

FURC

FLORIDA UNDERGRADUATE RESEARCH CONFERENCE

FEBRUARY 24th-25th, 2017



Presented by
Office of Undergraduate Research and Inquiry
FLORIDA ATLANTIC UNIVERSITY

CONFERENCE SCHEDULE

Friday, February 24TH

5:00-7:00 p.m. **Registration and Reception, FAU Stadium Delray Hyundai Deck**

6:00 p.m. **Keynote Speaker**

Saturday, Feb. 25TH

Student Union Bldg. 31

7:30-8:30 a.m. **Check-in, Registration (Student Union lobby) and light breakfast (The Burrow)**

8:30a.m.-4:30 p.m. **Graduate Recruiter Fair (Student Union Lobby)**

8:30-9:30 a.m. **Poster Session I (Grand Palm Room)**

9:45-10:30 a.m. **Workshop Session I (Various Student Union rooms)**

10:45-11:45 a.m. **Poster session II (Grand Palm Room)**

11:45a.m.-1:15p.m. **Lunch (Atlantic Dining Hall and the Burrow) and Graduate Recruiter Fair (Student Union lobby)**

1:15-2:15p.m. **Poster Session III (Grand Palm Room)**

2:30-3:15p.m. **Workshop Session II (Various Student Union rooms)**

3:30-4:30p.m. **Poster Session IV (Grand Palm Room)**



On behalf of Florida Atlantic University,
**Welcome to the 7th Annual
Florida Undergraduate Research Conference!**

Florida Atlantic University, and especially the Office of Undergraduate Research and Inquiry, is thrilled to be hosting FURC 2017. This year, over 330 separate research projects are being presented to more than 535 conference participants. Twenty-five different colleges and universities, ranging from large public institutions to small private colleges are represented in the research being showcased. Additionally, thirty-three graduate recruiters from across the nation are here showcasing their graduate opportunities to Florida's best and brightest.

During the conference, you will have the chance to attend poster sessions, professional development workshops, and the graduate recruitment fair throughout the day. We hope you will make the most of your time here during this conference.

We extend our heartfelt thanks to everyone who made this conference possible. Thank you again and welcome to FURC 2017!

The FAU FURC Team



KEYNOTE SPEAKER

KATE DETWILER, Ph.D.



Kate Detwiler is an assistant professor of anthropology at Florida Atlantic University, where her research focus is on the evolution and conservation of African forest monkeys. Her primatology lab is based in the Biological Sciences Department and represents an interdisciplinary collaboration between the Anthropology Department in the College of Arts and Letters and the Biological Sciences Department and Environmental Sciences Program in the College of Science. Her lab specializes in studying rare and endangered primate species in the Congo Basin rainforests in the Democratic Republic of the Congo, hybrid monkeys in Gombe National Park in western Tanzania, and a local population of introduced African monkeys living in the mangrove swamps near Fort Lauderdale airport. Detwiler completed her bachelor's degree in biology at Bates College (1995), where she received the Thomas J. Watson Fellowship upon graduation, later earning her doctoral degree in anthropology at New York University (2010). Prior to arriving at FAU, she was a postdoctoral science fellow at Columbia University in the Department of Ecology, Evolution, and Environmental Biology. She teaches biological anthropology courses to undergraduate and graduate students at FAU, and her work on the discovery of the new monkey species *Cercopithecus lomamiensis* received wide scale media coverage, including National Geographic, Science Magazine and Nature.



How to identify a Good Advisor in Graduate School

Marcela Hernandez, Ph.D., Ohio State University

This session is for undergraduate students who are planning to attend graduate school. Information about how to pick a good graduate advisor/mentor will be given by comparing good and bad mentorship experiences. Students will learn strategies for making better informed advisor/mentor choices. Session goals: the goals of this session are: 1) to inform students what are important characteristics of a good mentor 2) to give students examples of red flags and how to recognize them when evaluating possible advisors/mentors 3) to suggest strategies to evaluate advisors/mentors and 4) to provide students with additional resources to guide them in choosing a mentor. The speaker will analyze in depth two contrasting mentoring experiences and explain what the determining factors for success were.

Session and Location:

Session 1 9:45 - 10:30 a.m. Majestic Palm A

Dumbfounding Presentations or Just Dumb Presentations: Best Practices in Preparing to Present

Christopher Leone and LouAnne Hawkins, University of North Florida and Leone & Hawkins Consulting

How many of you have attended presentations that were painful to watch? This may be because relatively few people are ever trained in best practices for communicating research findings. Yet the Council on Undergraduate Research (2012) stresses the importance of undergraduates disseminating their research findings at conferences. So how can you be prepared to make a presentation with which everyone will be impressed? This interactive workshop will familiarize students with the most effective methods for making amazing presentations and provide them with tools to assess their own presentations before going off to conferences.

Session and Location:

Session 1 9:45 - 10:30 a.m. Majestic Palm B

Session 2 2:30 - 3:15 p.m. Majestic Palm B

How to write an effective personal statement

Jon Gottesman, Ph.D., University of Minnesota

Intended audience: students planning to apply to graduate programs, especially, but not exclusively, the Ph.D.

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.

Session and Location:

Session 1 9:45 - 10:30 a.m. Sugar Palm Room

Session 2 2:30 - 3:15 p.m. Sugar Palm Room



WORKSHOP ABSTRACTS

Summer Off-Campus Research Experiences

Kim Schneider, Ph.D., 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 100s (maybe 1,000s) 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.

Session and Location:

Session 2 2:30 - 3:15 p.m. Palmetto Palm Room

How to Ask for, Process, and Use Feedback in Undergraduate Research

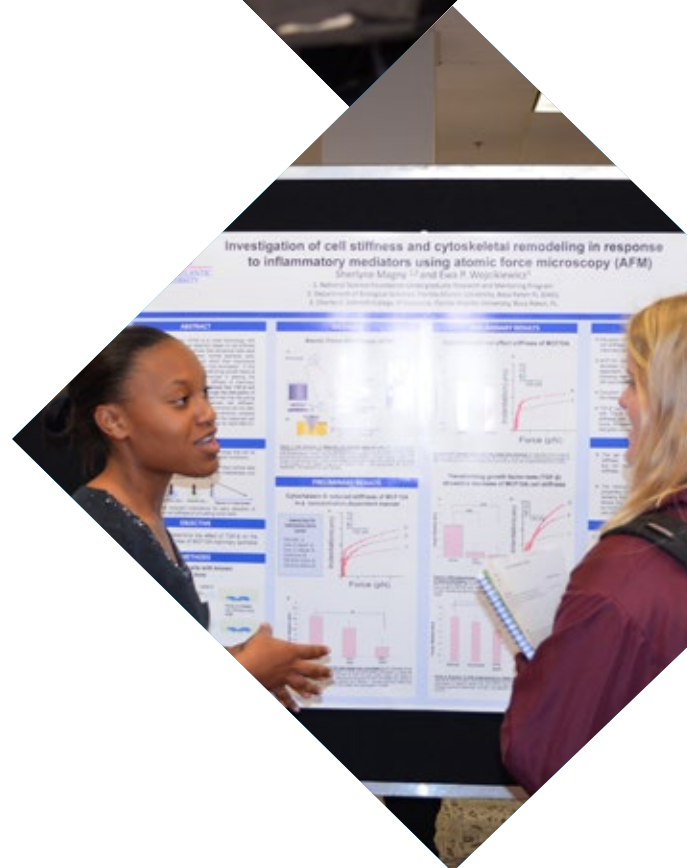
Aubrey Kuperman, Ed.M., University of Central Florida

Topic and Intended Audience: Feedback in Research (for students)

Red track changes in Word, 'bleeding' term papers filled with red pen, and rejection letters from publications: feedback in undergraduate research conjures vision of 'failure' for many students. This is a problem because feedback is a central part of academic research, as an undergraduate and beyond. This interactive workshop aims to help students harness the power of feedback to improve their research. It will focus on feedback as a cycle: asking for feedback, managing emotional responses to feedback, analyzing feedback, and planning for improvement.

Session and Location:

Session 1 9:45 - 10:30 a.m. Queen Palm Room
Session 2 2:30 - 3:15 p.m. Queen Palm Room



"Conferencing" as a Sport: The Unofficial Guide to a Successful Conference Experience

Ashley Smith and Kelsey Eagen, University of North Florida

Topic and Intended Audience: Making the most of an academic conference, intended audience is experienced and inexperienced conference goers (general audience)

Attending a conference is a unique and rewarding experience however, conferences can often be stressful and confusing. They elicit a number of plaguing questions such as, what should I do at the reception? With whom should I network and why? Which events should I attend? Can connections made at a conference help me get into graduate school? This interactive workshop, designed for both experienced and inexperienced conference goers, aims to provide some answers to these questions and help prepare you to make the most of your future conference experiences. First, we will discuss effective ways to "Pregame," or best prepare for a conference. Then we will discuss effective ways to play the "game," or navigate the conference environment from the initial reception to the closing statements and everything in-between. Attendees will receive a 'playbook' designed to equip them with strategies they can use to make most of their next conference.

Session and Location:

Session 1 9:45 - 10:30 a.m

Palmetto Palm Room

Wrestling with Finding My Research Passion...and Then Funding It!

Jorge Osio-Norgaard and Christine Morrow, University of Colorado

Topic and Intended Audience: Transitioning from Undergraduate to Graduate School, Undergraduate Students .

Osio-Norgaard's talk features his undergraduate and graduate experiences. He is a recipient of two prestigious fellowships, one from the National Science Foundation's program Graduate Research Fellowships (NSF), and the other from the Department of Education's Graduate Assistance in Areas of National Need program (GAANN). His talk highlights his undergraduate journey of individual growth and what led him to pursue a graduate degree. This includes topics such as changing areas of research interest multiple times, leaving research and trying out industry, then returning to research to find the topic that made him feel passionate about pursuing his doctorate. Morrow's segment of the presentation features the research opportunities available for undergraduate and graduate students at the University of Colorado, Boulder.

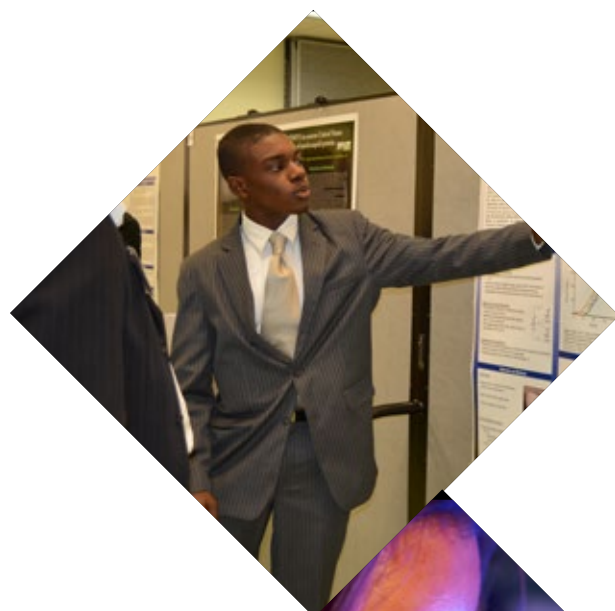
Session and Location:

Session 1 9:45 - 10:30 a.m.

Sago Palm Room

Session 2 2:30 - 3:15 p.m.

Sago Palm Room



WORKSHOP ABSTRACTS

Your Digital Footprint: Develop your Online Academic Portfolio

Colleen Smith, University of Central Florida

Topic: Social Media Management and Career Development

Have you ever Googled yourself? Managing your digital footprint is becoming more important as students develop in their academic and professional careers. Awareness of your digital footprint and understanding the perception of future employers and graduate school admission committees have of your online presence is just the first step. By attending this workshop, you will learn awareness and management strategies, along with digital citizenship and networking techniques to apply to your developing online portfolio. The focus of this workshop is social searching and actively integrating yourself into the conversations with leading researchers and trends in your field of study.

Session and Location:

Session 1 9:45 - 10:30 a.m. Student Services Bldg. Rm 132

Session 2 2:30 - 3:15 p.m. Student Services Bldg. Rm 132

Undergraduate Research at the Deep Underground Neutrino Experiment (DUNE)

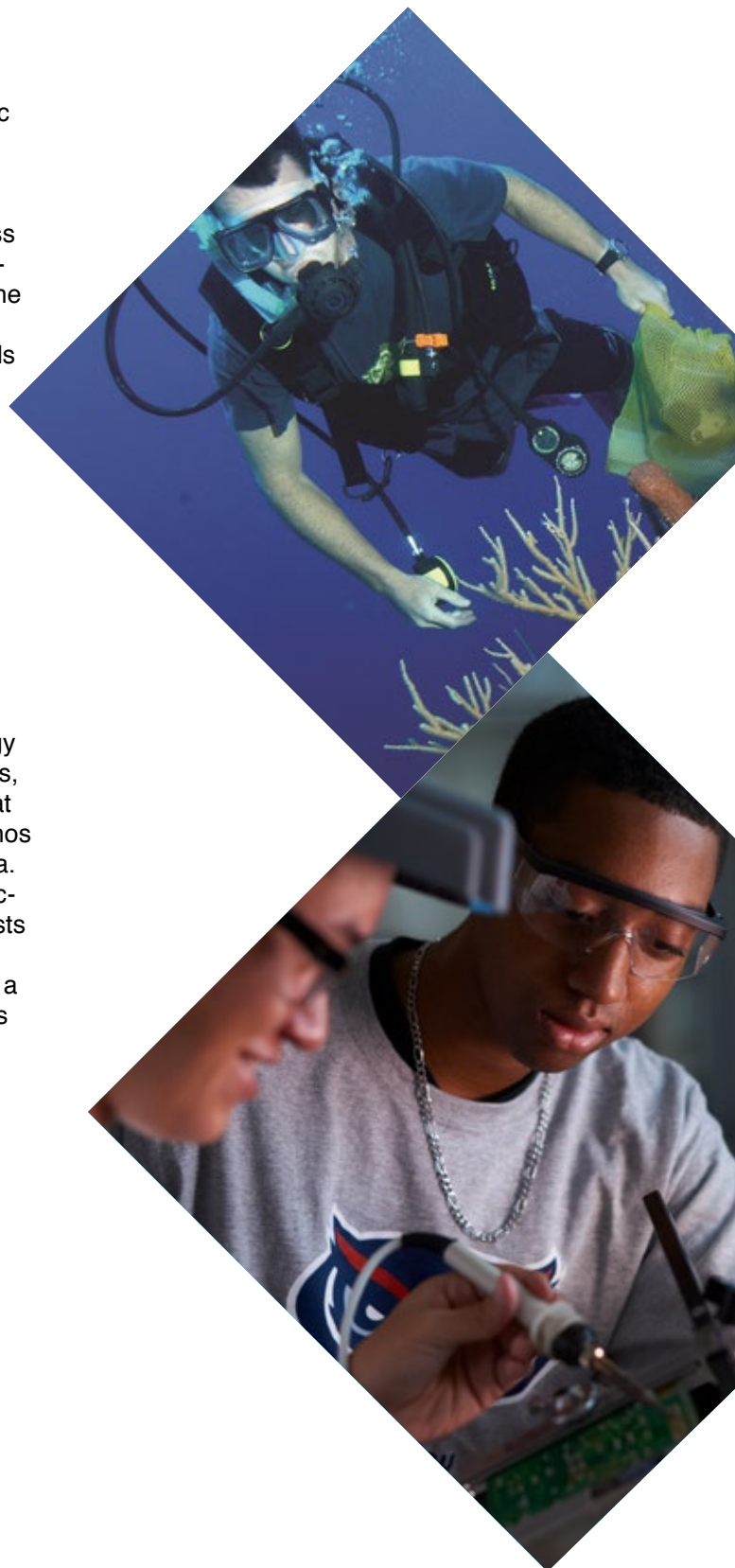
David DeMuth, Jr., Valley City State University

High Energy Particle Physics research has deepened our understanding of the universe through world class explorations of energy and matter at a fundamental scale, prompting amazing discoveries, innovation, and technologies. A new particle physics experiment at Chicago's Fermi National Accelerator Laboratory will focus neutrinos to a deep underground laboratory 800 miles away in South Dakota. The design, construction, and operation of precision particle detectors is coordinated by a large international collaboration of scientists and engineers, many of whom enjoy facilitating opportunities for undergraduate research. In this session the DUNE project will set a context for the exciting high energy physics research opportunities awaiting students from backgrounds that include physics, mathematics, engineering, computer science, and arts. For details and status of the experiment: <http://dunescience.org>

Session and Location:

Session 1 9:45 - 10:30 a.m. Student Services Bldg Rm 223

Session 2 2:30 - 3:15 p.m. Student Services Bldg Rm 223



Making the Transition: Getting Involved in Undergraduate Research as a Transfer Student

Parker Berger, Kirsten Christensen, Jeffrey Edelstein, Josalyn Foster, Melissa Newsome, Nicole Macmillan, & Briana Whitehead. Facilitated By Kate Hayworth, Florida State University

Topic and Intended Audience: Students who will be transferring to 4-year institutions and those who advise/work with this student population.

As a transfer student, it can be difficult to figure out how to get involved with undergraduate research (UR) at your new institution while 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 UR as a transfer student; most importantly, you will hear the perspectives of recent transfer students at Florida State University who transferred from institutions around the state, as well as several students who serve as peer advisors to help transfer students engage in the UR ecosystem. This workshop will be useful regardless of institution to which you plan to transfer and you will leave with tips to help facilitate your own successful transition.

Session and Location:

Session 1 9:45 - 10:30 a.m. Student Services Rm 223

Session 2 2:30 - 3:15 p.m. Student Services Rm 223

Competitive STEM Scholarships: Tips on Surviving and Succeeding in the Application Process for NSF-GRFP, DOD-NDSEG, the Goldwater, and More!

Lauren McCarthy, Rice University

Topic and Intended Audience: Competitive STEM Scholarships Application Strategies, intended for college Sophomores and Juniors

Securing your own funding as a graduate student through prestigious scholarships enables you to have a great range of freedom in your studies. However, the application process for these awards can be quite grueling, necessitating careful planning to ensure success. This workshop will outline a general application strategy and timeline for students applying for these prestigious fellowships. The bulk of the talk will focus on the National Science Foundation - Graduate Research Fellowship Program (NSF-GRFP) with remaining time spent discussing the Goldwater Scholarship (an undergraduate scholarship) and the Department of Defense – National Defense Science and Engineering Graduate Fellowship (DoD-NDSEG). Additional brief discussion will be given to the Hertz, Ford, and Frost scholarships. With a sound strategy in place, your application is more likely to be successful and your studies will be greatly enriched!

Session and Location:

Session 1 9:45 - 10:30 a.m.

House Chambers

Session 2 2:30 - 3:15 p.m.

House Chambers



POSTER TITLES

Session I 8:30 - 9:30 a.m. Grand Palm Room

1. *Bi-cultural Narrative Identity Among Hispanic Emerging Adults*
Widaad Zaman, Karena Louis, Karen Marin and Sarai Cruz
University of Central Florida

2. *Changes in autonomic nervous system functioning associated with compassion meditation among veterans with post-traumatic stress disorder* Michelle Aiello and Ariel Lang,
University of California San Diego, University of Central Florida

3. *Methionine Sulfoxide Reductase Expression in response to anoxic stress conditions in D. melanogaster*
Evgeniya Rakitina and David Binninger, Ph.D.
Florida Atlantic University

4. *A holistic assessment of energy production: environmental, economic, and social impacts of hydraulic fracturing in Williams County, North Dakota* Jessica Jagdeo, Arvind Ravikumar, Emily Grubert and Adam Brandt, Stanford University, University of Florida

5. *Beyond the ABCs: A Vocabulary Intervention Plan for a Bilingual Child with Hearing Loss*
Stephanie Raymond and Dr. Kyna Betancourt
University of South Florida

6. *Rock Climbing as a Religious Phenomenon: An Application of Ninian Smart's Dimensions of Religion*
Chelsea Probus and Dr. D. Gregory Sapp
Stetson University

7. *Biomimetic Design of Adaptive Building Membranes in Florida*
Maria Laura Arboleda and Kristin Nelson
University of Florida

8. *The Effectiveness of Nonpharmacological Pain Reduction Methods in Preterm Infants*
Emma Hensley and Toni Francis
Florida Atlantic University

9. *How Oxidative Decomposition Impacts Organic Carbon Preservation*
Angelica Ares, Dr. Thomas Bianchi and Xiaowen Zhang
University of Florida

10. *An Examination of the Factors that Contribute to the Formation of Exclaves*
Justin Franco and Gretchen Scharnagl
Florida International University

11. *Consumer Confidence: The Role of Language among Hispanics* Sandra Castro, Damion Hall, and Ticiano Menezes
Florida Atlantic University

12. *Fighting Civilization, Not Acne: The New Adult Genre and Twentysomethings in The Between and The 100.*
Sevan McBride
Eastern Florida State College

13. *Isolation of natural products from multiple Antarctic marine coral species for application to drug discovery*
Dakota Becker-Greene, Anne-Claire D. Limon and Bill J. Baker
University of South Florida

14. *Utility of the gyrA gene for detection and analysis of Wolbachia endosymbionts in Dirofilaria immitis and various Culicine mosquitoes.*

Laura Alfonso, Haley Bauer, Sean Dixon, Andrew White, Lance Wood, Jennifer Bess and John Whitlock
Hillsborough Community College

15. *Approaches to Managing Catastrophic Risks - An International Comparison of Public/Private Sector Roles*
Taylor Deacon and Patricia Born
Florida State University

16. *Diet and Temporal Partitioning by the Common Octopus and the Atlantic Longarm Octopus in a South Florida Habitat*
Danielle Bartz, Chelsea Bennice and W. Randy Brooks, Ph.D.
Florida Atlantic University

17. *An Assistant to Firefighting: Drone Design*
Nicole Buczkowski, Christian Carter, Harrison Clark, Kyle Crews, Michelle Espinal, Julie Summers, Dr. Emre Selvi and Dr. Burchan Aydin
Jacksonville University

18. *Protecting Civilians and Public Service Personnel through an Early Identification System for Airborne Chemicals: SEIAC*
Hannah Herbst
Florida Atlantic University

19. *TILMAP-An Automated Instrument to Measure Tumor Infiltration of Lymphocytes in Cancer Tumors*
Devin Willis
Florida Atlantic University

20. *The Role of the Hippocampus and Orbitofrontal Cortex in Dynamic Decision-Making*
Huzaifa Wasanwala, Jack-Morgan Mizell, Deandra Chetram, Margaret Ann Kreher, Rukmini-Sara Sosa-Garcia, Sarah A Johnson, Sara N. Burke and Andrew P. Maurer
University of Florida

21. *It's Written All Over Your Face: The Influence of Men's Facial Hair on Perceptions of Professionalism and Competence*
Jeremy D. Bodiford, David Hall, Dr. Randall M. Croom and Dr. Kelly R. Hall
Stetson University

22. *Temporal Trends and Potential Effects of Mercury Exposure in Florida Panthers (Puma concolor coryi)*
Jami Mercer and Dr. Darren Rumbold
Florida Gulf Coast University

23. *Identification of Novel Growth Regulators in Plant Populations Expressing Small, Cyclical, Random Mini-Peptides*
Kiona Elliott, Dr. Zhilong Bao, Maureen Clancy, Dr. Raquel F. Carvalho and Dr. Kevin M. Folta
University of Florida

24. *Tuning luminescence in lanthanide coordination polymers through dilution of emissive centers*
Kelly L. Rue, Heather A. Ten Hoeve, Jeffrey D. Einkauf and Daniel T. de Lill
Florida Atlantic University

25. *Culture-Independent Characterization of Rhizosphere Bacteria and Fungi in Asymptomatic and HLB-Symptomatic Grapefruit Trees*

Clara Guillem and Steve Denison, Ph.D.
Eckerd College

26. *The Konnarock Laminiae*

Dinah Hunsicker
Valencia College

27. *Over-Due Process: Federalism, Selective Incorporation, and the Warren Court*

Sarah Warren and Daniel Maier-Katkin
Florida State University

28. *Does Distance Matter? : Predictors of Infidelity and Jealousy in Geographically Close versus Long Distance Romantic Relationships*

Shirley Dorsainvil and Grace White, Ph.D.
University of Central Florida

29. *The Recent Evolution of 3-D Printing in Regards to Ancient Artifacts*

Kristina Hopf and Dr. de Grummond
Florida State University

30. *Institutional Persistence: Colonial Legacies and Corruption*

Joan Joseph
Florida State University

31. *Morphological differences found in *Batrachochytrium dendrobatidis* (Bd) strains from California and Panama*

Caitlin Nordheim, Stanley Rice and Taegan A. McMahon
University of Tampa

32. *Song as an aggressive signal in the Bachman's sparrow*

Sabah Ali and Rindy Anderson
Florida Atlantic University

33. *Laminar profile underlying the propagation of CSD: from single neurons to population activity*

Daniel E. Rivera, Darlene Ramos, Sarahy Garcia, Yisel Frometa, Dr. Jorge Riera, Florida International University
Dr. Yoichiro Mori, University of Minnesota Twin Cities

34. *Kleptochemistry as a potential defense mechanism in the sacoglossan sea slug*

Elysia Clark Mary Grace Duethman, Kristen Ewen and Michael Middlebrooks
University of Tampa

35. *Evaluating Red Oak Growth Patterns across a Disturbance Gradient*

Melinda Paduani, Dr. David Orwig, Dr. Neil Pederson and Daniel Bishop, Harvard Forest, Petersham, MA
University of Central Florida

36. *An analysis of rhetoric surrounding world leaders in online news media*

Mae Espinosa, Allison Lang and Tatum Shannon
Florida State University

37. *Rectus Femoris Echo Intensity Correlates with Muscle Strength, but not Endurance, in Younger and Older Men*

Adam M. Burton, Matt S. Stock, Ph.D, University of Central Florida and Jacob A. Mota, University of North Carolina, Chapel Hill

38. *Individual differences in emotion-cognition interaction: Effect of serotonin transporter genotype on positive and negative emotional distractor suppression*

Roxanna Flores and Melanie Stollstorff, Ph.D.
Florida International University

39. *Soil Nematodes: a Potential Long-term Reservoir Host for Chytrid Fungus*

Nichole A. Laggan, Sarah E. Cuccinello and Taegan A. McMahon
University of Tampa

40. *Aerojet Strips for the Next Generation of X-ray Polarimeter Detectors*

Rafael G. Almonte Jr., University of Florida and Joanne E. Hill-Kittle, NASA Goddard Space Flight Center

41. *A Sound Mind: Binaural Beats as an Antecedent of Performance on Cognitive Tasks and Psychological Well-Being*

David Hall, Randall Croom, Kelly Hall and Jeremy Bodiford
Stetson University

42. *Influence of cGMP- dependent protein kinase in the time to recovery from an induced electroconvulsive seizure in *D. melanogaster*.*

Leonor E. Miranda, Dr. Ken Dawson-Scully and Monica Risley
Florida Atlantic University

43. *Pilot Study Evaluating Knowledge Acquisition of an Oral Health Presentation in a Palm Beach Elementary School.*

David R. Casto, Jackson P. Casto, Florida Atlantic University, Grant T. Casto, University of Florida, and Richard J. Crout, Ph.D., DMD, West Virginia University

44. *Protocol for Whole Surface Detection of Bacterial Biofilms on Implanted Orthopedic Hardware*

A. Della Porta, D. Gibson, QP. Yang, D. Steigleman, M. Flores, L. Cowan and G. Schultz
University of Florida

45. *The influence of a serotonin 2A receptor gene (HTR2A) on stress responsivity.*

Akshay Naraine and Jaime L. Tartar
Nova Southeastern University

46. *Unavoidable Connections*

Taylor Emmons, Dr. Esra Akin-Klvanc, Lisa Piazza, M.A. and Dr. Amy Rust
University of South Florida

47. *A Comparison of Child Sex Trafficking Laws to Rates of Child Sex Trafficking in Selected Countries*

Vanessa Fernandez and Dr. Suzanna Smith
University of Florida

48. *Behavioral Resistance to *Batrachochytrium dendrobatidis**

Megan Hill and Dr. Taegan McMahon
University of Tampa

POSTER TITLES

49. *The Implementation of Set-Based Concurrent Engineering in Future All-Electric US Navy Ships*
Matthew Israel and Dr. Raturaj Soman
Florida State University
50. *Determining the Role of MKNK1 in Ret-dependent Cancer Growth* Matthew Murray, Florida State University, Masahiro Sonoshita and Ross Cagan, Icahn School of Medicine Mount Sinai, New York.
51. *Analysis of a mutant paramyxovirus as a vector for tumor-specific cell killing*
Dr. Griffith Parks, Ariella Saslfsky and Candace Newcome
University of Central Florida
52. *Sleep Deprivation Results in Increased Expression of Cancer-Related miRNA in Humans*
Ezana Assefa, Xavier Tatin, Aurelien Tartar and Jamie L. Tartar
Nova Southeastern University
53. *Development of a Laser-Based Water Level Sensor for Fine-Scale Ecohydrological Measurements*
Joshua Benjamin and Dr. David Kaplan
University of Florida
54. *Optogenetic Control of Grooming in Drosophila Melanogaster* Eamonn Byrnes, Florida Atlantic University, Seth Tomch, Lanikea King, The Scripps Research Institute
55. *Body Morphology and Community Structure of Tampa Bay Fishes*
Alex Famigletti, Daniel Huber and Haley Amplo
University of Tampa
56. *Compassion Fatigue: An in-depth look at secondary traumatic stress syndrome in veterinary support staff.*
Wendy Jureski and Anne Pfister
University of North Florida
57. *The roll of Dgt4 in the neural stem cells with or without the centrosome*
Wajiha M. Khalid, Yiming Zheng, Barbara A. Dietrick and Timothy L. Megraw
Florida State University
58. *The Psychological and Physiological Implications of Sleep Restriction: A Comparison of Voluntary and Experimental Sleep Restriction Groups*
Sri Moturu, Kevin Douglas, Kaylin Huitsing, Ana I. Fins and Jaime L. Tartar
Nova Southeastern University
59. *Bridging The Gap: The Art of Creativity*
Frank Nunez and Dr. Diane Donnelly
University of South Florida
60. *Antimicrobial Activity of Tropical Spice Extracts Against *Is-satchenkia orientalis* and *Escherichia coli* O157:H7*
E. B. Olosoji, I. M. Ogunade, D. H. Kim and A. T. Adesogan
University of Florida
61. *Methamphetamine Regulation of Dopamine Transporter*
Sean Olson, Jessica Marz, Danielle Sambo, Kaustuv Saha and Habibeh Khosbouei
University of Florida
62. *Modulating Fear Extinction via the Small Conductance Calcium-Activated Potassium Channels*
Danielle Riboul, Joan Lora M.S. and Dr. Robert W. Stackman Jr.
Florida Atlantic University
63. *Nonprofit Mission Conceptions*
Leah Singleton, Dr. David Berlan, Dr. Portia Dinoso Campos and Sungdae Lim
Florida State University
64. *Political Orientations and Music Preferences among College Aged Adults*
Omari Stringer and Chrysalis Wright
University of Central Florida
65. *Individual Differences of Directed Forgetting*
Griselda Alavez and Valerie Sims
University of Central Florida
66. *Interval Graphs Resulting from Removal and Addition of a Vertex In a Food Web*
Angela Angeleska and Valeriya Bowen
University of Tampa
67. *Differential extraction of caffeine using various analytical techniques in a forensic chemistry laboratory.*
Jenna Cote, Leora Hilbert and Dr. Sulekha Coticone
Florida Gulf Coast University
68. *Creating a Safe Space for the Celebration of Diversity through Key Chain Creations*
Gabriella Alqueza, Kalani David, Caitlyn Burns and Brittney Carter
University of North Florida
69. *Nocturnal Activity Patterns of Gopherus polyphemus in South Florida*
Laura De Souza, Krystal Petrone, Jessica Huffman and Evelyn Frazier, Ph.D
Florida Atlantic University
70. *Cross Population Comparisons of Hair Color Choice*
D. Delvescovo, J. Wortham and A. Miller
University of Tampa
71. *Feasibility of At-home Sleep Timing Manipulation for School-aged Children*
Rachel S. Fisher, Kendra N. Kriestch and David M. Janicke
University of Florida
72. *Nurse2Nurse Education Connection: The Next Chapter*
Sabrina Gadala-Maria, Madison Beeler, Gabrielle Crevier, Jenna Gallas and Dr. Karen S. Reed, MSN, RN
University of Florida
73. *The Impact of Arthritis on the Health-Related Quality of Life in Individuals at the University of Central Florida*
Ryan Garwood and Suha Saleh, Ph.D., M.T.
University of Central Florida

74. *Environmental Detection of Rare Earth Metals Using Gold Nanoparticles*

Jonathan Hardie, Ryan Crichton, Alexander Santana, Luizetta Navrazhnykh, Maria Martinez, James R. Brenner and Daniel T. de Lill
Florida Atlantic University

75. *Understanding the Magnetic and Electronic Properties of Transition-Metal Monochalcogenides*

Thomas LaMartina and Jason Haraldsen
University of North Florida

76. *A comparison of BPA alternatives with endocrine disrupting compounds found in waste water on the embryonic development of *Oryzias latipes*.*

Zachary Loeb
University of Central Florida

77. *China and Smart Power in Pakistan and Afghanistan*

Dennise Manansala
University of North Florida

78. *An Open-Source Research Platform for Autonomous Vehicle Research and Development*

Shawn Martin, Regynald Augustin, Nicolas Tutuianu, Marcus McGuire, William Hahn and Elan Barenholtz
Florida Atlantic University

79. *Wildtype TP53 induces bystander cell killing in response to chemotherapeutic agents*

January F. Moore and Fatima K. Rehman
University of North Florida

80. *Selective f-element chelation with tripodal CMPO ligands: Optimization of extraction conditions to enhance rare earth metal recovery from aqueous solution*

Andrew K. Mulville, Michael G. Patterson, Shannon M. Biros and Eric J. Werner
University of Tampa

81. *Christianity: A Volatile Resident or a Helpful Neighbor? An Examination of how Christianity Helps the Nigerian Woman*

Madhura Nadarajah and Daniel Dooghan, Ph.D.
University of Tampa

82. *The cerebellum's relationship to language function*

Sophia Tchir, Carolina Vias, Jairo Munoz, Jefferson Salan, German Lopez, Ania Suros, Matteo Grudny, Ana Solodkin, Anthony Steven Dick, Florida International University and Steven L. Small, University of California Irvine

83. *Identification of fauna associated with Gopher Tortoise burrows at Florida Atlantic University Preserve and Jonathan Dickinson State Park*

Laura De Souza, Jessica Huffman and Evelyn Frazier, Ph.D.
Florida Atlantic University

Session II 10:45 - 11:45 a.m. Grand Palm Room

1. *Community Health Needs Assessment of Spring Hill neighborhood, Deland, Florida.*

Macie Thornhill, Tiffany Marrero, Asal Johnson, Ph.D, MPH
Stetson University

2. *Drug Therapies Against Cholera Toxin May Work with Cellular Recovery Mechanisms to Reverse the Effects of Cholera*

Kaitlyn Tutt and Kenneth Teter
University of Central Florida

3. *3D Printing of Archaeological Artifacts for the Visually Disabled and to Enhance the Classroom Experience*

Gabriella Viscito, Nancy De Grummond and Tatum Shannon
Florida State University

4. *Forensic application of high field NMR in the detection of imidazole isomers for drug detection*

Nataly Abrams and Dr. Sulekha Coticone
Florida Gulf Coast University

5. *Designing Drug-like Compounds That Target MicroRNAs*

Tevin Ali, Palm Beach State College, Jessica Childs Disney, Ph.D, and Dr. Matthew David Disney, The Scripps Research Institute

6. *Does Parent Spatial Ability Predict Child Spatial Ability?*

Daniela Alvarez, Albany Gonzalez, Carla Abad and Shannon Pruden
Florida International University

7. *Evaluation of a Child Abuse Prevention Program*

Talia Ashby, Ashley Jensen and Dr. Norma Winston
University of Tampa

8. *The Equality Generation: A Look At Millennial Attitudes Toward The Current Transgender Movement*

Kirsten Atkinson
University of North Florida

9. *Direct Fabrication of Multi-Scale Metallic Surfaces on Flexible Substrates through Substrate Stretching for Biofilm Inhibiting Surface Coatings*

Jisun Ban, Casey McKinney, Matthew Davies, Amy Lane and Stephen Stagon
University of North Florida

10. *Bisulfite DNA Sequencing Analyses to Detect Methylation Patterns in the p73 Gene Promoter in Prostate Cancer Cell Lines*

Nicholas Braganca, Johannes Schabort, L. Michael Carastro, University of Tampa, Jong Y. Park, H. Lee Moffitt Cancer Center & Research Institute
University of Tampa

11. *The Effect of Video Gaming with a Brain-Computer Interface on Mood and Stress*

Francisco Javier Carrera Arias and Jaime L. Tartar, Ph.D.
Nova Southeastern University

12. *Mapping Nazi History: Charting Current Controversies about Hitler's Regime through Digital Media*

Nathan Stoltzfus, Ph.D., Michela Sieman, Shelby Young and Eliza Chase
Florida State University

POSTER TITLES

13. *Simulation: A strategy to increase recognition of pediatric sepsis* Caroline Chu and Desiree A Diaz, PhD, RN-BC, CNE, CHSE-A University of Central Florida
14. *Finding Planets in K2: A New Method of Cleaning Data* Miles Currie Florida State University, SETI Institute, NASA Ames Research Center, Fergal Mullally and Susan Thompson, SETI Institute, NASA Ames Research Center
15. *The Visual Brightness Behavior of Comet C/1995 O1 (Hale-Bopp) During 1995-1999* Anthony Curtis, Isabel Rivera, Nathan Lastra, Timothy Cox, and Maria Womack University of South Florida
16. *Active Transportation and C-Reactive Protein in U.S. Adults* N.F. Diaz and M.R. Richardson University of North Florida
17. *Eicosanoids effects on human macrophages infected with Salmonella enterica Typhimurium* Mohamed Elbashir and Mariola Edelmann University of Florida
18. *The Effects of Bilingualism on Cognitive Development* Rojeen Falasiri University of Central Florida
19. *Sex Differences in the Effects of Acute Exposure to Cannabis Smoke on Working Memory* Shandera N. Ferguson, Shelby L. Blaes, Caitlin A. Orsini, Shannon C. Wall, Sara Heshmati, Marcelo Febo, Adriaan W. Bruijnzeel and Barry Setlow Bethune-Cookman University
20. *Expression and Optimization of Recombinant Human Galectin-1 for Binding Studies as a Potential Target for Cancer Therapy* Camelia Garcia, Maria C. Rodriguez, Forrest Fitzgerald, Yaima Rivero and Mare Cudic Florida Atlantic University
21. *Evaluation of Two Stigma Modification Efforts in Reducing the Stigma of Suicide* Julia Y. Gorday, Megan L. Rogers, Thomas E. Joiner, Ph.D. Florida State University
22. *Novel Geotextile Mat Tailored to Reduced Odor Emission (H2S) from Landfills* Rachel (Yen Jung) Liu, Morgan Hull, Regina Rodriguez and Dr. David Mazyck University of Florida
23. *20th Century Tall Tale Postcards and the Myth of Abundance in the United States.* Abigail Sophia Irwin and Dr. Michael Neal Florida State University
24. *The Effects of Trait Mindfulness on False Memory for Emotional Word Lists* Lindsey Johnson and Dr. Travis W. Conradt Florida Institute of Technology
25. *Evaluating the effects of Assistant Teaching Peer (ATP) Mentors on the passing rates in Gatekeeper courses.* Tristen Johnson, Danyell Wilson, Ph.D, C. Ainsley Davis, Ph. D, Elizabeth Congdon, Ph.D, Alexis Brooks-Walters, Ph.D, Anthony Owens, Dominique Barrs, Shanequa Davis and Herbert W. Thompson, Ph.D Bethune-Cookman University
26. *Depression and Obesity found in a Middle School Sample of African American Girls* Demi Jones, Dawn Witherspoon, Ph.D. and Maureen Black, Ph.D. University of North Florida
27. *Comparative study using tag free and affinity tagged Anabaena Sensory Rhodopsin Transducer [ASRT] to elucidate oligomeric stability and ligand binding* Tashmay Jones, Stephon Hercules and Vishwa Trivedi Bethune-Cookman University
28. *Functional analysis of an Arg4Ser variant in gastrin-releasing peptide that is associated with BMI in Pima Indians and Caucasians* Alexander Jordan, Bethune-Cookman University, Michael Traurig and Leslie J. Baier, Diabetes Molecular Genetics Section, Phoenix Epidemiological and Clinical Research Branch, NIDDK/NIH Bethune-Cookman University
29. *Utilization of University Student Health Services by Asian International Students* Jenny Joseph, Kalli Mullen, Katya Tsangarakis, Natalie-Marie Pena, Alicia Ciliezar and Dr. Karen Reed University of Florida
30. *The Endurance of the Amazonian Woman in the Byzantine Epic* Shaimaa Khanam, Simon Prado and Dr. Robert Romanchuk Florida State University
31. *Controlling Light with Spatially Variant Photonic Crystals and Waveguide Structures* Nicholas Kosan, Rashi Sharma, Jennifer Digaum, Dr. Stephen Kuebler, University of Central Florida and Dr. Raymond Rumpf, University of Texas at El Paso
32. *How do early storybooks support language learning?* Harlee Onovbiona, Molly Kegley and Dr. Arielle Borovsky Florida State University
33. *Project Courier: A Drone Delivery Network System for College Campuses and Beyond* Gregory Diehl, Andy Kurili and Dr. John Robbins Embry Riddle Aeronautical University
34. *Artificial sugar substitutes have greater attenuating effects on Akkermansia muciniphila growth and metabolic activity when compared to natural sugar substitutes.* Lester S. Manly, David T. Ha and Charles B. Coughlin University of North Florida
35. *Sex Differences in Situational Characteristics* Dylan Marsh, Jamie Z. Ramos and Ryne A. Sherman, Ph.D. Florida Atlantic University
36. *The Making of Men: Developing Masculinity Through the Conduct Process* Chase Breeden and Kendall McDonald Florida State University

37. *Direct Fabrication of Multi-Scale Metallic Surfaces on Flexible Substrates through Substrate Stretching for Biofilm Inhibiting Surface Coatings* Casey McKinney, Jisun Ban, Matthew Davies, Amy Lane and Stephen Stagon
University of North Florida

38. *Laterality in an arthropod: the fruit fly *Drosophila melanogaster**. Lilyveth Mesa, Angela Duff, Anastasia Zharova, Beatriz Alvarez, Demarkis Dormer, Naomi Garcia, Jeremiah Paul, Kyle McHugh, Isaias Trujillo, Toriean Gordon, Tyler Bonner, Keret Watts, Farah Calvaire, Isabella Duarte, Anthony Jackson and Michael Robinson
Barry University

39. *Motivation and Diversity: What drives interest in a natural resources career?*
Bianca Moreno, Martha Monroe and Alison Adams, University of Florida and Yu-Chi Tseng, National Taiwan Normal University

40. *Non-Linguistic Executive Function: Do Bilinguals Outperform Monolinguals?*
Morgan Musgrove, Stephanie Hernandez, Trixie Berthin and Mercedes Fernandez, Ph.D.
Nova Southeastern University

41. *QUASAR: An Experimental Test Bed for Autonomous Multi-Agent Control*
Eric Padilla and William MacKunis
Embry Riddle Aeronautical University

42. *Comparative analysis of the colors of the caudal spines of surgeonfishes (Acanthuridae)*
Eva Paulus and Michael P. Robinson
Barry University

43. *Active vs Rest State: Is object memory encoding, consolidation, and retrieval affected by biological clock?*
Elishama Petion, David Cinalli, M.A, Sarah Cohen, Ph.D., and Robert W. Stackman, Ph.D.
Florida Atlantic University

44. *Heterologous Expression of a Biosynthetic Gene Cluster from *Streptomyces scabies**
Magan Powell, Guangde Jiang, and Yousong Ding
University of Florida

45. *Sensitization or habituation? Some effects of personal experiences on perceptions of child abuse.*
Crystal Rickman, Khushbu Patel, LouAnne Hawkins and Christopher Leone
University of North Florida

46. *Presence of *Staphylococcus aureus* and MRSA in the Hillsborough River*
Zachery Rivera, Kimberly Grassett, Bridgette Froeschke, Ph.D. and Ann Williams, Ph.D.
University of Tampa

47. *False Feedback about Physical Fitness Improves Dot-Probe Performance Irrespective of Affective Content*
Alexandra Rodriguez, Bradley Fawver, Taylor Buchanan and Christopher Janelle
University of Florida

48. *Iron Abundances of Stars in the Open Cluster NGC 752*
Omar Rodriguez and Simon Schuler
University of Tampa

49. *Mitochondrial bioenergetics and expression profiling in rat dopaminergic cells following exposure to the pesticide dieldrin*
Anna Rushin, Jonna Boyda, Jordan T. Schmidt, and Christopher J. Martyniuk
University of Florida

50. *The Role of Stereotypes in Language and Decision-Making*
Samantha Shepard
University of Central Florida

51. *The search for novel antibacterial targets against *Pseudomonas aeruginosa* using toxic proteins from bacteriophages*
Sarah Sherman, Jeroen De Smet and Rob Lavigne, Katholieke Universiteit Leuven, Leuven, Flanders, Belgium
University of Florida

52. *Investigating a Low-Cost Alternative Raman Spectrometer for Use in an Instrumentation Course* Yiro Shimabukuro, Evonne Rezler, Andrew Terentis, and Jerome E. Haky
Florida Atlantic University

53. *VRvisu: A Tool for Virtual Reality-based Visualization of Medical Datasets*. Jason Smith and Sandeep Reddivari
University of North Florida

54. *Communicating the Effects of Noise at Work through Wikipedia* Rafaela Sousa, Florida State University, Thais Morata, Ph.D., and James Hare, Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health

55. *An Investigation of Mutation Frequencies in Eukaryotic Cell Lines for Diagnoses of Genetic Diseases* Natalie Abad, Austinah Padian, Isabella Tripolli, Dr. Hsin-Hsiung Haung, Dr. Emily Bradshaw and Dr. Alicia L. Hawthorne
University of Central Florida

56. *Learning Disability Recommendations Differ for Asian American and White American Students* Jiaxin Jessie Wang, Liz Redford and Kate A. Ratliff
University of Florida

57. *Novel Centrosomin Genetic Mutation Disrupts Centrosome Assembly through Microtubule Organizing Centers*
Briana Whitehead, Timothy Megraw and Rebecca Buchwalter
Florida State University

58. *Temporal Changes and Metabolomic Profiling of Coffee Using Untargeted LCMS*
Aliya Adams and Dr. Sidney Bolden
Bethune-Cookman University

59. *How does clutch count affect the hatch success of loggerhead sea turtles?* Yaza Alfonseca, Leah Coleman, Alexandra Lolovar, Kirt Rusenko, Ph.D., Jeanette Wyneken, Ph.D
Florida Atlantic University

POSTER TITLES

60. *It's A Fish! It's A Plane! No, It's A Hammerhead!*
Haley Amplo, Dan Huber, The University of Tampa, Kyle Mara,
University of Southern Indiana, Jonathan Ford and
Summer Decker,
University of South Florida
61. *Building Data from the Ground Up: Baseline Data Methodology
and Participatory GIS in Hopkins, Belize.*
Amanda Ashby, Lain Graham, Nicholas Altizer, Dr. Timothy
Hawthorne, Jasmine Perez, University of Miami, Sarah Kuo, Jake
Wade SUNY Geneseo, Dr. Christy Visaggi, Christine M
University of Central Florida, University of the Pacific,
Georgia State University
62. *Addressing the School-To- Prison Pipeline at a School-Based
Level Through Intervention Programs*
Savannah Bayer, Natalie Leedy and Aaron Leedy
University of North Florida
63. *Threat and Reaction Time: A Measure of Post-Error Slowing in
Anxious Children using the Flanker Task*
Laura B. Camafreita, Michele Bechor and Jeremy Pettit
Florida International University
64. *Social Assimilation of Hispanics in the United States*
Laura D. Gomez, Esteban Cardenas, Jonathan M. Green, Monica
Escaleras and Eric Levy
Florida Atlantic University
65. *STEAM Programs Impact on the Education of Youths*
Carmen Roberts and Jeff Skowronek
University of Tampa
66. *Millikan's Oil-Drop Experiment: Understanding the Nature of
the Electron Charge* Israel Castillo and Dr. Victor Bondzie
Valencia College
67. *Using Quantitative Analysis with Personal Meaning Maps*
Julianne R. Chechanover and Kathryn A. Stofer
University of Florida
68. *Cloning of full length and c-terminal truncated anabaena sen-
sory rhodopsin to outline the significance of cytoplasmic region in
transducer interaction* Shanequa Davis, Sharita Ellison and Vishwa
Trivedi
Bethune-Cookman University
69. *Creating a Smaller Synthetic Muscleblind-like 1 Protein*
Ryan Day, Melissa Hale and Andy Berglund
University of Florida
70. *Flow through Elasmobranch Olfactory Organ*
Ayse Demircan, Marianne Porter and Tricia Meredith
Florida Atlantic University
71. *A Hidden Threat: Survey of Microplastic Abundance and Distri-
bution Around Glover's Reef Atoll, Middle Caye, Belize*
M. Dougherty, C. Clemmons, A. Carameros, S. Elberly, A. Harris,
C. Harrel, H. Hayes, M. Meads, H. Smith, A. Zirkle, M. Minadie, Dr.
L. Walters and Dr. P. Sacks
University of Central Florida
72. *Case studies on the impact of Google CS on engagement in
computer and technology-related activities at two rural middle
schools* Jeff A. Edelstein, Lucas von Hollen, Marcia A. Mardis,
Ph.D. and Faye Jones, Ph.D.
Florida State University
73. *What the Kell? Unpacking the Origins of Ireland's Greatest
Treasure* Mya Frieze and Dr. Kyle Killian
Florida State University
74. *The Effects of Temporal and Spatial Factors on the Distribution
of Staphylococcus aureus in the Hillsborough River*
Kelly Fryar, Bridgette Froeschke and Michael Middlebrooks
University of Tampa
75. *Producing Reporter Gene Constructs for Investigating the Role
of G-Quadruplex (G4) DNA elements in Gene Regulation*
Brianna D. Griffin and Hank W. Bass
Florida State University
76. *Exploring and Defining the Fake News Phenomenon*
Abubakr Hassan and David Schwam-Baird
University of North Florida
77. *Genetic characterization of populations of the African jewelfish
(Hemichromis letourneuxi) introduced to the waterways of Florida*
Heather A. Muse, Paulina S. Banka, Caitlyn Berk, Ashley K. Clem-
ens, Lorenzo A. Gayle, Brandon Saiz, Tejea Swanston, Vickei-
ma Sydney, Emily J. Williams, Pamela Schofield and Natalia M.
Belfiore
University of Tampa
78. *Self-Referential Cueing and Autobiographical Memory in Adults
with Traumatic Brain Injury.* Marvin Hoo, University of Central Flori-
da and Matthew Grilli, Ph.D.,
University of Arizona.
79. *Electronic Healthcare Record Keeping: Implementing and
Maintaining Efficiency* Daniel Sheppard and John Hughes
Florida Gulf Coast University
80. *Prestige and Dominance Motivation as Predictors of Self-Im-
provement versus Other Sabotage* Lamika Jackson, Norrelle
Walker, Dominic Mercurio and Sarah E. Ainsworth
University of North Florida
81. *Changing Sex Roles and Positions of Power: Does Power Influe-
nce the Gender Differences in Romantic Jealousy?*
Kristin Jennings, Mikaela Rizzo and Paul T. Fuglestad, Ph.D.
University of North Florida
82. *Spatial Ability in Dancers: "Is Dancing Good for Your Brain?"*
Valerie Kessler and Valerie Sims, Ph.D.
University of Central Florida
83. *Fillette, an Analysis of Louise
Bourgeois' Controversial Art Piece*
Corsha Inez Lake, Barbara Jolley
University of South Florida

Session III 1:15 - 2:15 p.m. Grand Palm Room

1. *How peripheral substitutions affect porphyrin basicity*
Alfredo Lam, Fady Guigati and Dr. Maria Ballester
Nova Southeastern University
2. *Attitudes Towards Cultured Meat; Exploring Methods of Increasing Appeal* Kristopher Gasteratos, Ryne Sherman and Nicolas Brown
Florida Atlantic University
3. *Open Ocean Turbulence Characterization for Ocean Current Energy Applications* R. A. Komocs and J. H. VanZwieten
Florida Atlantic University
4. *Assessing Genetic Differentiation to Infer Invasion History of *Megabalanus coccopoma** Brittany Lebert and Dr. Eric Hoffman
University of Central Florida
5. *HOTAIR: the Role of long non-coding RNA Regulation in Breast Cancer* Sara Lohbauer, Talia Hammer, Brandon Ashley, and Dr. Lyndsay Rhodes, Ph.D.
Florida Gulf Coast University
6. *Issues with Industrial Specific ERP systems adoption*
Zachary McBride and Braydon Vaughan
Florida Gulf Coast University
7. *The Analysis of Carbon Biomass, Carbon Dioxide, and Survivorship of *Tenebrio molitor* Upon Digesting Polystyrene*
Tyler Gonzalez, Angela McTigue, Yvenord Mergilles, Rachel Pic and Catherine Wooster
New College of Florida
8. *Benefits of the Natural Assets Inventory of Arthropods on University of North Florida's Sawmill Slough Preserve*
Shawna Melby, Anthony Rossi, James Taylor, Justin Lemmons and Charles Hubbuch
University of North Florida
9. *Daedalus Balloon*
Kerlin Michel
Florida International University
10. *Developing a Parser to Structure Free-Text Qualitative Eligibility Criteria in Clinical Trials* Zhe He, Zhiwei Chen, Sarah Mixon, Florida State University, Juan Antonio Loss-Ventua and Jiang Bian,
University of Florida
11. *Numerical Simulation of a Moored Ocean Current Turbine using National Renewable Energy Laboratory Tools*
Travis Moscicki and James VanZwieten
Florida Atlantic University
12. *Modeling Factors that Influence Stay or Evacuate Behaviors in Coastal Citizens During Hurricanes*
Katrina Ellis, Sharanya Narayan, Kinjal Chheda and Bailey Whitmore
Florida Institute of Technology
13. *From Nazism to Amnesty: Redeeming the German People in the eyes of the British Public* Caroline Nickerson and Dr. Sheryl Kroen
University of Florida
14. *The Creation of Student Sustainability Initiatives to Reduce Food Waste* Catherine Ninah and Debra Reinhart
University of Central Florida
15. *It's Not Men or Women, It's Balance*
Heidi Obediente
University of Central Florida
16. *A Multidisciplinary Cross-College Effort to Develop a Smart Home Health System* Roxana M. Ohrniuc, Santiago Aguerrevere, Bidwell Cranage, Demetrius Dukes, Ohm Trivedi, Dr. Ravi Shankar, Florida Atlantic University and Jason Bodnick, ARC Devices
17. *Multi-Organ toxicity demonstration in a functional human in vitro system composed of four organs.* Carlota Oleaga, Andrea Lavado, Carlos Moran, Keisha Persaud and James Hickman
University of Central Florida
18. *TermMerge: Crowd-sourced word semantics*
Alastair Paragas and Nagarajan Prabhakar
Florida International University
19. *Grooming Behaviors of the Blue Crabs (*Callinectes sapidus*) & Stone Crabs (*Maniple mercenaria*)*
S. Pascual and J.L. Wortham
University of Tampa
20. *The Effects of Active Ingredients in Aerosol Sunscreen on Behavior in *Drosophila Melanogaster* Larvae*
Nicholas Pizzo and Tricia L. Meredith
Florida Atlantic University
21. *Associations between Hormone Concentrations and Inflammation Biomarker Levels in Young and Older Adults*
Robert D. Rainer, Donovan M. Ellis, Harold A. Rocha, Ian R. Frazier, Ronald A. Cohen and Natalie C. Ebner
University of Florida
22. *The Effect of Previous Economic Performance on Hispanic Voting at Future Presidential Elections* Bryce Redmond, Onur Basman, Monica Escaleras and Eric Levy
Florida Atlantic University
23. *Tropico: Limited Edition of Woodcut Portraits exploring socio-economic and gender role issues in our society.*
Ricder Ricardo and Sheila Goloborotko
University of North Florida
24. *How Did I Get Here? Selective Activation of Head Direction Cells* Jonathan Rivera, Joan C. Lora, M.S., Robert W. Stackman Jr., Ph.D.
Florida Atlantic University
25. *Habitat Preference of *Hippocampus erectus* Population in a Bahamian Achialine Lake* Breeann Roberts, Dr. Heather Mason-Jones, Dr. Emily Rose and Jessica Elson
University of Tampa

POSTER TITLES

26. *Who are we to judge? Assessing the impact of individual differences on false memory* Anesia Rolle and Dr. Katrina Ellis
Florida Institute of Technology
27. *Effects of Intermittent Fasting and Glucose Consumption on V1 Neuroplasticity During the Emergence of a Perceptual Bias* Adriana Sari, Andreas Keil, and students in the Fall 2016 course PSB4343C
University of Florida
28. *Control Over Functionality of Organosilanes in Conjunction of Surface Chemistry Techniques for Fabrication of More Advanced and Detailed Nanostructures* Joel M. Serrano, Thomas J. Mullen and Corey P. Causey
University of North Florida
29. *Differential Discrimination of Adulterants in Saffron Using Laboratory Techniques* Kelsey Sinclair and Sulekha Coticone
Florida Gulf Coast University
30. *The Development of Cancer Biology Training Curriculum for Community Health Workers based on a Systematic Review* Tyrese Taylor, Kimbel Bradley, Nicole Offer and Danyell Wilson
Bethune-Cookman University
31. *On the role of electrostatic interaction in cytoplasmic domain of Anabaena Sensory Rhodopsin [ASR] binding to its transducer* Renee Walker, Quincy Bedford and Vishwa Trivedi
Bethune-Cookman University
32. *Ethical Considerations In Research That Indirectly Addresses Suicide* Kelsey Weeks, Shana Sands, Dawn Witherspoon, Ph.D. and Maureen Black, Ph.D.
University of North Florida
33. *The effect of environmental levels of Naled on the biomass of the eastern oyster, Crassostrea virginica* Lucas Welch and Dr. Eric Johnson
University of South Florida
34. *Intraday Application of the Multifractal Model of Asset Returns* Yidong Zhang and Mahendrarajah Nimalendran, Ph.D.
University of Florida
35. *Factors that Influence Upward Social Mobility of those in the Section 8 Housing Choice Voucher Program* Jone Akins and Janis Prince, Ph.D.
St. Leo University
36. *Antimicrobial Properties of Moringa oleifera* Brieanna Chankersingh and Ashley Spring Ph.D.
Eastern Florida State College
37. *Inhibiting the Division of Pathogenic Bacteria Using Iron-Binding Glycoproteins* Mark Cherry, Troy Hart and Ashley Spring Ph.D.
Eastern Florida State College
38. *Investigating Protective Factors Against Suicide Attempts* Kirsten Christensen, Melanie Hom, M.S., Ian Stanley, M.S. and Thomas Joiner, Ph.D.
Florida State University
39. *Effectiveness of Ovotransferrin and Sodium Bicarbonate in the Inhibition of Bacterial Growth* Nicole Conde and Ashley Spring Ph.D.
Eastern Florida State College
40. *Sodium nitrite's dose-dependent inhibitory effects on Bac-roides Fragilis and Enterococcus faecalis* David Ha and Charles Brian Coughlin M.S.
University of North Florida
41. *The effect on temporary inactivation of the nucleus reuniens using chemogenetic methods on spatial working memory.* Kara J. Harris, Max E. Schreiber, Tatiana D. Viena, Stephanie B. Linley and Robert P. Vertes
Florida Atlantic University
42. *Determination of Luteolin and Apigenin Levels in Celery Leaves and Stalks* Kai Lister, Mukul Kanaujia, Veronica Mai and Frederick Troendle
University of North Florida
43. *Assessing Bias in the International Court of Justice* Dr. Marcus Meachum, Dr. Ryan Welch and Jaime Lopez
Florida State University
44. *Biometric Encryption Implemented on an FPGA for High Speed Security* Michael Bourg and Pramod Govindan
University of North Florida
45. *Induced Evolution in Danio rerio* Pierce Dillon, Rajesh Melaram and Ashley Spring Ph.D.
Eastern Florida State College
46. *A Histological Comparison of Ear Skin Regeneration in Acomys and Mus* Aaron Sandoval, Malcolm Maden and Jason Orr Brant
University of Florida
47. *Very Easy Transmittance of Staphylococcus epidermidis through MediChoice Non-Sterile Isolation Gowns* Abigail Schirmer, Renard Sessions, MD, Nikolaus Gravenstein, MD, Kenneth Rand, MD, Monika Oli, Ph.D. and Joshua Sappenfield, MD
University of Florida
48. *Prestige and Dominance Motivation as Predictors of Benign and Malicious Envy* Norrelle Walker, Lamika Jackson, Dominic Mercurio and Sarah E. Ainsworth
University of North Florida
49. *The Effect of Protic Ionic Liquids on the Catalysis of Histidine to Trans-Urocanic Acid by Histidine Ammonia Lyase* Charles H. Wallace, Kammie M. Conrad, Manuela Marin Salcedo, Michael D. King, Brandon Maier and Stephen T. Nestor
Florida Gulf Coast University
50. *The effects of intraspecific competition and parasitoidism on plant fitness of Bidens alba seeds* Fernando P. Ritzinger and Brian Inouye
Florida State University

51. *The Furious Road to Ozploitation: Examining the Culture Stereotypes within Mad Max: Fury Road* **Brandon Shepherd**
Eastern Florida State College
52. *Removal of Phosphate from Surface and Wastewater via Electrocoagulation* **Jabari Lee, Daniel Franco, Sebastian Arbelaez and Jong-Yeop Kim, Ph.D., P.E**
Florida Gulf Coast University
53. *Queer Images: Portraits*
Charles Pratt, Dr. Barclay Barrios and Sharon Hart
Florida Atlantic University
54. *Evolving Flight: Using Genetic Algorithms to compute Path Planning for UAVs.* **Vincent R. Ragusa and David Mathias**
Florida Southern College
55. *SEASkimmer: The Development of a Sustainable Environmental Accumulation Skimmerin Ordeto Extract Marine Pollution from a Variety of Geographical Locations*
Vithulan Suthakaran
Florida Atlantic University
56. *"She Barred the Door of Her Bedroom Forever": Amaranta's Virginity in One Hundred Years of Solitude*
Lynn Walsh and Dr. Grady Ballenger, Ph.D.
Stetson University
57. *Dancing in the Dark: The Conflict of Romantic and Sentimental Ideas in the Internet Apocalypse Trilogy*
Nykholas Quinones and Warren Jones
Eastern Florida State College
58. *Investigation of Metal Concentrations in Lake Worth Lagoon*
G. Garlaschi and T. Root
Florida Atlantic University
59. *Smartphone Application for Land-Mobile-Radio Signal Identification* **Tommy Owens and Brian Kopp**
University of North Florida
60. *Emotional and Political Resonance: Exploring Eligible Voter Perspectives in a Presidential Election Year*
Dr. Doug Schrock, Haley Gentile, M.S., Pierce Dignam, Benjamin Dodd-Arrow, Kristen Erichsen, Alexander Adams, Ryan Bausback and Vanessa Frias
Florida State University
61. *Developing an Image Recognition and Motor Control Algorithm for Controlling Pterois volitans' Population in South Florida*
Alexis Base
Florida Atlantic University
62. *Cybersecurity on cloud computing*
Mike Balazy and Krzysztof J. Krzyszczak
Florida Gulf Coast University
63. *International Student Transitioning: Creating Technological Solutions to Aid International Undergraduate Students in the United States* **Nayah Boucaud and Dr. Carole Beal**
University of Florida
64. *Adulthood in the 21st Century: Factors that Affect the Transition to Adulthood* **Caralin Branscum, Dr. Ann Branaman, Ashley Ostroot and Deborah Ford**
Florida Atlantic University
65. *Examining the Influence of Sensitivity to Punishment on Shame and Eating Disorder Symptomatology* **Alexandra Brockdorf and Pamela Keel, Ph.D.**
Florida State University
66. *Analysis of Masculinity in Super Bowl Commercials*
Kathryn Buday
Stetson University
67. *Investigating the Polyamine Transport System: A Pilot Assay*
Michael Dieffenbach and Laurence von Kalm
University of Central Florida
68. *Cetacean Melanopsins (OPN4): Molecular Characterization and Wavelength Modulation* **Regan F. Ewald, Lori Schweikert and Jeffry I. Fasick**
University of Tampa
69. *Reference transcriptome of the highly regenerative echinoderm Sclerodactyla briareus* **Andrew Faus, Olga Zueva, Jose E. Garcia-Arraras and Vladimir Mashanov**
University of North Florida
70. *Quantification of Microglia and Dopaminergic Neurons in the Substantia Nigra pars compacta and Ventral Tegmental Area.*
Cheyenne Henckel and Wolfgang J. Streit
University of Florida
71. *The Impact of Immigration on GDP per Capita in OECD Countries* **Spencer Hoge, Kami Richmond and Mark Moeller**
University of North Florida
72. *Meiofaunal Communities Differ Depending on Environmental Quality* **Cara Irwin and Ramona D. Smith-Burrell, Ph.D.**
Eastern Florida State College
73. *Stoichiometric Complex Oxide Thin Films Grown at the Atomic-LEGO Lab at UNF* **Caitlin Kengle and Dr. Maitri Warusawithana**
University of North Florida
74. *Heigh Ho to Let it Go: The Evolution of Gender Performance in Disney Princess Films* **Hayley Kessler, Breanna Dennes and Dr. Milton Wendland**
University of South Florida
75. *The Effect of Nighttime Zoo Events on Resident Spider Monkeys (Ateles geoffroyi)* **Jennifer Kramer, Tyler Tower and Darby Proctor, Ph.D.**
Florida Institute of Technology
76. *Life History Parameters of Sheepshead, Archosargus probatocephalus, within Tampa Bay* **Jessica L. Kumm and Bridgette Froeschke, Ph.D**
University of Tampa

POSTER TITLES

77. *Shark Survey: Friend or Foe*

Makayla Magielnicki and Tricia Meredith
Florida Atlantic University

78. *Deliberate Deception and Changes in Vocal Frequencies*

Anna Marie Mainiero and Joshua D. Halonen, Ph.D.
University of Tampa

79. *Officer Involved Vehicle Collisions: The Problem, Observations, and Recommendations*

Jean-Paul Martes and Marshall A. Jones
Florida Institute of Technology

80. *Deforestation and Charcoal: A Case Study of Environmental Justice in Rural Tanzania*

Mary Meade
Florida State University

81. *Impact of Activated Carbon Functional Groups on Water-Phase Mercury Capture*

Estenia Ortiz, Regina Rodriguez and Dr. David Mazyck
University of Florida

82. *Explicating the Electricity of eSports: Motivations for Play and Consumption*

Luis Puesan, University of North Florida, Dr. Brown and Dr. Andrew Billings,
University of Alabama

83. *Southeast Florida Summer Beach Morphology*

Madeline Rubio and Tiffany Roberts-Briggs
Florida Atlantic University

Session IV 3:30 - 4:30 p.m. Grand Palm Room

1. *Computer Simulation of Gene Expression and Regulation in the Lac Operon*

Brandon Saiz and Stephen Kucera
University of Tampa

2. *Determining Physical and Ecological Factors Affecting Abundances of Juvenile Indicator Species*

Adam Searles and Dr. Geoff Cook
University of Central Florida

3. *Protein replacement therapy to treat neuronal structural defects caused by mutation of the autism risk gene Pten*

Vanessa Walters, Florida Atlantic University and Ori Cohen and Damon Page, Scripps Research Institute, FL

4. *The Effect the per barrel price of West Texas Intermediate crude oil (WTI) has on annual U.S. Retail Sales*

Timothy N. Bohanon and Suzanne Wood
Florida Gulf Coast University

5. *Investigating Whether Religiosity Types are Predictive of Subjective Happiness and Life Satisfaction*

Christina DePietro and Travis Conradt, Ph.D.
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6. *Cloning, expression, purification of GST-ASRT [Anabaena Sensory Receptor Transducer] fusion chimera for binding assay.*

Dominique Hale and Vishwa Trivedi
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7. *Pathological stress in zebrafish hearts using extreme hypoxia exposure*

Gabriela Hernandez, Fabio Frech, Johan Sanchez and Brenda Schoffstall
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8. *Conflict Recurrence in Rwanda and Burundi*

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9. *Spectral Tuning of Rhodopsins from Tampa Bay Fish*

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10. *A Parent's Access to Information About Autism*

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11. *Pelvic Floor Muscle Training in Management of Postpartum Pelvic Floor Dysfunctions: A Literature Review*

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University of Central Florida

12. *Are things getting better or worse? A race and power perspective on police brutality in America*

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Florida Atlantic University

13. *Exploratory Assessment of Relationship between Masculinity and Substance Use in Young Adult and Adolescent Males*

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University of Central Florida

14. *Detection of Hydrophobic Contaminants in Liquids by Using Impedance Measurements*

Roshanak Gonzalez and Jorge H. Torres, M.D., Ph.D.
Florida Gulf Coast University

15. *Knowledge, Perceptions, and Prescribing Behaviors of Healthcare Providers Regarding HIV Testing and Pre-Exposure Prophylaxis (PrEP) in DeLand*

Brittani Janson, Ismode Lorjuste, Lindsay Summers and Dr. Laura Gunn
Stetson University

16. *Neurofibromatosis 1(NF1): Characterizing NF1 Germline mutations in NF1 patient*

Dr. Margaret Wallace and Dorie Josma
University of Florida

17. *Reducing Racial Bias Over Time Through Stereotype Training*

Kristan Palermo and Curtis Phill
University of North Florida

18. *Creating a Safe Space for the Celebration of Diversity through Key Chain Creations*

Gabriella Alqueza, Kalani David, Caitlin Burns, Brittney Carter and Carolyne Ali-Khan
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19. *Courtship Preference of Drosophila melanogaster and Drosophila simulans Hybrid Male*

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41. *Determining an Existing FDA-Approved Drug's Ability to Inhibit the Growth of Colon and Pancreatic Cancer*
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44. *Impact of Soil Microbes on Seed Viability and Germination of Native Grass and Forb Species* Junhwi Yoo, New College of Florida, Taylor Rohan, Claudia Stein, Scott Mangan, Washington University St. Louis
45. *Malicious Humorous Death: How the Edge of Tomorrow and ARQ Explore Death and Dying through Dark Comedy* Thomas Foster Eastern Florida State College
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51. *A Fast Bjorck-Pereyra-type algorithm for solving Complex-Vandermonde Systems* Austin Ogle, Jacky Qi Hang and Sirani Perera Embry Riddle Aeronautical University
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57. *Synthesis, structure, and sensing ability of a new lanthanide coordination polymer assembled from 2,2'-bithiophene-5,5'-dicarboxylate* Raul E. Ortega, Jeffrey Einkauf, Daniel T. de Lill, and Logesh Mathivathanan, Florida International University, Florida Atlantic University
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62. *Factors Predicting Specific Fears of Alzheimer's Disease* Mary Geary, New College of Florida and University of North Florida
63. *Applying the Human Capital Investment Model to Promote the Health of Transitioning Young Adults with Special Health Care Needs* Chanda Jones, University of North Florida and Rita Nathawad, M.D., University of Florida
64. *Loss of Neurofibromin During Development Increases Grooming in Drosophila* Chevara Joseph, Florida Atlantic University, Seth M. Tomchik, Ph.D. and Lanikea B. King, Ph.D., The Scripps Research Institute, Florida
65. *Conformity and Culture in 2016's Ghostbusters* Amanda Rogers Stetson University
66. *Quantum Dots Surface Modification with N-Acetyl Cysteine, Lysine, & Glucosamine* Zon Thwin, Valencia College, Tyler Maxwell and Swadeshmukul Santra, University of Central Florida
67. *"Let me think on it": An examination of mere thought, self-monitoring, belief consistency, and normative information.* Yancy Zacherl, Lyndsey Johnson and Dr. Christopher Leone University of North Florida
68. *Determining pKa of Ser70 and Lys73 in Wild Type B-Lactamase and the Catalytically Inactive E166A Mutant via Free Energy Simulations* Carolyn Dang, Wei Yang and Karen Corbett Florida State University

69. *Why you didn't get that job: A study on the effects of mere thought and self-monitoring on hiring decisions*
Robert Gargrave and Christopher Leone
University of North Florida

70. *Operation Restoration: Germination Ecology of Euphorbia deltoidea ssp. deltoidea* Jessica Hong and Dr. Hector Perez
University of Florida

72. *Electronic Dance Music Culture's Communication Transition Through Social Media in North America* Eden Shurman
University of North Florida

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University of Central Florida

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Harvard University

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John Baldwin and Shadman Kabir
Florida Atlantic University

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University of North Florida

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Minh Nguyen, Charles Nighswonger and Myeongsu Kim
Florida Atlantic University

78. *Nrf2 Deficiency Exacerbates Sensorimotor Deficit and Impairs Long-Term Functional Recovery after Ischemic Stroke*
Mary K Vollmer, Lei Liu, Yasmin Dweik, Matthew G. Weider, Victoria Fernandez and Sylvain Dore
University of Florida

79. *Gaming Assessment of Mastery & Expertise (GAME): Development of a scale to assess video game expertise*
A.Mabie, C. Salnaitis, D. Grainer, E. McNeely, R. Porzig, O. Chafin, E. Bartels and S. Burnham,
University of South Florida, St. Petersburg

80. *Understanding The Function of LBD AR Isoform in Castration Resistance Prostate Cancer*
Xzaviar Solone, Bethune-Cookman University, Sarine Markossian, Viacheslav Morozov and Alexander Ishov,
University of Florida

81. *Build-a-Bear...or... Build-a-Baby: Examining Transhumanism in Science Fiction from Gattaca to Star Trek: Into Darkness*
Sierra Zeiders and Warren Jones
Eastern Florida State College

82. *Superman's Dawn of Sociopathic Injustice: How the DSM's new criteria diagnoses Superman as a sociopath*
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Session I			
9:45 - 10:30a.m.	Student Union	Second	Sugar Palm, Palmetto Palm, Sago Palm, Queen Palm
	Conference Center (Student Activities Center)	First	Majestic A and B, House Chambers
	Student Support Services		SU-80, 132 SU-80, 206 SU-80, 223
Session II			
2:30 - 3:15p.m.	Student Union	Second	Sugar Palm, Palmetto Palm, Sago Palm, Queen Palm
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50 (SF)	ALEXANDER D. HENDERSON, CLASSROOM 2	31B (LO)	LIVE OAK PAVILION
26C (HS)	ALEXANDER D. HENDERSON, MEDIA CENTER	97 (CU)	LIVING ROOM THEATER IN CULTURE AND SOCIETY BUILDING
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76 (BK)	BOOKSTORE	77 (PV)	PAVILION - STUDENT SERVICES
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52 (AH)	DOROTHY F. SCHMIDT ARTS & HUMANITIES	43 (SB)	SEAN STEIN PAVILION IN COLLEGE OF BUSINESS
51 (PA)	DOROTHY F. SCHMIDT PERFORMING ARTS CENTER	78 (SR)	SOCCER FIELD RESTROOMS - GLADES ROAD
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49 (DP)	GLADYS DAVIS PAVILION - LEARNING ALLY	9 (AL)	UNIVERSITY THEATRE IN DOROTHY F. SCHMIDT COLLEGE OF ARTS & LETTERS
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