10TH ANNUAL STUDENT RESEARCH SYMPOSIUM

Friday, April 15, 2016 | University Hall

PRESENTED BY

Office of the Provost | College of the Arts | College of Education and Human Services
College of Humanities and Social Sciences | College of Science and Mathematics
Feliciano School of Business | The Graduate School

Montclair State University
montclair.edu
To the faculty and student participants of the University-wide Montclair State Student Research Symposium:

This event, with some 230 participants from all across the University, expresses the energy, creativity and hard work of which our students are capable under the mentorship of the faculty. Research is hard when done well and done thoroughly but its rewards can be immense, both as personal satisfaction for the job done and for the new knowledge acquired. Mastering the methods, techniques and tools of an intellectual discipline to the degree required for applying them effectively to a real-world question or problem is the essence of an empowering education. The satisfaction of knowing how to confidently apply oneself to a challenge with the techniques of a microbiologist, a sociologist, a psychologist, an accountant, an audiologist, a filmmaker, a journalist, a teacher or public health specialist, or any of a dozen other disciplinary methodologies, is the reward of a successful education and the key to opening a door into the mansion of lifelong learning.

Even more satisfying and rewarding, then, is the challenge of tackling a problem with a toolbox of multiple methodologies, with an inter- or multi-disciplinary approach, either by mastering several different disciplines yourself, or by combining your own skills and efforts with colleagues trained in other disciplines. You may find that the problem cracks open more quickly and more easily when together you bring the collective weight of your individual skills to bear against it. Or together you can identify and address a question larger and more complex than any you could hope to solve individually. This is what has happened in all fields of human knowledge around us, and it happens because curious students like you are always finding creative new ways to apply the lessons of your teachers either to ancient questions (What is a just society? What are the essential qualities of a successful life? Does poetry matter?) or to previously unknown functions of nature (How well do parrots communicate? How unique is the DNA of surviving native brook trout in New Jersey streams?).

No one will ever answer these questions on their own and no one discipline will serve to do so. That is the challenge and excitement of interdisciplinary cooperation. That is the attraction and promise of this event today, where students from disciplines across the University come together to discuss and share their research on common issues.

The entire faculty of Montclair State are proud of the work you have presented and wish you the best for continued growth and mastery of those skills and achievements.

Dr. Willard Gingerich
Provost and Vice President for Academic Affairs
Schedule

1:00 pm – 1:30 pm  **Registration**  
University Hall Grand Hallway, 1st Floor

1:30 pm – 1:45 pm  **Opening Remarks: Dr. Willard Gingerich**  
Provost and Vice President for Academic Affairs  
*The Intrinsic Value of Interdisciplinary Research*  
University  
University Hall Room 1070

1:50 pm – 2:45 pm  **Oral and Multimedia Presentations Block A**  
Room assignments listed in program

2:45 pm – 3:00 pm  **Break**

3:00 pm – 3:55 pm  **Poster Session Block A**  
University Hall Conference Center, 7th Floor

4:00 pm – 4:55 pm  **Oral and Multimedia Presentations Block B**  
Room assignments listed in program

5:00 pm – 5:55 pm  **Oral and Multimedia Presentations Block C**  
Room assignments listed in program

6:00 pm – 6:55 pm  **Poster Session Block B**  
University Hall Conference Center, 7th Floor

7:00 pm  **Award Presentations and Closing Remarks**  
University Hall Conference Center, 7th Floor
Oral and Multimedia Presentations

Block A: 1:50 pm – 2:45 pm

1. Graduate Award Nominees – University Hall 2044
   Moderator: Dr. Christopher McKinley

   Title: Understanding the recreational harvest of snapping turtles in New Jersey
   Presenter: Natalie Sherwood, Advisor: Dr. Meiyin Wu
   Co-author: Pankaj Lal

   Title: Food choices and health outcomes: An international comparison
   Presenter: Theresa Koneski, Advisor: Dr. Douglas Murray
   Co-author(s): Douglas Murray, Renata Blumberg, Shahla Wunderlich

   Title: Children should be playing at a play - The importance of active participation through play in children's theatre
   Presenter: Rebecca Campbell, Advisor: Ms. Andrea Stover

   Title: "The Monster’s" monster: Race, disability and social darwinism in Stephen Crane’s "The Monster"
   Presenter: Jennifer Daly, Advisor: Dr. Monika Elbert

2. Undergraduate Award Nominees – University Hall 2042
   Moderator: Ms. Linda Davidson

   Title: The making - and unmaking - of The Winter's Tale: A semiology of costumes
   Presenter: Allison Gormley, Advisor: Dr. Neil Baldwin

   Title: RIRPA-based ab initio molecular dynamics
   Presenter: Ryan Dykstra, Advisor: Dr. Hendrik Eshuis

   Title: Latin American approaches to health and healing
   Presenter: Cassandra Calle, Advisor: Dr. Mark Clatterbuck

3. Individual Rights in American Criminal Law – University Hall 2040
   Moderator: Dr. Ian Drake

   Title: Securing the right to privacy in an age of modern surveillance: What happens when technology evolves faster than the law
   Presenter: Mishella Romo, Advisor: Dr. Ian Drake

   Title: Mandatory Minimum Sentences: The Call for Reform in the Criminal Justice System
   Presenter: Justin Rucci, Advisor: Dr. Ian Drake

   Title: Publicized adjudication: The legal and sociological impact of trial publicity in judicial hearings
   Presenter: Ryan Stacy, Advisor: Dr. Ian Drake
Sometimes the wrong choice is the right choice
Presenter: Elias Aydin  Advisor: Dr. Ian Drake

Moderator: Dr. Elizabeth Wishnick

Crime in Peru: Analyzing drug trafficking, narcoterrorism, and corruption
Presenter: Anna Samanamu  Advisor: Dr. Elizabeth Wishnick

Ebola and health security in Sierra Leone
Presenter: Samuel Gundlach  Advisor: Dr. Elizabeth Wishnick

“Somali piracy”: Human security and state security threats
Presenter: Zahra Mustamand  Advisor: Dr. Elizabeth Wishnick

Saudi Arabia's border security dilemma
Presenter: Travis Gross  Advisor: Dr. Elizabeth Wishnick

5. Higher Education and Pedagogy – University Hall 2026
Moderator: Dr. Peter Hosick

Assessing the state of academic programs in sports, events and tourism at universities across the USA - Looking at trends and what they suggest for pedagogy and career development
Presenter: Jessica Karwowski  Advisor: Dr. Ricard Jensen

Nurturing teacher leaders through actions and agency: A differentiated science teacher leadership program
Presenter: Zareen Rahman  Advisor: Dr. Mika Munakata
Co-author(s): Jason McManus, Kristen Trabona

Introducing dynamic measurement: A new approach to area and volume
Presenter: Debasmita Basu  Advisor: Dr. Nicole Panorkou
Co-author: Madhavi Vishnubhotla

Conceptualization of scientific inquiry: An analytical review of the empirical literature
Presenter: Theodore Graham  Advisor: Dr. Brian Carolan

Going overseas: Challenges, benefits and lessons learned from international evaluation
Presenter: Marisa MacDonnell  Advisor: Dr. Jennifer Urban
Co-author(s): Lauren Gama, Victoria Illnick, Rebecca Jensen, Lisa Chauveron, Veronica Barrios, Miriam Linver, Jennifer Urban
6. **Government Regulation and Regulatory Policy – University Hall 2025**  
Moderator: Dr. Vikash Singh

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<tr>
<th>Title</th>
<th>Presenter</th>
<th>Advisor</th>
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<tr>
<td>A content analysis of FDA warning letters issued to pharmaceutical companies</td>
<td>Avianca Goldston</td>
<td>Dr. Yam Limbu</td>
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<td>Co-author(s):</td>
<td>Michael Jarjoura, Louis Marucci</td>
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<tr>
<td>What can we learn from warning letters issued to tobacco retailers?</td>
<td>Victoria Stein</td>
<td>Dr. Yam Limbu</td>
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<td>Co-author(s):</td>
<td>Frank Costa, Brandon Pepi</td>
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<tr>
<td>The impact of deregulation of extended opening hours on small retailers’ productivity and quality of life: Evidence from Italy</td>
<td>Cynthia Kum</td>
<td>Dr. Valerio Temperini</td>
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<tr>
<td>Co-author:</td>
<td>David Lee</td>
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<tr>
<td>The modern day mercantilist system: The state of nature for multinational corporations</td>
<td>Troy Dorch</td>
<td>Dr. Ian Drake</td>
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7. **Art, Design, Gender – University Hall 2013**  
Moderator: Dr. Mary Naumoff

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<tr>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>Shiva Nataraja, the lord of dance</td>
<td>Gorkem Eroglu</td>
<td>Dr. Elizabeth Valdez del Alamo</td>
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<td>Splash dynamics of paint on dry, wet, and cooled surfaces</td>
<td>David Baron</td>
<td>Dr. Ashwin Vaidya</td>
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<td>Co-author:</td>
<td>Ashwin Vaidya, Haiyan Su</td>
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<td>Menswear inspired by womenswear</td>
<td>Christopher Jones</td>
<td>Dr. Abby Lillethun</td>
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<td>Consequences of pleasure: The wolf of Wall Street and the subversion of the male gaze</td>
<td>Daniel Ferrer</td>
<td>Dr. Marylou Naumoff</td>
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8. **Sports and Social Media – University Hall 2010**  
Moderator: Dr. Ricard Jensen

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<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>Testing of twitter visual analytics to assess social media conversations (facebook, twitter and Instagram) about the Portland Timbers of major league soccer</td>
<td>Nick Carbonaro</td>
<td>Dr. Ricard Jensen</td>
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<tr>
<td>Co-author(s):</td>
<td>Mike Lutes, Josh Roth</td>
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<tr>
<td>Examining social media conversations about the 2015 FIFA Women’s World Cup</td>
<td>Sydney Garcia</td>
<td>Dr. Ricard Jensen</td>
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<tr>
<td>Co-author(s):</td>
<td>Phil Forde, Sydnie Martinez</td>
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</table>
Title: Identifying how soccer clubs in the English Premier League are using social media for sports marketing - A detailed look at the use of facebook, twitter, YouTube, and other new media by professional soccer clubs
Presenter: Kent Sagun
Co-author(s): Gregory Jobeless, Chris Borroso
Advisor: Dr. Ricard Jensen

Title: Exploring twitter visual analytics to assess sponsor exposure from televised broadcasts of the Portland Timbers of major league soccer
Presenter: Sadaf Chagatay
Co-author(s): Michelle Buestan, Timothy Youngman
Advisor(s): Dr. Ricard Jensen, Dr. Yam Limbu

Title: Examining television ratings in New Jersey and New York for the 2015 FIFA Women's World Cup - Implications for sports marketing
Presenter: Jarrell Lozada
Co-author: Rokhaya Fall
Advisor: Dr. Ricard Jensen

9. Ecology and Environmental Health – University Hall 2009
Moderator: Dr. Meiyin Wu

Title: Experimental assessment of floating seagrass wrack as potential habitat for benthic organisms
Presenter: Joseph McGinnis
Co-author: Paul Bologna
Advisor: Dr. Paul Bologna

Title: Macroinvertebrate assemblages in selected New Jersey springs
Presenter: Yaritza Acosta-Caraballo
Advisor: Dr. Meiyin Wu

Title: A phosphorus sediment storage assessment of Lake Hopatcong (NJ)
Presenter: Alessandra Rossi
Co-author(s): Kevin Olsen, Meiyin Wu
Advisor: Dr. Meiyin Wu

Oral and Multimedia Presentations
Block B: 4:00 pm – 4:55 pm

1. Nutrition – University Hall 2008
Moderator: Dr. Douglas Murray

Title: A content analysis of regulatory letters released to dietary supplement manufacturers
Presenter: Nisa Arias
Co-author(s): Rosenny Martinez, Imani Odom, Frank Buchel
Advisor: Dr. Yam Limbu

Title: Comparing measurements of emotional reactions to salt intake using facereader and hedonic self-reports: A preliminary study
Presenter: Mohamad Khair
Co-author(s): Renata Blumberg, Charles Feldman, Shahla Wunderlich
Advisor: Dr. Charles Feldman
Title: Environmental determinants of healthy food choices  
Presenter: Iman AbdulRafiu  
Co-author(s): Erin Leo, Rebecca Bohmer  
Advisor: Dr. Deborah Ragin

2. Literature – University Hall 2044  
Moderator: Dr. Melinda Knight

Title: Langston Hughes; More than poetry, more than prose  
Presenter: Rashaneegon Johnson  
Advisor: Dr. Melinda Knight

Title: The existential dilemma of Harlem Renaissance author Nella Larsen  
Presenter: Kim Silva-Martinez  
Advisor: Dr. Melinda Knight

Title: Becoming one with time: Literary immortality in “Sonnet 18”  
Presenter: Faneeya Latchana  
Advisor: Dr. Adam Rzepka

Title: "She is gone": Melancholy in donne's anniversaries  
Presenter: Kimberly Plaksin  
Advisor: Dr. Adam Rzepka

Title: Facts in fiction: An interdisciplinary approach to gaining legal understanding through literature  
Presenter: Lauren Haberstroh  
Advisor: Dr. Marilyn Tayler

3. Literature and Multiculturalism – University Hall 2042  
Moderator: Dr. Linda Gould Levine

Title: The new testament as a "Greek classics"  
Presenter: Benjamin Miller  
Advisor: Ms. Beth Scheckel

Title: Don Quijote: “Stew a la cervantes - Un potage a la Cervantes”  
Presenter: Joseph Diaz  
Advisor: Dr. Linda Gould Levine

Title: The complex identity of Quisqueya, Haiti  
Presenter: Cala Fils  
Advisor: Dr. Joanna Dezio

Title: The influence of Don Quixote de la Mancha on the silent films of Charlie Chaplin  
Presenter: Joseph Gonzalez  
Advisor: Dr. Linda Gould Levine

Title: Lineage: A humanist interpretation of Don Quijote  
Presenter: Wilkin Santana  
Advisor: Dr. Linda Gould Levine

4. Race and Ethnicity – University Hall 2040  
Moderator: Dr. Sangeeta Parashar

Title: Racially charged costumes: A report on 'othering' behavior  
Presenter: Fe Lorraine Reyes  
Advisor: Dr. Marylou Naumoff
Title: **Borderlands and Mexican-American identity**  
Presenter: Mia Gomez  
Advisor: Dr. Elspeth Martini

Title: **Latino youth advocating for social change**  
Presenter: Carolina Mendonca  
Advisor: Dr. Bradley Forenza  
Co-author: Bradley Forenza

Title: **America’s caste system: Intergenerational mobility from 1972-2012**  
Presenter: Michelle Strothers  
Advisor: Dr. Sangeeta Parashar  
Co-author: Shannel Paulino

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5. **Business and Economics – University Hall 2032**  
**Moderator: Dr. Elspeth Martini**

Title: **Statistical models for predicting credibility for bankers**  
Presenter: Michael Restrepo  
Advisor: Dr. Haiyan Su

Title: **Is there profitability in responsibility?**  
Presenter: Nicholas William  
Advisor: Dr. Manveer Mann

Title: **The prevalence of social media marketing among Italian SMEs**  
Presenter: Alban Dalliu  
Advisor: Mr. Valerio Temperini  
Co-author(s): Farakh Chaudhry, Jovan Djuratovic

Title: **Economic inconsistencies of the mid-twentieth century and the unfulfilled mission of the national park service**  
Presenter: Christopher Sudol  
Advisor: Dr. Esperanza Brizuela-Garcia

Title: **Borderlands in the Great Lakes: The native struggle redefined**  
Presenter: Taylor Hagy  
Advisor: Dr. Elspeth Martini

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6. **Health Care Policy and Public Health – University Hall 2026**  
**Moderator: Dr. Lisa Lieberman**

Title: **A view on the constitutional rights of adolescent patients**  
Presenter: Brian Murray  
Advisor: Dr. Ian Drake

Title: **A social ecological perspective on the Indonesian maternal mortality problem**  
Presenter: Inraini Syah  
Advisor: Dr. Amanda Birnbaum

Title: ‘**Nicotine free challenge’ call for actions!**  
Presenter: Kadek Ridoi Rahayu  
Advisor: Dr. Lisa Lieberman

Title: **An environmental assessment of drinking fountains and vending machines**  
Presenter: Alessandro Ciari  
Advisor: Ms. Melanie Shefchik

Title: **Fatalities on America’s highways: Trends and tendencies**  
Presenter: Keyan Ostad-Hashemi  
Advisor: Dr. Greg Pope
7. Chemistry and Biochemistry I – University Hall 2025
Moderator: Dr. Nina Goodey

Title: Ionic liquid based fluorescent sensors for cations
Presenter: Johanna Breininger Advisor: Dr. Saliya Desilva

Title: A fluorescent sensor for Zinc (II) ions with an additional PET pathway to suppress protons signals
Presenter: Brian Huapaya Advisor: Dr. Saliya Desilva
Co-author: Andrew Schneier

Title: Metals and microbes at Liberty State Park
Presenter: Eleanor Ojinnaka Advisor: Dr. Nina Goodey
Co-author(s): Nina Goodey, Jennifer Krumins, Jay Singh

Title: Expression, purification, and enzymatic profile of Brugia malayi dihydrofolate reductase
Presenter: Romy Perez-Abraham Advisor: Dr. Nina Goodey

8. Chemistry and Biochemistry II – University Hall 2013
Moderator: Dr. Sandra Passhier

Title: Binding of KL001 to CRY-DASH as a function of FAD oxidation state
Presenter: Pamela Jumbo Cueva Advisor: Dr. Yvonne Gindt
Co-author(s): David Konas, Derek Darby, Yvonne Gindt

Title: Modeling the formation of tetrahydropyranyl radicals via hydrogen abstraction
Presenter: Robert Booth Advisor: Dr. Marc Kasner

Title: Investigation of pH effects on the formation and degradation of unusual oxidation states in Sufolobus solfataricus photolyase
Presenter: Justin Vercellino Advisor: Dr. Yvonne Gindt
Co-author(s): Mengqi Li, Sudipto Munshi, Robert Stanley, Yvonne Gindt

9. Environment and Disasters – University Hall 2010
Moderator: Dr. Jennifer Krumins

Title: Environmental correlates of ranavirus disease distribution in New Jersey
Presenter: Adriana Messyasz Advisor: Dr. Lisa Hazard
Co-author(s): Lisa Hazard, Kirsten Monsen-Collar

Title: Analysis of pliocene core DVDP-11 as evidence of a vegetated coastline
Presenter: Christina Verhagen Advisor: Dr. Sandra Passchier

Title: Transport and distribution of heavy metals in sediment in Bohai Bay
Presenter: Yuanyi Li Advisor: Dr. Huan Feng
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie
Oral and Multimedia Presentations  
Block C: 5:00 pm – 5:55 pm

1. War and Violence - University Hall 2009  
Moderator: Dr. Brian Smith

Title: Causal effects of occupation: What drives individuals to violence?  
Presenter: Travis Gross  
Advisor: Dr. Tony Spanakos

Title: Because God says so! How and why cult members fall victims of the Stockholm syndrome: The example of Jonestown  
Presenter: Seraphine Nzue-Agbadou  
Co-author: Grace Agbadou  
Advisor: Dr. Lois Oppenheim

Title: Democracy in the Middle East and its effect on human rights: An interdisciplinary analysis  
Presenter: Tamara Anaie  
Advisor: Dr. Ian Drake

Title: The liberal and realist approach for war and peace  
Presenter: Valeria Valle  
Advisor: Dr. Brian Smith

2. Infants, Children, and Youth – University Hall 2008  
Moderator: Dr. Laura Lakusta

Title: The language of support in young children’s spontaneous speech  
Presenter: Maria Brucato  
Co-author(s): Amrita Bindra, Madalyn Polen, Laura Lakusta, Barbara Landau  
Advisor: Dr. Laura Lakusta

Title: Infants categorization of goal events  
Presenter: Danielle Spinelli  
Co-author: Samantha Farese  
Advisor: Dr. Laura Lakusta

Title: Thinking ahead: The role of goal selection in youth future mindedness  
Presenter: Marisa MacDonnell  
Co-author(s): Lisa Chauveron, Veronica Barrios, Lauren Gama, Victoria Illnick, Rebecca Jensen, Miriam Linver, Jennifer Urban  
Advisor: Dr. Jennifer Urban

Title: Predicting positive youth development from self regulation and sense of purpose in early adolescence  
Presenter: Lauren Gama  
Co-author(s): Victoria Illnick, Marisa MacDonnell, Veronica Barrios, Lisa Chauveron, Rebecca Jensen, Miriam Linver, Jennifer Urban  
Advisor: Dr. Miriam Linver
### 3. Social Justice - University Hall 2008
**Moderator:** Dr. Tony Spanakos

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<tr>
<th>Title</th>
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<tr>
<td>Social justice in developmental science</td>
<td>Veronica Barrios</td>
<td>Dr. Jennifer Urban</td>
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<td>Co-author(s): Marisa MacDonnell, Lisa Chauveron</td>
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<td>Factors predicting unmet need and contraception use among married women in Pakistan</td>
<td>Muhammad Raza</td>
<td>Dr. Bradley van Eeden-Moorefield</td>
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<td>The brics: A model for poverty reduction?</td>
<td>Matthew Zuccaro</td>
<td>Dr. Tony Spanakos</td>
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<td>Two decades, two worlds - A look into the 1996 and 2016 Olympic games</td>
<td>Emma Cimo</td>
<td>Ms. Kelly Whiteside</td>
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<td>Co-author: Fabricio Costa</td>
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### 4. Myth – University Hall 2042
**Moderator:** Dr. Glen Gill

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<td>Agricultural symbolism as the foundation of myth</td>
<td>Samantha Bohr</td>
<td>Dr. Glen Gill</td>
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<td>Mythology and the human psyche: C.G. Jung on the rebirth of man</td>
<td>Ryan Oxild</td>
<td>Dr. Glen Gill</td>
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<td>Classical and medieval mythologies through the lens of Freud</td>
<td>Daniel Salazar</td>
<td>Dr. Glen Gill</td>
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### 5. Linguistics – University Hall 2040
**Moderator:** Dr. Anna Feldman

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<tr>
<td>Automatic annotation of game-changing events in an eSports corpus</td>
<td>Emily Olshefski</td>
<td>Dr. Anna Feldman</td>
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<td>Unsupervised identification of idiomatic expressions</td>
<td>Hamza Jazmati</td>
<td>Dr. Anna Feldman, Dr. Jing Peng</td>
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<td>The importance of visual prosody in sentiment discrimination</td>
<td>Joanne Quinn</td>
<td>Dr. Jonathan Howell</td>
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6. Technology – University Hall 2032  
Moderator: Dr. Yi Luo

Title: Identifying users in an anonymized social network  
Presenter: Andrew Pallotto  Advisor: Dr. Jonathan Cutler

Title: Rights for robots? Should beings with artificial intelligence be accorded human rights?  
Presenter: Priya Persaud  Advisor: Dr. Ian Drake

Title: Bridging the 2nd and 3rd dimensions: Crossing over  
Presenter: Evans Mbai  Advisor: Ms. Lauren Carr

7. Counseling and Psychology – University Hall 2026  
Moderator: Dr. Joshua Sandry

Title: Applying neuroscience research to counseling practice for neurocurious clinicians  
Presenter: Kathy Shoemaker  Advisor: Dr. Leslie Kooyman

Title: The relationship between bullying and suicidal ideations among suburban adolescents: The mediating risk factors  
Presenter: David Lardier Jr.  Advisor: Dr. Robert Reid  
Co-author(s): Veronica Barrios, Pauline Garcia-Reid, Robert Reid

Title: The effect of future oriented tasks vs incidental orienting task on item-to-item associations  
Presenter: Victoria Winters  Advisor: Dr. Joshua Sandry

Title: Flexibility of the focus of attention and its effect on long-term memory for sequentially presented information  
Presenter: Mark Zuppichini  Advisor: Dr. Joshua Sandry  
Co-author: Joshua Sandry

8. Microbiology and Natural Products – University Hall 2025  
Moderator: Dr. Lee Lee

Title: Testing the efficacy of green tea polyphenols in inhibiting the germination of endospores of Bacilli sp. through in-vitro analysis  
Presenter: Bushra Ali  Advisor: Dr. Lee Lee

Title: Green tea polyphenols inhibit biofilm formation in the dental cavity causing bacteria streptococcus mutans  
Presenter: Amy Lynn Melok  Advisor: Dr. Lee Lee

Title: Green tea polyphenols and antibiotics synergistically inhibit the growth of bacteria  
Presenter: Siti Ayuni Mohamed Yussof  Advisor: Dr. Lee Lee
Title: Analysis of novel alternative to targeting prosthetic joint infections in vitro
Presenter: Christopher Chen  Advisor: Dr. Lee Lee

Moderator: Dr. Eric Forgoston

Title: Gravitational waves from eccentric binaries
Presenter: Blake Moore  Advisor: Dr. Marc Favata

Title: "Early-warning signals" predictors of extinction events in dynamical models
Presenter: Walter Ullon  Advisor: Dr. Eric Forgoston

Title: The ping-pong effect: Extinction dynamics in stochastic populations with migration
Presenter: Alexa Aucoin  Advisor: Dr. Eric Forgoston

Title: Randić connectivity indices and energy of cycle based graphs
Presenter: Jhonny Almeida  Advisor: Dr. Aihua Li
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<th>Title</th>
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<tr>
<td><strong>Graduate Award Nominees for Poster Presentations</strong></td>
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<tr>
<td><strong>Hostile intent cognitions as a moderator of negative life events and aggression in school-aged children (A37)</strong></td>
<td>Evelyn Duran</td>
<td>Holly Kobezak, Jenna Taffuri, Jeremy Fox, Julie Ryan, Leslie Halpern</td>
<td>Dr. Jeremy Fox</td>
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<td><strong>Exploring variations in teacher and student agency in an out-of-school videogame-based mathematics class (A69)</strong></td>
<td>Justin Seventko</td>
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<td>Dr. Steven Greenstein</td>
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<td><strong>Undergraduate Award Nominees for Poster Presentations</strong></td>
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<td><strong>Unlawful enemy combatants: The rights of a faceless enemy (A66)</strong></td>
<td>Jonathan Kyparissis</td>
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<td>Dr. Ian Drake</td>
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<td><strong>Music influences food selection (A68)</strong></td>
<td>Sarah Lyons</td>
<td>Alexandra Pyper, Tamaru Geller, Khadeeja Riaz, Scarlet Ruiz, Sara Panei</td>
<td>Dr. Debra Zellner</td>
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<td><strong>Green tea polyphenols: A potential synergistic antibacterial agent in oral care products (A1)</strong></td>
<td>Yasmeen Abboud</td>
<td>Amy Lynn Melok, Siti Ayuni Mohamed Yossuf, Lee Lee, Christopher Chen</td>
<td>Dr. Lee Lee</td>
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<td><strong>Comparison of turn alternation frequencies in nymph and adult Turkestan Cockroaches (Blatta lateralis) (A2)</strong></td>
<td>Andrew Aboagye</td>
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<td>Dr. Scott Kight</td>
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<td><strong>Determining the optimal starting technique for stealing a base (A3)</strong></td>
<td>Connor Abreu</td>
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<td>Dr. Steven Leigh</td>
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<td><strong>Macroinvertebrate assemblages in selected New Jersey springs (A4)</strong></td>
<td>Yaritza Acosta-Caraballo</td>
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<td>Dr. Meiyin Wu</td>
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Title: Class connect (A5)
Presenter: Jeffrey Adamski
Co-author: Sebastian Kufel
Advisor: Dr. Christopher Leberknight

Title: Model and analysis of statewide precipitation data over recent years (A6)
Presenter: Sahar Ahmed
Advisor: Dr. Andrew McDougall

Title: Examining how allosteric mutations affect ligand binding and specificity on dihydrofolate reducetase (A7)
Presenter: Melany Alfonso
Co-author(s): Nina Goodey, Romy Perez, Danielle Marie Le Roux
Advisor: Dr. Nina Goodey

Title: Coping with loss and bereavement across long distances: Reflections of older immigrants (A8)
Presenter: Eva Apelian
Co-author(s): Olena Nesteruk, Ronica Pangilinan
Advisor: Dr. Olena Nesteruk

Title: Language development of goal spatial prepositions (A9)
Presenter: Jessica Ardis
Co-author(s): Laura Lakusta, Amrita Bindra, Michelle Indarjit
Advisor: Dr. Laura Lakusta

Title: Prevalence of the pathogens Ranavirus and Batrachochytrium dendrobatidis among Woodfrog populations in the Pinelands (A10)
Presenter: Araba Assan
Co-author: Dwa'a Alkhalaf
Advisor: Dr. Kirsten Monsen-Collar

Title: Green infrastructure (A11)
Presenter: Mikayla Atkins
Advisor: Dr. Greg Pope

Title: A potential role for 5,10-methenyltetrahydrofolate to protect flavin adenine dinucleotide in the DNA repair enzyme photolyase (A12)
Presenter: Stephanie Avalos
Co-author: Johannes Schelvis
Advisor: Dr. Johannes Schelvis

Title: Application of near surface geophysical methods to image water table response in an Alpine Meadow, Northern California (A13)
Presenter: Mike Ayers
Co-author(s): Tanya Blacic, Mitchell Craig, Sarah Yarnell
Advisor: Dr. Tanya Blacic
Title: Eye-tracking fixation variation and interaction between verb telicity and adverb type (A14)
Presenter: Froogh Aziz
Advisor: Dr. David Townsend

Title: Should college athletes receive compensation? (A15)
Presenter: Kyle Banas
Advisor: Dr. Ian Drake

Title: Impacts of gelatinous Zooplankton on pelagic community structure in Barnegat Bay, NJ (A16)
Presenter: Christie Barry
Co-author(s): Paul Bologna, John Gaynor
Advisor: Dr. Paul Bologna

Title: Coastal vulnerability of Atlantic County New Jersey (A17)
Presenter: Anthony Bevacqua
Advisor: Dr. Danlin Yu

Title: The ecology of St. John Bay mangrove-root fouling communities: Recovery of the epibiota community (A18)
Presenter: Alan Buob
Co-author: Paul Bologna
Advisor: Dr. Paul Bologna

Title: Comparison of DNA repair in mesophilic and thermophilic systems (A19)
Presenter: Elizabeth Burger
Co-author: Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Title: Love that dirty water: Potential microbial diversity in on-street hot dog water (A20)
Presenter: Nelson Casanova
Co-author(s): Jessica Rajchel, Annamaria De Bari, Julian Paul Keenan, Robert Meredith
Advisor: Dr. John Gaynor

Title: MSU sustainability center: Inspired by earthship (A21)
Presenter: Stephano Castro
Advisor: Dr. Robert Taylor

Title: Photoactivation of CF3I in the presence of photoexcited Ru(bpy)3+ (A22)
Presenter: Julianna Chedid
Advisor: Dr. Hendrik Eshuis

Title: Gun violence vs. state laws (A23)
Presenter: Matthew Cheung
Co-author(s): Danlin Yu, Jon Zawacki
Advisor: Dr. Greg Pope
Title: Mangroves are dying (A24)
Presenter: Matthew Cheung
Co-author: Jorge Trueba
Advisor: Dr. Jorge Trueba

Title: Preservation of ancient barriers on the continental shelf: Insights from a simple morphodynamic model (A25)
Presenter: Daniel Ciarletta
Co-author: Jorge Trueba
Advisor: Dr. Jorge Trueba

Title: Investigation of the mechanistic switch in VcCry1 (A26)
Presenter: Gabrielle Connolly
Co-author: Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Title: Student enrollment by county and geographic distance decay functions (A27)
Presenter: Isamar Cortes
Advisor: Dr. Greg Pope

Title: Can the use of fuel-efficient (environmentally friendly) automobiles vary in Northern NJ counties? (A28)
Presenter: Isamar Cortes
Advisor: Dr. Greg Pope

Title: Hyaluronidase in the venom of the Sea Nettle (Chrysaora quinquecirrha) (A29)
Presenter: Zachary Cropley
Advisor: Dr. John Gaynor

Title: Does social context influence positional, feeding and aggressive behavior in Turkestan Cockroach Nymphs, Blatta lateralis? (A30)
Presenter: Peter Cruz
Advisor: Dr. Scott Kight

Title: Do secondary school mathematics textbooks provide opportunities for realistic problem-solving? (A31)
Presenter: Mary Dalton
Advisor: Dr. Eileen Fernandez

Title: The euphoric affect of the anti drug abuse act (A32)
Presenter: Rashad Days
Advisor: Dr. Ian Drake
Title: Development of negative mode free radical activated glycan structure elucidation reagents (A33)
Presenter: Nikunj Desai
Co-author: Jungeun Lee
Advisor: Dr. Jinshan Gao

Title: A comparative analysis of the ZAP-70 gene in mammals (A34)
Presenter: Rebecca Dhawan
Co-author: Robert Meredith
Advisor: Dr. Robert Meredith

Title: Female Genital Mutilation in the U.S.: Scope and prevention methods (A35)
Presenter: Mame Kani Diop
Advisor: Dr. Pearl Stewart

Title: Evaluating the consistency of soccer match analysis techniques (A36)
Presenter: Jeffrey Duarte
Co-author: Nicolas Barrios
Advisor: Dr. Steven Leigh

Title: An investigation of automatic access to spatial representations of numbers (A38)
Presenter: Patrick Dwyer
Co-author: Yoav Arieh
Advisor: Dr. Yoav Arieh

Title: Functional consequences of ICER ubiquitination (A39)
Presenter: Dina Edani
Co-author(s): Rossara Nunez, Joseph Bulatowicz
Advisor: Dr. Carlos Molina

Title: Characterization of isolated actinobacteriophage using polymerase chain reaction (A40)
Presenter: Schyler Edwards
Advisor: Dr. Sandra Adams

Title: A tool support for managing implicit requirements using common sense knowledge (A41)
Presenter: Onyeka Emebo
Co-author: Aparna Varde
Advisor: Dr. Aparna Varde

Title: Annotation of novel Mycobacterium and Arthrobacter bacteriophage genomes from New Jersey soil (A42)
Presenter: Tony Feghali
Advisor: Dr. Kirsten Monsen-Collar
Title:  French language, identity, and discrimination (A43)
Presenter:  Dustine Finck
Advisor:  Ms. Anne-Caroline Sieffert

Title:  Sharing lab and learning successes: The art of public relations (A44)
Presenter:  Lauren Gama
Co-author(s):  Lisa Chauveron, Rebecca Jensen, Marisa MacDonnell, Veronica Barrios, Victoria Illnick, Jennifer Brown Urban, Miriam Linver
Advisor:  Dr. Miriam Linver

Title:  An examination of the sociodemographic and health determinants of major depressive disorders in black women using NHANES data (A45)
Presenter:  Michelle Gardner
Co-author(s):  Ndidiamaka Amutah, Laurén Doamekpor
Advisor:  Dr. Ndidiamaka Amutah

Title:  Effects of World Trade Center 9-11 particulate matter on mitochondrial damage seen in human lung cell in vitro (A46)
Presenter:  Vern Gatson
Co-author(s):  William Shergalis, Christian Gonzales, Rebekah Madrid, Kentrisha Lubin, Momna Hassan
Advisor:  Dr. Ann Marie DiLorenzo

Title:  Computational techniques for measuring internet censorship (A47)
Presenter:  Zhisong Ge
Advisor:  Dr. Christopher Leberknight

Title:  New molybdenum bronze phases (A48)
Presenter:  Brian Giraldo
Co-author(s):  Lynn Schneemeyer, Theo Siegrist, Tiglet Besara
Advisor:  Dr. Lynn Schneemeyer

Title:  A hands-on application-based tool for STEM students to understand differentiation (A49)
Presenter:  Briana Goncalves
Co-author(s):  Ausamah Hobbi, Amir Golnabi
Advisor:  Dr. Amir Golnabi

Title:  Isolation and characterization of novel mycobacterium smegmatis and arthrobacter sp. bacteriophage from New Jersey soil (A50)
Presenter:  Wedad Haddabeh
Co-author(s):  Yesenia Acosta, Mohamad Abboud, Jennifer Aguirre, Omran Ahmadi, Edward Anderson, Anthony Arena, Joshua Bacatan, et al.
Advisor:  Dr. Sandra Adams

Title:  Do public prisons achieve the goals of the criminal justice system better than private, for-profit prisons? (A51)
Presenter:  Christopher Halleran
Advisor:  Dr. Ian Drake
Title: Investigating the correlation between cognitive fatigue and brain iron deposition in Basal Ganglia in Multiple Sclerosis (A52)
Presenter: Emilyrose Havrilla
Co-author(s): Sarah Wood, Ekaterina Dobryakova, Zhiguo Jiang, Bing Yao
Advisor: Dr. Josh Sandry

Title: Neuroscience and judging (A53)
Presenter: Markil Howard
Advisor: Dr. Ian Drake

Title: Re-inventing the (pottery) wheel: Ceramic production in ancient Greece (A54)
Presenter: Sophia Hudzik
Advisor: Dr. Deborah Chatr Aryamontri

Title: Groundwater depletion in aquifers of the New Jersey coastal plain (A55)
Presenter: Michael Johnson
Advisor: Dr. Greg Pope

Title: Investigating cervical spine motion while transferring football players to a stretcher (A56)
Presenter: Jennifer Kalash
Co-author: Tyler Melnicove
Advisor: Dr. Steven Leigh

Title: Measuring vortex length through numerical simulation of a flow channel (A57)
Presenter: Matt Karlson
Advisor: Dr. Bogdan Nita

Title: Determining late pleistocene to early holocene deglaciation patterns within the Hanö Bay of the Baltic Sea through sedimentological core sample analysis (A58)
Presenter: April Kelly
Co-author: Sandra Passchier
Advisor: Dr. Sandra Passchier

Title: Socioeconomic status and malnutrition: A global approach (A59)
Presenter: Ora Kemp
Advisor: Dr. Amanda Birnbaum

Title: Molecular cloning and expression of chrysaoralin: A novel pore-forming toxin from jellyfish venom (A60)
Presenter: Anup Khanal
Co-author: George Shchegolev
Advisor: Dr. John Gaynor

Title: Meaning behind English intonation for native Indonesian L2 learners (A61)
Presenter: Uswatun Khasanah
Co-author: Gina Cordero
Advisor: Dr. Jonathan Howell
Coupled modeling of coastal dunes and socio-economic impacts (A62)
Presenter: Jesse Kolodin
Advisor: Dr. Jorge Trueba

Salinity tolerance of two-lined salamanders (A63)
Presenter: Kelly Krolik
Advisor: Dr. Lisa Hazard

Grain size and organic geochemistry of the Kattegat sediment to determine paleoenvironments of the last interglacial-glacial cycle (A64)
Presenter: Taylor Krolik
Advisor: Dr. Sandra Passchier

The debate on immunizations (A65)
Presenter: Mildred Kroung
Advisor: Dr. Ian Drake

Poster Presentations
Block B: 6:00 pm – 6:55 pm
(Alphabetical by Presenter’s Last Name)

Maximum or minimum RCI values of graphs consisting of trees with a hexagonal base (B1)
Presenter: Giancarlo Labruna
Advisor: Dr. Aihua Li

A biometric analysis of mate choice copying in people (B2)
Presenter: Jonathan Lenhardt
Advisor: Dr. Peter Vietze

The kinetics of the formation and degradation of interesting oxidation states found with sulfolobus solfataricus photolyase (B3)
Presenter: Mengqi Li
Co-author(s): Justin Vercellino, Sudipto Munshi, Robert Stanley, Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Transport and distribution of heavy metals in sediment in Bohai Bay (B4)
Presenter: Yuanyi Li
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie
Advisor: Dr. Huan Feng

Diadema antillarum population density, size distribution, and biomass in an UNESCO biosphere reserve (B5)
Presenter: Lauren Liddy
Advisor: Dr. Paul Bologna
Title: Geochemistry of the east antarctic margin spanning the eocene oligocene transition (B6)
Presenter: Jennifer Light
Co-author: Sandra Passchier
Advisor: Dr. Sandra Passchier

Title: The process of the creation of the play-based observation of development and interaction tool at the Center for Autism and Early Childhood Mental Health (B7)
Presenter: Andrew Lokai
Co-author(s): Alison Stratthaus, Keri Georgewitz, Jessica Maneri
Advisor: Kaitlin Mulcahy

Title: Structural characterization of thymine cyclobutane dimers in solution (B8)
Presenter: Michael Lorence
Advisor: Dr. Johannes Schelvis

Title: Comparative analysis of COL1A1 gene in different mammals (B9)
Presenter: Israa Maani
Co-author: Robert Meredith
Advisor: Dr. Robert Meredith

Title: Police attitudes in a new era: A look at how the new millennium has changed the New York tri-state area’s police (B10)
Presenter: Tara Mahady
Advisor: Dr. Christopher Donoghue

Title: Effect of fertilization on native and non-native wetland plants (B11)
Presenter: Martha Mahady
Advisor: Dr. Dirk Vanderklein

Title: Benefit-based tree and valuation of an urban Forest City park system; Columbus Park-Hackensack NJ (B12)
Presenter: Roy Mateus
Advisor: Dr. Greg Pope

Title: United States and FIFA’s World Cup corruption (B13)
Presenter: Justin McAndrew
Advisor: Dr. Ian Drake

Title: The depreciation of property values and home sales caused by vacant and abandoned properties in the city of Newark, New Jersey (B14)
Presenter: Emily McIntosh
Advisor: Dr. Greg Pope

Title: Using software defined radio to test the internet of things (B15)
Presenter: Kevin Miller
Advisor: Dr. Christopher Leberknight
Title: Designing a windwalker: An undergraduate open-ended physics project (B16)
Presenter: Ceire Monahan
Advisor: Dr. Mika Munakata

Title: ELLs and English word stress (B17)
Presenter: Terra Nicoll
Co-author: Emily Peterman
Advisor: Dr. Jonathan Howell

Title: The effect of pH and charybdotoxin on growth of human glioma cell lines (B18)
Presenter: Chelsea O’Koren
Co-author(s): Mike Young, Vladislav Snitsarev, Elena Petroff
Advisor: Dr. Elena Petroff

Title: Sequence variants of the pathogen ranavirus isolated from northeastern amphibians (B19)
Presenter: Nadeem Obaydou
Co-author(s): Kirsten Monsen-Collar, Lisa Hazard, Fathima Idris
Advisor: Dr. Kirsten Monsen-Collar

Title: Lipophilic green tea polyphenol can inhibit bacteria growth and endospore formation in food and milk (B20)
Presenter: Chinweude Okani
Co-author(s): Bushra Ali, Brianne Cravello, Lee Lee
Advisor: Dr. Lee Lee

Title: Vaccines (B21)
Presenter: Pasquale Pascarella
Advisor: Dr. Ian Drake

Title: Episodic memory performance in inconsistent-relative to consistent right-handers (B22)
Presenter: Neil Patel
Co-author(s): Ruth Propper, Christophe Carlei, Stephen Christman
Advisor: Dr. Ruth Propper

Title: Recreational beach erosion on the New Jersey shoreline (B23)
Presenter: Rachel Preece
Advisor: Dr. Greg Pope

Title: Characterization of a parasitic anti-stress protein kinase, SEK-1, from Brugia malayi (B24)
Presenter: Monika Prorok
Co-author(s): Agnieszka Chojnowski, Tamara Kreiss
Advisor: Dr. John Siekierka
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<th>Presenter</th>
<th>Advisor</th>
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<td>Grazing potential of sparisma radians on native seagrass (Thalassia</td>
<td>Elizabeth Pudlak</td>
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<td>testudinum) and invasive seagrass (Halophila stipulacea) in St. John,</td>
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<td>New rock climbing recreation areas: Piecing together data to find new</td>
<td>Arianna Qira</td>
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<td>Using the chain rule to develop secondary school teachers’</td>
<td>Zareen Rahman</td>
<td>Dr. Eileen Murray</td>
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<td>mathematical knowledge for teaching, focused on the rate of change:</td>
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<td>Secondary mathematics teachers’ knowledge of the chain rule and its’</td>
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<td>impact on their teaching of the rate of change (B27)</td>
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<td>Green tea polyphenols can inhibit endospore sporulation in Bacillus</td>
<td>Richa Rana</td>
<td>Dr. Lee Lee</td>
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<td>Genetic diversity of red mangroves (Rhizophora mangle) in a UNESCO</td>
<td>Dena Restaino</td>
<td>Dr. Paul Bologna</td>
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<td>biosphere reserve, St. John, USVI (B29)</td>
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<td>Rome in America: How ancient roman law has influenced modern</td>
<td>Christian Rivera</td>
<td>Dr. Ian Drake</td>
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<td>Project DASH: (Divas against the spread of HIV/AIDS) results of a</td>
<td>Monica Rodriguez</td>
<td>Dr. Ndidi Amutah</td>
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<td>Piercing the power of populism: Constructing judicial</td>
<td>Mishella Romo</td>
<td>Dr. Tony Spanakos</td>
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<td>empowerment and independence in Latin America (B32)</td>
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<td>Multidisciplinary environmental assessment of Greenwood Lake</td>
<td>Alessandra Rossi</td>
<td>Dr. Meiying Wu</td>
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Title: **Green tea polypehnols with antibiotics reverse the biofilm formation in bacteria (B34)**
Presenter: Angela Salazar
Co-author(s): Siti Ayuni Mohamed Yussof, Amy Lynn Melok, Lee Lee, Shrameeta Shinde, Giselle Lalata
Advisor: Dr. Lee Lee

Title: **In vitro synergistic antiviral activity of epigallocatechin gallate-strearate and acyclovir on herpes simplex virus types 1 and 2 in vero cells (B35)**
Presenter: Bianca Sanabria
Advisor: Dr. Sandra Adams

Title: **A legal dissection: The national debate to establish a federal mandate to medically-accurate and comprehensive sex education within a multicultural society (B36)**
Presenter: Montana Scholz
Advisor: Dr. Ian Drake

Title: **Stability study of green tea polyphenols EGCG and EGCG-S as antimicrobial agents (B37)**
Presenter: Emma Seidman
Co-author(s): Brianne Cravello, Yasmeen Abboud
Advisor: Dr. Lee Lee

Title: **The curvilinear effects of extroversion on subjective and objective sales outcomes (B38)**
Presenter: William Sevcik
Advisor: Dr. Daniel Simonet

Title: **Understanding the recreational harvest of snapping turtles in New Jersey (B39)**
Presenter: Natalie Sherwood
Co-author: Pankaj Lal
Advisor: Dr. Meiyin Wu

Title: **Numerical detection of wave breaking in the short-pulse equation (B40)**
Presenter: Jeffrey Slepoi
Advisor: Dr. David Trubatch

Title: **New filter media for urban stormwater management (B41)**
Presenter: Hanieh Soleimanifar
Co-author: Yang Deng
Advisor: Dr. Yang Deng

Title: **A Bioinformatics Study On The Noncovalent Interactions Between The Tea Polyphenol, EGCG-S, And HSV-2 Glycoproteins (B42)**
Presenter: Peter Stamos
Advisor: Dr. Sandra Adams
Title: Combining auditory and visual information in object discrimination: independent vs. integration decision models (B43)
Presenter: William Stoll
Co-author: Yoav Arieh
Advisor: Dr. Yoav Arieh

Title: The transcription and translation of lysin A and lysin B (B44)
Presenter: Nandini Surendranathan
Advisor: Dr. Quinn Vega

Title: Arcade style game development (B45)
Presenter: Eric Svitok
Advisor: Dr. George Antoniou

Title: Screening transgenic zebrafish (Danio rerio) expressing EGFP under an ovarian specific promoter (B46)
Presenter: Aneta Szpernoga
Advisor: Dr. Carlos Molina

Title: Progress on the study of substrate specificity in indole-3-glycerol phosphate synthase (B47)
Presenter: Jessica Tan
Co-author: Kate Pinsley
Advisor: Dr. David Konas

Title: The effects of EGCG-s on gene expression of HSV-1 and HSV-2 (B48)
Presenter: Mariam Tariq
Advisor: Dr. Sandra Adams

Title: Educational access, the community college, and social mobility: Questioning the nature of educational equality and equity (B49)
Presenter: Ricardo Taveras
Advisor: Ms. Marissa Silverman

Title: Do giant waterbugs, belostoma flumineum say, exhibit turn alternation behavior in response to indirect predator cues? (B50)
Presenter: Samantha Tedesco
Co-author: Johnny Hoang
Advisor: Dr. Scott Kight

Title: Investigating the effects of dance training on performance in two dance leaps (B51)
Presenter: Brittany Tierney
Advisor: Dr. Steven Leigh

Title: Expression, purification, and characterization of W. bancrofti DHFR as a drug target in treating lymphatic filariasis (B52)
Presenter: Andrew Tobias
Co-author(s): Ulrich Gubler, Nina Goodey
Advisor: Dr. Nina Goodey
Title: **Sustainability: A new aspect of golf course management (B53)**
Presenter: Colin Trevors
Advisor: Dr. Greg Pope

Title: **Bark pitch and the perception of dog size: The effect of congruent and incongruent sounds (B54)**
Presenter: Michael Vazquez
Co-author(s): Alexandra Medina, Yoav Arieh
Advisor: Dr. Yoav Arieh

Title: **PiMesh - implementation of mesh network on multiple raspberry pi’s (B55)**
Presenter: Raju Vemula
Advisor: Dr. Christopher Leberknight

Title: **In vitro antiviral activity of black tea extract (BTE) on sindbis virus in vero cells (B56)**
Presenter: Jose Villagomez
Advisor: Dr. Sandra Adams

Title: **Designing a learning trajectory for developing students’ thinking of dynamic measurement (B57)**
Presenter: Madhavi Vishnubhotla
Co-author: Debasmita Basu
Advisor: Dr. Nicole Panorkou

Title: **Infrastructure of nearby New Jersey state parks (B58)**
Presenter: Frank Vocaturo
Advisor: Dr. Greg Pope

Title: **Density and distribution of shallow Caribbean porifera from an UNESCO Biosphere Reserve in St. John, USVI (B59)**
Presenter: Patrick Vojnyk
Advisor: Dr. Paul Bologna

Title: **The mechanism of inhibition of botulinum neurotoxin type A by two novel quinoline compounds (B60)**
Presenter: Yacoba Vroom Teschemaker Minnow
Co-author(s): David Rotella, Ronald Goldberg, John Siekierka, Nina Goodey
Advisor: Dr. Nina Goodey

Title: **Promising novel method intTreating prosthetic joint infections (B61)**
Presenter: Steve Williams
Co-author(s): Shanice Otieno, Christopher Chen, Lee Lee
Advisor: Dr. Lee Lee

Title: **International students’ life; A review of issues and potential solutions (B62)**
Presenter: Hillman Wirawan
Co-author: Kadek Rahayu
Advisor: Dr. Lisa Lieberman
Title: Temporal framing (B63)
Presenter: Andrew Wolfarth
Advisor: Dr. David Townsend

Title: Alcohol use and non-medical use of prescription drugs to cope with posttraumatic stress: An analysis of Hurricane Sandy survivors (B64)
Presenter: Megan Young
Advisor: Dr. Sarah Lowe

Title: Analysis of roman mosaic glass tesserae, from the Villa of the Antonines, using scanning electron microscopy and energy-dispersive X-ray techniques (B65)
Presenter: Nicolas Zarro
Co-author(s): Deborah Chatr Aryamontri, Greg Pope, Matthew Gorrings
Advisor: Dr. Greg Pope

Title: Gender differences in attitudes, knowledge, and HIV testing in the Départements of Haiti: Insights from the 2012 demographic and health survey (B66)
Presenter: Jonathan Zipf
Advisor: Dr. Sangeeta Parashar

Title: Race bias in decisions to shoot: Physiological responses to immersive and non-immersive experimental shooter tasks (B67)
Presenter: Chelsea Osuji
Advisor: Dr. Joseph Cesario

Title: Assessment and target selection for a moderate-to-sever phonological disorder: Advantages of nonlinear analysis (B68)
Presenter: Christa Crosby
Advisor: Dr. Elaine Hitchcock
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ACKNOWLEDGEMENTS
Many faculty, staff and students have contributed to the success of this event. The Organizing Committee would like to acknowledge the special contributions of the following:

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