactions regulate transporter channel activity and dopaminergic synaptic transmission, **Proc Natl Acad Sci USA,** 105:14192-14197, 2008. [PMID: 18768815, PMCID: 2528871]

205. Orndorff, R.L., Warnement, M.R., Mason, J.N., Blakely, R.D., and Rosenthal, S.J., Quantum dot ex vivo labeling of neuromuscular synapses, **Nano Lett**, 8: 780-5, 2008. [PMID: 18237149]

206. Mazei-Robison M. S., Bowton E., Holy M., Schmudermaier M., Freissmuth M., Sitte H.H., Galli A., Blakely R.D., Anomalous dopamine release associated with a human dopamine transporter coding variant, **J Neurosci**, 28:7040-7046, 2008. [PMID: 18614672, PMCID: 2573963]

207. Steiner J.A., Carneiro A.M., Blakely R.D., Going with the flow: trafficking-dependent and-independent regulation of serotonin transport, **Traffic**, 9:1393-1402, 2008. [PMID: 18445122, PMCID: 2773847]

208. Hoard J.L., Hoover, D.B., Mabe A.M., Blakely R.D., Feng N., Paolocci N., Cholinergic neurons of mouse intrinsic cardiac ganglia contain noradrenergic enzymes, norepinephrine transporters, and the neurotrophin receptors TrkA and p75, **Neuroscience**, 156:129-142, 2008. [PMID: 18674600, PMCID: 2640831]

209. Hahn MK, Blackford JU, Haman K, Mazei-Robison M, English BA, Prasad HC, Steele A, Hazelwood L, Fentress HM, Myers R, Blakely RD, Sanders-Bush E, Shelton R. Multivariate permutation analysis associates multiple polymorphisms with subphenotypes of major depression, **Genes, Brain and Behavior** 7:487-495, 2008. [PMID: 18081710, PMCID: 2670227]

210. Zhao, J., Matthies, D.S., Botzolakis, E.J., Macdonald, R.L., Blakely, R.D., Hedera, P. Hereditary spastic paraplegia-associated mutations in the NIPA1 gene and its *Caenorhabditis elegans* homolog trigger neural degeneration in vitro and in vivo through a gain-of-function mechanism, **J Neurosci**, 28:12939-13951, 2008. [PMID: 19091982, PMCID: 2660329]

211. Carneiro A.M., Cook, E.H., Murphy D.L., Blakely R.D., Interactions between integrin alphallbbeta3 and the serotonin transporter regulate serotonin transport and platelet aggregation in mice and humans, **J. Clin. Invest.**, 118:1544-52, 2008. [PMID: 18317590; PMCID: PMC2260909]

212. Prasad H.C., Steiner, J.A., Sutcliffe J.S., Blakely R.D., Enhanced activity of human serotonin transporter variants associated with autism, **Phil Trans R Soc B**, 364:163-73, 2009. [PMID: 18957375, PMCID: 2674096]

213. Carneiro, A.M.D., Airey, D.C., Thompson, B., Zhu, C., Lu, L, Chesler, E.J., Erikson, K.M., Blakely, R.D., Functional coding variation in recombinant inbred mouse lines reveals novel serotonin transporter-associated phenotypes, **Proc Natl Acad Sci USA**, 106:2047-2052, 2009. [PMID: 19179283, PMCID: 2632716]

214. Raj, V., Haman, K.L., Raj, S.R., Byrne, D., Blakely, R.D., Biaggioni, I., Robertson, D., Shelton, R.C. Psychiatric profile and attention deficits in postural tachycardia syndrome, **J Neurol Neurosurg Psychiatry**, 80:339-344, 2009. [PMID: 18977825; PMCID: 2758320]

215. Kaufmann, K., Dawson, E.S., Henry, L.K., Field, J.R., Blakely, R.D., Meiler, J. Structural determinants of species selective substrate recognition in human and drosophila serotonin transporters revealed through computational docking studies, **Proteins**, 74:630-42, 2009. [PMID: 18704946, PMCID: 2782712]

216. Matthies, H.J.G., Han, Q., Shields, A.D., Wright, J., Moore, J.L., Winder, D.G., Galli, A., Blakely, R.D., Subcellular localization of the antidepressant-sensitive norepinephrine transporter, **BMC**

Neuroscience, 10:65, 2009. [PMID: 19545450, PMCID: 2716352]

217. Veenstra-VanderWeele, J., Jessen, T.N, Thompson, B.J., Carter, M., Prasad, H.C., Steiner, J.A., Sutcliffe, J.S., Blakely, R.D., Modeling rare gene variation to gain insight into the oldest biomarker in autism: construction of the serotonin transporter Gly56Ala knock-in mouse, **J Neurodevelopmental Disorders**, 1:158-171, 2009. [PMID: 19960097, PMCID: 2786076]

218. May, M.E., Souri, A., Hedges, L., Phillips, J.A., Light, D., Blakely, R.D., Kennedy, C.H., Monoamine oxidase a promoter gene associated with problem behavior in adults with intellectual/developmental disabilities, **Am J Intellect Dev Disabil**, 114:269-73, 2009. [PMID: 19642709]

219. Steiner, J.A., Carneiro, A.M.D., Wright, J., Matthies, H.J.G., Prasad, H.C., Nickl, C.C., Dostmann, W.R., Corbin, J.D., Francis, S.H., Blakely, R.D. cGMP-dependent protein kinase Ia associates with the antidepressant-sensitive serotonin transporter and dictates rapid modulation of serotonin uptake, **Mol Brain**, 2:26, 2009. [PMID: 19656393; PMCID: 2731736]

220. English, B.A., **Hahn, M.K.**, Gizer, I.R., Mazei-Robison, M.S., Steele, A., Kurnik, D.M. Stein, M.A., Waldman, I.D., Blakely, R.D., Choline transporter gene variation is associated with attention-deficit hyperactivity disorder, **J Developmental Disorders**, 1:252-263, 2009. [PMCID: 2042938]

221. Carneiro, A.M., Blakely, R.D., SERT, **UCSD-Nature Molecule Pages**, 10.1038/mp.a002762.01, 2009, [PMID: 17965093; PMCID: 2238991]

222. Anderson, G.M., Cook, E.H., Blakely, R.D., Serotonin rising, **N Engl J Med.**, 360:2580, 2009. [PMID: 19516042]

223. Kaludercic, N., Takimoto, E., Nagayama, T., Feng, N., Lai, E.W., Bedja, D., Chen, K., Gabrielson, K.L., Blakely, R.D., Shih, J.C., Pacak, K., Kass, D.A., Di Lisa, F., and Paolocci, *N.* MAO-A mediated enhanced catabolism of norepinephrine contributes to adverse remodeling and pump failure in hearts with pressure overload, **Circulation Research,** 106:193-202, 2010. [PMID: 19910579; PMCID: 2804073]

224. Field, J.R., Henry, L.K., Blakely, R.D., Transmembrane domain 6 of the human serotonin transporter contributes to an aqueously accessible binding pocket for serotonin and the psychostimulant methylenedioxymethamphetamine (MDMA), **J Biol Chem**, 285:11270-80, 2010. [PMID: 20159976; PMCID: 2857005]

225. Holmstrand E.C., Asafu-Adjei J., Sampson, A.R., Blakely, R.D., Sesack, S.R., Ultrastructural localization of high-affinity choline transporter in the rat anteroventral thalamus and ventral tegmental area: differences in axon morphology and transporter distribution, **J Comp Neurol**, 518:1908-24, 2010. [PMID: 20394050; PMCID: 3105597]

226. Bowton, E., Saunders, C., Erreger, K., Sakrikar, D., Sen, N., Matthies, H., Namita, S., Jessen, T., Colbran, R.J., Caron, M.G., Javitch, J.A., Blakely, R.D., Galli, A., Dysregulation of dopamine transporters via dopamine D_2 autoreceptors triggers anomalous dopamine efflux associated with attention-deficit hyperactivity disorder, **J Neurosci,** 30:6048-6057, 2010. [PMID: 20427663; PMCID: 2881830]

227. Matthies, H.J.G., Moore, J., Saunders, C., Matthies, D.S., Lapierre, L., Goldenring, J., Blakely, R.D., Galli, A., Rab11 supports amphetamine-stimulated norepinephrine transportertrafficking, **J Neurosci.**, 30:7863-7877, 2010 [PMID: 20534835; PMCID: 2935280].

228. English, B.A., Appalsamy, M., Diedrich, A., Ruggiero, A.M., Lund, D., Wright, J., Keller, N.R.,

Louderback, K.M. Robertson, D., Blakely, R.D., Tachycardia, reduced vagal reserve, and age-dependent ventricular dysfunction arising from diminished expression of the presynaptic choline transporter, **American Journal of Physiology: Heart and Circulatory Physiology**, 299:799-810, 2010 [PMID: 20601463; PMCID: 2944482]

229. Lund, D., Ruggiero, A.M., Ferguson, S.M., Wright, J., English, B.A., Reisz, P.A., Whitaker, S.M., Peltier, A.C., Blakely, R.D., Motor neuron-specific overexpression of the presynaptic choline transporter: impact on motor endurance and evoked muscle activity, **Neuroscience**, 171:1041-1053, 2010 [PMID: 20888396; PMCID: 2992794]

230. Li, Z., Caron, M.G., Blakely, R.D., Margolis, K.G, Gershon, M.D., Dependence of serotonergic and other non-adrenergic enteric neurons on norepinephrine transporter expression, **J Neurosci.**, 30:16730-16740, 2010 [PMID: 21148012; PMCID: 3066093]

231. Hardaway, J.A., Whitaker, S.M., Blakely, R.D., Media osmolarity modulates dopamine-dependent, swimming-induced paralysis (SWIP), **The Worm Breeder's Gazette**, 18:8, 2010.

232. Zhu, C.B., Lindler, K., Owens, A., Daws, L., Blakely, R.D., Hewlett, W., Interleukin-1 receptor activation by systemic lipopolysaccharide induces behavioral despair linked to MAPK regulation of CNS serotonin transporters, **Neuropsychopharmacology**, 35:2510-20, 2010. [PMID: 2082727; PMCID: 3084180]

233. Rasul, A., El-Nour, H., Blakely, R.D., Lonne-Rahm, S.B., Forsberg, J., Johannsson, B., Nordlind, K., Effect of chronic mild stress on serotonergic markers in the skin and brain of the NC/Nga atopic-like mouse strain, **Dermatological Research**, 303: 625-633, 2011. [PMID: 21400247]

234. Kohli, U., Hahn, M.K., English, B.A., Sofowora, G.G., Muszkat, M., Li, C., Blakely, R.D., Stein, C.M., Kurnik, D., Genetic variation in the presynaptic norepinephrine transporter, is associated with blood pressure responses to exercise in healthy subjects, **Pharmacogenetics and Genomics**, 21:171-8, 2011. [PMID: 21412203; PMCID: 3065933].

235. Thompson, B, Jessen, T., Henry, L., Field, J., Gamble, K., Gresch, P., Carneiro, A., Horton, R., Chisnell, P., McMahon, D., Daws, L., Blakely, R.D., Transgenic elimination of high-affinity antidepressant and cocaine sensitivity in the presynaptic serotonin transporter, **Proc Natl Acad Sci USA**, 108:3785-3790, 2011. [PMID: 21282638; PMCID: 3048100]

236. Tomlinson, I.D., Iwamoto, H., Blakely, R.D., Rosenthal, S.J., Biotin tethered homotryptamine derivatives: high affinity probes of the human serotonin transporter (hSERT), **Bioorg Med Chem Lett**, 21:1678082, 2011. [PMID: 21334895; PMCID: 3070488]

237. Erickson, S.L., Gandlu, A.R., Asafu-Adjer, J.K., Sampson, A.R., Miner, L., Blakely, R.D., Sesack, S.R., Chronic desipramine treatment alters tyrosine hydroxylase but not norepinephrine transporter immunoreactivity in norepinephrine axons in the rat prefrontal cortex, **Int J Neuropsychopharmacol**, 6:1-14, 2011. [PMID: 21208501; PMCID: 3117082]

238. Bonnin A., Goeden, N., Chen, K., Wilson, M.L., King, J., Shih, J.C., Blakely, R.D., Deneris, E.S., Levitt, P.R., A transient placental source of serotonin for the fetal forebrain, **Nature**, 472:347-350, 2011. [PMID: 21512572; PMCID: 3084180]

239. Blakely, R.D., Veenstra-VanderWeele, J., Genetic indeterminism, the 5-HTTLPR, and the paths forward in neuropsychiatric genetics, **Archives Gen Psychiatry**, 68:457-458, 2011. [PMID: 21536974]

240. Zhu, C.B., Lindler, K.M., Campbell, N.G., Sutcliffe, J.S., Hewlett, W.A., Blakely, R.D., Colocalization and regulated physical association of presynaptic serotonin transporters with A_3 adenosine receptors, **Mol Pharm**, 80:458-465, 2011. [PMID: 21705486; PMCID: 3164334]

241. Henry, L.K., Iwamoto H., Field, J.R., Kaufmann, K., Dawson, E.S., Jacobs, M.T., Adams, C., Felts, B., Zdravkovic, I., Armstrong, V., Combs, S., Solis, E., Rudnick, G., Noskov, S.Y., Defelicie, L.J., Meiler, J., Blakely, R.D., A conserved asparagine residue in transmembrane segment 1 (TM1) of the serotonin transporter dictates chloride-coupled neurostransmitter transport, **J Biol Chem**, 286:30823-30836. 2011. [PMID: 21730057; PMCID: 3162443]

242. Chang, J.C., Tomlinson, I.D., Warnement, M.R., Iwamoto, H., DeFelice, L.J., Blakely, R.D., Rosenthal, S.J., A fluorescence displacement assay for antidepressant drug discovery based on ligand conjugated quantum dots, **J American Chem Soc**, 133:17528-17531, 2011. [PMID: 21970724; PMCID: 3235909]

243. Combs, S., Meiler, J., Kaufmann, K., Field, J., Blakely, R.D., Y95 and E444 interaction required for high-affinity s-citalopram binding in the human serotonin transporter, **ACS Chemical Neurosci**, 2:75-81, 2011. [PMID:22778858; PMCID:3369724]

244. Kovtun, O., Tomlinson, I.D., Sakrikar, D.S., Blakely, R.D., Rosenthal, S.J., Visualization of the cocaine-sensitive dopamine transporter protein with ligand-conjugated quantum dots, **ACS Chem Neurosci**, 2:370-378, 2011. [PMID: 22816024; PMCID:3369746]

245. Ye, R., Blakely, R.D., Natural and engineered coding variation in the antidepressant-sensitive serotonin transporter, **Neuroscience**, 197:28-36, 2011. [PMID: 21893166; PMCID:3850749]

246. Gilbert, J., Haman, K.L., Dietrich, M.S., Blakely, R.D., Shelton, R.C., Murphy, B.A., Depression in patients with head and neck cancer and a functional genetic polymorphism of the serotonin transporter gene, **Head & Neck**, 34:359-64, 2012. [PMID: 21604315]

247. Veenstra-VanderWeele, J., Blakely, R.D., Networking in autism: Leveraging genetic, biomarker, and model system findings in search for new treatments, **Neuropsychopharmacology**, 37:196-212, 2012. [PMID: 21937981; PMCID: 3238072]

248. Blakely, R.D. and Edwards, R.H., Vesicular and plasma membrane transporters for neurotransmitters, **Cold Spring Harb Perspect Biol**. 2012 4(2). Pii: a005595. [PMID: 22199021; PMCID:3281572]

249. Veenstra-VanderWeele, J., Muller, C.L., Iwamoto, H., Sauer, J.E., Owens, W.A., Cohen, J., Shah, C.R., Mannangatti, P., Jessen, T., Thompson, B.J., Carneiro, A.M., Crawley, J.N., Bush, E.S., McMahon, D.G., Ramamoorthy, S., Daws, L.C., Sutcliffe, J.S., Blakely, R.D., Autism gene variant causes hyperserotonemia, serotonin receptor hypersensitivity, social impairment and repetitive behavior, **Proc Natl Acad Sci USA**, 109: 5469-5474, 2012. [PMID 22431635; PMCID 3325657]

250. Sakrikar, D., Mazei-Robison, M.S., Mergy, M.A., Richtand, N.A., Han, Q., Hamilton, P.J., Bowton, e., Galli, A., Veenstra-VanderWeele, J., Gill, M., Blakely, R.D., ADHD-derived coding variation in the dopamine transporter disrupts microdomain targeting and trafficking regulation, **J Neurosci** 32: 5385-5397, 2012. [PMID: 22514303; PMCID: 3342037]

251. Bonnin, A., Zhang, L., Blakely, R.D., Levitt, P., The SSRI citalopram affects fetal thalamic axon responsiveness to netrin-1 *in vitro* independently of SERT antagonism, **Neuropsychopharm**, 37:1879-1884, 2012. [PMID: 22414815; PMCID:3376320]

252. Chang, J.C., Tomlinson, I.D., Warnement, M.R., Carneiro, A.M.D., Ustione, A., Piston, S.W.,

Blakely, R.D., Rosenthal, S.J., Single molecule analysis of the serotonin transporter reveals cGMP- and p38 MAPK-enhanced mobility within membrane subdomains, **J Neurosci** 32:8919-8929, 2012. [PMID:22749452; PMCID:3426861]

253. Hardaway, J.A., Hardie, S.L., Whitaker, S.M., Baas, S.R., Zhang, B., Bermingham, D.P., Lichtenstein, A.J., Blakely, R.D., Forward genetic analysis to identify presynaptic determinants of dopamine signaling in *Caenorhabditis elegans* using swimming-induced paralysis, **G3: Genes, Genomes, Genetics**, 2: 961-975, 2012. [PMID:22908044; PMCID:3411251]

254. Chang, J.C., Kovtun, O., Blakely, R.D., Rosenthal, S.J. Labeling of neuronal receptors and transporters with quantum dots, **WIRES: Rev Nanomed Nanobiotechnol**, 4: 605-619, 2012. [PMID: 22887823]

255. 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., and Blakely, R.D. Nonisotopic assay for presynaptic choline transport reveals capacity for allosteric modulation of choline uptake, **ACS Chem Neurosci**, 3: 767-781, 2012 [PMID:23077721]

256. Barwick, K.E.S., Wright, J., Al-Turki, S., McEntagart, M.E., Nair, A., Chioza, B., Al-Memar, A., Modarres. H., Reilly, M.M., Dick, K.J., Ruggiero, A.M., Blakely, R.D., Hurles, M.E., Crosby, A.H, Defective Presynaptic choline transport underlies hereditary motor neuropathy, **Amer J Hum Genetics** 91: 1103-1107, 2012 [PMID: 23141292; PMCID: 3711270].

257. Zurkovsky, L., Bychkov, E., Tsakem, E.L., Siedlecki, C., Blakely, R.D., Gurevich, E.V., Combined dopamine and acetylcholine depletion on cognition: a mutant mouse model of Parkinson's disease dementia, **Disease Models and Mechanisms**, 6: 171-183, 2013 [PMID: 22864020; PMCID:3529349].

258. Moritz, A.E., Foster, J.D., Balachandra, K.G., Mazei-Robison, M.S., Yang, J.-W., Sitte, H.H., Blakely, R.D., Vaughn, R.A., Phosphorylation of dopamine transporter Ser7 modulates cocaine analog binding, **J Biol Chem** 288: 20-32, 2013 [PMID: 23161550;PMCID:3537014].

259. Baganz, N.L., Blakely, R.D. A dialog between the immune system and brain, spoken in the language of serotonin, **ACS Chemical Neuroscience,** 4**:** 48-63**,** 2013 [PMID:23336044; PMCID:3547518].

260. Parikh, V., St. Peters, M., Blakely, R.D., Sarter, M. The presynaptic choline transporter imposes limits on sustained cholinergic release and attention, **J Neurosci**, 33: 2326-2337, 2013 [PMID:23392663; PMCID: 3711270].

261. Engers, D. W., Bollinger, S. R., Ennis, E. A., Wright, J., Wu, M., Ruggiero, A. M., McManus, O. B., Lin, Z., Huang, X., Blakely, R. D., Lindsley, C. W., Li, M., Hopkins, C. R. Discovery and structure-activity relationship of a novel choline transporter inhibitor, **MLPCN Probe Report**, 2013, Bookshelf ID: pending

262. Paolone, G., Mallory, C.S., Cherian, A.K., Miller, T.R., Blakely, R.D., Sarter, M. Monitoring cholinergic activity during attentional performance in mice heterozygous for the choline transporter: a model of cholinergic capacity limits, **Neuropharmacology**, 75:274-85, 2013 [PMID: 23958450; PMCID: 3865115].

263. Dong, Y., Dani, Y.A., Blakely, R.D. Choline transporter hemizygosity results in diminished basal extracellular dopamine levels and blunts dopamine elevations following cocaine or nicotine, **Biochemical Pharmacology**, 86:1084-1088, 2013 [PMID: 23939187; PMCID:4413453].

264. Campbell, N.G., Zhu, C.-B., Lindler, K., Yaspan, B.L., Kistner-Griffin, E., NIH ARRA Autism Sequencing Consortium, Hewlett, W.A., Tate, C.G., Blakely, R.D., and Sutcliffe, J.G. Rare coding variants of the adenosine A3 receptor are increased in autism: On the trail of the serotonin transporter regulome, **Mol Autism**, 4:28. doi: 10.1186/2040-2392-4-28, 2013 [PMID: 23953133; PMCID: 3882891].

265. Kerr, T.M., Muller, C.L., Miah, M., Jetter, M.S., Pfeiffer, R., Shah, C., Baganz, N., Anderson, G.M., Crawley, J.N., Carneiro, A., Sutcliffe, J.S., Blakely, R.D., Veenstra-VanderWeele, J. Genetic background modulates phenotypes of serotonin transporter Ala56 knock-in mice, **Mol Autism**, 4(1):35. doi: 10.1186/2040-2392-4-35, 2013 [PMID: 24083388; PMCID:3851031].

266. Rudnick, G., Kramer, R., Blakely, R.D., Murphy, D.L., Verrey, F. The SLC6 Transporters: Perspectives on structure, function, regulation and models for transporter dysfunction, Pflügers **Arch Eur J Physiol** 466: 25-42, 2014 [PMID:24337881; PMCID: 3930102].

267. Ye, R., Carneiro. A.M.D., Airey, D., Sanders-Bush, E., Williams, R.W., Lu, L., Wang, J., Zhang, B., Blakely, R.D. Evaluation of heritable determinants of blood and brain serotonin homeostasis using recombinant inbred mice, **Genes, Brain and Behavior**, 13: 247-260, 2014 [PMID: 24102824; PMCID: 3979832].

268. Ye, R., Carneiro. A.M.D., Airey, D., Sanders-Bush, E., Han, Q., Zhang, B., Williams, R.W., Lu, L., Wang, J., Zhang, B., Blakely, R.D. Quantitative trait loci mapping and gene network analysis implicate protocadherin-15 as a determinant of brain serotonin transporter expression, **Genes, Brain and Behavior**, 13: 261-275, 2014 [PMID: 24405699; PMCID: 4436591]

269. Gowrishankar, R., Hahn, M. K., Blakely, R.D. Good riddance to dopamine: Roles of the dopamine transporter in synaptic function and dopamine-associated brain disorders, **Neurochem International**, 73C: 56-70, 2014 [PMID: 24231471].

270. Holmstrand, E.C., Lund, D., Koshi Cherian, A., Wright, J., Martin, R.F., Ennis, E., Stanwood, G.D., Sarter, M., Blakely, R.D. Transgenic overexpression of the presynaptic choline transporter elevates acetylcholine levels and augments motor endurance, **Neurochem Int** 73:217-28, 2014 [PMID: 24274995; PMCID: 4104494].

271. Mergy, M.A., Gowrishankar, R., Davis, G.L., Jessen, T.N., Wright, J., Stanwood, G.D., Hahn, M.K., Blakely, R.D. Genetic targeting of the amphetamine and methylphenidate-sensitive dopamine transporter: On the path to an animal model of attention-deficit hyperactivity disorder, **Neurochem Int** 73C:56-70, 2014 [PMID: 24332984; PMCID: 4177817].

272. Berry, A.S., Demeter, E., Sabhapathy, S., English, B.A., Blakely, R.D., Sarter, M., Lustig, C. Disposed to distraction: Genetic variation in the cholinergic system influences distractibility but not time-on-task effects, **J Cogn Neurosci** 25: 1-11, 2014 [PMID: 24666128; PMCID: 4445375]

273. Vollbrecht, P.A., Simmler, L. D., Blakely, R.D., Deutch, A.Y. Dopamine denervation of the prefrontal cortex increases expression of the astrocytic glutamate transporter GLT-1. **J Neurochem**, 130:109-114, 2014, [PMID: 24611756; PMCID:4065617]

274. Hardaway, J.A., Wang, J., Fleming, P.A., Fleming, K.A., Whitaker, S.M., Nackenoff, A., Snarrenberg, C.A., Hardie, Zhang, B., Blakely, R.D. An open-source analytical platform for analysis of *C. elegans* swimming induced paralysis, **J Neurosci Methods**, 232: 58-62, 2014. [PMID: 24792527; PMCID:4179448]

275. Prosser, R.A., Stowie, A., Amicarelli, M., Nackenoff, A.G., Blakely, R.D., Glass, J.D. Cocaine modulates circadian clock timing by decreasing serotonin transport in the SCN, **Neuroscience** 275: 184-93, 2014. [PMID: 24950119; PMCID: 4122660]

276. Ellegood, J., Anagnostou, E., Babineau, B.A., Crawley, J.N., Lin, L., Genestine, M., DiCicco-Bloom, E., Lai, J., Foster, J. Penagarikano, O., Geschwind, D.H., Markx, S., Karayiorgou, M., Gogos, J.A., Pacey, L.K., Hampson, D.R., Laliberte, C.L., Horev, G., Mills, A.A., Kouser, M., Espinosa-Becerra, F., Powell, C.M., Raznahan, A., Nakai, N., Takumi, T., Van Eede, M., Kerr, T.M., Jetter, C.S., Muller, C., Blakely, R.D., Veenstra-VanderWeele, J.M., Henkelman, R.M., and Lerch, J.P. Clustering autism-using neuroanatomical differences in 30 mouse models related to autism to gain insight into the heterogeneity of the disorder, **Mol Psychiatry** 20: 118-125, 2014 [PMID: 25199916; PMCID: 4426202]

277. Bowton, E.A., Saunders, C., Reddy, I., Campbell, N. G., Hamilton, P.J., Henry, L.K., Coon, H., Sakrikar, D. J., Veenstra-VanderWeele, J., Blakely, R.D., Sutcliffe, J.G., Matthies, H.J.G., Erreger, K., Galli, A. *SLC6A3* coding variant Ala559Val found in two autism probands alters dopamine transporter function and trafficking, **Translational Psychiatry**, 2014 Oct 14;4:e464. doi: 10.1038/tp.2014.90. [PMID: 25313507; PMCID: 4350523]

278. Mergy, M.A., Gowrishankar, R., Gresch, P.J., Wheeler, C.A., Davis, G.L., Jessen, T.N., Wright, J., Stanwood, G.D., Blakely, R.D. The rare DAT variant Val559 perturbs DA neuron function, changes behavior and alters *in vivo* responses to psychostimulants, **Proc Natl Acad Sci USA**, 111:E4779-88, 2014, [PMID: 25331903; PMCID: 4226116]

279. Chen, X., Ye, R., Gargus, J.J., Blakely, R.D., Dobrenis, K., and Sze, J.Y. Disruption of transient serotonin accumulation by non-serotonin-producing neurons impairs cortical map development, **Cell Reports** 10: 346-358, 2015. [PMID: 25600870; PMCID: 4824665].

280. Berry, A.S., Blakely, R.D., Sarter, M., and Lustig, C. Cholinergic capacity mediates prefrontal engagement during challenges to attention: Evidence from imaging genetics, **Neuroimage**, 108:386-385, 2015. [PMID: 25536497; PMCID: 4824665].

281. Ennis, E.A., Wright, J., Retzlaff, C.L., McManus, O.B., Lin, Z., Huan, X., M. Wu, Li, M., Daniels, J.S., Lindsley, C.W., Hopkins, C.R., Blakely, R.D. Identification and characterization of ML352: A novel, noncompetitive inhibitor of the presynaptic choline transporter, **ACS Chem Neurosci**, 6:417-427, 2015**.** [PMID: 25560927; PMCID: 4367188].

282. Kovtun, O., Sakrikar, D., Tomlinson, I.D., Chang, J. C., Blakely, R.D., and Rosenthal, S.D. Single-quantum-dot tracking reveals altered membrane dynamics of an attention-deficit/hyperactivity-disorder-derived dopamine transporter coding variant., **ACS Chem Neurosci**, 2015 6:526-34. PMID: 25747272; PMCID: 5530757]

283. Bollinger, S.R., Engers, D., Ennis, E.A., Wright, J., Locuson, C.W., Lindsley, C.W., Blakely, R.D., Hopkins, C.R. Synthesis and structure-activity relationships of a series 4-methoxy-3-(piperidin-4-yl)oxybenzamides as novel inhibitors of the presynaptic choline transporter, **Bioorganic and Medicinal Chemistry Letters**, 25:1757-1780, 2015 [PMID: 25801932 ; PMCID: 4385452]

284. Hardaway, A.J., Sturgeon, S.M., Snarrenberg, C.L., Li, Z., Xu, X.C.S., Bermingham, D. P., Odiase, P., Spencer, W.C., Miller III, D. M., Carvelli, L., Hardie, S.L., Blakely, R.D., Glial expression of the *Caenorhabditis elegans* gene Swip-10 supports glutamate dependent control of extrasynaptic dopamine signaling, **J. Neurosci** 35: 9409-9423, 2015 [PMID: 26109664 PMCID: 4478255]

285. Kohli, U., Diedrich, A., Kannankeril, P., Muzkat, M., Sofowora, G.G., Hahn, M.K., English, B.A,

Blakely, R.D., Stein, C.M., Kurnik, D., Genetic variation in alpha-2 adrenoreceptors is associated with heart rate recovery after exercise, **Physiological Genomics**, 47:400-406, 2015 [PMID: 26058836; PMCID: 4558937]

286. Baganz, N.L., Lindler, K.M., Zhu, C.B., Smith, J.T., Robson, M.J., Iwamoto, H., Deneris, E.S., Hewlett, W.A., Blakely, R.D. A requirement of serotonergic p38α mitogen activated protein kinase for peripheral immune system activation of CNS serotonin uptake and serotonin linked behaviors, **Translational Psychiatry***,* Nov 3;5:e671. doi: 10.1038/tp.2015.168., 2015, [PMID: 26529424; PMCID: 5068761]

287. Nackenoff, A.G., Moussa-Tooks, A.B., McMeekin, A.M., Veenstra-VanderWeele, J., Blakely, R.D. Essential contributions of serotonin transporter inhibition to the acute and chronic actions of fluoxetine and citalopram in the SERT Met172 mouse, **Neuropsychopharmacology***,* 4:1733-41, 2016 [PMID: 26514584; PMCID: 4869040]

288. Ye, R., Quinlan, M., Iwamoto, H., Wu, H.-H., Green, N.H., Jetter, C.S., McMahon, D.G., Veenstra-VanderWeele, J., Levitt, P., Blakely, R.D. Physical and functional interactions of neuroligin 2 with midbrain serotonin transporters and associated phenotypes, **Frontiers in Synaptic Neuroscience,** Jan 11;7:20. doi: 10.3389/fnsyn.2015.00020. eCollection 2015 [PMID: 26793096; PMCID: 4707279]

289. Bermingham, D.P., Hardaway, J.A., Snarrenberg, C.L., Robinson, S.B., Folkes, O.M., Salimando, G.J., Jinnah, H., and Blakely, R.D. Acute blockade of the *C. elegans* dopamine transporter DAT-1 by the mammalian norepinephrine transporter inhibitor nisoxetine reveals the influence of genetic modifications of dopamine signaling *in vivo,* **Neurochemistry Int***,* 98, 122-128, 2016 [PMID: 26850478, PMCID: 4707279].

290. Robson, M.J., Zhu, C.B., Quinlan, M.A., Botschner, D.A., Baganz, N.L., Lindler, K.M., Thome, J.G., Hewlett, W.A., and Blakely, R.D. Generation and characterization of mice expressing a conditional allele of the interleukin-1 receptor type 1, **PLOS One**, Mar 1;11(3):e0150068. doi: 10.1371/journal.pone.0150068. eCollection, 2016, [PMID: 26930558; PMCID: 4773179]

291. Margolis, K.G, Li, Z., Stevanovic, K., Saurman, V., Israelyan, N., Veenstra-VanderWeele, J., Blakely, R.D., Gershon, M.D. Serotonin transporter variant drives preventable gastrointestinal abnormalities in development and function, **J. Clin Investigation**, 126, 2221-2235, 2016 [PMID: 27111230; PMCID: 4887174]

292. Iwamoto, H., Calcutt, M.W., Blakely, R.D. Differential impact of genetically modulated choline transporter expression on the release of endogenous versus newly synthesized acetylcholine, **Neurchemistry Int***,* 98, 138-145, 2016 [PMID: 27013347, PMCID:4969175]

293. Sarter, M., Lustig, C., Blakely, R.D., Koshy Cherian, A. Cholinergic genetics of visual state attention: human and mouse choline transporter variants influence distractibility, **J. Physiol Paris.** 110:10-18, 2016. [PMID: 27404793; PMCID: 5164965]

294. Ennis, E.A. and Blakely, R.D. Choline on the move: Perspectives on the physiology and pharmacology of the presynaptic choline transporter, **Adv Pharmacol** 176:175-213, 2016. [PMID: 27288078, PMCID: In Progress]

295. Bermingham, D.P. and Blakely, R.D. Kinase-dependent regulation of monoamine neurotransmitter transporter regulation, **Pharmacological Reviews**, 68:888-953, 2016. [PMID: 27591044, PMCID: 5050440]

296. Brindley, R. L., Bauer, M.B., Blakely, R.D., and Currie, K.P.M. An interplay between the serotonin transporter (SERT) and 5-HT receptors controls stimulus secretion coupling in sympathoadrenal chromaffin cells, **Neuropharmacology**, 110: 438-448, 2016. [PMID: 27544824: PMCID: 5028315]

297. Bertron, J.L., Ennis, E.A., Tarr, C.J., Dickerson, J.W., Wright, J., Locuson, C.W., Blobaum, A.L. Rook, J.M., Blakely, R.D. and Lindsley, C.W. Optimization of the choline transporter (CHT) inhibitor ML352: Development of VU6001221, an improved *in vivo* tool compound, **Biorg and Med Chem Letters**, 26:4637-4640, 2016. [PMID: 27575469; PMCID: In Progress].

298. Robinson, S.B., Hardaway, J.A., Hardie, S.L., Wright, J., Glynn, R.M., Sturgeon, S.M., Freeman, P., Blakely, R.D. Sequence determunants of the *C. elegans* dopamine transporter dictating *in vivo* axonal export and synaptic localization, **Mol Cell Neurosci***,* 78:41-51, 2016. [PMID: 27913309; PMCID:5219924]

299. Muller, C.L., Anacker, A.M., Rogers, T.D., Goeden, N., Keller, E.H., Forsberg, C.G., Kerr, T.M., Wender, C.L., Anderson, G.M., Stanwood, G.D., Blakely, R.D., Bonnin, A., and Veenstra-VanderWeele, J. Maternal serotonin transporter genotype alters placental function, forebrain serotonin, and neurodevelopment, **Neuropsychopharmalogy**, 42: 427-436, 2017. [PMID: 27550733, PMCID:5399236]

300. Siemann, J.K., Muller, C.L., Forsberg, C.G., Blakely, R. D., Veenstra-VanderWeele, J., Wallace, M.T. An autism-associated serotonin transporter variant disrupts multisensory processing, **Translational Psychiatry**, 7:e1067, 2017. [PMID: 28323282; PMCID: 5416665]

301. Koshy Cherian, A., Kucinski, A, Pitchers, L., Yegla, B., Parikh, V., Kim, Y., Valuskova, P., Gurnani, S., Lindsley, C., Blakely, R.D., Sarter, M. Unresponsive choline transporter as a trait neuromarker and a causal mediator of bottom-up attentional biases, **J Neurosci,** 37: 2947-2959, 2017. [PMID: 28193693; PMCID: 5354335]

302. Nackenoff, A.G., Simmler, L.D., Baganz, N.L., Pehrson, A., Sánchez, C. and Blakely, R.D. Serotonin transporter-independent actions of the antidepressant vortioxetine as revealed using the SERT Met172 mouse, **ACS Chemical Neurosci***,*8:1092-1100, 2017. PMID: 28882630; PMCID: In Progress]

303. Robson, M.J., Quinlan, M.A., Blakely, R.D. Immune system activation and depression: Role of serotonin in the central nervous system and periphery, **ACS Chemical Neurosci***,* 8:932-942, 2017. [PMID: 28345868; PMCID: In Progress]

304. Brindley, R.L., Bauer, M.B., Blakely, R.D., and Currie, K.P.M. Serotonin and serotonin transporters in the adrenal medulla: A potential hub for modulation of the sympathetic stress response, **ACS Chemical Neurosci***,* 8:943-954, 2017. [PMID: 28406285; PMCID: 5541362]

305. Simmler, L.D., Anacker, A.M.J., Levin, M.H, Vaswani, N., Gresch, P.J., Nackenoff, A.G, Anastasio, N.C., Stutz, S.J., Cunningham, K.A., Wang, J., Zhang, B., Henry, L.K., Veenstra-VanderWeele, J., Blakely, R.D. Serotonin transporter blockade contributes to the behavioral, neuronal and molecular effects of cocaine, **British J. Pharmacol**., 174:2716-2738, 2017 [PMID: 28585320; PMCID: 5522997]

306. Koshy Cherian, A., Parikh, V., Wu, Q., Mao-Drayer, Y., Blakely R.D., Sarter, M. Hemicholinium-3 sensitive choline transport in human T lymphocytes: Evidence for use as a proxy for brain choliune transport capacity, **Neurochem Int**, 108: 410-416, 2017. [PMID: 28577989; PMCID: 5524217]

307. Rajkowska, G., Mahajan, G., Legutko, B., May, W.L., Miguel-Hidalgo, J.J., Austin, M.C., Blakely, R.D., Steffens, D.C., and Stockmeier, C.A. Length of axons expressing the serotonin transporter in orbitofrontal cortex is lower with age in depression, **Neuroscience**, 359: 30-39, 2017. [PMID: 28711621; PMCID: 5567856]

308. Retzlaff, C.L., Kusrow, A., Schorkopf, T., Saetear, P., Bornhop, D.J., Hardaway, J.A., Sturgeon, S.M., Wright, J., and Blakely, R.D. Metallo-β-lactamase domain-containing protein 1 (MBLAC1) is a specific, high-affinity target for the glutamate transporter Inducer ceftriaxone, **ACS Chem Neurosci**, 8:2132-2138, 2017 [PMID: 28783953; PMCID: In Progress]

309. Bermingham, D.P., Hardaway, J.A., Refai, O., Marks, C.R., Snider, S.L., Sturgeon, S.M., Spencer, W.C., Colbran, R.J., Miller, D.M., III, and Blakely, R.D. The atypical MAP Kinase SWIP-13/ERK8 regulates dopamine transporters through a Rho-dependent mechanism, **J. Neurosci**, 37: 9288-9304, 2017. [PMID: 28842414; PMCID:5607470]

310. Fernandes, D.J., Ellegood, J., Askalan, R., Blakely, R.D., Dicicco-Bloom, E., Egan, S.E., Osborne, L.R., Powell, C.M., Raznahan, A., Robins, D.M., Salter, M.W., Sengar, A.S., Veenstra-VanderWeele, J., and Lerch, J.P. Spatial gene expression analysis of neuroanatomical differences in mouse models, **Neuroimage**, 163: 220-230, 2017. [PMID: 28882630; PMCID: 7097887]

311. Wang, H., Salter, C., Refai, O., Hardy, H., Barwick, K.E.S., Kavrnung, M., Chioza, B.A., Taylan, F., Sejersen, T., Wright, J., Zimmerman, H.H., Karakaya, M., Akpulat, U., Stüve, B., Weis, J., Schara, U., Russell, M.A., Abdul-Rahman, O.A., Chilton, J., Blakely, R.D., Baple, E.L., Cirak, S., and Crosby, A.H. Choline transporter mutations in severe congenital myasthenic syndrome disrupt transporter localization, **Brain** 140:2838-2850, 2017. [PMID: 2908834; PMCID: 5844214].

312. Davis, G.L., Stewart, A., Stanwood, G.D., Gowrishankar, R., Hahn, M.K., and Blakely, R.D. Functional coding variation in the presynaptic dopamine transporter associated with neuropsychiatric disorders drives enhanced motivation and context-dependent impulsivity in mice, **Behavioral Brain Research**, 337: 61-69, 2018. [PMID: 28964912; PMCID: 5645257]

313. Salter, C., Beijer, D., Hardy, H., Barwick, K.E.S., Bower, M., Mademan, I., De Jonghe, P., Russell, M.A., McEntagart, M.M., Chioza, B.A., Blakely, R.D., Chilton, J.K., Bleeker, J.D., Baets, J., Baple, E.L., Walk, D., and Crosby, A.H. Truncating *SLC5A7* mutations underlie a spectrum of dominant hereditary motor neuropathies, **Neurology: Genetics**, 4(2):e222, 2018. [PMID: 29582019; PMCID:5866402].

314. Dai, H., Jackson, C.R., Davis, G.L., Blakely, R.D., and McMahon, D.G. Neuropsychiatric disorder-associated dopamine transporter variant Val559 alters retinal function *in vivo*, **J. Neurodevelopmental Disorders**, 9(1):38. doi: 10.1186/s11689-017-9215-8, 2018. [PMID: 21289265; PMCID:5745861]

315. Muntean, B.S., Zucca, S., Macmullen, C.M., Dao, M.T., Johnston, C., Iwamoto, H., Blakely, R.D., Davis, R.L., and Martemyanov, K.A. Interrogating spatio-temporal landscape of neuromodulatory GPCR signaling by real-time imaging of cAMP dynamics in intact neuronal circuits, **Cell Reports**, 22:255-268, 2018. [PMID: 29298426; PMCID: 5761078]

316. Ellegood, J. Yee, Y., Kerr, T.M., Muller, C.L., Blakely, R.D., Henkelman, R.M., Veenstra-VanderWeele, J., and Lerch, J.P. Analysis of neuroanatomical differences in mice with genetically modified serotonin transporters assessed by structural magnetic resonance imaging, **Mol Autism**, Apr 10;9:24. doi: 10.1186/s13229-018-0210-z. eCollection, 2018. [PMID:29651330; PMCID: 5894125].

317. Gibson, C.L., Balbona, J.T., Niedzwiecki, A., Rodriguez, P., Nguyen, K.C.Q., Hall., and Blakely, R.D. Glial loss of the metallo β-lactamase domain containing protein, SWIP-10, induces age- and glutamate-dependent dopamine neuron degeneration, **PLOS Genetics, 14(3)** e1007269, 2018. [PMID: 29590100; PMCID: 5891035].

318. Gowrishankar, R., Davis, G., Gresch, P.J., Riele, J.R., Stewart, A., Vaughan, R.A., Hahn, M.K., and Blakely, R.D. Region-specific regulation of presynaptic dopamine homeostasis dictates the in vivo impact of the neuropsychiatric disease-associated DAT variant Val559, **J. Neurosci** 38: 5302-5312, 2018 [PMID: 29739866; PMCID: 5990980].

319. Gibson, C.L., Codreanu, S.G, Schrimpe-Rutledge, A.C., Retzlaff, C.L., Wright, J., Mortlock, D.P., Mclean, J.A., Blakely, R.D. Global untargeted metabolomic analyses nominate metabolic pathways responsive to loss of the orphan metallo β-lactamase MBLAC1, **Mol Omics** 14:142-155, 2018. [PMID: 2986867; PMCID:6015503]

320. Burke, S.J., Batdorf, H.M., Burk, D.H., Martin, T.M., Mendoza, T., Stadler, K., Alami, W., Karlstad, M.D., Robson, M.J., Blakely, R.D., and Collier, J.J. Pancreatic deletion of interleukin-1 receptors disrupts whole body glucose homeostasis and promotes islet β-cell de-differentiation, **Mol Metabol**, 14:95-107, 2018 [PMID:29914854; PMCID:6034063]

321. Robson, M.J., Quinlan, M.A., Margolis, K.G., Gajewski-Kurdziel, P., Veenstra-VanderWeele, J., Gershon, M.D., Watterson, D.M., and Blakely, R.D. p38α MAPK signaling drives pharmacologically reversible brain and gastrointestinal phenotypes in the SERT Ala56 mouse, **Proc Natl Acad Sci, USA**. Oct 23;115(43): E10245-E10254, 2018 [PMID:30297392; PMCID:6205348]

322. Refai, O. and Blakely, R.D. Blockade and reversal of swimming-induced paralysis in *C. elegans* by the antipsychotic and D2-type dopamine receptor antagonist azaperone, **Neurochem Int** 123: 59-68, 2019 [PMID: 29800604; PMCID: 6250597].

323. Brindley, R.L., Bauer, M.B, Walker, L.A. Quinlan, M.A., Carneiro, A.M., Sze, J.-Y., Blakely, R.D., Currie, K.P.M. Adrenal serotonin derives from accumulation by the antidepressant-sensitive serotonin transporter, **Pharmacol Res***,* 140:56-66, 2019 [PMID:29894763; PMCID: 6286867].

324. Thal, L, Tomlinson, I., Quinlan, M.A. Kovtun, O. Blakely, R.D., Rosenthal, S.J. Single quantum dot imaging reveals PKCβ-dependent alterations in membrane diffusion and clustering of an ADHD/autism/bipolar disorder-associated dopamine transporter variant, **ACS Chem Neurosci** 10:460-471, 2019 [PMID:30153408; PMCID:6411462]

325. Stewart, A., Davis, G.L., Gresch, P.J., Katamish, R.M., Peart, R., Rabil. M.J., Gowrishankar, R., Carroll, F.I., Hahn, M.K., and Blakely, R.D. Serotonin transporter inhibition and 5-HT_{2C} receptor activation drives loss of cocaine-induced locomotor activation in DAT Val559 mice, **Neuropsychopharmacology** 44:994-1006, 2019 [PMID: 30578419; PMCID:6462012]

326. Blakely, R.D., El Mestikaway, S., Robinson, M.B. The brain in flux: genetic, physiologic, and therapeutic perspectives on transporters in the CNS, **Neurochem Int** 123:1-6, 2019 [PMID:30571999; PMCID: In Progress]

327. Liu, X., Nemeth, D.P., McKim, D.B., Zhu, L., DiSabato, D.J., Berdysz, O., Gorantla, G., Oliver, B., Witcher, K.G., Wang, Y., Negray, C.E., Vegesria, R.S., Sheridan, J.F., Godbout, J.P., Robson, M. J., Blakely, R.D., Popovich, P. G., Bilbo, S. D., and Quan, N. Cell type specific interleukin 1 receptor signaling in the brain regulates distinct neuroimmune activities, **Immunity**, 50:764-766, 2019 [PMID: 30893590; PMCID:6759085]

328. Quinlan, M. A., Krout, D., Katamish, R.M., Robson, M.J., Nettesheim, C.J., Gresch, P.J., Mash, D.C., Henry, L.K., and Blakely, R.D. Human serotonin transporter coding variation establishes conformational bias with functional consequences, **ACS Chem Neurosci**, 10:3249-3260, 2019 [PMID: 30817127; PMCID: 6640095]

329. Koshy Cherian, A., Tronson, N.C., Parikh, V., Blakely, R.D., and Sarter, M. Repetitive mild concussion in subjects with a vulnerable cholinergic system: lasting cholinergic-attentional impairments in CHT+/- mice, **Behav Neurosci**, 133:448-459, 2019 [PMID: 30896190; PMCID: 6625848]

330. Simmler, L.D. and Blakely, R.D. The SERT Met172 Mouse: An engineered model to elucidate the contributions of serotonin signaling to cocaine action, **ACS Chemical Neurosci**, 10:3053-3060, 2019 [PMID: 30817127; PMCID in Progress]

331. Robinson, S.B., Refai, O., Hardaway, J.A., Sturgeon, S., Popay, T., Bermingham, D.P., Freeman, P., Wright, J., and Blakely, R.D. Dopamine-dependent, swimming-induced paralysis arises as a consequence of loss of function mutations in the RUNX transcription Factor RNT-1, **PLoS One**, May 13;14(5):e0216417, 2019 [PMID: 31083672; PMCID: 6513266]

332. Areal, L.B. and Blakely, R.D. Neurobehavioral changes arising from early life dopamine signaling perturbations, **Neurochem International**, 2020 *in press* [PMID: 32325191; PMCID: 7261509]

333. Quinlan, M.A., Robson, M.J., Ye, R., Rose, K., Schey, K.L., and Blakely, R.D. *Ex vivo* quantitative proteomic analysis of serotonin transporter interactome: Network impact of the SERT Ala56 coding variant, **Frontiers in Mol Neurosci**, 13:1-16, 2020 [PMID: 32581705; PMCID: 7295033]

334. O'Reilly, K.C., Anacker, A.A., Rogers, T.D., Forsberg, C.G., Wang, J., Zhang, B., Blakely, R.D., and Veenstra-VanderWeele, J. A social encounter drives gene expression changes linked to neuronal function, brain development, and related disorders in mice expressing the serotonin transporter Ala56 variant, **Neuroscience Letters**, Jun 21;730:135027, doi:10.1016/j.neulet.2020.135027, 2020. [PMID:32437898; PMCID: 7440397]

335. Kelly, I., Meng, F., Fujita, H., Morgado, F., Kazemi,Y., Rice, L.C., Ren,C., Escamilla, C.O., Gibson, J.M., Sajadi, S., Pendry, R., Tan, T., Ellegood, J., Basson, M.A., Blakely, R.D., Dindot, S., Golzio, C., Hahn, M.K., Katsanis, N., Robins, D., Silverman, J., Singh, K., Wevrick, R., Taylor, M., Hammill, C., Anagnostou, E., Pfeiffer, B.E., Stoodley, C.J., Lerch, J.P., du Lac, S., and Tsa, P.T. Regulation of autism-relevant behaviors by cerebellar-prefrontal cortical circuits, **Nature Neuroscience**, 23: 1102-1110, 2020. [PMID: 32661395; PMCID: 7483861]

336. Mayer, F. P., Iwamoto, H., Hahn, M.K., Grumbar, G.J., Stewart, A., Li, Y., and Blakely, R.D. There's no place like home? Return to the home cage triggers release of dopamine in the nucleus accumbens, **Neurochemistry International**, 142:104894, 2021, [PMID:33161093; PMCID: 7483861]

337. O'Reilly, K.C., Connor, M., Pierson, J., Shuffrey, L.C., Blakely, R.D., Ahmari, S., and Veenstra-VanderWeele, J. Serotonin 5-HT1B receptor-mediated behavior and binding in mice with overactive and dysregulated serotonin transporter Ala56 variant, **Neurosci Letters**, 238: 1111-1120, 2021. [PMID:33511450; PMCID: 8728944]

338. Muntean, B.S., Masuho, I., Dao, M., Sutton, L.P., Zucca, S., Iwamoto, H., Patil, D.N., Wang, D., Giles, A.C., Birnbaumer, L., Blakely, R.D., Grill, B., Martemyanov, K.A. Gao is a major determinant of cAMP signaling in pathophysiology of movement disorders, **Cell Reports** 34(5):108718, 2021.[PMID:33535037; PMCID: 7903328]

339. Hersey, M., Samaranayake, S., Berger, S.N., Tavakoli, N., Nijhout, F. H., Reed, M.C., Best, J., Blakely, R. D., Reagan, L.P., and Hashemi, P. Inflammation-induced histamine impairs the capacity of escitalopram to increase extracellular serotonin, **J. Neurosci** 41: 6574-6577, 2021 [PMID:33830406; PMCID: 8318079]

340. Meinke, C., Quinlan, M.A., K.C. Paffenroth, Harrison, F.E., Fenollar-Ferrer, C., Katamish, R.M., Stillman, I., Ramamoorthy, S., and Blakely, R.D. Serotonin transporter Ala276 mouse: Novel model to assess the neurochemical and behavioral impact of Thr276 phosphorylation *in vivo*, **Neurochem Research** 47:37-60, 2021 [PMID:33830406; PMCID: In Progress]

341. Stilley, S.E. and Blakely, R.D. Rare opportunities for insights into serotonergic contributions to brain and bowel disorders: Studies of the SERT Ala56 mouse, **Frontiers in Celullar Neuroscience** 15:677863, doi.10.3389, 2021 [PMID:34149362; PMCID: 8210832]

342. Refai, O., Aggarwal, S., Cheng, M.H., Gichi, Z., Salvino, J.M., Bahar, I., Blakely, R.D., and Mortensen, O. V. Allosteric modulator KM822 attenuates behavioral actions of amphetamine in . *C. elegans* through interactions with the dopamine transporter DAT-1, **Mol Pharm** 101:123-131, 2022 [PMID:34906999; PMCID: 8969146]

343. Ren, J., Lu, X., Hall, G., Privratsky, J.R., Robson, M.J., Blakely, R.D, and Crowley, S.D. IL-1 receptor signaling in podocytes limits susceptibility to glomerular damage, **Amer J Physiol-Renal Physiology**, 322: F164-F174, 2022 [PMID:34894725; PMCID: 8782651]

344. Donovan, E., Avila, C., Parikh, V., Fenollar-Ferrer, M.C., Blakely, R.D., and Sarter, M. Disrupted choline clearance in vivo by a choline transporter variant associated with poor attentional control in humans, **J. Neurosci**, 42:3426-3444, 2022. [PMID: 35232764; PMCID: 90346784]

345. Stewart, A., Mayer, F.P., Gowrishankar, F.P., Davis, G.L., Areal, L.B., Gresch, P.J., Katamish, R. M., Peart, R., Stilley, S.E., Spiess, K., Rabil, M.J., Dilijohn, F.A., Bodine, A., Vaughan, R.A., Hahn, M.K., and Blakely, R.D. Behaviorally penetrant, anomalous dopamine efflux exposes sex and circuit dependent regulation of dopamine transporters, **Mol Psychiatry**, 12:4869-4880, 2022. [PMID: 336352123: PMCID: In Process]

346. Stewart, A., Davis, G.L., Areal, L.B., Rabil. R.J., Tran, V., Mayer, F.P., and Blakely, R.D. Male DAT Val559 mice exhibit compulsive behavior under devalued reward conditions accompanied by cellular and pharmacological changes, **Cells**, 1(24):4059, 2022. [PMID: 36552863;PMCID: 9777203]

347. Mayer, F.P., Nielo, M., Cintulova, D., Sideromenos, S., Maier, J., Li, Y., Bulling, S., Kudlacek, O., Schicker, K., Iwamoto, H., Deng, F., Wan, J., Holy, M., Katamish, R., Sandtner, W., Li, Y., Pollak, D.D., Blakely, R.D., Mihovilovic, M.D., Baumann, M.H. and Sitte, H.H. Serotonin releasing agents with reduced off-target effects, **Mol Psychiatry***,* 28:722-732, 2023. [PMID: 36552863;PMCID: 96455344]

348. Ren, J., Liu, K., Wu, B., Sun, L., Privatsky, J.R., Xing, C., Robson, M.J., Mao. H., Blakely, R.D., Abe, K., Souma, T., and Crowley, S.D. Divergent actions of renal tubular and endothelial type 1 interleukin-1 receptor signaling in toxin-induced acute kidney injury, **J. Amer Soc Nephrology,** 2023 *in press***,** on-line ahead of print [PMID: 37545036;PMCID: In Progress]

349. Luis, T.C., Barkas, N., Giustacchini, A., Guerrero, J.A., Wu, B., Bourez-Jones, T., Macauley, I.C., Mayer, L., Zhu, G., Ni, H., Robson, M.J., Blakely, R.D., Mead, A.J., Nerlov, C., Ghevaert, C., Elrick, S., and Jacobsen, W. Perivascular niche cells sense thrombocytopenia and activate platelet-biased stem cells in an IL-1 dependent manner, **Nature Communications***,* 2023 *in press*.

350. Haque, T.T., Taruselli, M.T., Kee, S.A., Dailey, J.D., Pondicherry, N., Gajewski-Kurdziel, P.A., Zellner, M.P., Stephenson, D.J., MacKinight, H.P., Strauss, D.B., Kankaria, R., Jackson, K.G., Chumanevich, A.P., Fukuoka, Y., Schwartz, L.B., Blakely, R.D., Oskeritizian, C.A., Chalfant, C.E., Martin, R.K., and Ryan, J.J.. Fluoxetine restrains allergic inflammation by targeting an FceRI-ATP positive feedback loop in mast cells, **Science Signaling**, 16: eabc9089, 2023.

351. Rodriguez, P. and Blakely, R.D. Sink or swim: Does a paralysis phenotype in C. elegans hold clues to neurodegenerative disease, ***J. Cell Physiology***, *2023, Oct 5*, doi: 10.1002/jcp.31125. Online ahead of print. [PMID: 37795580; PMCID: In Progress]

352. Mayer, F.P., Stewart, A. and Blakely, R.D. Leaky lessons learned: Efflux prone dopamine transporter variant reveals sex and circuit specific contributions of D2 receptor signaling to neuropsychiatric disease, **Basic & Clinical Pharmacology & Toxicology**, 2023 *in press*.

353. Støier, J.F., Rasmussen, T.N., Sparsøe, T., Rasmussen, H.B., Rahbek-Clemmensen, T., Newman, A.H., Blakely, R.D., Werge, T., Gether, U., and Herborg, F. Association of hypomorphic serotonin transporter coding variants with treatment-resistant affective disorder, *submitted*.

354. Robson, M.J., Zhu, C.B., Owens, A.J., Daws, L.C., Hewlett, W.A., and Blakely, R.D. Peripheral poly I:C administration induces rapid, IL-1R1 and p38 MAPK dependent activation of mouse brain serotonin transporters and depressive behavior, *submitted*

355. Hyun, J. H., Hannan, P., Iwamoto, H., Blakely, R.D., and Kwon, H.-B. Serotonin in the orbitofrontal cortex enhances cognitive flexibility, **BioRXiv**, 2023
doi: https://doi.org/10.1101/2023.03.09.531880, *submitted for peer review.*

356. Mayer, F.P., Stewart, A., Varman, D.R. Moritz, A.E., Foster, J.D., Owens, A.W., Areal, L.B., Gowrishankar, R., Velez, M., Wickham, K., Phelps, H., Katamish, R., Rabil, M., Jayanthi., L.D., Vaughan, R., Daws, L.C., Blakely, R.D., and Ramamoorthy, S. Kappa opioid receptor antagonism rescues genetic perturbation of dopamine homeostasis: molecular, physiological, and behavioral consequences, **BioRXiv**, 2023 doi: https://doi.org/10.1101/2023.05.03.539310, *submitted for peer review.*

357. Gradisch, R., Schlögl, K., Lazzarin, E., [1]Niello, M., Maier, J., Mayer, F.P., Alves da Silva, L., Skopec, S. MC, Blakely, R.D. Sitte, H.H., Mihovilovic, M., and Stockner, T. Ligand coupling mechanism of the human serotonin transporter differentiates substrates from inhibitors, *submitted*.

358. Ceyhan, B., Nategh, P., Neghabi, M., LaMar, J.A., Konjalwar, S., Rodriguez, P., Hahn, M.K., Blakely, R.D., and Ranji, M. Optical imaging demonstrates tissue specific metabolic perturbations in *Mblac1* KO mice, *submitted*.

359. Gajewski-Kurdziel, P.A*., Walsh, A.E.*, and Blakely, R.D. Functional and pathological consequences of being fast on the uptake: Protein kinase G and p38α MAPK regulation of serotonin transporters, *submitted*

360. Ellegood,J., Beauchamp, A., Yee … , Henkelman, R.M., Kushki, A., Chakravarty, M., Mars, R.B., Anagnostou, E., Lerch, J.P. Subgrouping Autism: Using neuroanatomy in the mouse to drive and link molecular pathways to idiopathic human clusters, *in preparation*.

361. Rodriguez, P., Kalia, V., Gibson, C. L., Gichi, Z., Rajoo, A., Matier, C.D., Pezacki, A.T., Xiao, T., Carvelli, L., Chang, C.J., Miller, G.W., Khamoui, A.V., Boerner, J., and Blakely, R.D. Glial *swip-10* expression controls systemic mitochondrial function, oxidative stress, and neuronal viability via copper homeostasis, *submitted*.

362. Anderson, G.M., Cook, E., Sutcliffe, J.M., Blakely, R.D., Veenstra-VanderWeele, J. Long COVID-19 and serotonin: A reconsideration, *submitted*.

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=PHWsL8Y9NqM&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=pS8BcICSTGY

8. Research in the Blakely Lab at the FAU Brain Institute, July 2018
https://www.youtube.com/watch?time_continue=2&v=yd0rZ5Lg_x4

8. Study Pinpoints Pathway Impacting Features of Autism, Oct 2018
https://www.fau.edu/newsdesk/articles/blakely-autism-study.php

9. 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/cx93EeHxElE