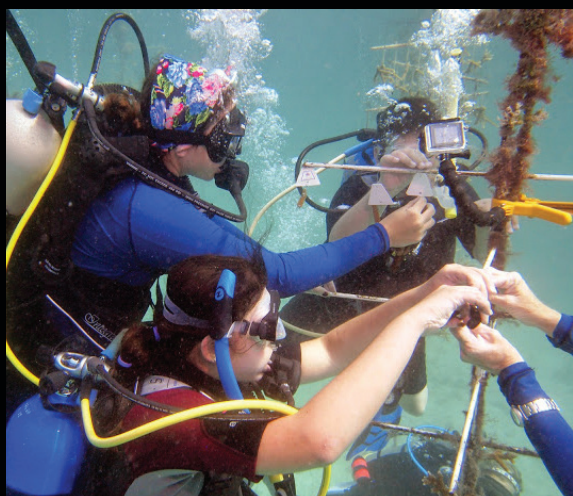


[FEBRUARY 26-27, 2016]

FURC

FLORIDA UNDERGRADUATE RESEARCH CONFERENCE



HOSTED BY THE UNIVERSITY OF TAMPA

CONFERENCE SCHEDULE

[FRIDAY, FEB. 26]

- 6–8:30 p.m. Registration and Reception, Vaughn Center, Ninth Floor
- 7:30 p.m. Keynote Presentation: Daniel Huber, Ph.D.

[SATURDAY, FEB. 27]

- 7:30–8:30 a.m. Registration and Breakfast, Plant Hall Lobby
- 8:30–9:30 a.m. Poster Session One, Plant Hall, Fletcher Lounge and Grand Salon
- 9:45–10:30 a.m. Workshop Session One
- 10:45–11:45 a.m. Poster Session Two, Plant Hall, Fletcher Lounge and Grand Salon
- 11:45 a.m.–1 p.m. Lunch, Plant Hall, Music Room
Graduate Recruiter Fair, Plant Hall, Fletcher Lounge and Grand Salon
- 1–2 p.m. Poster Session Three, Plant Hall, Fletcher Lounge and Grand Salon
- 2:15–3 p.m. Workshop Session Two
- 3:15–4:15 p.m. Poster Session Four, Plant Hall, Fletcher Lounge and Grand Salon
- ALL DAY Recruiter Fair



WELCOME

ON BEHALF OF THE UNIVERSITY OF TAMPA, **WELCOME TO THE 6TH ANNUAL FLORIDA UNDERGRADUATE RESEARCH CONFERENCE!**

FURC 2016 will feature presentations of 374 research projects and involve more than 700 participants from across the state. Your personal contribution to this event is greatly appreciated.

Please make the most of the conference by attending poster sessions, professional development workshops, meeting with graduate recruiters, and networking with students and faculty from more than 30 colleges and universities.

We hope you enjoy your experience at FURC 2016!

Eric Freundt, Ph.D. and Eric Werner, Ph.D.
Conference Co-Organizers



KEYNOTESPEAKER



[DANIEL HUBER, P H . D .]

Daniel Huber is an associate professor of biology at The University of Tampa, where he specializes in the biomechanics of feeding and locomotion in cartilaginous fishes (sharks, skates, rays and chimaeras). His lab utilizes interdisciplinary approaches, including biomechanical modeling, force transduction and material science, to infer the mechanical influences involved in the function and evolution of cartilaginous fishes, as well as how biomechanics can be used to improve the state of animal husbandry for captive animals. Huber completed his bachelor's degree in biology at Duke University (2000) and his doctoral degree in biology at the University of South Florida (2006). He teaches a variety of introductory biology courses and ecological physiology, and has been involved in numerous media productions for the Discovery Channel, History Channel and National Geographic.



WORKSHOP ABSTRACTS

HOW TO WRITE AN EFFECTIVE PERSONAL STATEMENT

[Jon Gottesman, Ph.D.]

Director, Office of Biomedical Graduate Research, Education and Training
University of Minnesota

Writing the personal statement is often the most stressful part of a graduate school application. This breakout session will provide answers to questions that many applicants have. What are admissions committees looking for? How do I make myself stand out? Examples of statements will be provided to highlight common errors to avoid and good practices to employ. Considerable time will be reserved for questions from attendees.

LOCATION | Vaughn Center, Reeves Theater

RESEARCH JEOPARDY: HOW TO AVOID ENDANGERING YOUR ACADEMIC AND CAREER GOALS

[LouAnne Hawkins, Kelsey Eagen, Christopher Leone and Judith Ochrietor]

University of North Florida

How do you determine if a faculty-mentor might be a good fit for you? What can you do to facilitate a mutually advantageous relationship with a mentor? How do you handle a problematic relationship with a faculty-mentor? Learning to identify, establish, maintain and — when necessary — end a mentor-protégé relationship is invaluable as students navigate a path through academics to a career. Many of us haphazardly plunge into a mentored research experience without thoroughly investigating expectations and obligations. These hit-or-miss affiliations can be beneficial or can be extremely detrimental. Rather than leave this important connection to chance, join us for this Jeopardy style game as we consider ways in which we may enhance our chances of finding an exceptional mentor and examine the best ways to negotiate this complex relationship.

LOCATION | Plant Hall 325

DEMYSTIFYING GRADUATE AND PROFESSIONAL SCHOOL AND THE ACTIVE PROCESS OF APPLICATION

[Richard S. Pollenz, Ph.D.]

Professor and Associate Dean
University of South Florida

What is graduate or professional school, and why would you want to put in another two to six years when you only just completed the undergraduate degree? In this interactive workshop, we will break down the answers to these questions and provide action planning documents that allow you to determine if this option should be a priority for you now. Discussion topics include: how graduate school differs from professional school (M.D., PharmD, DVM); the different types of degrees available; what it costs and what the expected return on investment is; how to determine the up-and-coming fields; how to choose a school; how to best market yourself to potential faculty mentors; and the importance of taking an active approach to your admissions. Attendees will be provided an action planning document and will have an opportunity to engage with a speaker who has been a faculty member in higher education for more than 20 years at both a medical school and a major research university.

LOCATION | Lecture Hall A



WORKSHOP ABSTRACTS



SUMMER OFF-CAMPUS RESEARCH EXPERIENCES

[Kimberly Schneider, Ph.D.]

Director, Office of Undergraduate Research
University of Central Florida

Summer is a great time to participate in research and there are numerous programs available to students away from their home institution. Summer programs are available at hundreds (maybe thousands) of universities and research institutions. Opportunities are available nationally and internationally and many provide a stipend, travel costs, housing and/or board. Applications open in late fall and deadlines occur from early January through the end of March. Opportunities exist for all majors, but more are available for students in the science and engineering areas. Fall and spring semester opportunities also exist. This workshop will provide an overview of these opportunities, information on how to create a strong application and resources to help students through the process.

LOCATION | Plant Hall 215

STUDENT LEADERSHIP IN UNDERGRADUATE RESEARCH PROGRAMS

[Bailey Hofmann]

CURBS President
University of Florida

Being undergraduate researchers, we are always trying to find a way to stand out and gain more experience with research and leadership. The UF Center for Undergraduate Research (CUR) staff is small, and they wanted to involve undergraduate students in programming designed by and for undergraduates. For the undergraduate volunteer, this provides significant leadership opportunities. The UF Center for Undergraduate Research Board of Students is a three-year-old, self-perpetuating student group that boasts more than 2,600 members on its Facebook page, a number that has doubled each of the last two years due to their activities. Students will describe the services they provide to CUR and how being involved with CUR has impacted their undergraduate experience.

LOCATION | Plant Hall 213

MED SCHOOL — ADMISSION AND SURVIVAL

[Robert Larkin]

Registrar, M.D. Program
College of Medicine
University of Central Florida

This session will provide you the information that you need to become a successful applicant to medical school programs. We will discuss not only the requirements, but the “other” things that you should be doing to get the interview. A current medical student will also discuss medical school life and what adjustments you may need to consider during the intense medical school curriculum.

LOCATION | Lecture Hall B

WORKSHOP ABSTRACTS

STUDENTS AS UNDERGRADUATE RESEARCH AMBASSADORS: PERSPECTIVES FROM TWO UNIVERSITIES

[Ashley Ostroot and Brian Cooney]

Florida Atlantic University

[Arjun Patel, Thomas Carpino and Samantha Mensah]

University of Central Florida

At both the University of Central Florida (UCF) and Florida Atlantic University (FAU), a select group of students are chosen each year to become research ambassadors for their universities. Together, they work towards increasing involvement, inclusion and the quality of research at their respective institutions. In addition to improving their university's overall research and educational reputation, these ambassador groups also give the selected students the opportunity to develop leadership skills, acquire a more comprehensive understanding of the research environment, and make a positive impact on their peer community. Despite the growing success of these programs, research ambassador programs do not exist at many Florida collegiate establishments. Furthermore, many of the highly qualified prospective applicants are unaware that such an opportunity exists, or could potentially exist, within their academic environments. The overall goal of this workshop will be to discuss the critical role that undergraduates can play in fostering research involvement, inclusion and quality at their respective universities. In addition, student research ambassadors from both UCF and FAU will share their own experiences as research leaders and discuss their respective frameworks and activities that their ambassador groups have adopted to strengthen the research environment at their institution.

LOCATION | Plant Hall 313

MAKING THE TRANSITION: GETTING INVOLVED IN UNDERGRADUATE RESEARCH AS A TRANSFER STUDENT

[Daniel Hubbard, David Perez, Jasmine Richardson and Latika Young]

Florida State University

As a transfer student, it can be difficult to figure out how to get involved with undergraduate research at your new institution when you are still trying to get used to a new campus, new procedures and new professors. Yet, if you wait too long, you might miss out on crucial deadlines for a range of opportunities, like honors theses, research funding and national fellowships. In this workshop, we will discuss the unique benefits and challenges of engaging with research as a transfer student; most importantly, you will hear the perspectives of three recent transfer students at Florida State University who transferred from institutions around the state. This workshop will be useful regardless of the institution to which you plan to transfer, and you will leave with specific tips to help facilitate your own successful transition to a four-year institution.

LOCATION | Plant Hall 240



WORKSHOPABSTRACTS

AVOIDING THE DARK SIDE: CASES IN RESEARCH ETHICS

[Rachel Messer and Jennifer Soberon]

Florida Atlantic University

Although research ethics are often discussed in black-and-white terms such as what is “right” and what is “wrong,” sometimes it is hard to judge the light side from the dark side. Join us for an interactive presentation where the force guides you along the perilous path over to the light side of research ethics. We will briefly discuss the historical background of unethical research and the need for ethical research guidelines. Then you can ask yourself, “What would I do?” as we examine cases of unethical research practices across a variety of disciplines, including modern cases of unethical research in areas such as social media. Other topics of discussion will include ethical research methods, authorship, and the use of human and animal subjects.

LOCATION | Plant Hall 210

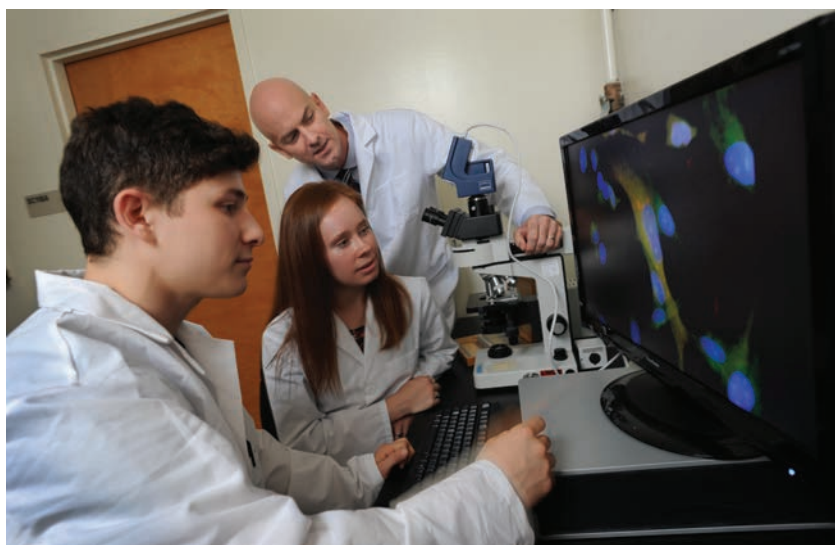
PREPARING YOUR APPLICATION FOR RESEARCH-BASED PRESTIGIOUS AWARDS AND FELLOWSHIPS

[Catherine Wrobel and Michelle Howell]

Embry-Riddle Aeronautical University

The Goldwater Scholarship and National Science Foundation Graduate Research Fellowship Program are two examples of prestigious awards that can bring winners national acclaim as well as monetary rewards for graduate training. These awards are very competitive and awarded to students who are pursuing careers in STEM research. Although they are exclusive, the process of applying for these awards can be enlightening and lead to future opportunities. In this workshop, students will spend some time brainstorming ideas for their personal statements and learning tips for preparing their applications.

LOCATION | Plant Hall 220



POSTERTITLES

SESSION ONE

1. *Juxtacellular Silver Labelling of Neuronal Recording Sites in the Spinal Respiratory Network.* A. Caballero, K. A. Schwanebeck, A. Sexton, S. Patel, A. De Guzman, K. Samuel, V. Zhu, H. B. Denson, K. Streeter and D. M. Baekey, University of Florida

2. *The Effects of Metacognitive Prompting on Music Learning.* Kelly Rosch, Valerie Sims, Ph.D., and Stephen M. Fiore, Ph.D., University of Central Florida

3. *Study on the Placement of Zinc in HeLa cells using SNAP-tag Technology.* Eden Gordon, Nick Accardo and Lei Zhu, Ph.D., Florida State University

4. *Singing Ebola: Music, Media and Cultural Messages in Liberia.* Michael P. Rivera, Florida State University

5. *A genetic suppressor screen identifies RNA-binding protein SSD1 as a regulator of proteasome subunit levels.* William C. Howe and Robert J. Tomko Jr., Florida State University

6. *Alcohol Dependency on a "Dry" College Campus.* Chelsea Basley and Hema Mason, Ph.D., Albany State University

7. *In vitro Analysis of the Efficacy of Probiotic Use During Antibiotic Application.* Taylor Culbertson and Chris Petrie, Eastern Florida State College

8. *Stroking Away Stress: The Effects of Stroking One's Pet on Perceived Stress as a Function of Attachment.* Anna Burns, Leah Boepple and Judith Bryant, Ph.D., University of South Florida

9. *Real-time effects of Prescribed Fire on Gopher Tortoise (*Gopherus polyphemus*) Burrows and Their Occupants.* Frank Robb and Chris Petrie, Eastern Florida State College

10. *The effects of being Hispanic on Health.* Luis Puesan and Scott Landes, University of North Florida

11. *ERP implementation is not the end: a case study about ERP implementation and upgrade.* Malayna Renberg, Konnor Wagner and Laura Ospina, Florida Gulf Coast University

12. *Pump It Up! Providing insulin pump treatment intervention for children with Type 1 Diabetes.* Kimberly Driscoll, Ph.D., Rebecca Lynch, Haley Stephens, John Wilcox, Sydney Elise, Kenzie Hendrix and Jenna De Francesco, Florida State University

13. *Tamoxifen's effects on the Acoustic Startle Reflex and Prepulse Inhibition of the Acoustic Startle Reflex for Aging CBA Ovariectomized Mice.* Carlos J. Cruz, McKenzie Lynn Watson, Xiaoxia Zhu, Tanika T. Williamson, Alaa W. Taha, Robert D. Frisina and Joseph P. Walton, University of South Florida

14. *Visual Exploration of Software Clusters.* Somalia Jamall and Sandeep Reddivari, University of North Florida

15. *Objectivity and Themes in Press Coverage of the Devyani Khobragade*

Incident. Matthew Hebron, Florida State University

16. *A Study on Aging: Depression and Anxiety in Elderly Populations.* Elizabeth A. Hull, Yasmine S. Humeda and Angelina Sutin, Ph.D., Florida State University

17. *Fulfilling Psychological Needs and Improving Life Satisfaction through Sport Consumption Activities: A Comparison with Non-Sport Activities.* Jeeyoon Kim, Casey Coholan, Adrianna Alonso and Daniel Prewett, Florida State University

18. *Onna-bugeisha: Female Samurai in Tokugawa Japan.* Erin Trumble, Florida State University

19. *Free to be Accountable: Extended Self as a Moderator of Cheating among those Primed with Determinism.* Vincent M. Iula, University of Central Florida

20. *How threat and objectification affect women's eating behavior and mathematics performance.* Rebecca Roberts, Sam Hawkins, Elizabeth R. Brown and Olivia Suddarth, University of North Florida

21. *Teaching Leadership — A Case Study on the Criticality of a Culturally Competent Approach in Educational Initiatives.* Inam Sakinah, Florida State University

22. *Locating High Affinity Binding Sites of the Carcinogen 4-Nitroquinoline-1-Oxide on PhiX174 DNA Using Restriction Enzyme Activity Assays.* Jessie Limonta and Stephen Winkle, Florida International University

23. *Springfield and Eastside Urban Forestry Plan Project.* Daniel Norez, Kelly Rhoden and Madison Masters, University of North Florida

24. *Constitutive Expression of Buckwheat Fagopyritol Synthase in Transgenic Glycine max: A Novel Strategy for Plant-based Drug Production for Type-II Diabetes.* Coedy Sears, Louis Mausser and Zachary Osking, Florida Gulf Coast University

25. *Garbage on the Green: an Annual Campus Waste Audit.* Caitlin Kengle, University of North Florida

26. *The Argippaeans: A Comparison between Kurgans in the Altai Region and Herodotus.* Rachel Wood, Nancy de Grummond, Ph.D., and M. Lynette Thompson, Florida State University

27. *Communication about HIV/AIDS on YouTube: Implications for College Health.* Brittani Powell, Delores C.S. James, Ph.D., and Cedric Harville, II, University of Florida

28. *Investigation of a new hypoxia model to induce cardiomyocyte proliferation in zebrafish.* Fabio Frech, Johan Sanchez, Kevin Williams and Brenda Schoffstall, Barry University

29. *Healthy Habits for Life: Does preschool nutrition knowledge predict eating behavior?* Ali Simons, Taylor Claxton and Jody S. Nicholson, University of North Florida

POSTERTITLES

30. *Does Early Diagnosis of Reading Disorder Impact College Success?* Byllingston Jean and Anthony F. Greene, Ph.D., University of Florida

31. *Application for Tissue Scaffolding and Biocompatible Membranes Research.* Katty Pierre-Charles and Sylvia W. Thomas, Ph.D., University of South Florida

32. *Revolutionary Cuba in the 1960s: Creating and Commemorating a New Man.* Jany Mendez, University of Florida

33. *Adaptive Therapy Treatment of Tamoxifen: Which Method Works Significantly Better?* Libia A. Garcia, Pedro M. Enriquez-Navas, Robert J. Gillies and Robert A. Gatenby, H. Lee Moffitt Cancer and Research Institute

34. *Antimicrobial activity of tropical spice extracts against *Issatchenkia orientalis* and *Escherichia coli* O157:H7.* E. B. Olasoji, I. M. Ogunade, D. H. Kim and A. T. Adesogan, University of Florida

35. *Aminobisphosphonate Polymers via RAFT-SCVP and a Multicomponent Kabachnik-Fields Reaction for the Treatment of Osteosarcoma.* Justin D. Hochberg, Patricia R. Bachler, Brent S. Sumerlin and Kenneth B. Wagener, University of Florida

36. *Finite Element Analysis of the Small Punch Test.* Alex Strebeck, University of Central Florida

37. *Redefining the extracellular markers of human regulatory T cells improves research methods and has important implications for T1DM cellular therapies.* Leeana D. Peters, Howard R. Seay, Wen-I Yeh and Todd M. Brusko, University of Florida

38. *Governance and Integrated Urban Infrastructure Solutions for Environmentally Sustainable, Healthy and Livable Cities.* Rick Feiock, Ph.D., Portia Dinoso, Jonathan Lubin, Minsun Song, Nohelia Orozco and Mary Meade, Florida State University

39. *A Survey of Benthic Cyanobacteria from the Middle Basin of the St. Johns River.* Danielle Tipley and Dale Casamatta, Ph.D., University of North Florida

40. *Examining the relationship between self-report and cognitive measures of executive function.* Nora Jean-Baptiste, Casey Hammer, Danielle Blinkoff, Rachel West, Geoffrey Potts and Cynthia Cimino, University of South Florida

41. *Evaluation of a Novel Test Platform for Fatigue Experiments in Combined Extreme Environments Analogous to Hypersonic Flight Conditions.* Michael Sedlack, Thomas Bouchenot, Abdi Jasmin, Michael Keasey, Nicholas Stoll and Ali P. Gordon, Ph.D., University of Central Florida

42. *The Silenced Voices: Women Diarists of Early America.* Jesse Long, The University of Tampa

43. *The Effect of Sexist Humor on Women's Victim Blame.* Samantha Shepard, University of Central Florida

44. *Special Euclidean Relativity.* Robert Bauer, University of Central Florida

45. *Subjective and Objective Education Measures as it Relates to Mini Mental Status Examination Performance.* R. T. Corona, A. L. Sardina, K.

L. Bartlett, R. Andel and A. A. Gamaldo, University of South Florida

46. *Status Update: An Examination into the Influence of Social Media Use During Learning and the Affect on Memory Recollection.* Valerie Kessler, Megan Bell, Shayne Gutzmore and Zachary Jennings, University of Central Florida

47. *Characterization of 3DP Polylactic Acid under Monotonic and Cyclic Torsional Conditions.* Jose E. Coteló, John Brown University; Harrison T. Bearden, John Brown University; Jonathan Torres, University of Central Florida; Kevin Smith, University of Central Florida; Bas van Deursen, Ultimaker, Geldermalsen, Netherlands; Ali P. Gordon, University of Central Florida

48. *Genetic characterization of populations of the African jewelfish (*Hemichromis letourneuxi*) introduced to the waterways of Florida.* Lorenzo A. Gayle, Youssra El Hanaoui, Mitchell D. Hartwig, Heather A. Muse, Brandon Saiz, Emily J. Williams, Pamela Schofield and Natalia M. Belfiore, The University of Tampa

49. *Calvinism, Natural Law and the Way Evangelicals Think Politically.* Austin Fitzgerald and John Kelsay, Ph.D., Florida State University

50. *Development of a Colorimetric Assay for Sex Determination in Ancient DNA.* Courtney Powell, Alexandra Smith and Dmitry Kolpashchikov, University of Central Florida

51. *Fluctuating asymmetry: A biomarker for environmental stress.* Jamie Hamilton, Florida A&M University; Yvis Nicholas, Nova Southeastern University; and Paulette S. Reneau, Ph.D., Florida A&M University

52. *Practical Investigation of open-sources software for Environmental Data.* Jonathan Cobb and Hongmei Chi, Florida A&M University

53. *The DEA's Expulsion From Bolivia: An Analysis of U.S. Counternarcotics Abroad.* Ashley Reynolds, Saint Leo University

54. *Post Stroke Activation of Angiotensin II Type 2 Receptors Shows Sustained Neuroprotective Effects in Aged Rats.* Jacob D. Isenberg, Douglas M. Bennion, Allison T. Harmel, Jonathan Alexander, Marcello Febo, Eduardo Candelario-Jalil and Colin Sumners, University of Florida

55. *The social media activism of SOA Watch.* Carly Gillingham and Ambar Martin, Florida State University

56. *Comparison of resveratrol derivatives for anti-cancer activity in estrogen receptor-positive versus estrogen receptor-negative breast cancer cells.* Evan Roberts, Ellen Vann and Lyndsay V. Rhodes, Florida Gulf Coast University

57. *Aversive Racism and Selection Decisions: 1989, 1999 and 2015.* Jason English, Alyssa Finner, James Kozachuk, Samantha Shepard and Jacob Walters, University of Central Florida

58. *Analysis of Cellulose Hydrolysis Kinetics.* Deanna Bousalis and John Telotte, Ph.D., Florida State University

59. *Polyvinylidene fluoride based gel electrolyte membranes for electrochemical capacitor applications.* Tasha Williams, University of South Florida

60. *Artistic/Architectural Applications of Tensegrity Structures*. Jennifer Egelfeld, Kenn von Roenn, Mari Kyle and Andrew Burk, Florida State University
61. *Vibrant expression through clothing: cracking the color, patterns and style code of the Rajasthani women of India*. Kimberly Connor, Florida State University
62. *Mechanisms of Neuronal Survival Under Conditions of Oxidative Stress*. Howard M. Retz and Howard M. Prentice, Ph.D., Florida Atlantic University
63. *The Effects of Trait Mindfulness on False Memory for Emotional Word Lists*. Lindsey Johnson and Travis W. Conratt, Ph.D., Florida Institute of Technology
64. *Basic DNA Barcoding for Exotic Plants*. Justin Santiago and Eunice Laurent, Valencia College
65. *Impact of Data Analysis Software on Traffic Congestion of Special Events in Southwest Florida*. Gabriel Perez and Claude Villiers, Ph.D., Florida Gulf Coast University
66. *Engineering of a Weather Balloon System*. Sergei Bilardi, William Griffin, Erik Parker and Kari Slotten, Embry-Riddle Aeronautical University
67. *Analysis of the Data Collected from a Weather Balloon System*. Kari Slotten, Sergei Bilardi and William Griffin, Embry-Riddle Aeronautical University
68. *Preventing Suicide on Campus: Training Resident Assistants as Gatekeepers*. Kirsten Christensen and Martin Swanbrow Becker, Ph.D., Florida State University
69. *The Ethics and Conflicts of Biomedical Research*. Stephanie Holz and Janis Prince, Saint Leo University
70. *CCW/Restrictions Abstract*. Ryan Tanski, The University of Tampa
71. *The Behavioral Role of Carbon Monoxide Neurotransmission in the Anterior Hypothalamus*. Christopher Robison, Ph.D., Kia Adams and Elaine Hull, Ph.D., Florida State University
72. *A Study on Proprioception and Touch Perception in Object Discrimination*. Francesca Riccio-Ackerman, Liliana Rincon Gonzalez, Ph.D., and Ranu Jung, Ph.D., Florida International University
73. *The Quality Effects of Text Messaging in Maternal and Infant Well-being*. Cynthia White-Williams, Ph.D., and Aliza Williams, University of North Florida
74. *Call me — or text me — on my Cell Phone: Texting in Class as Deviant Behavior*. Beverly Mejias and Janis Prince, Saint Leo University
75. *Differences in Tarsal Morphology between Arboreal and Nonarboreal Ants*. Andrew Nisip and Andrea Lucky, Ph.D., University of Florida
76. *Sex differences in Physiological and Self-Reported Responses to Stress*. Ezana Assefa, Jose Serrano, Jessica Garcia-Brown, Ph.D., Thomas J. Fagan, Ph.D. and Jaime L. Tartar, Ph.D., Nova Southeastern University
77. *Synthesizing ranking functions from query embeddings for image retrieval*. Michael Lopez-Brau, Fareeha Irfan and Boqing Gong, University of Central Florida
78. *Identification of Plant Species via Utilization of Polymerase Chain Reaction and DNA Barcoding*. Asima Khan, Valencia College
79. *Detection of *Lagenidium giganteum* in plant axil metagenomes*. Paula Leoro Garzon, Isabel Olivera, Andrew Gonedes, Gregory Edwards and Aurelien Tartar, Nova Southeastern University
80. *Investigating the potential role of TGF receptors in tumor angiogenesis and the development of cancer*. Patricia Varacallo, Saint Leo University; James Hawker, South Florida State College; and Iain Duffy, Saint Leo University
81. *China's Evolving Economic and Political Relationships with Russia and Japan*. Jana Nudelman, Florida International University
82. *Analysis of Growth Characteristics on Solid Media and Effects of Dissolved Oxygen in Liquid Media for Three Fungal Candidates*. Jonathon Niño Charari, Aldo Lobos and Valerie Harwood, University of South Florida
83. *Effect of Meditation on Creativity, Affect and the Brain*. Robert Gray, Christina Salnaitis, Rebecca Anderson, Ander Baranda, Jaclyn Dell, Alexis Dias, Jesse McDuffie, Annie Meier, Hannah Morris, Devin Plant, Lauren Prestwood, Jessi Smith and Emily Trip, University of South Florida-St. Petersburg
84. *The Validity and Feasibility of Using Recycled Concrete Aggregate (RCA) in Hot Mix Asphalt (HMA)*. Fritznel Saint Louis, Florida Gulf Coast University
85. *Plankton dynamics of a species-poor Bahamian saltwater lake: which prey do lined seahorses (*Hippocampus erectus*) prefer?* Katie-Lynn Roberts, Heather D. Masonjones, Ph.D., Rebecca Waggett, Ph.D., and Elizabeth Pendergrass, The University of Tampa
86. *Examination of Virulence Based on the Morphology of the California and Panama Strains of *Batrachochytrium dendrobatidis**. Shelby Wood and Taegan McMahon, Ph.D., The University of Tampa
87. *Genetic Differentiation Among Florida Populations of *Diadema antillarum**. Luke Chandler, Linda Walters, Ph.D., and Eric Hoffman, Ph.D., University of Central Florida
88. *Investigating Detailed Abundance Patterns in the Hyades Cluster*. Drake Williams, The University of Tampa
89. *Abundance Analysis of 10 Kepler Planetary Hosts*. Zachary Vaz, The University of Tampa
90. *Is there a Paternal Role in Fetal Alcohol Syndrome?* Mariana Ruiz, Peter Nwokoye and Stephanie Bingham, Ph.D., Barry University
91. *Effects of Ethanol and Thiamine on Embryonic *Rattus rattus* Brain Cells*. Pedro Sanchez, Barry University

POSTERTITLES

92. *Can Cuban Tree Frogs Avoid Deadly Chytrid Fungus*. Electra Scott and Taegan A. McMahon, Ph.D., The University of Tampa

93. *The Impact of the Deep Water Horizon Oil Spill on Porewater Nutrient Distributions*. Marissa Macri, The University of Tampa

SESSION TWO

1. *Project Panther LIFE*. Juan Carlos Espinosa and Jonathan Viera, Florida International University

2. *Synoptic-scale Precursors and Characteristics of High-end Tornado Outbreaks in the Southeastern Region of the United States*. Benjamin D. Dillahun, Embry-Riddle Aeronautical University

3. *To Hydrate or Chlorinate: A Regression Analysis of the Levels of Chlorine in the Public Water Supply*. Drew Doyle, University of Central Florida

4. *Photoreactivity of 2-Methoxy-4-(2-phthalimidinyl)phenylsulfonfyl Chloride*. Tracy-Lynn Cleary and Paul Sibbald, Ph.D., Stetson University

5. *Who gets tested? Exploring factors influencing getting an STI/HIV test in college students*. Tyler G. James and Sadie J. Ryan, Ph.D., University of Florida

6. *Monolingual v. Bilingual Neurological Developments*. Mariam Fawaz, John Van Hook and Tiffany Baglier, University of Florida

7. *Effectiveness of State Incentives for Adoption of Anaerobic digestion systems in the U.S*. Anh Sam and Xiang Bi, University of Florida

8. *Hebrew and Computer-Mediated Communication: The Effects of a Language Manipulation on Perception, Identity and Preservation*. Tamar Nir, University of Central Florida

9. *Biodiesel Production via Genetically Altered Lipase from *Proteus mirabilis* Transesterification in Methyl Acetate*. Alaina McDonnell, Jake Altier, Demetrius Carey and D. Scott Witherow, The University of Tampa

10. *Characterization of fosfomycin resistance mediated by *Enterococcus Fos B**. Christine Whitehead, Brett Linamen and Zanna Beharry, Florida Gulf Coast University

11. *Alignment free phylogenies of giant viruses*. Shane Dorden and Padmanabhan Mahadevan, The University of Tampa

12. *Methionine Sulfoxide Reductase Expression in Response to Anoxic Stress Conditions in *D. melanogaster**. Evgeniya Rakitina and David Binninger, Ph.D., Florida Atlantic University

13. *Antimicrobial Effects of Essential Oils on Infectious Bacteria*. Emily Ruple, Taylor Anderson, Vanessa Rowan, Ph.D., and Sanaz Dovell, Ph.D., Palm Beach Atlantic University

14. *Substance Use Progression and Initial Treatment Entry: Characterizing the Role of Race*. Christian C. Garcia, Ben Lewis, Lauren A. Hoffman and Sara Jo Nixon, University of Florida

15. *The Influence of Right and Left Frontotemporal Stimulation on Visuo-spatial Creativity*. Nicholas Milano, Annika Goldman, Adam Woods,

John Williamson, Leah Acosta, Damon Lamb, Han Zhang and Kenneth Heilman, University of Florida

16. *Assessing the Functional Capacity of Regulatory T-Cells Derived from Cryopreserved Umbilical Cord Blood for the Treatment of Type 1 Diabetes*. Ashley Bushdorf, Howard R. Seay, Kristi T. Balavage, Leeana Peters and Todd M. Brusko, University of Florida

17. *Invaders in the Night: Sleep Apnea and Sub-Clinical Renal Injury*. A. Rampersad, S. Bozorgmehri, A. Ishani, I. Weiner, S. RamachandraRao, R. Beyth and M. Canales; University of Florida, Minneapolis VAMC, University of Minnesota, Malcom-Randall VAMC and University of California-San Diego

18. *A Pilot Study Exploring Modifying Factors Related to Pregnant Women's Behavior and Perception of Electronic Smoking Products*. Irene Lopez Llorente, Megan Scipione and Mary Martinasek, Ph.D., The University of Tampa

19. *Response Differences in Modes of Data Collection: Telephone vs. Online*. Ryan Gondek, Monique Hall and Jimmy Mauk, Florida Atlantic University

20. *Hispanic Voters Opinions are being shaped by Social Media*. Ryan Clukey, Paul Donovan, Meetchelie Paul and Marina Giral Lores, Florida Atlantic University

21. *Extracellular Matrix Stiffness Modulates Connective Tissue Growth Factor and Yes-Associated Protein Expression*. Ashnee Patel, Liya Pi, Altin Gjymishka, Yiannia Protopapadakis, Marda Jorgensen and Bryon E. Petersen, University of Florida

22. *Soil Nematodes a Potential Long-Term Reservoir Host for Chytrid Fungus*. Nichole A. Laggan, Electra F. Scott, Sarah Cuccinello and Taegan A. McMahon, The University of Tampa

23. *Healthcare and Hispanics: The Disparity in Healthcare Coverage and Affordability Between Genders*. Monica Escaleras, Ph.D., Erik Rodriguez, Jonathan Sanchez and Shannon Lee Bowie, Florida Atlantic University

24. *Alice in Wonderland Syndrome in Patients with Frontal Lobe, Temporal Lobe Lesions or Shunting*. Joel C. Greenup, Florida International University; Roberto J. Diaz, University of Miami Hospital; Bennett L. Schwartz, Florida International University; Ricardo J. Komotar, University of Miami Hospital

25. *Investigations on the cost of resistance in a coevolving population of *E.coli* and T3 phage*. Sarah Sherman, Jeremie Brusini and Marta Wayne, University of Florida

26. *Identification and isolation of previously unreported oxylipin biosynthetic genes from fruit of *Vaccinium corymbosum* using an integrated sequence-data based methodology*. Lorenzo N. Bizzio, Joo Young Kim, Keun Cho, Jim W. Olmstead, David G. Clark and Thomas A. Colquhoun, University of Florida

27. *The Role of Mapping in the Formation of South America's Political*

Boundaries and Territorial Disputes. Justin Franco and Gretchen Scharnagl, Florida International University

28. *Investigation for the kinetics of electrochemically modulated separation of dysprosium and neodymium.* Ever Velasquez, Shannon Anderson, Mikael Nilsson and Egwu Kalu, Florida State University

29. *Windover: Examining Dental Attrition Patterns in a Florida Archaic Hunter-Gatherer Population.* Casey Johnson and Geoffrey P. Thomas, Ph.D., Florida State University

30. *Existentialism and Borderline Personality Disorder in "The Tunnel."* Joaquin Van Thienen and Robert Saba, Florida International University

31. *Spatial distribution and antibiotic sensitivity of Staphylococcus aureus in the Hillsborough River.* Rhianna Seferian, Ann Williams, Padmanabhan Mahadevan and Bridgette Froeschke, The University of Tampa

32. *Tripodal CMPO ligands as potential lanthanide extractants: A systematic study of ligand structure and selectivity in acidic aqueous media.* Michael G. Patterson, The University of Tampa; David A. Hardy, The University of Tampa; Shannon M. Biros, Grand Valley State University; Eric J. Werner, The University of Tampa

33. *Influence of Adherence to Clinical Practice Guidelines of Low Back Pain Treatment on Patient Outcomes.* Emiangeliz Gonzalez Luna and William J. Hanney, Ph.D., University of Central Florida

34. *Microbiology Bar Growth from Ten Hookah Pipes in the Community.* Zachery Rivera, Alexandra Ferrer, Mary Martinasek and Eric Freundt, The University of Tampa

35. *OPSCI Statistical Analysis: Female Increasing and Decreasing Percentages within Specific Engineering Disciplines.* Joanna Rivero, Geoff Potvin and Zahra Hazari, Florida International University

36. *How to Give Plants Cancer: A Study on Gall Formation.* Dillon Pierce, Brendan Murphy and Ashley Spring, Ph.D., Eastern Florida State College

37. *Effects of Freshwater Intrusion on Saltwater Species of the Indian River Lagoon.* Daniel Moffitt and Ashley Spring, Ph.D., Eastern Florida State College

38. *Comparing Volcanic Rocks in the Mount Rogers Formation.* David Gallagher, Mary Beck, S. W. Novak and D. W. Rankin, Valencia College

39. *The Culture of Sex Trafficking in India.* Krista Buda, University of Florida

40. *PCR detection of Wolbachia endosymbionts in mosquito and nematode species.* Athul Abraham, Daniel Icenhour, Marilyn Koletzke, Olivia Meitzner, Andrew Sorrentino, Vince Centonze, John Whitlock and Jennifer Bess, Hillsborough Community College

41. *Can Tarpon See Inside Their Natural Habitat?* Leah Coleman, Eastern Florida State College; Lorian Schweikert, Florida Institute of Technology; Ashley Spring, Ph.D., Eastern Florida State College

42. *Effects of garlic and ginger on bacterial growth.* Sarah Khairuddin, Ray Ward and Ashley Spring, Ph.D., Eastern Florida State College

43. *Mrs. Robinson Syndrome: The Impact of Sex Stereotypes and Socioeconomic Stereotypes on Attitudes toward Child Sexual Abuse.* Kelsey L. Eagen, LouAnne B. Hawkins and Christopher Leone, University of North Florida

44. *Photopositive Behavior in the Kleptoplastic Sacoglossans Elysia clarki and Elysia chlorotica.* Rachel Moline and Michael L. Middlebrooks, The University of Tampa

45. *The private versus public nature of infidelity: Self-monitoring and romantic jealousy.* Taylor Frances Drury, Christopher Leone and Tiffany Lucille Andolina, University of North Florida

46. *"Red and Blue Tinted Glasses": Political Perceptions of Ingroups, Outgroups and Ourselves.* Erik Clarke and Christopher Leone, University of North Florida

47. *Early Transition Metals as Inexpensive Substitutes for Ruthenium in Hydroxylated Polypyridine Complexes.* Carlos Alberto Acosta Jr., Alan Rodriguez Santiago and Raphael Raptis, Florida International University

48. *STEM Attitudes and Beliefs: Evidence from Elementary Classrooms.* Megan Keller, Tyler Keller and Kimberly McDowell, Florida Gulf Coast University

49. *Inconsistencies in Female Hair Color Preferences.* D. Delvescovo, A. Miller and J. Wortham, The University of Tampa

50. *Culture Change in Nursing Home: Addressing Regulatory.* Melissa Villalta and Marshall Kapp, Florida State University

51. *Cre recombinase has minimal effect on dendritic complexity of cultured hippocampal neurons.* Mariana Ruiz, Barry University; Laurel Kelnhofer, University of Wisconsin-Madison; Yu Gao, University of Wisconsin-Madison; Xinyu Zhao, University of Wisconsin-Madison

52. *Excluding the Problem: Bennett on Counterfactual Test and Backtracking.* Katelyn Hallman and Jonathan Matheson, Ph.D., University of North Florida

53. *Society's View of Bollywood and the "Perfect Woman": Is She Really Perfect?* Hawa Allarakhia, University of South Florida-St. Petersburg

54. *Bio-inspired Dinuclear Copper Oxygenation Catalysts: synthesis, characterization and reactivity studies.* Susana Herrera and Raphael Raptis, Florida International University

55. *The CSI Effect: Evaluating Forensic Crime Novel Readers.* Claire D. Scott-Bacon and Ryan Winter, Ph.D., Florida International University

56. *Functionalizing Diatoms with Titanium Dioxide for Solar Cell Applications.* Chris Dowdy, Dalton Reith, Samuel Trappen, Chris Coughlin, Ph.D., Melba Horton, Ph.D., and Sesha Srinivasan, Ph.D., Florida Polytechnic University

57. *A comparative survey of Gopherus polyphemus hemoparasites in four different South Florida habitats.* Brian Cooney, Dana Elhassani, Evelyn Frazier, Ph.D., and Joseph Caruso, Ph.D., Florida Atlantic University

58. *"The Pinball Wizard and the Miracle Cure": The Who, Meher Baba*

POSTERTITLES

and Drug Renunciation, 1969–1975. Holland Hall, University of Florida

59. *Neighborhood environment and community health promotion; the case of Spring Hill.* Tyler Bowling, Emily Carey, Gregory Fernandez, Jackie Pollack, Brittany Zwerver and Asal M. Johnson, Stetson University

60. *Not in Kansas Anymore: Effects from a Special Traveling Children's Museum Exhibit.* Kathleen Barakat, Alicia Carrillo, Diana Ropel, Stephen Blessing and Jeffrey Skowronek, The University of Tampa

61. *Talking It Out vs. Calling It Off: Self-Monitoring Differences in Conflict Resolution with Multiple Audiences.* Lori Sterling and Christopher Leone, University of North Florida

62. *How Facebook Use Affects Mood.* Greene, Kathleen Barakat, Caroline Carr, Amanda Lee, Philip Ash, Briana Mansour, Victoria Veronesi, Erin Koterba, Michael Stasio, Renee Patrick, Cynthia Gangi and Erica Yuen, The University of Tampa

63. *Incarceration Rates: A Comparison of Incarceration Rates of Small Towns versus Large Towns.* Daniela Scantlebury, The University of Tampa

64. *Prospect in Harnessing Brain-derived Neurotrophic Factor (BDNF) Extracted from Fetal Neural Tubes to Combat Neuro-Ophthalmologic Manifestations in Visual Motor Deficit (VMD).* Chidera O. Nwosu, University of Miami

65. *Development of niobium-based SPME fiber by sol-gel technology.* William Smith and Thomas Jackman, Ph.D., The University of Tampa

66. *Cooperativity and competition in the binding of 4-nitroquinoline-1-oxide and actinomycin D to phiX174 DNA.* Juan Medina and Stephen A. Winkle, Florida International University

67. *Is meditation good for the heart: A study of the effect of compassion meditation on heart rate variability among veterans with PTSD.* Michelle Aiello and Ariel J. Lang, Ph.D., M.P.H., University of Central Florida

68. *Coercive Field Enhancement in Microstructured Manganite Thin Films.* Hector Felipe Lacera Otalora, University of Florida

69. *Species verification of Magnolia virginiana through DNA barcoding of rbcL gene.* Katie A. Burket, Valencia College

70. *Characterization of a Novel Mutant Involved in Centrosome Assembly.* Briana Whitehead, Chunfeng Zheng and Timothy Megraw, Florida State University

71. *Rugs and Silver, Artists and Craftsmen: The Development of Artistic Autonomy in Southwestern Native American Art.* Victoria Anne Sunnergren and Karen Bearor, Ph.D., Florida State University

72. *Design, Construction and Optimization of a Low-Cost Portable Enterococci Test (PET) Kit.* Margaret K. Parrish, Suzanne Young and Valerie J. Harwood, University of South Florida

73. *Uncovering cardiovascular biomarkers of School Burnout.* Joseph T. Leonard, Ross W. May, Greg S. Seibert, Marcos A. Sanchez-Gonzalez and Frank D. Fincham, Florida State University

74. *Interannual Precipitation Variability surrounding the Alberto Manuel Brenes Biological Reserve, Costa Rica.* Taylor M. Gibbs, University of Florida

75. *DNA Barcoding of Valencia East Campus Greenhouse Plant Samples for Strophanthus Identification.* Iman Squires, Valencia College

76. *Engineering Efficiency and Sustainability in the Food, Energy and Water Nexus.* Catherine Ninah and Debra Reinhart, Ph.D., University of Central Florida

77. *Authoritarianism and collectivism: Antecedents and consequences.* Jasmine Samuel and Doan Modianos, University of Central Florida

78. *Preliminary findings: A systematic review of the effects of information and communication technology interventions on dementia family caregiver health.* Karis Lee, Renessa Williams, Elizabeth Fehlberg, Aditi Patel, Michelle Santoni-Miranda, Robert J. Lucero, Ph.D., University of Florida

79. *The Sound of Colonialism: Music and Its Impact on Cuba and Its People.* Mauricio Cabrera, University of South Florida-St. Petersburg

80. *Assessing Genetic Diversity within Natural Populations of Smooth Cord Grass to Ensure Effective Restoration Efforts.* Michelle Gaynor, Linda Walters, Ph.D., and Eric Hoffman, Ph.D., University of Central Florida

81. *Neighborhood jurisdictional boundaries and community health, the case of Spring Hill.* Justin Baggs, Jada Scott, Carolina Perez-Tobon and Asal Johnson, Ph.D., M.P.H., Stetson University

82. *Identifying genotypes of Acropora cervicornis that are resilient to white band disease.* Alana L. Boyles and Erinn M. Muller, The University of Tampa

83. *Never walk alone: How safety tips influence beliefs about rape and feelings of safety.* Jessica Potter, Elizabeth R. Brown and Curtis Phillips, University of North Florida

84. *Joint Graphical Lasso and Deep Learning Methods for Dynamic Brain Connectome Prediction.* Joey Velez-Ginorio and Guo-Jun Qi, Ph.D., University of Central Florida

85. *Effect of size on Drosophila m. visual acuity.* Jamie Theobald and Zoila Brummer, Florida International University

86. *Discovery of Aminoacyl-tRNA Synthetase Inhibitors as Anti-Cancer Agents.* Larry Nguyen, Xiao Liang, Ravil N. Kaybullin and Xin Qi, University of Florida

87. *Effect of Diet on Growth in Podocnemis Unifilis: Assessing Optimal Diets for Turtles in Conservation Oriented Head Start Programs.* Katie L. Robinson and Mason B. Meers, The University of Tampa

88. *Ontogenetic Patterns Displayed in the Dental Morphology in Belonesox belizanus.* Hannah Saucier and Mark McRae, The University of Tampa

89. *Hydrothermal Synthesis of Lanthanide Series Plumbites.* Alexandra T. Barth, Kristen A. Pace, Jared T. Stritzinger, Mark Silver and Thomas E. Albrecht-Schmitt, Florida State University

90. *Crossing the Border: The Consequences of the Immigration System*

on an Undocumented Family. Sandra Chavez and Leslie Anderson, University of Florida

91. *Elucidating the Role of P53 in Limiting Metastasis in Drosophila melanogaster*. Adrian Acuna, Brian Brenner and Lei Zhou, University of Florida

92. *Females of a moth with two-celled ears discriminates acoustic stimuli with different temporal patterns*. Jessica Hernandez, Francisco Coro, Ph.D., and Jorge Riera Diaz, Ph.D., Florida International University

93. *Effects of second hand smoke on plant height, biomass and morphology*. Kirstin Cutshaw and Ramona Smith-Burrell, Ph.D., Eastern Florida State College

SESSION THREE

1. *Nurse2Nurse International Education Exchange: A Cambodian Exemplar*. Khang Vo, Brittany Reeser, Rebeca Siguenza and Karen Simon Reed, University of Florida

2. *Genetic Differentiation Among Florida Populations of Diadema antillarum*. Luke Chandler, Linda Walters, Ph.D., and Eric Hoffman, Ph.D., University of Central Florida

3. *Left Brain vs. Right Brain: An Analysis of Functionality in Cervantes' Don Quixote*. Michael Scimeca and Martha García, Ph.D., University of Central Florida

4. *Urine, The Future of Agriculture?* Madelyn Pandorf and Treavor Boyer, University of Florida

5. *Laminar profile underlying the propagation of CSD: from single neurons to population activity*. Darlene Ramos, Sarahy Garcia, Yisel Frometa, Javier How and Jorge Riera, Florida International University

6. *The Role of Red Blood Cell Derived Microparticles in Sickle Cell Disease (SS) Murine Models*. Gabrielle Clark, University of Central Florida; Caitlin Powell Sok, Georgia Institute of Technology; and Edward Botchwey, Ph.D., Georgia Institute of Technology

7. *Prediction of Preeclampsia with the use of the Electrocardiogram and Photoplethysmography*. Ana I. Calderon, Savva, Tammy Y. Euliano, M.D., University of Florida

8. *Monitoring Privacy in Mobile Health Apps*. Jeremy Cason and Hongmei Chi, Florida A&M University

9. *Flash Atomization of Biofuels and a Comparison of Droplet Size Distributions Produced by Various Commercial Spray Generating Devices*. David Perez, Florida State University; Kristina Fong, University of Alabama at Birmingham; Mebougna Drabo, Ph.D., Alabama A&M University; Thomas Butcher, Ph.D., Brookhaven National Laboratory

10. *Discovery of Novel Carbocyclic Analogs of Nucleosides for Cancer Therapy*. Tracoya Roach, Larry Nguyen, Katherine Cisneros, Ravil N. Khaybullin and Xin Qi, Florida A&M University

11. *Sensationalism of North Korea in International News Articles*. Mae Espinosa, Allison Lang and Tatum Shannon, Florida State University

12. *Competitive and non-competitive reality TV shows — An analysis of cognitive stimulation, interactivity and audience engagement*. Ana Oliveira-Beuses, University of Florida

13. *Family and Peer Influence on the Frequency of Swearing*. Emily Simpson, Joshua Duarte and Brianna Bishop, University of Central Florida

14. *Intersection between CEOs' Influences and PAC Contributions*. Esther O. Oyetoro, Florida State University

15. *Social Movements and Their Impact on Modern-Day Democracies: A Comparative Case Study in Latin America*. Shauna N Gillooly, Florida State University

16. *Individual Differences in Working Memory Capacity and the Role They Play in Performance on a Feedback v. No Feedback Vigilance Task*. Jenny A. Walker, Ben D. Sawyer, Gabriella M. Hancock, Waldemar Karwowski, Valerie K. Sims and Peter A. Hancock, University of Central Florida

17. *Fluctuating asymmetry and molecular quality in house crickets, Acheta domesticus*. Leanne Jalique, Alicia Carabarin, Mernyka Webster, Chelsea Bain, Jean Sylvain, Roudy Charles, Anton Stremousov, Kirill Stremousov, Lusanda Nogxina, Foumi Oni, Darrell Henry, Ariana Connor, Angel Tapia, Michelle Valdes, Autumn Leone and Michael Robinson, Barry University

18. *Abundance and Methicillin resistance of Staphylococcus aureus in the water and oysters of the Hillsborough River during the spring*. Kelly Fryar, Michael L. Middlebrooks and Bridgette Froeschke, The University of Tampa

19. *Tolerance of and Recovery From Desiccation in Intertidal Pneumatophore Epiphytes in Mangrove Basin Forests*. Elaine M. Kurr, Jayde A. Zimmerman and Kevin S. Beach, The University of Tampa

20. *Identification of six "mystery" substances using three distinct analytical techniques in a forensic science laboratory*. Leora Hilbert, Jenna Cote and Sulekha Coticone, Florida Gulf Coast University

21. *Sensing of biologically relevant anions with a luminescent europium(III) complex*. Kayla H. Felix, Katherine Johnson and Eric J. Werner, The University of Tampa

22. *Intersensory Processing Efficiency and Language in Infancy*. Jenelly M. Sotomayor, Kasey C. Soska and Lorraine E. Bahrick, Florida International University

23. *Genes4Vaccines: A computational model that utilizes comparative genetics to identify DNA and protein sequences for novel vaccines*. Courtney Astore, Rebecca Elsishans, David Durkee, Jason Guo, Jayk Barker, Christopher Hodge, Nicholas Kosan, Traci LaMoia and Yan Ortiz, University of Florida

24. *Chromatin Remodeling Complex Proteins Act as Age-Dependent Regulators of the Heat Shock Response in C. elegans*. Mark Noble, Andrew Deonaraine, Lori-Ann Bowie and Sandy D. Westerheide, University of South Florida

25. *Anti-Predator Defenses of the Sacoglossan Sea Slug Elysia clarki*.

POSTERTITLES

Kristen A. Ewen and Michael L. Middlebrooks, The University of Tampa

26. *The effects of education on self-esteem and body image.* Marvin Hoo, Simone Camacho, Michelle Aiello, Aaron Necaise, Alesia Albury and Mustapha Mouloua, Ph.D., University of Central Florida

27. *Indian, Pakistani and Native Kashmiri Perspectives on the Kashmir Conflict.* Shreya Labh and Houman Sadri, University of Florida

28. *Examining the binding of 4-nitroquinoline-1-oxide to phiX174 DNA using Mung Bean nuclease and Topoisomerase I assays.* Elizabeth Tinoco and Stephen Winkle, Florida International University

29. *Occupy Tallahassee: An Analysis of Social Interactions Observed in a Localized Occupy Wall Street Movement.* Katelyn Schulze, Jesse Klein, Ph.D. and Daniel Lanford, Florida State University

30. *Determination of pKa and Reaction Kinetics for Fluorescent Rhodamine B Spirolactam.* Nia Harmon and Joe Accardo, Florida State University

31. *Who's making the decision? Effects of Pretrial Publicity on Jury Deliberations.* Haley Roberts, University of South Florida

32. *Identification of the Fungal Symbiont in the Pine Specific Bark Beetle, Xyleborus pubescens.* Morgan Hull and Jiri Hulcr, University of Florida

33. *Problems of Automating a 3D Printer for Public Vending.* Matthew Caixero, Scott Kent, Alexander Seifans and Garveen Sindhu, Embry-Riddle Aeronautical University

34. *Emphasizing Individual Responsibility within an Undergraduate Project Structure.* P. Augustus Galarnyk and Roxanna L. Stein, Embry-Riddle Aeronautical University

35. *Genotype to Phenotype: Immunophenotyping Studies in T1D.* Roshini Pudhucode, Howard R. Seay, M.S., Kieran M. McGrail, Daniel J. Perry, Ph.D., Mark A. Atkinson, Ph.D., Clive Wasserfall, M.S., and Todd M. Brusko, Ph.D., University of Florida

36. *City of Light: History on Stage.* Danielle Wirsansky, Florida State University

37. *Protein Disulfide Isomerase Prevents and Reverses the Fibrillization of Immunoglobulin Light Chain 6aJL2.* Diego Castillo, Lucia Cilenti and Ken Teter, University of Central Florida

38. *Observations and Simulations of Electromagnetic Waves in the Van Allen Radiation Belts.* Miles Bengtson, Morgan Matheny, Sara Rosborough and Anatoly Streltsov, Embry-Riddle Aeronautical University

39. *The relationship between sexual imagery in media and sexual cognitions.* Jennifer L. McDonnell and Chrysalis L. Wright, Ph.D., University of Central Florida

40. *The Analysis of the Market for Mass-Produced Virtual Reality Technology.* Mari Kyle, Florida State University

41. *Computational Assessment of Information Behavioral Interaction Against Organizational Insider Threat.* Jeremy Hickson and Hongmei Chi, Florida A&M University

42. *Morphological Descriptions of the Lips of Canine Ascarids (Nema-*

toda: Ascarididae) Using Scanning Electron Microscopy. Alexis Vedder, Wayne Price and Stanley Rice, The University of Tampa

43. *Model of Acceptance and Use of Mobile Applications.* Daniel Ko, University of Tampa

44. *Autonomous Satellite Recovery Vehicle (Rocket-Deployed Quad-rotor).* Francisco Pastrana, Devonte J. Grantham and Shane Williams, Embry-Riddle Aeronautical University

45. *Joule-Class Free-Space Divided Pulse Amplified Picosecond Laser.* Ahmad Azim, Benjamin Webb, Nathan Bodnar, Michael Chini, Lawrence Shah and Martin Richardson, University of Central Florida

46. *I 'Dune' Want to Grow Up: Analyzing Frank Herbert's Dune in Response the Death of Adulthood in American Culture.* Abraham "Eli" Mullican, Eastern Florida State College

47. *Time Resolved Analysis of Chromatin Structure in Response to Cocaine: a Genome Wide Sequencing Project.* Cole Friedes, Lauren Cole and Jonathan Dennis, Florida State University

48. *Development of a Fine-Scale Laser-Based Water Level Sensor.* Joshua Benjamin and David Kaplan, University of Florida

49. *A stimulating approach to therapies for spinal cord injury patients (literally).* K.A. Schwanebeck, A. Caballero, A. De Guzman, K. Samuel, A. Sexton, V. Zhu, H.B. Denson and D.M. Baekey, University of Florida

50. *Generation of a Novel PheS Counterselection Marker for Mycobacterial Gene Inactivation.* Ashelyn Sidders, Carolina Felix, Sandra Geden and Kyle H. Rohde, Ph.D., University of Central Florida

51. *Analyses in Support of the WFIRST Supernova Survey.* Miles Currie, Florida State University; David Rubin, STScI; Greg Scott Aldering, Lawrence Berkeley National Laboratory; Charles Baltay, Yale University; Parker Fagrellius, LBNL/UC Berkeley, David R. Law, STScI; Saul Perlmutter, LBNL/UC Berkeley; Klaus Pontoppidan, STScI

52. *Folkloric Structures in a Byzantine Epic.* Ravital Goldgof and Lily Shelton, Florida State University

53. *Self-Monitoring and Anorexia: Putting a Face on a Potentially Fatal Disorder.* Sarah Cozza and Christopher Leone, University of North Florida

54. *Integration and Implementation of the Quine-Mccluskey simplification algorithm in an interactive smartphone game.* Oleksii Levkovskiy and Kevin Lopez, Florida Atlantic University

55. *Stranger v. Non-Stranger Sexual Assaults in Indian Country.* Nickolus Knowles and Marshall Jones, Florida Institute of Technology

56. *The Effects and Regulation of the Synthetic Peptide Multi-11 on Root Growth in Arabidopsis thaliana.* Kiona Elliott, Kevin Folta, Ph.D., and Zhilong Bao, Ph.D., University of Florida

57. *Live Imaging of the Genome Regulatory Factor BSF53a Gives Insight to Control of Genome Response.* Ashley L. Ward and Jonathan H. Dennis, Florida State University

58. *The Microwave Plasma Torch*. Ashley Windom, Michelle Miranda and Kenyon Evans-Nguyen, The University of Tampa
59. *Is the Doctor in? The Effects of Emigration on the Health Care Systems in Poland and Romania*. Gabriela Wolk and Anca Turcu, Ph.D., University of Central Florida
60. *Army Suicide: Number of Deployments and the Core Constructs of the Interpersonal Theory of Suicide*. Daniel P. Hubbard, Florida State University
61. *Regulation of Transcription Factor Yin Yang 1 (YY1) at Serine Residue 247*. Reema Tawfiq, Erin Apple, Myra Hurt, Ph.D., and Raed Rizkallah, Ph.D., Florida State University
62. *The Social Nature of Cosmetic Surgery*. Dillon Jepsen and Harry Barbee, Florida State University
63. *Mental Rotation with Martial Arts Experts*. Michael E. Torres and Valerie K. Sims, Ph.D., University of Central Florida
64. *Interface Nanoengineering to Improve Bond Strength to Low Surface Energy Materials*. Amelia Stark and Kyle Gobble, University of North Florida
65. *Ernest Hemingway's Religious Influences in the Writing of A Farewell to Arms*. Kimberlee McMillin, Florida State University
66. *The Effects of Recycled Crushed Aggregates on Portland Cement Concrete Mixes*. Jose Castano, Valentina Cherednichenko, Cassandra Hitt, Daniel Tacher and Claude Villiers, Ph.D., Florida Gulf Coast University
67. *Insularized Ringneck Snake Evolution*. Thomas Carpino and Eric Hoffman, Ph.D., University of Central Florida
68. *Effect of cannibalism in frogs on their gut microbiome and parasite susceptibility*. Lauren A. Shea, Sarah A. Knutie, Marinna Kupselaitis, Christina L. Wilkinson and Jason R. Rohr, University of South Florida
69. *Revisiting Trumbo's Four Principles for Bivariate Map Color Selection*. Georgianna Strode, Benjamin Thornton, Victor Mesev, Derek Morgan, Nathan Johnson, Evan Rau and Xiaojun Yang, Florida State University
70. *Characterization of Basigin, TLR4 and MCT1 gene-product expression in murine myocardium*. Grace E. Morse and Judith D. Ochrietor, Ph.D., University of North Florida
71. *Ceramic and 3D Printing*. Ediel Dominguez and Anna Calluori Holcombe, University of Florida
72. *Comparison of Quantity and Overall Quality of Trace DNA Evidence Collected from Substrates Found at Crime Scenes*. Chad Hogan and Sulekha Coticone, Ph.D., Florida Gulf Coast University
73. *Study on The Molecular Taxonomy of Plants Species Using DNA Barcoding*. Kevin Sanchez Jimenez and Eunice Laurent, Valencia College-West Campus
74. *Understanding adaptations to a water-scarce environment in the epiphytic species Tillandsia recurvata*. Jaimie Kittle, Arnold Morales, Montana Knight and Takashi Ueda, Florida Gulf Coast University
75. *A comparison between age, growth and maturity of the United States' Graysby grouper (Cephalopholis cruentata) and Coney grouper (Cephalopholis fulva)*. K.M. Lo, University of South Florida; W. Bubley, SCDNR; T.I. Smart, SCDNR; M.J.M Reichert, SCDNR
76. *The Cytotoxic Effects of Daidzin on H-460 Lung Cancer Cells*. Ricardo J. Vallejo and Roslyn N. Crowder, Stetson University
77. *Effects of Fetal Bovine Serum in Growth Media on Puerarin-induced Jurkat Leukemia Apoptosis*. Kenneth John Massa and Roslyn N. Crowder, Ph.D., Stetson University
78. *The importance of Financing and Marketing for a Non-Profit Organization in a Competitive Market*. John Permenter, Kimberly Reid and Latika Young, Florida State University
79. *Can Independent Redistricting Commissions Lead Us Out of the Political Thicket?* Barry Edwards, University of Central Florida; Angel Sanchez, University of Central Florida; Tyler Yeargain, University of Central Florida; Michael Crespin, University of Oklahoma; Jessica Hayden, University of Oklahoma
80. *Building a Trustworthy Robot — Robot Colors and Perceived Trust*. Peter Hancock, Nicolette Leibowitz, Kimberly Stowers, Jacob Stawicki and Anjelica Doriety, University of Central Florida
81. *Diverse Leader Identity*. Jasmine Richardson, Kathy Guthrie, Ph.D., and Vivechkanand Chunoo, Florida State University
82. *Are we what we eat? A statistical study of the effect of nutrition in early childhood on societal economic development*. Andrea Jo and Alfonso Rodriguez, Ph.D., Florida International University
83. *Photovoice Methodology: Examining Serious Relationships in which One Partner has a Mental Illness*. Amanda Rio, University of South Florida
84. *Identifying and Evaluating Degenerative Joint Disease in the Lumbar Vertebrae of the Archaic Windover Population*. Alyssa Frey and Geoffrey Thomas, Ph.D., Florida State University
85. *Fortune Telling and the Excludability of Religious Freedom*. Charles McCrary and Nicole MacMillan, Florida State University
86. *The Physiological and Behavioral Effects of Sleep deprivation: An Integrated Analysis*. Christopher Sarmiento, Lauren D. Hill, Maggie Lorenzetti, Ana I. Fins, Travis J. A. Craddock and Jaime L. Tartar, Miami Dade College
87. *Analysis of the expression of the Basigin subset of the immunoglobulin superfamily in mouse brain*. Tavia N. Hall and Judith D. Ochrietor, University of North Florida
88. *Baseline Study for the Identification of Intestinal Parasites in Gopher Tortoises Found in Blazing Star Preserve and Pine Jog Preserve*. K. S. Haizlett, J. Huffman, E. Frazier, Ph.D., and J. Caruso, Ph.D., Florida Atlantic University
89. *Effects of various journal writing prompts on subjective ratings of stress*. James Oskam, Kate Barber, Alison Long, Maggie Harding and Shannon Whitten, Ph.D., University of Central Florida

POSTERTITLES

90. *Executive Functioning and Response to Intervention: Project KIDS.* Mia C. Daucourt and Sara A. Hart, Florida State University

91. *Preserving and Promoting University History: Exploring Emerging Heritage Programs.* Kelly Scandone, Florida State University

92. *Regulatory Focus, Perceptions of Value Similarity and Romantic Relationship Quality.* Alec Gallion and Paul Fuglestad, Ph.D., University of North Florida

93. *Comparative Computational Analysis Of Phylloplanin Proteins Present in Different Plant Species.* Joanna Burr and Padmanabhan Mahadevan, The University of Tampa

94. *Examining Convergent and Discriminant Validity of a Novel Set of Executive Functions.* Rachel West, Danielle Hergert, Geoffrey Potts and Cynthia Cimino, University of South Florida

SESSION 4

1. *Variability of Familial ALS pathogenesis: Does SOD1 protein conformation play a role?* Adriana Sari, Jacob Ayers and David Borchelt, University of Florida

2. *Gender Differences in Alcohol Abuse, Dependence and Poisoning Resulting in Emergency Visits, Hospitalizations and Death in Volusia County.* Dominique Drager, Rachel Lee and Laura Gunn, Ph.D., Stetson University

3. *Molecular Modeling of PrPc and PrPsc and Their Theoretical Functions.* Elizabeth Nicole Panek and Audrey Shor, Saint Leo University

4. *Developing learning paradigms in Aplysia californica to help understand circadian rhythm.* Valentina N. Saracino, Eric Noakes, Harini Krishnan and Lisa Lyons, Ph.D., Florida State University

5. *Lesions and language: the cerebellum's role in language recovery following perinatal stroke.* Jairo Munoz, Carolina Vias, Sophia Tchir, Jefferson Salan, German Lopez, Ania Suros, Matteo Grudny and Anthony Steven Dick, Florida International University

6. *Equivalent circuit model and capacitance-voltage spectroscopy of matrix-assisted pulsed laser evaporated conjugated polymer thin-film solar cells.* Océane Boulais, Florida Atlantic University; Adrienne Stiff-Roberts, Duke University; Wang-Yao Ge, Duke University

7. *Immune Responses of Human Males and Females in Association with Autoimmune Disorders.* Tung Q. Doan, University of Florida

8. *Using a Standard Field Programmable Gate Array as a Time to Digital Converter.* Lyle Josey, Chase Kuehner and Chiu Choi, Ph.D., University of North Florida

9. *Using a Visual Programming Language to Interact with Visualizations of Electroencephalogram Signals.* Chris S. Crawford, Marvin Andujar, France Jackson, Ivens Applyrs and Juan E. Gilbert, University of Florida

10. *Effect of temperature on head regeneration of Hydra littoralis.* Joseph Goode and Ramona D. Smith-Burrell, Eastern Florida State College

11. *Breast Cancer Survivors' Adherence to Physical Activity Recommendations.* Cecelia V. Ferguson, Sarah L. Eisel and Stacey B. Scott, University of South Florida

12. *Sacrificing one to save the many: compassionate or cold-blooded?* Jacob Goldstein-Greenwood, Florida State University

13. *Coupling electrophysiology with anatomy: visualization of stimulated and recorded spinal neurons with silver juxtacellular labeling.* A. Sexton, A. Caballero, K. Schwanebeck, K. Samuel, V. Zhu, A. De Guzman, L. E. Denholtz, S. Posgai, S. Patel, K. A. Streeter, H. Denson and D. Baekey, University of Florida

14. *Investigating Working Memory and Health Outcomes in Preschool Children.* Patricia Murphy-Powell, Jody S. Nicholson and Tracy P. Allo-way, University of North Florida

15. *Mere Thought and the Theory of Planned Behavior: When Thinking Means Doing.* Robert Gargrave, Christopher Leone and Katie McCann, University of North Florida

16. *In Silico phrenic nerve modeling as a tool to improve quantification of respiratory signal integration.* A. De Guzman, A. Caballero, K. Samuel, K. A. Schwanebeck, A. Sexton, V. Zhu, H. B. Denson and D. M. Baekey, University of Florida

17. *Engineering Clonal Human Cell Lines Stably Expressing a Single p73 Isoform.* Irena Gushterova, The University of Tampa; Ricardo A. Cordova, The University of Tampa; Jong Y. Park, Moffitt Cancer Center; L. Michael Carastro, The University of Tampa

18. *Water and the Maya.* Josie Bready, The University of Tampa

19. *Polyphenon E Treatment Affects p73 mRNA Levels.* Ricardo A. Cordova, The University of Tampa; L. Michael Carastro, The University of Tampa; Christopher D. Cole, The University of Tampa; Jong Y. Park, Moffitt Cancer Center

20. *The effects of acute aerobic exercise on neurophysiological, biochemical and self-report measures of emotion processing.* Sebastian Salzmänn, Christopher Sarmiento, Jose Antonio, Ph.D., and Jaime Tartar, Ph.D., Nova Southeastern University

21. *Analysis of the regulatory sequences of a cauliflower gene by protoplast transformation and GUS histochemical and fluorescence assays.* Ryan Koscielniak, Jason Hoop, Melissa Sanchez and Marilyn Cruz-Alvarez, Ph.D., Florida Gulf Coast University

22. *Mobile Apps Making Strides in Language Education.* Grace Montgomery, Florida State University

23. *Evaluating the Leach rate of Chromated Copper Arsenate from CCA Treated Lumber in Water.* Lynta Thomas, Ph.D., and Franklin Thornburgh, Eastern Florida State College

24. *Reactions of Iron Molecules with Ozone: Determining Reaction Mechanisms.* Trí Lê, Gregory Miller and Joshua J. Melko, University of North Florida

25. *Heigh-Ho to Let It Go: The Evolution of Gender Performance in Disney Princess Films*. Ricci Allen, Breanna Dennes, Hayley Kessler and Samantha Gomes-Compton, Ph.D., University of South Florida
26. *Genetic structure of a hybrid zone between the killifish *Fundulus heteroclitus* and *F. grandis* in Northeast Florida*. Natalia Gutierrez and Matthew R. Gilg, University of North Florida
27. *Thoracic Intraspinal Microstimulation (ISMS) Evokes Frequency Dependent Activation of Respiratory Efferents*. K. A. Samuel, K. A. Schwanebeck, A. Caballero, A. De Guzman, A. Sexton, V. Zhu, H. B. Denson and D. M. Baekey, University of Florida
28. *You've Got Mail: First Steps in Brief Online Email Training Design and Evaluation*. Jake R. Mathwich, Keaton A. Fletcher and Wendy L. Bedwell, Ph.D., University of South Florida
29. *Relationship between Leadership Effectiveness, Personality and Video Game Experience in a Military Simulation*. Jacob Werchan, Christopher Fahey, Katlin Anglin, Jason Kring and Joseph Keebler, Embry-Riddle Aeronautical University
30. *A Case Study on Networking upgrade with Inter-organizational Collaboration*. Chris Mosteiro and Ted Tramonte, Florida Gulf Coast University
31. *Functional Analysis of FePer1 5' Regulatory Sequences in Transgenic Arabidopsis Plants; Developing a Novel Biosensor for Monitoring Plant Stress Levels*. Samuel Minkowicz, Karolina Czarnecki, Adrian Pena and Takashi Ueda, Florida Gulf Coast University
32. *Investigating Ground Penetrating Radar (GPR) Potential for Detection of Gopher Tortoise Subsurface Nests within South Florida Soils*. Sarah Mitchell, Jessica Huffman, Evelyn Frazier, Ph.D., and Xavier Comas, Ph.D., Florida Atlantic University
33. *In-sourcing Information Technology Versus Outsourcing Information Technology, A Case Study*. Kervens Cherenfant, Samuel Diramio and Dominic Capizzi, Florida Gulf Coast University
34. *The Effects of Overly Motivated Individuals on Group Morale*. Brian Haughton and Hema Mason, Ph.D., Albany State University
35. *Music Ensembles and the Autistic Social Experience in College*. Jeffrey Edelstein and Michael Bakan, Ph.D., Florida State University
36. *Serving the homeless in Jacksonville: Organizational strengths and needs*. Ashley M. Kushner and David R. Forde, University of North Florida
37. *Design of coaxial nozzle and fabricate a porous calcium-alginate hydrogel scaffolds by customized 3D bioprinter*. Chance Mata, Maohua Lin and Yunqing Kang, Florida Atlantic University
38. *The Islamic State: Origins and Expansion*. Ryan Hart and Patricia Campion, Ph.D., Saint Leo University
39. *REBOOT laboratory*. Sarah Morell, Rob Duarte, Carolyn Henne, George Boggs, Denise Bookwalter, Jeff Beekman and Robby Nowell, Florida State University
40. *Adenosine Deaminase Associates with Self-Reported State Anxiety and Evening Melatonin Levels*. Franklin S. Hiffernan and Jaime L. Tartar, Nova Southeastern University
41. *The effectiveness and value of virtual leader behaviors*. Robert Gray, Sarah E. Frick and Wendy L. Bedwell, University of South Florida
42. *A Key to Septobasidium of the Southeastern United States*. Gabriel Somarriba and Andrea Lucky, Ph.D., University of Florida
43. *Is it Good to be Bad? Taboo Words Reduce Tip-of-the-Tongue States for Young Adults*. Jori Mansfield, University of Florida; Danielle K. Davis, University of Florida; Lise Abrams, University of Florida; and Lori James, University of Colorado-Colorado Springs
44. *Uniformity of Skin Temperature Distributions in Ultra-Thin Thermal Ground Planes Compared to Copper Heat Spreaders*. Itza Beltran, Shanshan Xu, Ryan J. Lewis, YC Lee and Ronggui Yang, University of Central Florida
45. *Determining Polyhydroxylated Fullerene Interactions with Amyloid-Beta 42 Oligomerization and Understanding their Role in A β -Induced Oxidative Stress in Neural Stem Cells*. Kiminobu Sugaya, Ph.D., and Alexander Torres, University of Central Florida
46. *Does Speaking Two Languages Improve Non-Linguistic Executive Functions?* Maria Panameno, Luz Delgadillo, Morgan Musgrove and Mercedes Fernandez, Ph.D., Nova Southeastern University
47. *Threats to Aviation: A Causal Analysis of Homeland Security*. Dennis Rumpel and Priscilla McDonald, Embry-Riddle Aeronautical University
48. *Arrestin-1 Regulates Glucocorticoid Receptor Expression in Cancer Cells*. Xzaviar Solone, Hamsa Thayelee Purayil, Yehia Daaka, Bethune-Cookman University and University of Florida
49. *Taxonomy of plants through DNA Barcoding with the use of RuBis-Co*. Nebat Ibrahim, Valencia College
50. *The Development of Intonation in Second Language Spanish*. Mercedes Puig, Carolina Gonzalez, Anel Brandl and Amy Bustin, Florida State University
51. *Academic success among former delinquent youth: Motivating factors*. Kimmie Henderson and Jennifer Wolff, University of North Florida
52. *Two Terms of the Cuban Counterpoint: Transculturation in the Poetry of Nicolás Guillén*. Alanna Fulk and Celestino Villanueva, Ph.D., University of Central Florida
53. *On the Expected Increase in Mobile Transactions Authenticated Through Biometrics*. Loren Barcenas and Koray Karabina, Florida Atlantic University
54. *My Dispersed Ones: The Search for an Ethiopian Place in Twentieth Century America*. Ebony Taylor, University of Florida
55. *Cortical Auditory Evoked Responses of Older Adults with and without Probable Mild Cognitive Impairment*. Anthony Asta, Jennifer J. Lister, Aryn L. Harrison Bush, Ross Anzel, Courtney Matthews and Jerri

POSTERTITLES

D. Edwards, University of South Florida

56. *Generation Rated X: Personality Traits, Sexual Attitudes and the Effects of Sexually Explicit Media on Attraction Among Men*. H. Christopher Eckstein, University of Central Florida

57. *Expression profile of Monocarboxylate Transporters and Basigin gene products in the mouse cornea*. Randall Maniccia, Joseph Fong and Judith D. Ochrietor, University of North Florida

58. *How the Hong Kong educational system has impacted students' self concept*. Yin Shan Chung and Dina Wilke, Ph.D., Florida State University

59. *Faking Gravity*. Dylan Whitman, South Florida State College

60. *Environmental repercussions of American diets*. Shannon Conley and Samantha Miker, Florida State University

61. *Social Media Activism and the SOA Watch Movement*. Summer Harlow, Ambar Martin and Carly Gillingham, Florida State University

62. *Astronaut Farmers: Growing Food in Space*. Christian Reitnauer and Keysha Pecor, South Florida State College

63. *Lung Cancer Mortality in Volusia County: How Does Volusia Measure Up to the Healthy People 2020 Objective?* Audrey Cherin, Fidel Vasquez and Laura Gunn, Stetson University

64. *The Science Behind Science Fiction: Star Trek: The Original Series and The Martian*. Alexis Drzewucki, Heather Oyola and Katherine Oyola, South Florida State College

65. *Role of carboxyl end helical domain in unusual high stability of Anabaena Sensory Rhodopsin Transducer oligomeric assembly*. Stephon Hercules, Sharita Ellison, C. Ainsley Davis and Vishwa Trivedi, Bethune Cookman University

66. *Early-Childhood Exploration and Cognitive Development*. Nicholas Emord and Ayshka Rodriguez, University of North Florida

67. *On the Origin of the Moon*. Abubakr Hassan, University of North Florida

68. *The Effects of Invasive Grass and Drought on Arthropod Communities*. Michelle Dunbar and Andrea Lucky, Ph.D., University of Florida

69. *The impact of endocrine disrupting compounds found in waste water effluent on the embryonic development of *Oryzias latipes* (Medaka fish)*. Zachary Loeb, University of Central Florida

70. *Development of an Allelopathic Biofilm as an Alternative to Commercial Boat Bottom Paint*. Amanda Smith, Kathy Siegler and Ray Menard, St. Petersburg College

71. *Can we plant newly restored sites to resist invasion from *Phragmites australis*?* Allison Bechtloff, Carrie Reinhardt Adams, Candice Prince and Leah Cobb Lee, University of Florida

72. *Unusual High Strain Hardening of Carbon Nanotube Networks:*

Mechanisms and Experimental Results. Devin Justice, Rebekah Sweat, Ayou Hao and Richard Liang, Florida State University

73. *Observing Myrmecophilus relationships between *Odontomachus brunneus* and *Lamellaxis micrus**. Joshua Hildebrandt and Andrea Lucky, Ph.D., University of Florida

74. *Comparison Between FTIR and Boehm Titration for Activated Carbon Functional Group Quantification*. Chad Spreadbury, Regina Rodriguez and David W. Mazyck, Ph.D., University of Florida

75. *Solar Powered Electrocoagulation system with granular sand filtration for Phosphorus Removal from Surface Water*. Daniel Franco, Jabari Lee and J.-Y. Kim, Ph.D., Florida Gulf Coast University

76. *The Role Perspective-Taking Plays in Reducing Overweight Biases*. Sandra Khalaf and Curtis Phills, University of North Florida

77. *Culture and Commerce in the Music Industry: An Economic Analysis*. Nikolina Kosanovic, University of South Florida

78. *Politics and Aesthetic Discourse: Landscape Reform in Urban Eighteenth-Century Lima*. Taylor L. Crosby, Florida State University

79. *The effect of residue K288 on the thermodynamic profile of the leucine transporter (LeuT)*. Justin Pomeroy and Kelli Kazmier, Rollins College

80. *S.I.A.M Eco-Dolphin*. Francisco Pastrana, Evan M. Dort, Eric Osorio, Zhouyang Fu and Mengshu Qing, Embry-Riddle Aeronautical University

81. *Contribution of different alleles of CAULIFLOWER, APETALA1 and FLOWERING LOCUS C 2 genes to flowering phenotype in Brassica oleracea*. Brandon Califar, Sandra Londoño, Inna Timshina, Daniel Dorado, Franco Migliolo and Marilyn Cruz-Alvarez, Florida Gulf Coast University

82. *Isolation and Evaluation of Antibiotic-Producing Marine Bacteria from Florida's Gulf Coast*. Marielena Torres, Danielle Pearman and Eric Warrick, State College of Florida-Manatee/Sarasota

83. *Design and Synthesis of Precursors for Deposition of Metal Nanostructures*. James McDaniel, University of Florida; Kelsea Johnson, University of Florida; Yung-Chien Wu, University of Florida; Joseph Brannaka, University of Florida; Julie Spencer, Johns Hopkins University; Rachel Thorman, University of Texas at Dallas; D. Howard Fairbrother, Johns Hopkins University; Amy Walker, University of Texas at Dallas; and Lisa McElwee-White, University of Florida

84. *Sugar substitutes have a bacteriostatic growth attenuation effect on the prevalent and commensal gastrointestinal species, *Bacteroides fragilis**. Lester S. Manly, Ramasai T. Kalyanam, David T. Ha, Morsal Osmani, Vincent S. Volante and Charles B. Coughlin, University of North Florida

85. *The development of a Cancer Biology training curriculum for Community Health Workers based on a Systematic Review*. Kimbel Bradley, Bethune-Cookman University

86. *Neuroprotection in Ischemic Stroke by Angiotensin II Type 2 Receptors: Uncovering the Role of Budding Neurons*. Allison T Harmel, Douglas M Bennion, Jacob D Isenberg, Jonathan Alexander, Marcello Febo, Eduardo Candelario and Colin Sumners, University of Florida

87. *Probing Mechanisms of Carbon Monoxide and Carbon Dioxide Cations Reacting with Atomic Nitrogen and Oxygen*. Jake Tenewitz, Tri Le and Joshua J Melko, University of North Florida

88. *So What Do I Pay You For Anyway? The Relationship Among Teaching Evaluations, Rate My Professor Evaluations, Gender and Salary*. Kyle Goldman and Randall Croom, University of Florida

89. *A Nutrient Enrichment Experiment at Silver River: Using the benthos box to determine effects of added nutrients on stream metabolism*. Sarah Power, Courtney Reijo and Matthew Cohen, University of Florida

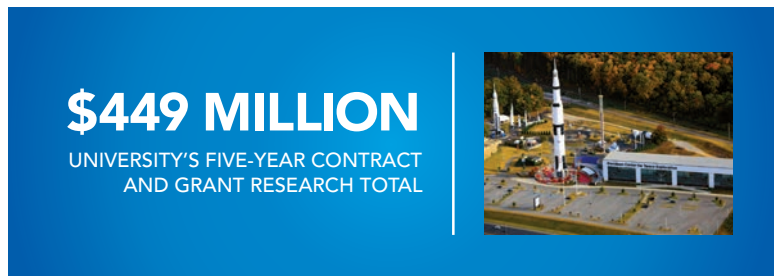
90. *Does Expressive Writing Improve Exam Scores?* Charles Fitzsimmons and Katherine Hooper, Ph.D., University of North Florida

91. *Ecosystems in Peril: Juvenile Recruitment in Cypress Domes at the University of Central Florida*. Jennifer Elliott, Mary Bibler, Amy Compare, Jacqueline Meyer, Chelsea Petrik and Chelsey Sprouse, University of Central Florida

92. *A mesogenic oligomer with alternating electron acceptor and donor units for organic electronic applications*. Samantha T. Mensah, Lydia Sosa-Vargas, David Kreher, Fabrice Mathevet and André-Jean Attias, University of Central Florida

93. *Environmental effect on Egfr gene expression and subsequent caste determination in the eusocial insect *Camponotus floridanus**. Katherine A. Hargreaves and Michelle M. Osovitz, St. Petersburg College-Clearwater

94. *Non-target effects of mosquito control pesticides on the coral *Acropora cervicornis* at elevated temperatures*. Arien Widrick, University of North Florida; Rich Pierce, Mote Marine Laboratory; and Cliff Ross, University of North Florida



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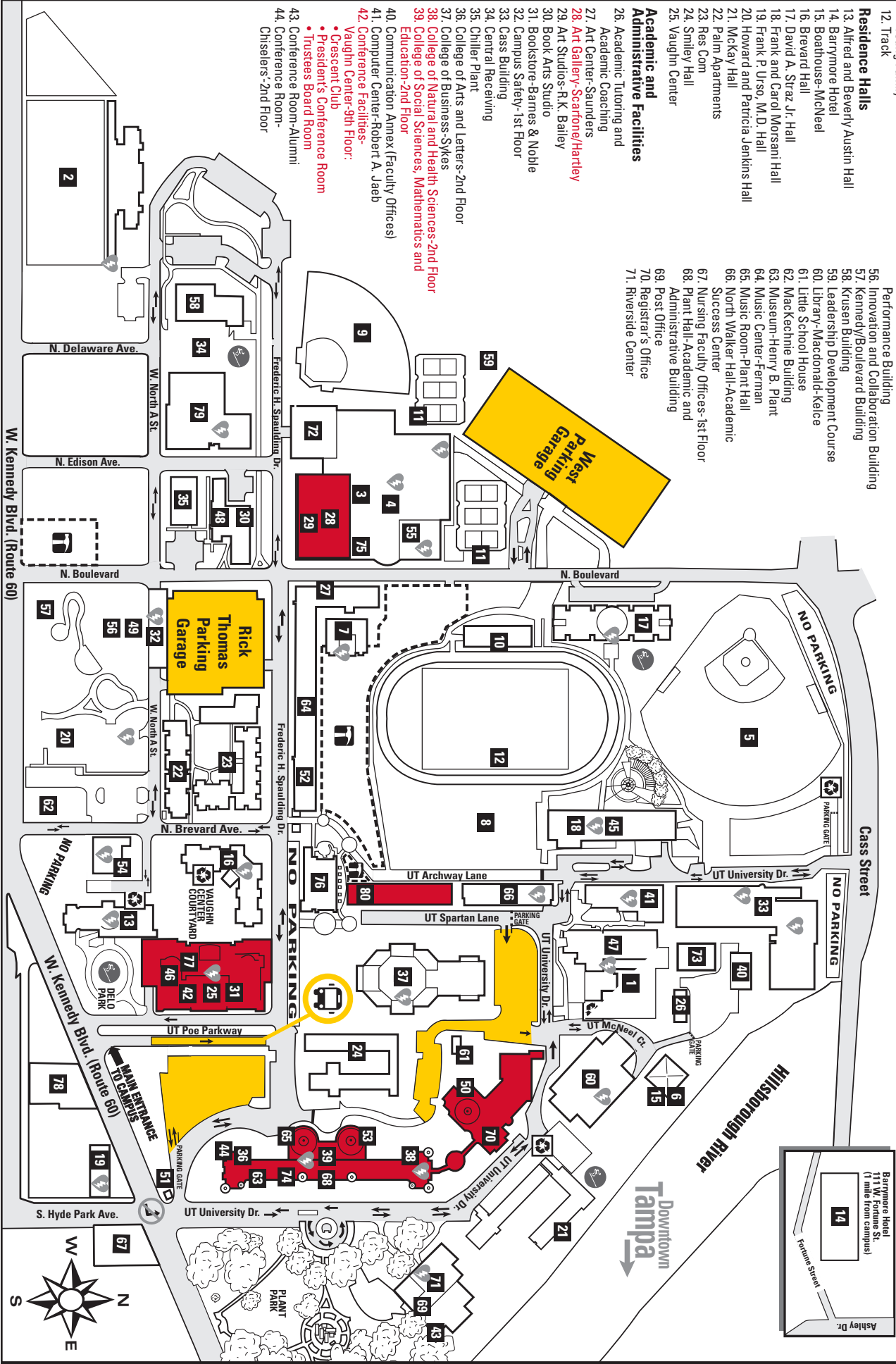
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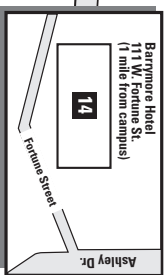


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