

9th Annual Undergraduate Research Symposium

Poster Presentation Winners

Category: Basic Sciences I

First Place:

Dalia Soueid

Project Title: "Engineering of Novel Matriptase Inhibitors Based on Eglin C Core Structure"

FAU Mentor: Maciej Stawikowski

College: Charles E. Schmidt College of Science

Second Place:

John Pearl, Peter Ramdhan

Project Title: "Inhibition of Matriptase at the Cell Surface: Modeling and Synthesis of Membrane-anchored Matriptase Inhibitors"

FAU Mentor: Maciej Stawikowski

College: Charles E. Schmidt College of Science

Category: Basic Sciences II

First Place:

Lana Ilazarova, Luis Campos, Merna Mankarious, Julie Yassa

Project Title: "Identification of Amphid Neurons Where Autophagy Acts to Control *C. elegans* Development"

FAU Mentor: Kailiang Jia

College: Charles E. Schmidt College of Science

Second Place:

Alexis Martin

Project Title: "Optimized Protocols for Extraction of Microbial Natural Products"

FAU Mentor: Diane Baronas-Lowell

College: Charles E. Schmidt College of Science

Category: Basic Sciences III

First Place:

Daniella Ospina

Project Title: "Immigration, Education and Cognitive Performance in Elderly Bilingual Adults Who Are Cognitively Normal, MCI and Dementia"

FAU Mentor: Monica Rosselli

College: Charles E. Schmidt College of Science

Second Place:

Maria Fernandez

Project Title: "Quantifying Genetic Differentiation Among *Gopherus Polyphemus* Populations in South Florida to Guide Translocation Efforts"

FAU Mentor: Evelyn Frazier

College: Charles E. Schmidt College of Science

Category: Behavioral, Educational & Social Sciences I

First Place:

Nicole Fitzgerald, Kayla Burd

Project Title: "Examining Affective Exchanges in Therapy Sessions with Substance Abuse Clients"

FAU Mentor: Paul Peluso

College: Charles E. Schmidt College of Science

Second Place:

Kelly Thomas

Project Title: "The Relevance of Cultural Commonality Based Relationships Developed Between Teachers and Students with Emotional and Behavioral Disorders"

FAU Mentor: Lisa Finnegan

College: College of Education

Category: Behavioral, Educational & Social Sciences II

First Place:

Alyssa Alvarez, Nikole Holness

Project Title: "What is the Public's Perception of Welfare in America?"

FAU Mentor: Monica Escaleras

College: College of Business

Second Place:

Kimarah Lamothe

Project Title: "Interactions of the Nucleus Reuniens of the Thalamus and Hippocampus in Elapsed Time"

FAU Mentor: Robert Vertes

College: Charles E. Schmidt College of Science

Category: Behavioral, Educational & Social Sciences III

First Place:

Nadine Akin

Project Title: "EEG and FMRI Data Analysis"

FAU Mentor: Emanuelle Tognoli

College: Charles E. Schmidt College of Science

Second Place:

Stefani Moccia

Project Title: "AI-based Feedback for Prevention of Body-focused Repetitive Behaviors"

FAU Mentor: Elan Barenholtz

College: Charles E. Schmidt College of Science

Category: Business, Marketing, Finance and Public Administration

First Place:

Sydney Elney

Project Title: "The Effects of Infrastructure Service Disruptions and Socio-Economic Vulnerability on Hurricane Recovery"

FAU Mentor: Monica Escaleras

College: College of Business

Second Place:

Daphnie Dilus, Jazmin Velasco

Project Title: "Social Media's Affect on Self-Esteem"

FAU Mentor: Monica Escaleras

College: College of Business

Category: Classroom Research Project/Assignment

First Place:

Austin Silverstein

Project Title: "Effect of Student Dissatisfaction of On-Campus Food Services Causing Students to Prefer Eating Off-Campus"
FAU Mentor: Pradeep Korgaonkar
College: College of Business

Second Place:

Lee M. Sanchez Lucas, Mariana Zuleta

Project Title: "Rapid Method for Human Health Risk Assessment in the Swash Zone (Wet Beach Sand) of South Florida Beaches"
FAU Mentor: Esiobu Nwadiuto
College: Charles E. Schmidt College of Science

Category: Cross Disciplinary Projects

First Place:

Kristen Crawford

Project Title: "All Ears: Can Ear Recognition Software be a Solution for Mobile Phone Security?"
FAU Mentor: William Hahn
College: Charles E. Schmidt College of Science

Second Place:

Christopher Tepetitlan, Tracey Tobkin

Project Title: "The State of Hummingbirds: The Wingbeats the World Should Know"
FAU Mentor: Dorotha Lemeh
College: Harriet L. Wilkes Honors College

Category: Engineering

First Place:

Holly Schlichting, Lyubov Denissova, Chad Kaplowitz, Benjamin Loudon, Juan Rios, Gaby Carvalho

Project Title: "Algae Neutralizing Cleaning Hybrid Ocean Robot (A.N.C.H.O.R.)"
FAU Mentor: Daniel Meeroff
College: College of Engineering and Computer Science

Second Place:

Mary Rasura

Project Title: "Recognizing the Boiling of Liquids Using CNNs"
FAU Mentor: William Hahn
College: Charles E. Schmidt College of Science

Category: Environmental, Ecological & Marine Sciences I

First Place:

Lisa Nguyen

Project Title: "Water Quality Analysis to Assess Nutrient Loading and Algae Bloom Potential"
FAU Mentor: William Louda
College: Charles E. Schmidt College of Science

Second Place:

Zachary Hollendonner, Lovenie Talien

Project Title: "Using a High-Throughput System to Manipulate Biotic Signaling and Physicochemical Parameters While Screening for Bioactive Molecules"
FAU Mentor: Nwadiuto Esiobu
College: Charles E. Schmidt College of Science

Category: Environmental, Ecological & Marine Sciences II

First Place:

Lauren Melanson

Project Title: "A Survey of the Arthropod Species Present in Gopherus Polyphemus Burrows at the FAU Preserve"
FAU Mentor: Evelyn Frazier
College: Charles E. Schmidt College of Science

Second Place:

Jennifer Unger

Project Title: "Analysis of Vertebrate Species of Gopherus Polyphemus Burrows"
FAU Mentor: Evelyn Frazier
College: Charles E. Schmidt College of Science

Category: Environmental, Ecological & Marine Sciences III

First Place:

Laurent Lorquet

Project Title: "Rapid Detection G. zonatum in Palm Trees Using qPCR"
FAU Mentor: Nwadiuto Esiobu
College: Charles E. Schmidt College of Science

Second Place:

Andrew Balsamo, Tahoe Albergo, Mohamed Abutineh, Milove Jeannot, Amanda Lam, Nicholas Nifakos, Nicholas Pizzo

Project Title: "Expression of Tardigrade Damage Suppressing Protein (Dsup) Gene in Tobacco Plants"
FAU Mentor: Xing-Hai Zhang
College: Charles E. Schmidt College of Science

Category: Health & Medical Sciences I

First Place:

Aaron McFarlane

Project Title: "Transport of a Collagen-Derived Fluorogenic Substrate Across an In Vitro Model of the Blood-Brain Barrier"
FAU Mentor: Gregg Fields
College: Charles E. Schmidt College of Science

Second Place:

Sarah Thurlow

Project Title: "Assessing the Efficacy of Bureaucratic Caring Theory as a Framework for Evaluating Long-Term Care Administrators Description of their Roles and Challenges"
FAU Mentor: Rose Sherman
College: Christine E. Lynn College of Nursing

Category: Health & Medical Sciences II

First Place:

Sarvika Bommakanti

Project Title: "The Role of Human Polynucleotide Phosphorylase (hPNPase) in Downregulating Oxidized RNA"
FAU Mentor: Zhongwei Li
College: Charles E. Schmidt College of Science

Second Place:

Isabella Velasquez Botero

Project Title: "Action Research to Benefit Those Who Suffered Loss: Refining a Therapeutic Walking Intervention in a Japanese Garden and Identifying Relevant Outcomes"
FAU Mentor: Patricia Liehr
College: Christine E. Lynn College of Nursing

Category: Health & Medical Sciences III

First Place:

Rida Altaf

Project Title: "Irradiation Augmentation of Genistein-Induced Apoptosis in Androgen-Independent DU-145 Prostate Cancer Cells in Vitro"
FAU Mentor: James Kumi-Diaka
College: Charles E. Schmidt College of Science

Second Place:

Giselle Shim, Rama Abdin

Project Title: "Effects of Bath Salts on the Activation of Cortical Neurons Associated with Excited Delirium"
FAU Mentor: Rui Tao
College: Charles E. Schmidt College of Science

Category: Music, Art, Literature, Theater, History & Philosophy

First Place:

Izabella Hernandez

Project Title: "Interactions Between Humans and The Public Built Environment: Creating Extensions of the Body Through Bacterial Exchange (A Sculptural Installation)"
FAU Mentor: Julie Ward
College: Dorothy F. Schmidt College of Arts and Letters

Second Place:

Jessica Cassandra Young

Project Title: "Strange Frequencies: Development of a Post-Human Narrative"
FAU Mentor: Rachel Luria
College: Harriet L. Wilkes Honors College