WELCOME TO FGCU!

We are proud and honored to welcome you - the very best student researchers from across the state of Florida – to Florida Gulf Coast University. Over the next two days, you are going to share insights, techniques, and ideas representing every possible discipline in academics. You will also have the opportunity to see what your peers are doing and how your collective efforts are helping to better inform each field and create a more just society. Your work adds not only to the discipline, it also provides the knowledge and evidence necessary to make improvements in our communities.

Even as a president, my roots are still faculty. In my work today I continue to draw upon my experiences as a teacher and researcher (in applied economics). My fondest memories include mentoring students and helping to support the next generation of academics and individuals who will use their research skills in industry and business. As much as you have learned and gained in your research experience, you have also benefited your faculty and your university.

Have a great FURC’ing time at the Florida Undergraduate Research Conference. Enjoy presenting your work, learning from others, and taking some time to explore our campus.

Go Eagles!
Mike Martin, President
Welcome to the 10th annual (and largest ever!) Florida Undergraduate Research Conference (FURC). You are participating in one of the nation’s largest multi-disciplinary research conferences for undergraduate students that has featured 2,558 student presentations since its inception. We are excited that you are here and look forward to celebrating the hard work and dedication that was necessary for you to reach the point of being ready to present your research. It is our hope that your FURC experience will benefit you in many ways, specifically:

- Improving your ability to explain your research in a clear and understandable way to a diverse audience.
- Making connections with students and faculty from other Florida colleges and universities.
- Receiving helpful feedback on your research.
- Acquiring valuable insights or tools for your future through the many professional development workshops offered.
- Learning amazing new things by speaking with other students about their research.
- Developing confidence in your ability to give a research presentation.

You may have heard an often repeated saying that “research not communicated is research not done.” By informing the broader community about your findings at FURC, you are accomplishing a vital step in your research process. However, I encourage you to also consider publishing your research, whether through a discipline-specific journal, a journal of undergraduate research, or the Journal of Multidisciplinary Research, which is creating a special issue for students who attend FURC (see page 46 in the program for more details).

In addition to organizing this conference, the Florida Undergraduate Research Association (FURA) hosts an annual meeting, called the Florida Statewide Symposium, for faculty and staff to learn about best practices in supporting undergraduate student research. FURA also organizes a brand-new annual event, Undergraduate Research Posters at the Capitol, for students to present their research to Florida Legislators in Tallahassee to advocate for the importance of student research as an educational practice that benefits our community. You can learn more about these events at www.FloridaUndergradResearch.org.

Like most things in life, you will get out of this conference what you put into it! I encourage you to approach your experience here with enthusiasm for learning, connecting, sharing, and growing, and I wish you the best in your future endeavors.

Sincerely, Eric Freundt, Ph.D. Chair, FURA
Friday, February 21

5:00 - 8:30 pm: Registration and Reception (Alico Arena)
7:30 - 8:15 pm: Keynote Speakers: Lyn Millner {Journalism} & Sharon Isern {Biology}

Saturday, February 22

7:30 - 8:30 am: Registration and Poster Drop-off (2nd floor of Cohen Center)
  ○ Breakfast served (Downstairs Lobby of Cohen Center)

8:30 - 9:30 am: Presentation Session I
  ○ Poster Presentations (Cohen Center Ballroom & 201)
  ○ Oral Presentations (Cohen Center 214 & 215)

9:45 - 10:50 am: Workshop Session I (Various Buildings)

10:45 - 11:45 am: Poster Session II
  ○ Poster Presentations (Cohen Center Ballroom & 201)
  ○ Oral Presentations (Cohen Center 214 & 215)

12:00 - 1:30 pm: Lunch (Outside of the Cohen Center)
1:45 - 2:45 pm: Poster Session III
  ○ Poster Presentations (Cohen Center Ballroom & 201)

3:00 - 3:45 pm: Workshop Session II (Various Buildings)
4:00 - 5:00 pm: Poster Session IV
  ○ Poster Presentations (Cohen Center Ballroom & 201)

5:00 pm: Mentor of the Year Award and Closing Remarks
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Disclaimer: all titles, abstracts, authors, and institutions are transcribed from their original abstract submission
**DINING OPTIONS**

1. **Gulf Coast Town Center**
   - Red Robin
   - Olive Garden
   - P.F. Chang’s
   - Outback Steakhouse
   - and more...

2. **Miromar Outlets**
   - Fords Garage
   - Naples Flatbread Kitchen and Bar
   - Aurelios Pizza
   - Subway
   - and more...

3. **University Village**
   - Mellow Mushrooms
   - Skillets
   - Get Fried
   - Tacos & Tequila Cantina
Your Audience is Bigger Than You Think: Using Writing and Visuals to Communicate Your Research

Lyn Millner and Sharon Isern

Lyn Millner
Professor Lyn Millner founded FGCU’s Journalism program. She is the author of “The Allure of Immortality: An American Cult, a Florida Swamp, and a Renegade Prophet.” The book was selected by the Wall Street Journal for its “Top Five Books on Cults.” Her radio stories have been broadcast on NPR’s Morning Edition and Weekend Edition, and on American Public Media’s Marketplace and Weekend America. Her print work has appeared in the New York Times, USA Today, the Oxford American magazine and others. Her specialties include writing for a mass audience, narrative journalism, editing and news literacy.

Sharon Isern
Dr. Sharon Isern is a professor (@profpathogen), an artist, and an actor who spends her days teaching and doing virus research with undergraduate students at Florida Gulf Coast University. She teaches Visual Science Communication, Cell Biology, Virology, and develops undergraduate research courses. She has published her research in Nature, Science, and Cell and her art was featured on the cover of Cell. She received her B.S. in Chemical Engineering from the Johns Hopkins University and her Ph.D. in Biochemistry from the University of Alabama at Birmingham. She conducted postdoctoral work at the University of Alabama at Birmingham and Tulane University. She has received research support from the National Institutes of Health, the National Science Foundation, the Department of Defense, and the US Department of Agriculture. Dr. Isern was a chartered member of the National Institutes of Health Vaccines Against Microbial Diseases Study Section and Course Director for the Howard Hughes Medical Institute Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science Program Phage Discovery Workshops.
Oral Presentations (8:30-9:30AM - Cohen Center 214 & 213)

--------------------------------------------- Cohen Center 214 ----------------------------------------------

8:30 - 8:45am
Franz Liszt's Mephisto Waltz - A Lecture Recital*
Arturo Fernandez, Florida Gulf Coast University

8:45 - 9:00am
West Side Story’s “Cool” as a Vehicle for Ideological Imposition in Cold War America*
Jamin Koster, Florida State University

9:00 - 9:15am
“The Town Cries”: Cultural Identity in the Songs of Rosa Mercedes, Lima (Peru)*
Paula Alva, Florida Gulf Coast University

8:00 - 8:10am
A Case for a Standard Elementary Math Education in Ancient Rome
Luis Sanchez, Florida State University

8:10 - 8:20am
Inmate Aggression: An In-Depth Study
Karina Polanco, Florida International University

8:20 - 8:30am
Impact of Work-Life Balance on Health-Related Quality of Life Among College Students
Emily Vernet, University of Central Florida

8:30 - 8:40am
Human Reasoning as Social Justification: Challenges to Traditional Epistemology
Jonathan Suarez, University of Florida

8:40 - 8:50am
Effect of mesenchymal stem cell application in a spinal cord injury in vivo model
Samuel Cockey, Esteban J Fiore, Guillermo D Mazzolini, Jorge B Aquino, Graciela L Mazzone, University of Florida

8:50 - 9:00am
Psychedelic Medicine and the Attenuation of Depressive Symptoms
Andrew Laino, University of Central Florida

* = performance
1. Sodium as a Biomarker of Breast Milk Production in Mothers of Critically Ill Infants
   Lauren Cervantes, Meikim Wong, Aileen Gonzalez, Leslie Parker, University of Florida

2. Flying Under the Radar: Tracking Trends and Parallels in the Illegal and Legal Wildlife Trades
   Bristol Rigby, Megan Rogers, Christina Romagosa, University of Florida

3. Mass Spectrometry Quantification of G12C Mutant KRAS in Lung Cancer
   Brandon Stone, John Koomen, University of Florida

   Corinne Martin, Dylans Casto, Katarina Saba, Daniel Moseley, Jacksonville University

5. Domestic Energy Usage in the United States
   Dallis Schaefer, Henderson DeLeon, Joshua Jean-Philippe, Hulya Yazici, Florida Gulf Coast University

6. Decellularization Strategies and Techniques for Pancreatic Ductal Adenocarcinoma Tumor Samples
   Maritza Rivera, Ketty Consuegra-Jimenez, Lyndsay Rhodes, Florida Gulf Coast University

7. The role of microtubules on the coalescence of viral RNA polymerase and effects on TMEV production
   Devon Grey, Eric Freundt, University of Tampa

8. An Examination of Oppression Via Anti-Abortion Legislation
   Saphronia Carson, Kenicia Wright, University of Central Florida

9. The role of GLP-1 producing neurons in regulating anxiety-like behaviors in transgenic mice
   Natalia Valderrama, Marie Holt, Linda Rinaman, Florida State University

10. So Fine A Set Of Men: The Influence Of Race Relations Between Civil War Soldiers And The Shift In PE
    Matthew Feiler, Kathrine Mooney, Florida State University

11. The Forgotten Voices of World War II: Narratives of the Home front from the Childhood Perspective
    Laina Lamb, Joanna Salapska-Gelleri, Florida Gulf Coast University

12. Chemistry GTAs' Perception of Cold Calling and Error Framing after Rehearsal in a Teaching Simulator
    Andrew J. Cheshire, Ashley A. Geraets, Constance M. Doty, Tong Wan, Jacquelyn J. Chini, Erin K. H. Saitta, University of Central Florida
13. Exploring Possible Routes to Queuosine Catabolism and Salvage
   Melody Sze, Maria Martinelli, Yifeng Yuan, Valerie de Crecy-Lagard, University of Florida

14. When Disasters Happen: An Analysis of Preparedness in the Occurrence of a Natural Disaster
   Anthony Washko, Ghazal Jabbar, Monica Escaleras, Florida Atlantic University

15. The Relationship Between Foster Care and Juvenile Delinquency
   Delaina Zerafa, Marshall Jones, Florida Institute of Technology

16. Can C-O infrared band help us understand the hydrogen bonding in alcohol-water mixtures?
   Calah Dietrich, Khalique Ahmed, Lynn University

17. Street Art as Activism: Migration and Border Politics in France
   Paris Gilstrap, Tenley Bick, Florida State University

18. The Influence of Healthy Eating Habits on the Academic Performance of University Students
   Bridget Forster, Sierra Brister, Peter Reuter, Florida Gulf Coast University

19. Constitutively active Rheb cloning strategy for co-transfection in neuronal cell lines
   Leticia Lenkiu, David Engel, Linda Gavric, Alex Balfour, Alicia Hawthorne, University of Central Florida

20. The Necessity of Divine Silence
   Daniel Riggins, Kyle Hodge, University of North Florida

21. Seawater Quality Monitor
   Nick Orlwein, Kenny Huffman, Festus Ogbaisi, Brandon Hilbert, Asa'ta Robinson, Emre Selvi, Jacksonville University

22. Design of a Mechatronic System to Improve a Simple Wind Tunnel
   Erik Peterson, Courtney Purcell, Andre Guaragna, Alfonso Garcia, Oghenewogaga Erikson, Emre Selvi, Jacksonville University

23. The Chemical Composition of a Star in the G21-22 Moving Group
   Mohammed Mourabit, Simon Schuler, University of Tampa

24. Assessing tolerance to amphetamine using C.elegans
   Dayana Torres Valladares, Sirisha Kudumala, Lucia Carvelli, Florida Atlantic University

25. Cryptocurrency: Money Without Borders
   Corey Luckenbill, Devin Aylward, Monica Escaleras, Florida Atlantic University

26. Examination of Amphimedon compressa as a Complex of Cryptic Sponge Species
   Deborah Olivier, Bobbie Renfro, Florida State University

27. Identifying Positive Selection in Various Human Adenovirus Proteins
   Claudia Rivera, Padmanabhan Mahadevan, University of Tampa

28. Enzymatic synthesis of thaxtomin analogs for agricultural and medical applications
   Sarah Hylton, Yousong Ding, University of Florida

29. Comparing Preschool Principals’ Initiatives for STEAM in Southwest Florida
   Leslie Gallegos, Izci Burcu, Florida Gulf Coast University
30. How does weapon loss influence mating behavior in the coreid Narnia femorata?
Emily Angelis, Ginny Greenway, Christine Miller, University of Florida

31. Globalization, Lifestyle patterns and Health in Developing Nations
Sarada Menon, Mehdi Zafar, University of Florida

32. Phytoremediation of Perchlorate
Jaxira Treminio, Lauren Redfern, Florida Gulf Coast University

33. Monopoly and Monopsony: Antitrust Injury, Standing, and Damages
Tirza Angerhofer, Roger Blair, University of Florida

34. Alcohol Abuse in the Zuni Pueblo
Kelly Rico, Debra Giambo, Florida Gulf Coast University

35. The Impact of Office Décor on Perceptions of Competence, Assertiveness, Likability, and Warmth
Phillipa Robertson-Burnett, Renee Pack, Leilani Goodmon, Florida Southern College

36. Controlling Regioselectivity of Polymerization in Silyl Ketenes using Computational Methods
Ian Baxter, Daniel Lambrecht, Florida Gulf Coast University

37. Is there an inequality between Male and Female Athletes?
Mohammad Islam, Cole Goldberg, Monica Escaleras, Florida Atlantic University

38. Memory T cell Regulation of Innate Lymphoid Cell Repair Proteins Following Influenza A virus.
Mate Nagy, Tara Strutt, University of Central Florida

39. The Effects of Kallosin and its unidentified byproduct on MCF-7 Breast Cancer Cells
Varad Gharat, Paul Scesa, Lyndon West, Florida Atlantic University

40. The effects of the sphragis on male and female genitalia in Acraea (Nymphalidae) butterflies
Shannon Summers, Ana P. S. Carvalhalo, Akito Y. Kawahara, Ana Carvalhalo, University of Florida

41. Prostate Cancer, Fatigue, and Exercise Intervention
Jin Lee, Anay Patel, Eunkyung Lee, University of Central Florida

42. Development of clinical salt-based compounds with improved solubility and bioavailability
Grace Anderson, Arsalan Mirjafari, Florida Gulf Coast University

43. The Institute for Justice Research: the Deferred Prosecution Program Guide
Vinchenzo assalotti, Antonella Maneiro, Antoinette Grier, Florida State University

44. The Societal of Drug Decriminalization
Madison Nguyen, University of North Florida

45. Analyzing the invasive and native plant ratios in seed dispersal of the Galapagos Giant Tortoise
Adrian Rodriguez, Jordan Davidson, Angie Ruiz, Susana Calero, Emily Porter, Florida SouthWestern State College
46. Identification of Toxic Metabolites Produced by Batrachochytrium dendrobatidis Fungus
Lyndsey Moore, Christine Theodore, University of Tampa

47. Effects of plant essential oils against the pathogenic fungus Aspergillus fumigatus
Matthew Brown, Yainitza ernandez-Rodriguez, Florida Gulf Coast University

Laurie Agosto, Nikhil Bose, Sean Moore, University of Central Florida

49. Healthy Moms Mean Healthy Babies: The Role of Maternal Body Mass Index on Infant Feeding Practices
Katherynn Pledger, Jessica Bahorski, Florida State University

50. Cultural Constructs and the Effects on Hispanic Depression
Nicole Wrheeler, Kathryn Glandorf, Robin White, University of Tampa

51. Does Hair Coloring Pose Higher Breast Cancer Risks for Black Women: A Content Analysis of News Media
Ashlyn Denson, William Berry, Bethune-Cookman University

Henry Silva Quevedo, Hashem Izadi Moud, Florida Gulf Coast University

53. The purpose of this study is to record and monitor damaging influences on Thalassia testudium.
Caleb Phillips, Rhonda Rye, Eastern Florida State College

54. Hybridization light-up probes for prediction of nucleic acid base-pairing
Mary Gomez, Adam Reed, Yulia Gerasimova, University of Central Florida

55. Are Planarian flatworm regeneration rates affected by light?
Anden Velez, Molly Reilly, Cassandra Korte, Lynn University

56. How Free is "Free"? : Restrictive Agency and Optimism
Mel Tornin, Grace White, University of Central Florida

57. Loneliness and its Effects on Interpretation and Attribution of Meaning in Emojis
Kaitlin Higby, Kendahl Krause, Dishanki Savla, Daniel McConnell, Janan Smither, Fernando Montalvo, University of Central Florida

58. Malarial Proteins Interaction With The Cell Surface Receptor Siglec-9
Sawdah Ali, Jordan Merritt, Andrew Oleinikov, Florida Atlantic University

59. Religious Conflict and Sexual Identity Among LGBT Adults
Alana Innerbichler, Mandi Barringer, University of North Florida

60. Metric and non-metric ancestry evaluation analysis of the craniofacial region in Greek-Cypriots
Madyson Stephenson, Xenia Kyriakou, Florida Gulf Coast University

61. Assessment of Microbial presence on Waterpipe Tobacco Machines
Frederic Montz, Mary Martinasek, Kimberly Dobrinski, University of Tampa
62. Novel non-radioactive in vitro phosphorylation assay of recombinant STKinase using azidoethyl ATP
   Nairat Ahmed, Aakriti Gautam, Tracey Matthie, Vishwa Trivedi, Bethune-Cookman University

63. Drug Delivery in Tissue-Engineered Vascular Grafts
   Brittany Lemke, Florida State University

64. Cooperativity and Competition in Binding of Heterocyclic Diamidines and RNA Polymerases to PHIX174
   Nidiathamayra Rodriguez, Stephen Winkle, Florida International University

65. Girl, What Shade is That? Phthalates?
   Tara Lunsford, Joshua Noreiga, Erika Doctor, Lynn University

66. Effect Of A 21-Day Well-Formulated Ketogenic Diet On Cardiovascular Health Markers In Women
   Martin Barragan, Heather Hausenblas, Ashlyn Knight, Terrance Orange, Abby Remenapp, Kevin Coyle, Tarah Lynch, Carena Winters, Catherine Saenz, Jacksonville University

67. Shinrin-Yoku (forest bathing)
   Delaney Plunkett, Ginger Sheridan, Jacksonville University

68. West Side Story’s “Cool” as a Vehicle for Ideological Imposition in Cold War America
   Jamin Koster, Jen Atkins, Florida State University

69. Comparing Geometric Definitions of Stacking in RNA Dinucleotides Through Molecular Dynamics Studies
   Ivan Riveros, Ilyas Yildirim, Florida Atlantic University

70. MicroRNAs as Potential Bio-Markers in Feline Kidney Disease
   Taylor Bateman, Amy Bohan, South Florida State College

71. Does Screen Time Affect the Academic Performance of University Students?
   Alexandra Smith, Arianna Turello, Peter Reuter, Florida Gulf Coast University

72. Aspergillosis Prevalence in Sea Fans and Pathogen Presence in the Adjacent Water Column
   Stephanie Walker, Michael Slattery, University of Tampa

73. The Role of Religiosity, Gender and Economic Self Interest in Shaping Refugee Policy Opinion
   Caroline Howard, Mandi Barringer, University of North Florida

74. An Alternate Feminist View of James Joyce’s Portrayal of Women
   Olivia Parsley, Kathleen Ochshorn, University of Tampa

75. Optimization of a Histidine Dependent RNA-cleaving Deoxyribozyme
   Liam Canning, Adam Reed, Collin Campbell, Yulia Gerasimova, University of Central Florida

76. Examining the Neural Activity of Self-Monitoring Using fNIRS
   Ambriel Cohen, Paul Fuglestad, Katherine Hooper, Isabel Suazo, Lauren Toledo, Christopher Leone, University of North Florida

77. Inhibition of Drosophila Oogenesis using Nanoparticles
   Kirsten Bouck, Laurence von Kalm, University of Central Florida
78. The Effects of Agrochemical 2,4-D on Aedes Aegypti Life History Traits
Muhammad Parupia, Alexandra Aybar, Kenneth Fedorka, University of Central Florida

79. Utilization of Unmanned Aircraft Systems During Natural Disaster Relief
Maria Ramsey, Victoria Malec, Ross Stephenson, Jacksonville University

80. Is There a Link Between Olfactory Input and Whole-Body Metabolism?
Jessica Folsom, Destinee Gatlin, Brandon Chalette, Debra Fadool, Florida State University

81. Plant essential oil Cinnamomum cassia inhibits the growth of the human pathogen Aspergillus fumigatus
Bryan Alvarez, Naysha Vega-Almodóvar, Yainitza Hernandez-Rodriguez, Florida Gulf Coast University

82. In vivo characterization of miR-299-3p in Prostate Cancer Xenograft Animal Models
Stephen Staklinski, Ratna Chakrabarti, University of Central Florida

83. What Factors Are Significant Predictors for Student Math Achievement? Are There Gender Differences?
Sasha Campbell, Colleen Ganley, Florida State University

84. Assessing Carbon Sequestration Potential and Economic Value of the Natural Areas at FGCU
Kiah St. Onge-Yergi, Brian Bovard, Florida Gulf Coast University

85. Progress towards novel vinylogous reactivity of cyclopentenones
Rachel Lee, Gregory Boyce, Florida Gulf Coast University

86. Domestic Violence & Sexual Assault in Paradise: Media Coverage of crime in the U. S. Virgin Islands
Loron Robles, Salvador Victor, Bethune-Cookman University

87. Manganese uptake is essential for the fitness of oral pathogen Streptococcus mutants
Eshani Shah, Jessica Kajfasz, Jonathan Vargas, Jacqueline Abranches, José Lemos, University of Florida

88. How Do Sexually Transmitted Infections Change Attitudes Towards Casual Sex among College Students?
Lesley Cruz, Daniela Aladro, Helen Morales, Nathan Pipitone, Florida Gulf Coast University

89. The Role of dSLC12A8 in Polyamine Transport
Victoria Millington, Laurence von Kalm, University of Central Florida

90. Rain, Rain, Go Away: Identifying Wet and Dry Regions Near Tallahassee and in the Southeast US
Graham O'Donnell, Jon Ahlquist, Florida State University
91. Effects of various concentrations of KCL on germination and growth rates of Lens culinaris (Lentil)
   Ricardo Torres, Eunice Laurent, Valencia College

92. An interdisciplinary examination of student personality and preferences for experiential engagement
   Marianna Pagan, Bryan Schaffer, Florida Gulf Coast University

93. How Prepared are Faculty to Teach in a Synchronous Online Format?
   Caldeira Ripine, Enilda Romero-Hall, University of Tampa

94. Violence Risk Communication and Juror Perception
   Desiree DeLuca, Marshall Jones, Florida Institute of Technology

95. Anti-Cancer Properties Associated to Carvacrol: A Plant-Derived Bioactive Molecule
   Chloe Brown, Christopher Hickey, Belle Pierre, Cidya Grant, Palm Beach Atlantic University

96. A Meta-Analysis of Applications of Augmented Cognition in Cyber Defense Training
   Andres Rosero, Corey Walton, Ryan Wohleber, University of Central Florida

97. The use of Staphylococcus aureus and MRSA as an indicator of human pollution in Tampa Bay
   Hayley Kudzmas, Ella Hampson, Shannon Twyman, Bridgette Froeschke, University of Tampa

98. Methionine sulfoxide reductase homologs in gram-positive bacteria and hyperthermophilic archaear
   Hasin Sharma, Joshua Corbilla, Zachary Adams, Julie Maupin, University of Florida

99. Triangles Galore: Unanswered Questions from an Alternate Reality Game
   Alyssa Girod, Erika Ward, Jacksonville University

100. The Effects of Pendimethalin on Aedes Aegypti Immune Function and its Ability to Vector Diseases
    Dania Rodriguez, Kassady Perkinson, Anamaria Perez, Kenneth Fedorka, University of Central Florida

101. Impact of a brief web-based anxiety sensitivity intervention on alcohol use outcomes
     Cameron Matoska, Christopher Zappi, Danielle Morabito, Thomas Preston, Norman Schmidt, Florida State University

102. An auditory system with two-celled ears discriminates between mate and predator
     Nila Lumpuy, Doris Cruz, Frank Coro, Miami Dade College

103. Neural predictors of cognitively-demanding walking performance in young and older adults
     Justin Geraghty, Kathleen Hupfeld, Rachel Seidler, University of Florida

104. Enhancing Autonomous Motivation for Exercise in an Elderly Population, a Pilot Study
     Kalimah Small, Anamaria Astudillo, Wesly Simon, Blanca Palomino, Ricardo Gonzalez, Renata Pavanelli, Michael Perlett, Jason Kostrna, Florida International University
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<td>Inhibition of Amyloid Beta Aggregation by Protein Disulfide Isomerase</td>
<td>Jasmina Kovacevic, Haley Lehew, Baggio Evangelista, Ken Teter</td>
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<td>Exploring the factors contributing to small cell lung cancer progression</td>
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<td>Is there a Relationship Between GDP, Personal Income and Birth Rates in US?</td>
<td>Macie Ryan, Vanina Speciale, Hulya Yazici</td>
<td>Florida Gulf Coast University</td>
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<td>Caelyn Gessler, Mahmood Algafly, Ross Stephenson</td>
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<td>Investigating the Role of an Organizational Model on the Extracurricular Involvement of Students with Intellectual Disabilities</td>
<td>Caroline Hobson, Taylor Duffy, Andrea Doster, Carley Blades</td>
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<td>Emily Marcus, L.D. Duke, Brian Bovard</td>
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<td>China's Belt and Road Initiative and its Effects on International Support for Human Rights</td>
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Professional Development Workshops (9:45-10:30AM - Sugden Hall)

Room 110
Getting Good Letters of Recommendation
Aubrey Kuperman, University of Central Florida

Letters of recommendation are a requirement for graduate school and professional schools, scholarships, internships, summer research experience, and sometimes the job search. Learn more about when and how to ask for letters of recommendation, and how to follow up with those who write them for you.

Room 111
From Resume to CV: Planning your Research Roadmap
Tyler Campbell, University of Central Florida

Need a CV or Research Resume for Graduate School or other applications? This workshop will help you think about the elements of a CV or academic resume, how to frame them, and how to best utilize the time left in your undergraduate program to develop a spectacular CV or Resume for applying to whatever comes next.

Room 115
Graduate Fellowship Applications - Promoting Yourself and Your Ideas
Daniel Lambrecht, Florida Gulf Coast University

This workshop will provide an overview to graduate fellowship applications. Specifically, students will learn about the National Science Foundation’s Graduate Research Fellowship Program (NSF GRFP). The workshop will provide answers to common questions such as “Why should I apply to fellowships?”, “How do I identify a strong scientific idea?”, “How do I write a strong application package?”,”When should I start?”, and discuss some of the specific requirements and perks of the NSF GRFP. Students will discuss 1-2 short sample applications to identify examples of strong versus weak application strategies. Tips for successful applications will be discussed and students will be pointed at additional resources for fellowship application writing.

Room 240
Understanding the Purpose and Structure of Literature Reviews
Mary Tripp, University of Central Florida

Reading and writing literature reviews is an important aspect of research. Students must read literature in their fields before engaging in productive research, and at the end of the research process, are often expected to publish about their research. Literature reviews are very specialized forms of writing. Therefore, helping students understand the purpose and structure of literature reviews will help them prepare for research and publishing. Following the CARS model, I will help students see the purpose, function, and structure of a typical literature review. The CARS model, developed by John Swales, distills the essential moves in all literature reviews. Showing examples of literature reviews from various disciplines, students will begin to recognize these moves. In addition, a literature review matrix tool will help students write their own literature reviews by synthesizing sources and recognizing larger themes across multiple articles.
WORKSHOP SESSION I

Professional Development Workshops (9:45-10:30AM - Whitaker Hall)

Room 101
From Bureaucracy to Research Ethics: How to use IRB and IACUC proposals to your benefit
Charles Gunnels, Florida Gulf Coast University

Just like eating boiled Brussels sprouts, we sometimes have to do something that on the surface seems unpleasant and burdensome but can provide value. This perspective is how many of us confront the Internal Review Board (IRB) and Institutional Animal Care and Use Committee (IACUC) ethically review process. In research, we must conduct our work in both an ethical and responsible manner. As a result, we are required to submit IRB and/or IACUC proposals to a review board any time that we want to research human or vertebrate test subjects. In this session, we will learn a little about the history of these ethical review boards, discuss strategies that can make this a beneficial process, and consider how to respond to questions and revisions. Time permitting, we will also address some inherent limitations in IRB and IACUC that you may want to consider in your future endeavors.

Room 103
Setbacks and Comebacks – Navigating Your Path to Success after Hitting the Roadblocks
John Williams, Albany State University

In a perfect world, every student would matriculate seamlessly through an undergraduate program, and would leave fully prepared for graduate education. However, for many students, the path to graduation may contain setbacks that can discourage or derail their initial goals. In the sciences, navigating these setbacks is particularly crucial, as many post-graduate career plans are structured based on undergraduate performance. This session is designed to provide students with clear strategies that can be implemented to address roadblocks, such as poor grades, financial issues, or personal issues that may have interrupted matriculation. Additionally, this session will provide students with strategies for using these events as tools for self-reflection and self-improvement.

Room 104
Summer Off-Campus Research Experiences
Kimberly Schneider, 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 numerous 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 December 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.

Professional Development Workshops (9:45-10:30AM - Edwards Hall)

Room 112
How Undergraduate Research Helped My Professional Career
Derek Lura, Florida Gulf Coast University

This workshop will feature a panel of FGCU Alumni who went into industry after working on undergraduate research projects. The panel will discuss the impact of undergraduate research on their careers, and how it affected their ability to find jobs after graduating.
Room 100
Playing to Your Strengths
Jennifer Moses, University of Florida

This interactive workshop is designed to help students discover their strengths and to learn how they can use them strategically in relationships with others. Students will participate in a hands-on activity to help them identify their behavioral style and learn how this affects interactions with others. When we are able to identify and use our strengths we are better able to make positive changes within our lives. Strengths identified can be put into play in all situations that students may be facing, and these small changes can have an impactful difference in the outcome. Students are in constant contact with people of different styles, knowing their strengths can help them navigate these differences. Students will be able to use this interactive workshop experience to determine their strengths, identify relationship strategies, and learn how to be flexible in any environment.

Room 200
Pharmacy School Applications 101
Manny Rubrio, Belmont University - College of Pharmacy

How to construct a well balanced application that will catch the eye of admission committees wherever you choose to apply.

Professional Development Workshops (9:45-10:30AM - Seidler Hall)

Room 114
I graduated: now what? Applying for and working with governmental agencies
Matthew Eicholtz, Florida Southern College

Would you like helpful information and strategies to better navigate the Federal hiring process or information on what it is like to work for a governmental agency? Join Dr. April Watson for a review of application process for governmental jobs, subcontracting, as well as working with various governmental agencies. You will learn practical tips and guidance on searching and applying for Federal jobs and internships. Dr. Watson will share her first-hand knowledge of the governmental job field including county, state, and federal legal aspects, and provide a review of CV tips and strategies.
Oral Presentations (10:45-11:45AM - Cohen Center 214 & 213)

--------------------------------------------- Cohen Center 214 ---------------------------------------------

10:45 - 11:00am
Improving Tarsus Alignment by Strengthening Hip Musculature in University Dancers*
Casey Copeland, Florida State University

11:00 - 11:15am
A Comparative Examination of the Oeuvre of Raymond Pettibon*
Hailey Thrasher, Jacksonville University

11:20 - 11:30am
WiFi routers, power plants, and memes: an explanation of (t,r) broadcast domination
Tom Shlomi, Florida Gulf Coast University

--------------------------------------------- Cohen Center 213 ---------------------------------------------

10:45 - 10:55am
Intergroup contact and social change: The crucial role of perceived antiprejudice of White friends in shaping minorities’ collective action intentions
Imani Lewis, Florida State University

10:55 - 11:05am
The Shoe Fits: Cinderella and Women's Voice
Farrah Kurronen, University of Central Florida

11:05 - 11:15am
Borrowing Time: The Classical Tradition in the Poetic Theories of T. S. Eliot and Ezra Pound
Nicholas Odom, University of Central Florida

11:15 - 11:25am
The Role of Workplace Distribution on Dengue Dynamics in the Yucatan: A Modeling Approach
Dianela Perdomo, Thomas Hladish, Kok Ben Toh, Sanjana Barhava, University of Florida

11:25 - 11:35am
The Mafiosi en la dolce Vita
Gabriela Lovera, Jacksonville University

11:35 - 11:45am
Breaking the Glass Ceiling: Political Parity and Gender Equality in the Middle East
Selina Nevin, Florida State University

* = performance
1. Solar-Photon Sail Analysis: Incorporating tensile properties in the figure of merit
   Morgan Barkhurst, Derek Buzasi, Florida Gulf Coast University

2. Evaluation of Novel Interpretative Signage in a College Campus Pollinator Garden
   Max Aaronson, Maria Asad, Brian Ogle, Beacon College

3. Representations of the Cuntz Algebra Associated to Random Walks
   Nicholas Christoffersen, Dorin Dutkay, University of Central Florida

4. False Confessions and Intellectual Disabilities
   Samara Gallion, Marshall Jones, Florida Institute of Technology

5. Alienating the Alien
   Prema Dayal, Tanvi Vaidya, Monica Escaleras, Florida Atlantic University

6. Empowering the Planet: How the Empowerment of Women and Girls is Vital to Innovation
   Elsa Ingwersen, Taryne Taylor, Embry-Riddle Aeronautical University

7. Plant essential oil Cinnamomum cassia inhibits the growth of filamentous fungus Aspergillus nidulans
   Jake Goguen, Yainitza Hernández-Rodríguez, Jesse Beacker, Florida Gulf Coast University

8. Development of Electrospray for Applications in Nanotechnology
   Shannon O’Connor, Sahil Ghate, Riley Flanagan, Christopher Rivera, John Veracka, Foram Madiyar, Embry-Riddle Aeronautical University

9. Fight or Flight: the inequalities and effects of travel between the NBA and the WNBA
   William Webb, Samantha Kaye, Randall Croom, Stetson University

10. Recycling Behaviors at the University of Florida: Strategies versus Consumer Tactics
    Yian Wu, Susan Gillespie, University of Florida

11. Impact of Virtual Reality on False Memories
    Gabriela Gonzalez, Daniel McConnell, University of Central Florida

12. Melodies of Mirages: Exoticism, Folklore, and "Performing" Santeria
    Elias Larralde, Robinson Herrera, Florida State University

13. Development of an activatable fluorescent probe for imaging cellular senescence
    Joyce Jiang, Jun Liu, Chao Cui, Lina Cui, University of Florida
15. Water Level Response Time After Rain Events in Stormwater Ponds on the FGCU Campus, Fort Myers FL
   Kayla Hickey, Madison Mullen, L D Duke, Florida Gulf Coast University

16. Synthesis of N-heterocyclic carbene based palladium catalysts for optimized C-C coupling reactions
   Jennii Burrell, Aaron Cagle, Daniel Paull, Florida Gulf Coast University

17. Spatial Distribution of a Bahamian Population of the Lined Seahorse, Hippocampus erectus
   Jessica Elson, Heather Masonjones, University of Tampa

18. The Relationship between Moral Injury and PTSD in Suicide Attempt Survivors
   Savannah Woller, Joseph Boffa, Norman Schmidt, Florida State University

19. How Industry 4.0 will affect the future and the security of healthcare as a critical infrastructure?
   Ashley Newsome, Ayush Enkhtaivan, Miloslava Plachkinova, University of Tampa

   Sean Hinkle, Janan Smither, University of Central Florida

21. 3D Printing Large-Scale Homes
   Ellie Cooke, Hasheem Moud, Florida Gulf Coast University

22. Elucidating the Fate of the Cytolethal Distending Toxin "A" Subunit After Cell Binding
   Nalysha Torres Mangual, Ken Teter, University of Central Florida

23. #Depressed: Social Media & the Romanticizing of Mental Illness
   Alyce Rogers, Brittany Barron, Florida State University

24. The 54th Massachusetts at Olustee: An Exposition of Valor
   Bradley Paxton, Jeffrey Fortney, Florida Gulf Coast University

25. Semiotic Suits: Gender Performance in the Furry Fandom
   Michael Hintz, Max Stein, Florida Gulf Coast University

26. Metal Analysis of Submerged Aquatic Vegetation in the Lower St. Johns River
   Ksenja Llazar, Gretchen Bielmyer-Fraser, Jacksonville University

27. Identification of novel protein-protein interactions in the human oral cavity
   Dominika Burbul, Bernadett Papp, University of Florida

28. Host Characteristics Impact Reproductive Success of the Symbiotic Shrimp Neopontonides beaufortensis
   Mary Schuiteboer, Griffin Baughn, Louis Ambrosio, University of Tampa

29. Comparing the PEACE Model of Interrogation and Reid Technique
   Natalie Buczek, Marshall Jones, Florida Institute of Technology

30. The function of highly expressed miRNA in Tumor Associated Stroma and Pancreatic Cancer
   Gerik Alemán-Tushoski, Song Han, Steven Hughes, University of Florida
   Atilla Sulker, Randall Holcombe, Florida State University

32. Adverse Childhood Experiences, Sensation Seeking, and Substance Abuse Among College Students  
   Jenna Russo, Rachel Fidel, Javier Molina, Kimberly Renk, University of Central Florida

33. The Effect of Natural and Human Development Tidal Restriction on Mangrove Seedlings  
   Paola Reyes-Serrano, Paola Reyes-Serrano, José Rivera-Lugo, Edwin Everham III, Florida Gulf Coast University

34. The Extraction of Glitter and Shimmer from Cosmetics for Subsequent Instrumental Analysis  
   Velda Iskandar, Kandyss Najjar, Candice Bridge, University of Central Florida

35. What Are Argentinean Public Schools Teaching Their Students About Citizenship Education?  
   Lewis Rincon Castano, Tony Lin, University of Central Florida

36. Searching for Evidence of Endocrine Distruption in Local Aquatic Systems Using Mosquito Fish  
   Antonio Nickel, Brooke Hollan, Ashley Marston, Cierra Canty, John Tracey, Bradley LaVecchia, Nora Demers, Florida Gulf Coast University

37. Creativity and Collaboration: The Relationship of Fact and Fiction in Personal Writing  
   Rachel Casey, Kevin Roozen, University of Central Florida

38. Using fNIRS to Measure Emotional Processing Following Mindful Meditation  
   Jesse Macyczko, Cassandra Rosenberg, Amber Wengert, Katherine Hooper, University of North Florida

39. Exploring the therapeutic potential of novel marine compounds and VLDR in prostate cancer  
   Joubin Jebelli, Davian Caraballo, Mariana Acevedo, Lyndon West, Florida Atlantic University

40. Quantitative Survey and Classification of Macro Beach Debris in Volusia County, Florida  
   Alexandra France, Thea Sudeall, Yungkul Kim, Bethune-Cookman University

41. Application of Brevetoxin in Coastal Marine Sediments as a Proxy for Historic Red Tide Events  
   James Javaruski, Puspa Adhikari, Jo Muller, Florida Gulf Coast University

42. Ubiquitin C-terminal Hydrolase-L1: A Diagnostic Neurobiomarker for Traumatic Brain Injury  
   Gabrielle Johnson, Sunny Yang, University of Florida
43. Qualia Re-Quined
   Stephen Houchins, Hans-Herbert Kögler,
   University of North Florida

44. Great White Shark Predation Zone
    Identification with Unmanned Aircraft
    Systems
   Carlin Kelly, Marcus Shields, Matthew Kimball, Ross Stephenson, Jacksonville University

45. Effect of Water Reducing Admixtures
    and Construction Variability in Concrete
    Containing RCA
   Joshua Vanadore, Claude Villiers, Florida Gulf Coast University

46. Long-Term Outcomes of Neonatal Herpes
    Simplex Virus Infection and Treatment
   Genesis Brador, Humberto López Castillo, University of Central Florida

47. Nonverbal Synchrony between Dyads as
    a Function of Protective versus Acquisitive
    Self-Monitoring
   Taylor Santioni, Klebener Sophia, Leone Christopher, Kantor Arielle, Moulder Robert, University of North Florida

48. Face Memory in Diverse Spaces
   Michelle Mooney, Olivia Terranova, Nia Dyson, Lauren Sass, Adelina Primavera, Benjamin Marsh, University of Tampa

49. Timescales of Global Tidal Flooding
   Maria Bower, Thomas Wahl, University of Central Florida

50. Assessing the perceptions and visitor outcomes of cheetahs used as ambassador animals
   Nick Nelson, Brian Ogle, Beacon College

51. What's Wrong With the Way I Look? I Have a Brain Too; Media Portrayals of the Disabled Community
   JaCorey George, William Berry, Bethune-Cookman University

52. Taxonomic Investigation of Arthropods and their Endosymbionts Using Gene Sequence Analysis
   Daisy Morrison, Corey Brookes, Jason Cantwell, Jennifer Garcia, Carolina Millan, Gilda Reyes, Jennifer Bess, John Whitlock, David Wingfield, Hillsborough Community College

53. Charting the Resiliency Pathway of Youth of Minority Descent
   Denise Martinez, Florida State University

54. Association between adherence to WCRF/AICR cancer prevention guidelines & cancer antigen level
   Vanessa Kady, Omar Ragab, Eunkyung Lee, University of Central Florida

55. Australian and New Zealand ANZACs of World War I: Public Memory and the Making of National Identity
   Simran Pawar, Amelia Lyons, University of Central Florida

56. Electro Optic Polymers: Preparation and Characterization Techniques
   Andrew Phillips, Wei Zhang, Kaitlyn Crawford, University of Central Florida

57. Edna O’Brien and the Rejection of Conformity
   Jordan Huden, Kathleen Ochshorn, University of Tampa

58. Back to the Drawing Board: Self-Created Content and Visual Learning
   Chloe Kindell, Leilani Goodmon, Florida Southern College
59. Modeling and Quantifying Vascular Structures in Pulmonary Arterial Hypertension Induced Rat Lungs
   Siri Ravuri, Walter O’Dell, Shruti Siva Kumar, R James White, Deborah Haight, University of Florida

60. The Relationship Between SSR and Suicide Attempts Explained by Capability for Suicide
   Katie Sinsko, Naomi Lebhar, Austin Gallyer, Florida State University

61. Cryptic coloration in the symbiotic shrimp Neopononides beaufortensis: limitation or benefit?
   Griffin Baughn, Mary Schuiteboer, John Ambrosio, University of Tampa

62. Enabling structure elucidation for polyglutamine peptides causing neurodegenerative diseases
   Melissa Chen, Cassandra Blanco, Daniel Lambrecht, Florida Gulf Coast University

63. Use Of Brn3a-LacZ Reporter Mice To Study Sensory Neuron Innervation In Familial Dysautonomia Model
   Isabel Silva, Ioannis Dragatsis, University of Central Florida

64. Network resilience in a brain network for birdsong
   Kerrianna Jadunandan, Frank Johnson, Derrick Shaughnessy, Florida State University

65. Characterization of The Floral Meristem Identity gene LEAFY in Melaleuca quinquenervia
   Rodrigo Tomas, Shawn Brunelle, Marilyn Cruz-Alvarez, Florida Gulf Coast University

67. Text Mining of Public Comments on Power Restoration in Florida after Hurricane Irma
   Nathalie Crespo, Anna Koufakou, Florida Gulf Coast University

68. Observation of Retinal Cells Due to Effects of Microgravity
   Carl Corgelas Corgelas, Sherri Emer, Florida Gulf Coast University

69. Identification of Genes Involved in Drought Tolerance of Ball Moss (Tillandsia recurvata)
   Arianna Smith, Takashi Ueda, Florida Gulf Coast University

70. The Level of Importance of L1 in L3 Acquisition
   Lauren Wilenski, Andrew DeMil, University of Tampa

71. Understanding Medical Error in Surgical Stapler Use: A Philosophical and Scientific Analysis
   Jacob Howard, Luciana Garbayo, University of Central Florida

72. Implementation of YOLOv3 to Detect Split Fruit in Images of mandarin Orange Trees
   Quinlan Harsch, Matthew Eicholtz, Florida Southern College

73. Water Energy Food Nexus
   Alisha Perez, Maximilian Honigfort, Amy He, Kaylei Kambak, Seneshaw Tsegaye, Florida Gulf Coast University

74. Varying Incomes, Varying Overpopulation Perceptions
   Lisa Campion, Monica Escaleras, Paloma Rossano, Florida Atlantic University
75. Novel reactions utilizing vitamin B6
   Marie Bozor, Gregory Boyce, Florida Gulf Coast University

76. Analysis of Axolotl Homologs for Proteins Implicated in Human Neurodegenerative Proteinopathies
   Lucas James, Trey Polvadore, Ariel Walker, Malcolm Maden, Jada Lewis, University of Florida

77. From Villains and Psychopaths to Superheroes and Everything in Between
   Gaillot Andre, Marina Klimenko, University of Florida

78. Triggering the Autonomic Nervous System Using Suboccipital Decompression
   Katie Clark, Barry Walsh, Kaylee Fichthorn, Rob Sillevis, Florida Gulf Coast University

79. Utilization of Unmanned Aircraft Systems Within the Entertainment Industry
   Mercedes St. George, Ross Stephenson, Jacksonville University

80. The combinatorial effect of constitutively active Rheb and Taxol on axon outgrowth in vitro
   Cathy Le, Luis Benitez, Lauren Martin, Neil Alegre, Alicia Hawthorne, University of Central Florida

81. Social anxiety and sexual victimization: The roles of assertiveness, gender, and race
   Samantha Berg, Amie Newins, University of Central Florida

82. Interaction of Fluorescent Nucleic Acid Binding Dyes with Single-Stranded DNA Sequences
   Colin Campbell, Yulia Gerasimova, University of Central Florida

83. How Valuable is Higher Education?
   Emma Heitman, Hulya Yazici, Florida Gulf Coast University

84. Parenting and Emerging Adulthood: Do Parents Still Matter?
   Merari Flores Saldana, Larry Forthun, University of Florida

85. Progress Towards The Synthesis Of The Natural Product Umbellulone
   Ranjika Pingale, Gregory Boyce, Florida Gulf Coast University

86. Perfectionism Personality Test Anxiety
   Samantha Murray, Renee Benton, Alvaro Gomez, Starlette Sinclair, Florida Gulf Coast University

87. Unfolding Model of Anabaena Sensory Rhodopsin Transducer, ASRT in PCC7120
   Purva Lotwala, Vishwa Trivedi, Bethune-Cookman University

88. Optimizing a Solar Power Plant’s Efficiency
   Adil Riahi, Shawn Putnam, University of Central Florida

89. Effect of Oral Vitamin D Supplementation on Blood Pressure in Hypertensive African American Adults
   Anika Saxena King, Sarah Perez, Keith Brazendale, University of Central Florida

90. Splintering Off: Catalonia's Search for Sovereignty
   Sabrina Mato, Florida State University

91. Connectedness to Nature Through Affordances
   Fatima Khan, Daniel McConnell, University of Central Florida
PRESENTATION SESSION II

92. Analyzing the Antibiotic Activities of a Novel Depsipeptide KTG3 & Two Novel Soil Bacterial Strains
   Elizabeth May, Amy Donne, Alexis Martin, Diane Baronas-Lowell, Florida Atlantic University

93. 1926 Great Miami Hurricane’s Impact on Lake Okeechobee and Moore Haven
   Kyria Wickham, Camila Rimoldi, South Florida State College

94. The Correlation Between Algebra Nation Usage And Student’s EOC Scores
   Sarah Clerjuste, Walter Leite, University of Florida

95. Expression of FGD4 positively correlates with the aggressive phenotype of prostate cancer
   Ayman Khatib, Alexia Bossan, Richard Ottman, Thomas Andl, Md Hasan, Ratna Chakrabarti, University of Central Florida

96. Achieving the Softest Landing on Mars
   Sean Harrison, Keshav Acharya, Embry-Riddle Aeronautical University

97. A Comparative Examination of the Oeuvre of Raymond Pettibon
   Hailey Thrasher, Laura Winn, Jacksonville University

98. Strange Frequencies: Development of a Post-Human Narrative
   Jessica Young, Rachel Luria, Florida Atlantic University

99. Using Novel Osteoblast Differentiation Marker EB1 to Improve In Vitro Osteoblast Models
   Sydney Edwards, Yilin Li, Jiehong Liao, Florida Gulf Coast University

100. Education During World War Two: The Changes that Lead to America’s School System Today
    Matthew Hendrix, Florida Gulf Coast University

101. An Assessment of the Impacts of EPA Superfund Sites on Central Florida Residents
    Kurt Ramos, Vanessa Calkins, University of Central Florida

102. Reduced Tetrahydrobiopterin (BH4) and Nitric Oxide (NO) Bioavailability in Peripheral Artery Disease
    Kaitlyn Prezioso, Ahmed Ismaeel, Evlampia Papoutsi, William Bohannon, Robert Smith, Robert Brumberg, Jeffery Kirk, Panagiotis Koutakis, Florida State University

103. Video Games and Aggression
    Brandon Suiit, Tyler Towne, Florida State University

104. Talking Planimals! The Bioacoustics of Cyphastrea Coral
    Camila Rimoldi, James Hawker, South Florida State College

105. Franz Liszt’s Mephisto Waltz - A Lecture Recital
    Arturo Fernandez, Michael Baron, Florida Gulf Coast University

106. Improving Tarsus Alignment by Strengthening Hip Musculature in University Dancers
    Casey Copeland, Tom Welsh, Florida State University
107. DEHP-Induced Alterations In Molecular Processes Related To Lipid Transport And Physical Fitness
   Caitlyn Parente, Amanda Buerger, Emily Watts, Jason Harris, Joseph Bisesi, University of Florida

108. An In-Silico Approach At NASBA Primer Probe Development: A Primer Design Software
   Rohit Karnati, Yulia Gerasimova, University of Central Florida

109. Saving The World A Few Microbeads At A Time
   Sharon Lucero, Eunice Laurent, Valencia College

110. Quantifying expression of the master virulence regulator DosRS in Mycobacterium abscessus
   George Walters-Marrah, Breven Gaines, Rashmi Gupta, Kyle Rohde, University of Central Florida

111. Autonomous Surface Trash Collecting Vessel
   Christopher Teti, Tai Cao, Joseph Simon, Michael Teti, Pak-Cheung An, Florida Atlantic University

112. Wildlife Cameras for Organism Identification and Behavior Analyses Along Restored Shorelines
   Julia Rifenberg, Jason Litwak, Rebecca Fillyaw, Linda Walters, University of Central Florida

113. Functional Analysis of Melaleuca quinquenervia CAULIFLOWER-LIKE and LEAFY-LIKE genes
   Gabriel Taggart, Shawn Brunelle, Rodrigo Tomas, Marilyn Cruz-Alvarez, Florida Gulf Coast University
Poster Presentations (1:45-2:45PM - Cohen Center Ballroom and 201)

1. Color Testing: Cortisone
   Faith Moore, Alex Resto, Juan Zhuang, Alanna Lecher, Lynn University

2. Does PA and Wellness Education Positively Impact Body Composition and Employee Wellness
   Allison Burek, Rob Sillevis, Florida Gulf Coast University

3. Plantbased Burgers? “How BK, McD, and other QSR’s Use Media To Lure/Catch Health Conscious Consumers
   Sierra Perry, Salvador Victor, Bethune-Cookman University

   Princianna Durosier, Starlette Sinclair, Florida Gulf Coast University

5. OxsR in chromatin remodeling in halophilic archaea.
   Emily Winters, Angelina Nasthas, Ricardo Couto-Rodriguez, Paula Mondragon, Julie Maupin-Furlow, University of Florida

6. Influence Of 5htp On Sensory Processing
   Nick Wellman, Wen Li, Florida State University

7. Crystallization of the fusion protein GST-EGFP
   Nancy Flynn, Robert Borgon, University of Central Florida

8. Space Oddities
   Jillian Fennessey, Ginger Sheridan, Jacksonville University

9. Chronic sleep fragmentation exacerbates alcohol-induced sensitivity and toxicity in Drosophila
   Courtney Camarillo, Aliza DeNobrega, Florida State University

10. Biological Role of Tie2 in Vascular Endothelial Cells
    Shruti Kolli, Tuncer Onay, Benjamin Thomson, Phoebe Leeaw, University of Florida

11. Creating A Model Of Obesity Using Danio Rerio
    Shivani Desai, Kimberly Dobrinski, University of Tampa

12. Role of Solution pH on Self-Assembly of Aromatic Amino Acids
    Blessing Akintunde, Ramesh Adhikari, Jacksonville University

13. Mẹ, Myself, and I: Multifarious Motherhood in Vietnam
    Arria Hauldin, Elif Bulut, Florida State University

    On Ki Grina Omaira Cheng, Zsolt Toth, University of Florida
PRESENTATION SESSION III

16. Refining the Vaccination Protocol Used to Induce Acquired Resistance in Amphibians to Batrachochytrium
   Alexis Garcia, David Civitello, Pieter Johnson, Jason Rohr, Taegan McMahon, University of Tampa

17. Neuroticism and Self Control
   Jacqueline Bedard, Kaia Brewer, Edward Cascio, Florida Gulf Coast University

18. Hispanic Health: Exploring Stress and Depression in Florida and the Dominican Republic
   Amanda Barrie, Brianna Rubenstein, Alyssia Miller, Robin White, University of Tampa

19. The Hunt for Novel Antimalarials: 2-Styrylquinoline Derivatives as Plasmodium Parasite Inhibitors
   Justin Shaw, Claribel Murillo Solano, Guang Huang, Joel Melendez, Jennifer Collins, Andy Nguyen, Yu Yuan, Debopam Chakrabarti, University of Central Florida

20. There's Something In The Water - Correlation Of Trihalomethanes With Head And Neck Cancer
   Magen Hoch, Michele Crosby, Kimberly Dobrinski, University of Tampa

21. Inmate Aggression: An In-Depth Study
   Karina Polanco, Kristin Elink-Schuurman-Laura, Florida International University

22. Influencing Attention And The Effects On Anxiety, Stress, Selfesteem, And Self-Efficacy
   Roberto Porras, Diane Sasnett-Martichuski, Florida Gulf Coast University

23. Perception or Reality? Perceptions of Abuse Supervision in the Workplace
   Paul Amari, Steve Jex, University of Central Florida

24. Creative Approaches to Meeting Diabetes-Related Needs in Florida
   Anudeep Udumula, Boon Phrathep, Cristina Figueroa, Judith Ortiz, University of Central Florida

25. A Study of the Relationship Between Self-Rated Health and Projected Age of Death in College Students
   Joanna Baerson, Morgan Haas, Connie Valli, Kelly Schuller, Florida Gulf Coast University

   Elijah Campbell, Randall Croom, Areti Vogel, Luca Zambelli, Stetson University

27. Effects Of Sex Stereotypes On Causal And Moral Attributions For Child Physical Abuse
   Reema Sabella, Rachel Woolard, Christopher Leone, LouAnne Hawkins, University of North Florida

28. Split probe detection of Influenza A Virus for improved diagnostics in a point of care system
   Tamar Yishay, Ryan Connelly, Yulia Gerasimova, University of Central Florida

29. The Legal Ethics of Death Row Volunteerism
   Jay Pinckney-Cabal, Richard Coughlin, Florida Gulf Coast University

30. “Enlightened Adoration”: Amity, Art, and Enlightenment in the Temple of Friendship at Sanssouci
   Keely Luttrell, Sheryl Kroen, University of Florida
31. Guns or Roses? How Americans view guns in this climate
Marvel Joseph, Chase Rydstrand, Donna Chamely-Wiik, Florida Atlantic University

32. The Perception, Usage, and Knowledge of Moringa in Haiti after Increased Education and Access
Phillip Sada, Chinelo Germain, Preethashree Anbukkarasu, Brandon Kaye, Leticia Ebihara, Mary Schmidt-Owens, University of Central Florida

33. Using Aquarium Test Strips and a Nix Pro Color Sensor to Precisely Measure Nitrate Runoff
Isabella Peedle, Kenneth J. Sweeney, Kayla Howard, Malcolm M. Manners, John L Griffis, Jr., Florida Gulf Coast University

34. The Use of Staphylococcus aureus and MRSA as an Indicator of Human Pollution in Tampa Bay
Brittany Small, Margaret Baker, Gabrielle Speca, Bridgette Froeschke, University of Tampa

35. The Relationship between Social Media Use and Depressive Symptoms
Cecelia Gordon, Ana Sardinha, Starlette Sinclair, Florida Gulf Coast University

36. Perceived Barriers of Informal Caregivers of Children with Special Healthcare Needs
Alana Swift, Mandy Bamber, Florida State University

37. Novel Microbe-Resistant Clay Dressing for Healing Burns, Wounds and Scars
Kasey Rigby, Jodie Chen, John O’Brien, Judy Noel, Kausik Mukhopadhyay, University of Central Florida

38. 3D Tissue Perfusion Systems In Vitro: Pharmacological And Immunological Studies On Solid Tumors
Matthew Johnson, Padraic Levings, Juan Urueña, Eric McGhee, Alex McGhee, Derrick Hood, Kylie Van Meter, C. Anderson, W. Gregory Sawyer, University of Florida

39. Effect Of Elysia Clarki’s Anti-Predatory Defense On The Feeding Behavior And Memory Of Blue Crabs
Samantha Schreiter, Samantha Schreiter, Michael Middlebrooks, University of Tampa

40. Nutrients, Grazing, & Climate Effects on Turtle Grass in Pine Island Sound
Rachel O’Brien, Lauren Alvaro, Chloe Mikus, Amanda Sang, James Douglass, Florida Gulf Coast University

41. Assessing the Need for Vegan and Vegetarian Options at the Florida Gulf Coast University Food Pantry
Melissa Cottrill, Shelby Gilbert, Florida Gulf Coast University

Arnel Garcesa, Crystal Taylor, Florida State University

43. Regulation of FePer1 Gene Encoding 1-Cys Peroxiredoxin in Buckwheat: A Transgenic Study
Kathryn Koirtyohann, Shannon Bute, Takashi Ueda, Florida Gulf Coast University

44. Developing a Low Cost Functional Prosthetic Socket that Fits Multiple Patients
William Marceau, Leia Holland, Derek Lura, Florida Gulf Coast University
PRESENTATION SESSION III

45. “The Town Cries”: Cultural Identity in the Songs of Rosa Mercedes, Lima (Peru)
   Paula Alva, Thomas Cimarusti, Florida Gulf Coast University

46. Quantifying the Shortage of Mental Health Care in Venezuela Through Media Content Analysis
   Andrea Alfonsi, Humberto Lopez Castillo, University of Central Florida

47. A Crisis of Identity: The State and Japan: 1853-1889
   Justin Keer, Elizabeth Bouldin, Florida Gulf Coast University

48. Understanding the Role of Underwater Architecture in a Coastal Ecosystem
   Eli Myron, Sandra Brooke, Florida State University

49. Differential expression of the CCE1 gene in Brassica oleracea Caused by Differences in Methylation
   Carolina Cora Pedroso de Moraes, Brandon Sanchez, Marilyn Cruz-Alvarez, Florida Gulf Coast University

50. Positive Well-Being: A Study Of Positive Experiences In The Online Classroom
   Samanth Shaner, Hannah Lehman, University of North Florida

51. Developing Sustainable Techniques for the Production of Shea Butter to Assist West African Women
   Michaela Clarke, Sari Paikoff, Florida Gulf Coast University

52. Neural Implant-Associated Glial Scar Mitigation in a Regenerative Mammalian Model, the Spiny Mouse
   Alexis Brake, Kevin Otto, University of Florida

53. The Lasting Legacy of Chemical Weapons in Iraqi Kurdistan
   Jenna Dovydaitsis, Gunes Tezcur, University of Central Florida

54. Placement Of Solar Panels To Provide Enough Electricity For An Average House In Florida
   Viktorniya Bardenova, Erik Insao, Florida Gulf Coast University

55. Heterodyne Phase Camera for Gravitational Wave Laser Interferometers
   Cole Perkins, Kaden Loring, Paul Fulda, University of Florida

56. Examination of Racial Disparities in Forensic Mental Health
   Kyla Jones, Marshall Jones, Florida Institute of Technology

   Vincenzo Cornacchione, Rachel Core, Stetson University

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77. Influencing Students to Recycle using Memes
   Karla Adames, Diane Sasnet-Martichuski, Natalie Solla, Florida Gulf Coast University

78. Detection of Drugs and Protein Concentrations from Latent Fingerprints on Different Substrates
   Makenzie Freeman, Sulekha Coticone, Florida Gulf Coast University

79. Report on K-12 School Shootings in the U.S. from 1970-Present
   Nicole Freire, Nicole Freire, Alejandro Jimenez, Hulya Yazici, Florida Gulf Coast University

80. Risk Of Cognitive Decline In Caregivers Of Dementia
   Ana Villa, Martina Luchetti, Florida State University

81. Morphological and Molecular Analysis of Tampa Bay Copepods
   Alexandra Perez, Sarah Cuccinello, University of Tampa

82. Self-Monitoring Differences in Spirituality vs. Religiousness: Intrinsic Orientation as Mediator
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83. The Moderating Effect of Depression/Anxiety on the Relationship Between Gender and Cognition
   Diamond Taylor, Niah Washington, Julia Sheffler, Florida State University

84. Female Genital Mutilation: A Contemporary Gendercide in France
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85. Nrf2 Deficiency Exacerbates Cognitive Impairment And Reactive Microgliosis In Mouse Model
   Alexandra Mazur, Lei Liu, Marie Kelly, Xiao Rui Yang, Tyler Fernandez, Erika Wierzbicki, Sylvain Dore, University of Florida

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87. Fighting for Recognition in a Race-Based Society: African American Artists in 19th Century America
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90. Wifi Routers, Power Plants, And Memes: An Explanation Of (t,r) Broadcast Domination
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91. Investigating the Effects of UV Filters in Sunscreens on Human and Environmental Health
   Brittany Thompson, Melinda Donnelly, University of Central Florida

92. Design and Synthesis of Solid-Supported Palladium Catalysts for Greener Coupling Reactions
   Aaron Cagle, Jennii Burrell, Daniel Paull, Florida Gulf Coast University

93. Evaluating Disinhibition and Decision-making Using a BART Task
   Rachel Bowns, Christopher Patrick, Florida State University

94. Qualitative Inquiry into Vaping among College Students
   Claudia Jimenez, Allison Barthel, Briana Lipski, Jenna George, Mary Martinasek, University of Tampa

95. Evaluation of Saline-Tolerant Florida Native Plants for Pre-treatment of Landfill Leachate
   Marilia Mansano Soares, Austin Wise, Kim, Florida Gulf Coast University

96. Psychedelic Medicine and the Attenuation of Depressive Symptoms
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97. Spectral Effects of Parameters in Diffuse Reflectance IR and Visible Spectra of Regolith Simulants
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98. Childhood Health Problems and Cognitive Reappraisal is Associated with Depression in Older Adults
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99. Decreasing PSS Molecular Weight Increases Volumetric Charge Density of PEDOT:PSS Microwires
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100. Salivary Alpha Amylase As A Marker For Students’ Stress Level Before And After Exams
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101. Anthropogenic Effects On Black Lemur Habitats
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102. A Novel Approach to Evaluating HD-Related Aggression
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103. Developing Therapies for Athletic Recovery During Air Travel
    Rachel Bauer, David Keck, Embry-Riddle Aeronautical University
104. The Study of Free Will in the East and the West
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105. In-Situ Space Resource Utilization: A Review Of Economics, Geology, And Policy
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106. Expression Of Genes Related To Lipid Metabolism And Adipogenesis In Zebrafish After DEHP Exposure
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107. The Role of Workplace Distribution on Dengue Dynamics in the Yucatan: A Modeling Approach
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109. Progress Towards The Concise Synthesis Of G-Curcumene
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111. Determining Optimal Solar Panel Configurations to Maximize Energy Efficiency
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113. The Impact of Fashion Advertising on the Body Satisfaction of Collegiate Women
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114. An Analysis Of Odors In Émile Zola’s L’Assommoir And Gabrielle Roy’s Bonheur d’Occasion
Chanelle Dupuis, Aimée Boutin, Florida State University
Professional Development Workshops (3:00-3:45PM - Sugden Hall)

Room 110
Careers In Cancer Research: One Mission, Many Paths To Choose From
Rachel Newsome, University of Florida - Health Cancer Center

Cancer research is one of the most interdisciplinary pursuits in science and health, and the field is growing incredibly fast. With 59 NIH-designated comprehensive cancer centers around the US and growing grant funding from both public and private agencies, studying cancer is a competitive and rewarding endeavor. But there are many different careers and paths that someone interested in cancer can take; from academia to clinical practice, the opportunities are endless. In this workshop we will discuss the different career opportunities in cancer research and how to pursue them. We will highlight the opportunities that the UF Health Cancer Center offers to both graduate and professional students interested in cancer research. We will also discuss some new discoveries made by high profile UF research faculty and students that may spark interest in new fields of cancer study for those not sure if cancer research is right for them.

Room 111
From Resume to CV: Planning your Research Roadmap
Tyler Campbell, University of Central Florida

Need a CV or Research Resume for Graduate School or other applications? This workshop will help you think about the elements of a CV or academic resume, how to frame them, and how to best utilize the time left in your undergraduate program to develop a spectacular CV or Resume for applying to whatever comes next.

Room 115
Graduate Fellowship Applications - Promoting Yourself and Your Ideas
Daniel Lambrecht, Florida Gulf Coast University

This workshop will provide an overview to graduate fellowship applications. Specifically, students will learn about the National Science Foundation’s Graduate Research Fellowship Program (NSF GRFP). The workshop will provide answers to common questions such as "Why should I apply to fellowships?", "How do I identify a strong scientific idea?", "How do I write a strong application package?", "When should I start?", and discuss some of the specific requirements and perks of the NSF GRFP. Students will discuss 1-2 short sample applications to identify examples of strong versus weak application strategies. Tips for successful applications will be discussed and students will be pointed at additional resources for fellowship application writing.

Room 240
Social Media for Scholarship
Alanna Lecher, Lynn University

You’ve presented your poster at FURC; now how do you create an online presence to share your research with the wider world? From researchgate to google scholar, ORCIC to poster databases, this workshop will cover the many ways that scholars and scientists use social media platforms, repositories, and websites to create an online presence. You will leave this session with a plan to share your work on the World Wide Web. We will also discuss caveats and best practices of publishing research online.
Room 101
Rise of the IP Professional -- What You Need to Know about Intellectual Property
Chris Turoski, University of Minnesota

This workshop describes how IP and patents can support your education and career. A STEM degree prepares you for career roles in education and business. In academia, you get ahead by navigating a complex scheme of grants, publications, and teamwork, which can undercut or complement IP recognition for your work. In business, IP knowledge distinguishes you from your peers, and helps contribute to the bottom line. In addition to careers in education and business, the session will highlight an alternative career path such as a patent agent or lawyer.

Room 103
Setbacks and Comebacks – Navigating Your Path to Success after Hitting the Roadblocks
John Williams, Albany State University

In a perfect world, every student would matriculate seamlessly through an undergraduate program, and would leave fully prepared for graduate education. However, for many students, the path to graduation may contain setbacks that can discourage or derail their initial goals. In the sciences, navigating these setbacks is particularly crucial, as many post-graduate career plans are structured based on undergraduate performance. This session is designed to provide students with clear strategies that can be implemented to address roadblocks, such as poor grades, financial issues, or personal issues that may have interrupted matriculation. Additionally, this session will provide students with strategies for using these events as tools for self-reflection and self-improvement.

Room 104
Summer Off-Campus Research Experiences
Kimberly Schneider, 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 numerous 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 December 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.
**Professional Development Workshops (3:00 - 3:45PM - Edwards Hall)**

**Room 112**  
**A Poster is Worth a Thousand Words: How to Best Present Your Research**  
Matthew Eicholtz, *Florida Southern College*

Poster sessions offer an excellent opportunity to disseminate research findings and network with a broad audience of like-minded individuals. Yet, students often receive minimal instruction on how to appropriately design, create, and present an academic research poster. How big should the text be? How much text is too much or too little? Are my figures and images clear enough? How should I describe my work to people from various backgrounds and levels of expertise? In this hands-on workshop, we will answer these questions and more by examining actual research posters from multiple disciplines. Together, we will explore how to develop an eye-catching poster that entices people to learn more and discuss practical tips and tricks for confidently presenting your poster in a conference setting.

**Professional Development Workshops (3:00 - 3:45PM - Marieb Hall)**

**Room 100**  
**Mentor for Research to Recommendation Letter: Mentee’s Gateway to Success**  
Vishwa Trivedi, *Bethune Cookman University*

Mentors in undergraduate research play a significant role in stimulating their student’s intellectual capability. It further advances mentee’s aspirations ranging from graduate, professional programs to marketplace opportunities. Undergraduate research is an apprenticeship, where mentor teaches, build and test hypothesis while engaging mentee to address the core concern of a problem. Besides training, mentor takes extreme measure to navigate the undergraduate mentee for next step towards career building. The success of any such goal (graduate, professional etc along with scholarship) lies under the true assessment of mentor in form of letter of recommendation. Such testament is vital for the process as true litmus test. It is just a beginning of bonding, as such relationship last long after degree completion and ultimately transform into strong professional interactions. This workshop will outline the need and growth of such bonding.

**Room 200**  
**Librarians: The Research Mentors You Didn't Know You Had**  
Anna Carlin, *Florida Gulf Coast University*

Librarians are experts at finding information and knowing how to navigate the literature of many academic fields, but their talents are often underutilized by students and faculty alike. In this workshop, FGCU Librarians will talk about the many ways that librarians can help researchers locate, collect, and make sense of existing literature. Our librarian presenters will also talk about how we have worked with researchers on an ongoing basis to continue to refine topics and searches and serve as another mentoring voice in research projects. Attendees will leave with ideas how to improve their literature searches and broaden their circle of faculty mentors through contact with librarians on their campuses.
Inspired by the Florida Statewide Symposium for Best Practices in Undergraduate Research, the University of Florida Center for Undergraduate Research Board of students (CURBS) hosted the Florida Undergraduate Research Leadership Summit (FURLS): a completely student led meeting. This inaugural intercollegiate summit involved student leaders from across the state and served as a platform to discuss student-initiated efforts aiming to enhance the undergraduate research experience. This January, we hosted the second annual FURLS, engaging student representatives from 12 Florida institutions to discuss best practices in undergraduate research leadership and creating a network of communication between leaders. We propose the national expansion of FURLS as NURLS, the National Undergraduate Research Leadership Summit. Here, we present our findings from our first two years of FURLS and our plans to expand FURLS nationally while soliciting interest in joining the NURLS planning committee.
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   Sebastian Mejia, Florida State University

17. Synthesis Of Cyclopropenone-Containing Natural Products
   Joanna Muir, Ieda Andrade, Gregory Boyce, Florida Gulf Coast University

18. Initial Optical Profile Of Anthocyanins In Single- And Double-Bloom Hibiscus Rosa-Sinesis
   Autumn N. Siegel, George / Amanda Kenney, Jr. / Newton, Eastern Florida State College

19. Population Dynamics Of Microbial Communities Among Cystic Fibrosis Patients Receiving CFTR Modulator
   Anita Samadabadi, Taj Azarian, Shatha Yousef, University of Central Florida

20. Hermit Crabs (Coenobita Compressus) Personality, Development, And Habitat Choice
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21. Hydroxyapatite Formation On Coated Titanium Samples Submerged In SBF
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23. Investigating The Effect Of Family History On Pain Relief From Alcohol Consumption
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24. Merging The Concepts Of Organic Extraction And IR Spectroscopy In The Organic Laboratory
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26. Military Medical Delivery Utilizing Unmanned Aircraft Systems
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29. Economic Globalization And Within-Country Income Inequality
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30. Characterization Of Contact Resistance Properties Of Different TLM Structure Designs
Nicole Karam, Kristopher Davis, University of Central Florida

31. Effect Of A Dog-Assisted Reading Program On Reading Ability And Motivation Of Children With Dyslexia
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32. Examining Momentary Emotional Functioning On Drinking And Non-Drinking Days
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33. Identifying The Contributing Factors To Nighttime Crashes At Freeway Mainline Segments In Florida
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34. Saving The World Before Bedtime
Samantha Ward, Warren Jones, Eastern Florida State College

35. Enabling Structure Elucidation For Polyglutamine Peptides Causing Neurodegenerative Diseases
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36. Utilizing Geometric Morphometrics To Characterize Head-Shape Variation In The Brazilian Lance-Head
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37. Investigation Of Metabolic Rates Of Angiotensin II And Associated Bioactive Derivatives Of RAAS
Chelsea Mathews, Robert Speth, Nova Southeastern University

38. Focusing The Immune Response To A Pan-Malaria Transmission Blocking Vaccine Enhances Efficacy
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39. Judicial Review And Public Opinion Of Democratic Performance
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40. Social Feeding And Its Impacts On Mouthpart Development
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41. Characterization Of Transfection Agent Complexation With Ferucarbotran
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42. The Implications Of Compensating Student Athletes Through The Stipend And Olympic Models
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43. Combination Of Sulindac And Metformin As A Therapeutic Target In Lung Cancer
Heather Butler, Shailaja Allani, Florida Atlantic University
44. The Journey Of Human Trafficking: Where It Starts, Why It Happens, And How It Affects Tampa
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45. Adverse Childhood Experiences, Sensation Seeking, And Substance Abuse Among College Students
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46. Redeveloping Las Colonias
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47. Resilience In International Students
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48. Increasing Chemical Engineering K-14 Involvement By Tackling Water Conservation
Anays Hernandez, Sindia Rivera-Jimenez, University of Florida

49. Counting Vector Partitions In The Lie Algebra Of Type A_3
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50. Social Stigma And Substance Use Disorder In Albani
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51. Arginine-170 Is Important In Stabilizing The Active Parkin Oligomer
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52. An Independent Examination Of MSPE In NCAA Athletics
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53. Does Savoring Mediate The Relationships Between Religious Service Attendance And Mood Outcomes?
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54. Human Rights: The Idea Versus The Ideal
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55. Rapid Urbanization And Waste Management In Verón, Dominican Republic
Elijah Crain, Leah Locascio, Tim Murtha, University of Florida

56. Does Protein Storage Regulate The Growth Of Sexual Characters In A Model Pest Fly?
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57. Efficacy Of Natural Frequency Technology On Sleep Behavior Of Healthy Adults With Insomnia Symptoms
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58. Impact Of Work-Life Balance On Health-Related Quality Of Life Among College Students
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59. Tropical East Pacific Convection Behavior Analysis Via Radiosonde And Dropsonde Data  
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60. Spanish Words Facilitate Gazing To Latino Faces  
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63. Intergroup Contact and Social Change: The Crucial Role of Perceived Antiprejudice of White Friends in Shaping Minorities’ Collective Action Intentions  
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68. Neural Basis Of Sleep-Pan Interactions: A Preliminary Study  
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69. Functional Prediction Of Hypothetical Proteins In Feldmannia Species Virus  
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70. Inducing Cellular Cytotoxicity Using Long And Short Wavelength Ultraviolet Radiation  
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71. Evaluation Of Essential Oils As Anti-Cancer Therapeutic Agents In Triple-Negative Breast Cancer  
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72. The Prevalence Of Deadly Mass Shootings In The United States From 1976-2018  
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73. Spatial Distribution Of Cownose Rays Within Honeymoon Island State Park In Relation To Sharks
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74. Breaking News: Move Over Newspapers And TV, Millennials Are Getting Their News From Social Media
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   Shlok Misra, Michele Halleran, Embry-Riddle Aeronautical University

76. Use Of Photoacoustic Calorimetry To Determine Conditions For Photo-Isomerization
   Zachary Nulph, Kevin Davies, Florida Gulf Coast University

77. The Effect Of Interventions On Radiotherapy-Induced Skin Toxicity In Breast Cancer Patients
   Claudia Figueroa, Eunyung Lee, University of Central Florida

78. Exploring The Effect Of Performing Testicular Self-Examination On Tumor Stage Diagnosis
   Michael Maresca, Chayna Gooljar, Michael Rovito, University of Central Florida

79. Deconstructing The Myth Of La Dolce Vita: An Analysis Of Italian Women’s Disparity In Southern Italy
   Emilie LaVoie-Ingram, Annmarie Willette, Jacksonville University

80. Blue Protein Cass Blue In Cassiopea Xamachana And Its Function In Phototaxis
   Luciano Simonetta, Carlos Marmolejo, Anthony Bellantuono, Justin Dalrymple, Christopher Clark, Matthew DeGennaro, Florida International University

81. Factors Associated With Diet Quality Scores Among Cancer Survivors: Results From NHANES 2005-2016
   Julia Velazquez, Eunkyung Lee, Rachael Bernardo, University of Central Florida

82. Can Strain Theory Be Used To Explain The Relationship Between Recidivism And Secure Placement?
   Alessia Shaw, James Ray, University of Central Florida

83. The Relationship Between Community Health Worker Supply And The Rate Of Preventable Hospitalizations
   Danielle Mapp, Judith Ortiz, Richard Hofler, Boondaniwon Phrathep, University of Central Florida

84. Mitigating Basil Browning: Gene Cloning And Rnai Construct Development For Polyphenol Oxidase
   Annelise Vieira, University of Florida

85. Design And Implementation Of Automated Pressure System
   Crandall Maines, Walter Merz, Donroy Hall, Michael Coffman, Fatih Aydogan, Jacksonville University

86. Genetic Polymorphisms In ADRB2 Affecting Survival In Heart Failure Patients On Beta-Blockers
   Leonardo Guerra, Julio Duarte, Christelle Lteif, University of Florida
PRESENTATION SESSION IV

87. Effect Of Human Development On The Herpetofauna Community In The Peruvian Amazon
   Alexander Marsh, Charles Gunnels, Matthew Metcalf, *Florida Gulf Coast University*

88. The Psychological Study of Horror in Virtual Reality
   Jaden Williams, Hashem Moud, *Florida Gulf Coast University*

89. Flume Tank Test System Design
   Jackson Westbrook, Tyler Walker, Tommy Mack, *Jacksonville University*

90. Analysis Of Archaeological Remains At Tre Portelle (Mineo, Sicily)
   Jessica Olivier, Brian McConnell, *Florida Atlantic University*

91. Plain Language And The Paradox Of Understanding And Information Availability
   Michele Giunti, Laura Atkins, *Jacksonville University*

92. Pollinator And Herbivore Mediated Neighborhood Effects In Crop Yield
   Sandra Miles, Alicia Battailles, *Florida State University*

93. The Evolution Of Psilocybe Cubensis
   Gamer AlHassan, *University of Central Florida*

94. Quantifying The Mutagenic Potential Of BPA Analogs On Mouse L-Fibrolast Cell Lines In Vitro
   Eric Neil Emperio, William Shaw, Joseph Sullivan, Melek Mizher, Megan Rizer, James Chang, Alicia Hawthorne, Emily Bradshaw, *University of Central Florida*

95. Can Females Of An Erebid Moth Discriminate Between Normal And Transformed Male Acoustic Emissions?
   Doris Cruz, Nila Lumpuy, Frank Coro, *Miami Dade College*

96. The Retinal Pigments Of Filter-Feeding Sharks And Their Role In Foraging Ecology
   Katherine Serba, Jeffry Fasick, Haya Algrain, Phyllis Robinson, *University of Tampa*

97. The Effects Of Vaping On Oral Streptococci Growth And Biofilm Formation
   Matthew Caldwell, Alma Catala Valentin, Joshua Bernard, Sean Moore, Claudia Andl, *University of Central Florida*

98. Expert Communication About Cancer Clinical Trials: Cognitive Map Analysis
   Sophie Stypelkoski, Frantz Garilus, Naomi Parker, Yulia Strekalova, *University of Florida*

99. Role Of A Pre-Medical Surgical Internship On Female Perceptions Of A Career In Surgery
   Taylor Duffy, Yaser Ahmad, Gideon Lewis, Keith Brazendale, *University of Central Florida*

100. Investigating The Effect Of Caffeine Coated Quantum Dots On Cell Uptake
     Ava Milani, Swadeshmukul Santra, *University of Central Florida*

101. Belief Consistency As A Mediator Of Mere Thought And Schema Tuning Effects On Attitude Polarization.
     Thanh Lu, Christopher Leone, *University of North Florida*

102. Development Of Disaccharide Probes For Heparanase
     Nicholas Gomez, Meijun Xiong, Nicholas Gomez, Lina Cui, *University of Florida*
103. Impact Of Diet On Photosynthesis And Survival Of Kleptoplastic Slug Elysia Papillosa
Alexandra Nockengost, Samuel Dixon, Michael Middlebrooks, University of Tampa

104. “Bricks 4 Preschoolers”: The Relationship Between The Type And Frequency Of LEGO Play On Preschool
Medhini Urs, Emily Ready, Miriam Pridgen, Leilani Goodmon, Florida Southern College

105. Neuroanatomical Mapping And Localization Of Pnmt+ Neurons In The Hypothalamus And Cerebellum Of Mice
Meeti Mehta, Sanjana Manja, Lake Lindo, Maria Jamaleddine, Jake Altier, Steven Ebert, University of Central Florida

106. Characterizing Variability To Identify Sources Of Bacteria In Estero River, FL
Dominick Avallone, Savannah Ceilley, Fernando Guillen, Donald Duke, Florida Gulf Coast University

107. Pre-Health Professions Students’ Knowledge Of And Attitude Toward Holistic Medicine Practices
Arianna Turello, Leia Holland, Peter Reuter, Florida Gulf Coast University

108. Stress Among Graduate Students (STEM Vs. Humanities)
Sandra Paola Montenegro, Steve Jex, University of Central Florida

109. On The Role Of Cytoplasmic Domain Of Anabaena Sensory Rhodopsin In Transducer Binding
Judith Strachan, Krystle Harris, Shanequa Davis, Aakriti Gautam, Vishwa Trivedi, Bethune-Cookman University

110. Isolation Of The Eyes Absent (Eya) Homolog In Melaleuca Quinquenervia
Addi Vaz, Takashi Ueda, Florida Gulf Coast University

111. Severity Of PHQ-9 Symptoms On Activities Of Daily Living
Tirzah Fernandes, Lisa Borntrager, Kim Gryglewicz, Marc Karver, University of Central Florida

112. Student Veteran Decision Making
Grace Metzler, Paige Massengale, Holly Hunt, Florida State University

113. The Cost Of Racial Salience On Face Memory
Olivia Terranova, Michelle Mooney, Alyssa Wence, Benjamin Marsh, University of Tampa

114. The Mafiosi En La Dolce Vita
Gabriela Lovera, Annmarie Kent-Willette, Jacksonville University
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