Special Thanks:
Matthew Spetka
Veronica Matthews
Sudsy Tschiderer

16th Annual
Student Research Symposium

A showcase of innovative research and creative work produced by
USF St. Petersburg students
with the guidance and support of university faculty.

Co-sponsored by:
Honors Program
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Department of Psychology
Brianna Peterson, Hannah Crawford (Criminology): “Patterns of Shoplifting/Retail Thefts in St. Petersburg”  
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Megan Reilly, Nicholas Chirinchigno (Criminology): “Patterns of Murder—St. Petersburg, FL 2014-2018”  
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Khendal Robinson, Samantha Ortiz (Criminology): “Patterns of Crime and Disorder of Juvenile Arrestees—St. Petersburg, FL 2014-2018”  
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Zachary Stahl, Dalia Mejia Saavedra (Criminology): “Homeless Arrests—St. Petersburg, FL 2014-2018”  
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Pieter Wiemken, Nicholas D’Souza, Michael Nickas, Corell Kimer, Yana Sirotkin, James McHale (Psychology): “Infant Emotion Regulation during Triadic Interactions with Both Parents at 3 and 12 months”  
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Alexandra Liss, Deby Cassill, Noel Takeuchi, Alison Gainsbury (Psychology): “The One-Half Rule: A Study of Mammary Glands in Rodents”
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Shelby Mahank, Natalie Sawaya, Nava Baran, Debbie Lindell, Mya Breitbart (Biology): “Perfecting the Polony Method to Quantify Marine Viruses”
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Veronica Marcano, Ciara Jackson (Criminology): “Analysis of Quality of Life Offenses—St. Petersburg, FL 2014-2018”
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Alan Mathon, Alen Amentovic (Biology): “Zika Virus Protease Inhibition Through Oprozomib”
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Crystal McClendon, Christine Joyner (Environmental Science): “The Melrose Lead Site Mystery”
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Kristen McVey, Allyson Pickering (Criminology): “Domestic vs Dating Violence in St. Petersburg, FL 2014-2018”
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James Onufrak, Dr. Lindsey Rodriguez, Dimitra Dimopoulos (Psychology): “State Emotion Regulation as a Mediator of the Relationship Between State Attachment Security and State Mindfulness”
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Verna Peddi, Ashley Schipae, Alexis Slacum, Yvonne Solis (Anthropology): “A Family Broken but Unbowed: The Lynching of Frazier B. Baker”
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Individual

Christina Agard (Biology): “Shell Shocked! Factors Involved in Green Turtle Fibropapillomatosis”
Faculty Sponsor: Deby Cassill

Deanna Amos (Biology): “Smoking is Out”
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Tyler Anthony (Biology): “Operant conditioning: Hoops for Kale”
Faculty Sponsor: Deby Cassill

Daniela Arenas (Biology): “Population Explosion: Factors of Overpopulation”
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Alexis Bailey (Biology): “University of South Florida St. Petersburg Students: Factors Involved in Anxiety”
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Innara Basria (Biology): “Norovirus Outbreak in Different Countries”
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Alyssa Bates (Biology): “Just squirreling around”
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Abigail Blackburn (Marine Biology): “Diatoms Diversity on Red Mangrove Prop Roots”
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Marissa Bornhauser (Biology): “Are men more likely to develop Hodgkin’s Lymphoma”
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Renee Brenzo (Biology) “Is Climate Change Real?”
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Michelle Burklund (Biology) “Alcohol And Cars Don’t Mix: DUI Statistics”  
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Jacob Butler (Biology) “Just Friends”  
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Kayla Byrd (Biology): “How ‘Right’ Are We About Canine Paw Dominance?”  
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Magali Capano (World Languages and Culture): “Can Machines Speak? Impact of Technological Advances in the Field of Translating and Interpreting”  
Faculty Sponsor: Frederic Leveziel

Kiara Centeno (Biology): “Student GPA: Factors Involved in Students Success”  
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Cailee Cinko (Biology): “Are Animal Morals Better than Ours?”  
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Dylan Clausen (Biology): “Manatee Mortality: Most Common Manatee Deaths in Pinellas County, FL”  
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Alec Colarusso (Anthropology): “Elite Ideology and a Comparison of the Maya”  
Faculty Sponsor: Gabrielle Vail

Marcia Gralha, Dimitra Dimopoulos, Emmalene Robinson, Klejdis Bilali, Sarah Lopez, Lindsey Rodriguez (Psychology): “Bare Your Heart or Bottle it Up? The Impact of Emotional Suppression and Ambivalence on Well-being and Relationships”  
Faculty Sponsor: Lindsey Rodriguez

Emma Guyette, John Shuford (Psychology): “Intuition vs Statistics: A historical look at clinical prediction”  
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Eric Hernandez, Madison Delgado, James Ivey: “Robot Lawn Mower”  
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Alison Hunt, Samantha Booth, Lindsey Rodriguez (Psychology): “Mental Health and Relationship Well-Being: Associations between Relationship Functioning and Depression Moderated by Attachment Anxiety”  
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Sean Johnson, Mario Makram (Criminology): “Analysis of Juvenile Arrests in St. Petersburg, Florida from 2014-2018”  
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Claire Kinney, Wendy Rote, Ashley Chapman, Renee Patrick (Psychology): “Experienced versus Desired Levels of Helicopter Parenting: A Latent Profile Analysis”  
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Adam Lashley, Michael Avery, Jen Ramsdell, Wendy Rote (Psychology): “Student Perceptions of Helicopter Parenting Motivations”  
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Yesi Dominguez, Chandler Cone (Criminology): “Analysis of Incidents and Arrest Reports on 34th Street St. Petersburg, FL from 2014-2018” 
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Nicholas D’Souza, Pieter Weimken, Michael Nickas, Eric Umlah, Kendall Barrios, Yana Sirotkin, James McHale (Psychology): “Infant Emotion Regulation during Triadic Interactions with Their Unmarried Parents” 
Faculty Sponsor: James McHale

Elena Duarte, Jeffrey Waitkevich (Criminology): “Patterns of Shoplifting Crime from 2014-2018 in St. Petersburg, FL” 
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Genevieve Embrey, Giselle Ycaza (Criminology): “Analyzing Patterns of Domestic Violence Incidents and Arrests” 
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Emery Gibson, Jalisa Linares (Anthropology): “What Could Have Been Left Behind” 
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Briana Gomez, Julian Ramirez Ayala (Criminology): “Patterns of Opioid Arrests from 2014-2018, St. Petersburg, FL” 
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Claire Graham, Deandra Williams (Biology): “The Effect of Herbicides on Species Richness on Insects” 
Faculty Sponsor: Deby Cassill

Sharnese Collier (Psychology): “To Kill or Not to Kill? Capital Punishment” 
Faculty Sponsor: Anna Dixon

Nicholas Cropper (Biology): “Florida Man Goes to Tallahassee: Elections in Pinellas County” and “Bird Brain?: Tool Use in 2 Families of Birds” 
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Faculty Sponsor: Thomas Smith

Rachel Cruz (Biology/Honors): “Linear reintegration process of foreign attendings into American Healthcare” 
Faculty Sponsor: Richard Smith

Trang Dang (Biology): “The Influence of Artists Under 21” 
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Thayanne DaSilva (Biomedical Sciences): “Global Maternal Mortality Rates (MMR)” and “Influence of Tobacco on Periodontal Disease” 
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Ivanes Diaz Leon (Biology) “Daredevil Goslings” 
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Gabrielle Donald (Anthropology): “Interaction Between Mesoamericans and Native Americans During the Post-Classic” 
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Emma Doyle (Biology): “Building a Monomer from a Capsid Protein in Tobacco Mosaic Virus (strain vulgare)” 
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Yulia Drung (Psychology): “False Consensus and Taking Offense” 
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Adam Feldman (Biology): “What To Pour Up In a Red Solo Cup?”
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Bianca Ferrara (Biology): “Majestic swimmers of the Oceans: Manta Rays”
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Tiffany Fieldhouse (Biology): “Dancing to Impress”
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Sarah Files (Biology): “Child mortality in the world by HIV/AIDS”
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Georgia Flanagan (Marine Biology): “Tantalizing Tentacles: Environmental influences in Octopus vulgaris growth”
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Nicole Forsgren (Marine Biology): “Not All Heroes Wear Capes”
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Domonique Gillen (Biology): “Galloping Flamboyant Cuttlefish”
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Andriy Glushakov (Biology): “War and Conflict and its Implications in Ukraine”
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Claire Graham (Biology): “Comparison of Pesticide Levels in Sediments in Jobos Bay, Puerto Rico Pre- and Post- Hurricane Maria”
Faculty Sponsor: Henry Alegria

Christianna Concilio, Rachel Ramos (Criminology): “Possession of Controlled Substance Arrests—St. Petersburg, FL 2014-2018”
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Sara Cooke, Amanda Ballenger (Criminology): “Patterns of Stimulants (Cocaine and Meth) - St. Petersburg, FL 2014-2018”
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Alexandria Corona, Adam Lashley, Josh Nebeker, Brittany O'Sick, Wendy Rote (Psychology): “Variations in Conflict and Guilt Topics Between Mothers and Teens”
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Emily Cunnigham, Natalie Hawkins, Laneisha Jeans, Daniel Miller (Environmental Science): “We Drew a Map to a Better Place”
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Dimitra Dimopoulos, James Onufrah, Michael Avery, Samantha Booth, Marcia Gralha, Lindsey Rodriguez (Psychology): “The Big Five as Predictor for Resilience: Moderated by Mindfulness”
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Bharat Bharat, Dimitra Dimopoulos (Psychology): “Rhythmic Complexity and Preference for Tempo”
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Troy Bielicki, Bogomil Mihaylov (Criminology): “Patterns of Auto Theft Arrests & Incidents in St. Petersburg, FL 2014-2018”
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Klejdis Bilali, Marcia Gralha, Emmalene Robinson, Sarah Lopez and Lindsey Rodriguez (Psychology): “Why Don’t Victims of Abusive Relationships Just Leave”
Faculty Sponsor: Lindsey Rodriguez

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Avary Bristol, Emily Varley (Criminology): “Opioid Arrests in St. Petersburg 2014-2018”
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Mary Byrnes, Corey Shrader (Biology): “Amyloid Beta protein & Alzheimer’s Disease”
Faculty Sponsor: Leon Hardy

Faculty Sponsor: Lindsey Rodriguez

Jasmine Cloutier, Deborah Andrango, Alexis D’Amour, Melissa Cloutier (Biology): “Is Habitat Heterogeneity Related to Bird Diversity”
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Araseli Guerrero (Biology): “Pick-up Lines or SUVs? USA Top-Selling Vehicles 2018”
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Augustine Haile (Anthropology) “Chichén Itzá’s Unique Role in the Maya Landscape”
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Olivia Hanson (Biology) “Cure-All Concoctions of the Past: Patent Medicines at the Gamble Plantation”
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Michaela Hayes (Biology): “Do Elephants Mourn?”
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Briana Heptner (Biology): “Trash Talk”
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Natalie Howard (Biology): “Global Shark Attacks from January to June 2018”
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Gabrielle Jalo (Biomedical Sciences): “Manipulating the Manipulative Disease: Clinical trial on Lyme disease treatment”
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Jeffrey Jia (Biology): “What properly invested Health Care does”
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Hannah Knauf (Biology): “A Decline of Resources for Mental Health”
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**Marvin Lawrence** (Biology): “Cirrhosis: Morbidity Rating and Mortality Assessment in America”  
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**Chandler Lazear** (Anthropology): “Rise of the Aztec State”  
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**Brian Lee** (Honors): “A Job for You and What you Need to Know”  
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**Bianca Leon** (Biology): “Manatee Death in Florida in the Year of 2016 Due to Red Tide”  
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**Lexi Mancini** (Interdisciplinary Social Sciences): “A Sociological Interpretation of Uniqueness”  
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**Laura Manke** (Education): “Give Me Liberty or Give Me Death: 5th grade's journey into the American Revolution”  
Faculty Sponsor: Heather Duncan

**Ashlee Whitman** (Biology): “Disintegrating starfish...What is causing this phenomenon”  
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**Mary Winemiller** (Biology): “A Preliminary Study of Mental Health and Wellness in Veterinary Field in Pinellas County”  
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**Alexander Witherspoon** (Biology): “The Fifty Largest Companies in the World: Analyzing Possible Predictors of Success” and “Influence of Bird Type on Hatching Behavior”  
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**Winnie Zheng** (Biology): “Factors That Effects Dimensional Accuracy of Alginate Impressions”  
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**Collaborative**

**Karla Alvarado, Darby Blekicki, Berni Berkower** (Biology, Anthropology): “Uncovering Seeds of Sorry: A Tragedy of Lake City, South Carolina”  
Faculty Sponsor: Anna Dixon

**Alexandra Bauman, Dimitri Dimopoulos** (Psychology): “Does Gender Influence Career Decisions for Dual-Earning Couples?”  
Faculty Sponsor: Mark Pezzo

**James Berg, Patience Converse** (Criminology): “DUI Arrests in St. Petersburg, FL January 2014 - December 2018”  
Faculty Sponsor: Mark Pezzo
Chloe Thirion (Honors): “The Way Women Work”  
Faculty Sponsor: Rebecca Harris

Madeline Thorpe (Biology): “Study of Sargassum Community Structure”  
Faculty Sponsor: Joan Herrera

Nicholas Tijerina (Biology): “State of Breath: Regions Affected by Asthma”  
Faculty Sponsor: Deby Cassill

Katherine Timer (Biomedical Sciences): “Child’s Best Friend?: A Study of Dog Bites in Children”  
Faculty Sponsor: Deby Cassill

Nicole Tran (Psychology): “Recruitment and Retention of Older Adults in Longitudinal Randomized Controlled Trials”  
Faculty Sponsor: Jennifer O’Brien

Tuyen Tran (Biomedical Sciences): “Immigration and Outmigration”  
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Blake Waller (Psychology): “Charting the Dangers of Cataracts”  
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Elliana Walster (Biology): “Lovers in Paradise”  
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Thomas Webster (Biology): “Adolescent Obesity: Behavioral Factors”  
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Nicholas Weibel (Biology): “A Survey of Coffee Consumption”  
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Kaylee Wells (Biology): “Stop Elephant Poaching”  
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Billie Mealey (Biology): “Free Willie!”  
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Justin Morera (Biology): “PA+H to Excellence: A Study of the Mathnasium’s Capabilities”  
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Courtney Navarrete (Biology): “Game of Tusks”  
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Brianna Nicholas (Business): “The ‘Golden Retriever’ of Cats”  
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Rosane Nieves (Biology): “Living with vitiligo”  
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Nicole Niklasch (Biology): “Killer Kats”  
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Andrea Orleanski (Biology): “Injuries in Different Sports”  
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Hunter Osborne (Biology): “Don’t Hate Your Dentist More Than You Hate Having A Bad Smile!”  
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Orlando Perdomo (Biomedical Sciences): “Top 10 Cities in the World Based on Gross Domestic Product (GDP)”  
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Joseph Ramsey (Biology): “Do college students drink more coffee?”  
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Faculty Sponsor: Max Owens

Nathan Reiner (Political Science): “Pods in a Blanket”  
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Jessica Renaud (Biology): “Emotional Reactivity and Memory Performance”

Andrew Rene (Biology): “Comparison of PAH levels in an urban vs a suburban setting using organic films on windows”
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Lisa Richardson (Biology): “RMSD Analysis of Pepsin3a at Varying pH”
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Samantha Rivera (Biology): “Analysis of Dental Decays through the Examination of Filling Procedures Among Clearwater”
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Leslie Ryals (Biomedical Sciences): “Stressed? Practice Meditation”
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Yoselyn Santos (Biology): “Maternal investment in bats”
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Rebecca Sauchuk (Biomedical Sciences): “Population Growth and the Spread of Malaria in Sub-Saharan Africa”
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Seamus Schenkenberg (Biology): “Microbial Whiplash”
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Alexis Schlueter (Biomedical Sciences): “Does Java Really Make One Jive? Caffeine Intake”
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Brittany Sides (Biology): “The Talkative Cat”
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Iliana Simo (Biology): “Application of Sound for Bone Loss Detection”
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Kimberly Sprenger (Biology): “Cellular Immunotherapy: Up & coming Applications to Major Neurodegenerative Diseases”
Faculty Sponsor: Hossam Ashour

Diana Stancic (Biology): “Campus Squirrels are Nuts! Anthropogenic Influence on an Urban Adapter”
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Nick Stivali (Biomedical Sciences): “The Dietary Composition of the U.S. and Canada in Recent Years”
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Abigail Taylor (Biology): “Gators Coming on Strong”
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Karly Taylor (Honors): “The Evolution and Future of Access and Support in Diverse Students in Higher Education”
Faculty Sponsor: Thomas Smith

Sierra Taylor (Biology): “Boat vs Manatee: Are Boats the Leading Cause in Manatee Deaths”
Faculty Sponsor: Deby Cassill

Eleni Theocharakis (Biology) “Promiscuity and Sexuality and STIs! Oh My!”
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