Welcome to the 2017 Miami University Undergraduate Research Forum! We hope you are as excited as we are to participate in this celebration of research and inquiry. This program is your guide to the more than 350 projects being presented by more than 700 undergraduate researchers today.

In designing and implementing studies, analyzing data, and presenting results, these students have worked to move beyond just an idea – becoming innovators, collaborators, and creators. They are a part of a community of scholars that includes their faculty mentors, and the more than 1500 additional undergraduates who worked with professors on funded research this year. Students as scholars and creators of knowledge speak to an essential quality of the Miami Experience.

We invite you to connect with this community by talking with the presenters today. Ask them meaningful questions – not just about their results, but also about the process they went through to achieve them. As valuable as results can be, it’s often the process that illuminates the path to innovation and true learning.

In its 23rd year, this Forum is the premier event celebrating independent inquiry by undergraduate students at Miami University. We offer our congratulations to this cohort of the Miami University Undergraduate Research Forum presenters, and we extend our sincere thanks to the students, faculty, and staff whose dedication and passion allow us to celebrate here today.

We are so proud. Enjoy!

Love and Honor,

Greg and Renate Crawford
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Shriver Center Floor Plans

1ST FLOOR

Armstrong Center Floor Plans

2ND FLOOR

3RD FLOOR

Undergraduate Research Forum 2017 Sponsors

Graduate School and Office for the Advancement of Research and Scholarship
Office of Research for Undergraduates
Provost and President
MIAMI UNIVERSITY
23RD ANNUAL UNDERGRADUATE RESEARCH FORUM

Schedule of Events
APRIL 26, 2017

Oral Presentations – Morning Sessions I, II, III

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<tr>
<td>Session I</td>
<td>9:00 a.m. to 9:45 a.m.</td>
<td>ASC-2042</td>
<td>ASC-3001</td>
<td>ASC-3056B Pavilion</td>
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<tr>
<td>Session II</td>
<td>10:00 a.m. to 10:45 a.m.</td>
<td>ASC-2042</td>
<td>ASC-3001</td>
<td>ASC-3056B Pavilion</td>
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<tr>
<td>Session III</td>
<td>11:00 a.m. to 11:45 a.m.</td>
<td>ASC-2042</td>
<td>ASC-3001</td>
<td>ASC-3056B Pavilion</td>
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Luncheon
Heritage Room 11:45 a.m. to 1:15 p.m.

UR FORUM LUNCHEON SPEAKERS
12:00 p.m.

Introduction – James T. Oris, Associate Provost and Dean of the Graduate School
Welcome – Gregory P. Crawford, President
Remarks – Phyllis A. Callahan, Provost and Executive Vice President

Oral Presentations – Afternoon Sessions, IV, V, VI

<table>
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<th>Session Duration</th>
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<tbody>
<tr>
<td>Session IV</td>
<td>1:30 p.m. to 2:15 p.m.</td>
<td>ASC-2042</td>
<td>ASC-3001</td>
<td>ASC-3056B Pavilion</td>
</tr>
<tr>
<td>Session V</td>
<td>2:30 p.m. to 3:15 p.m.</td>
<td>ASC-2042</td>
<td>ASC-3001</td>
<td>ASC-3056B Pavilion</td>
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<tr>
<td>Session VI</td>
<td>3:30 p.m. to 4:15 p.m.</td>
<td>ASC-2042</td>
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Poster Sessions (Shriver John Dolibois Rooms)
Over 650 student presenters share the results of their research

Lobby Sessions A B C

Session A 10:00 a.m. – 11:30 a.m.
Session B 1:30 p.m. – 2:45 p.m.
Session C 3:00 p.m. – 4:30 p.m.
SEASON I: 9:00 – 9:45 A.M.

**Armstrong ASC-2012**  
SESSION MODERATOR: Diane Berish

**Nathan Burns**, Biochemistry Major  
**ADVISOR(S):** Katia Del Rio-Tsonis Department of Biology  
*The Role of miRNAs in Chick Retina Regeneration*

**Joseph Landers**, Biology Major  
**ADVISOR(S):** Katia Del Rio-Tsonis Department of Biology  
**Nancy Paola Ruiz-Echeverri** Department of Biology  
*N-acetyl Cysteine as an Inducer of Retina*

**Jared Tangeman**, Biology Major  
**ADVISOR(S):** Katia Del Rio-Tsonis Department of Biology  
**Agustin Luz-Madrigal** Department of Biology  
*Epigenetic Reprogramming of the Embryonic Chick Retinal Pigmented Epithelium*

**Armstrong ASC-3001**  
SESSION MODERATOR: Megan Loftin

**Henry Leaman**, Sociology Major  
**ADVISOR(S):** Kristen Budd Department of Sociology and Gerontology  
*MU Student Opinions on University Discipline for Off Campus Alcohol Violations*

**Julia Pair**, Social Justice Studies and English Professional Writing Major  
**ADVISOR(S):** Kristen Budd Department of Sociology and Gerontology  
*Correcting Controlled Substance Schedules to Reflect Scientific Research on Alcohol, Tobacco, and Marijuana and What that Will Mean for American Society*

**Stephanie Levin**, Sociology Major  
**ADVISOR(S):** Stephen Lippmann Department of Sociology and Gerontology  
*Who Makes the Choice? Gender and the Pursuit of Entrepreneurship*

**Armstrong ASC-3056B**  
SESSION MODERATOR: Brianna Watson

**Sydney Brinck**, Business Economics Major  
**Heather Bonsky**, Marketing Major  
**ADVISOR(S):** Megan Gerhardt Department of Management  
*Personalities and Success*

**Lena Rutherford**, Information Systems Major  
**Josh Sekerak**, Accountancy and Finance Major  
**ADVISOR(S):** Megan Gerhardt Department of Management  
*International Student Inclusion and Engagement*

**Brandi McConahay**, Anthropology Interactive Media Studies Major  
**ADVISOR(S):** Jeb Card Department of Anthropology  
*3D Archaeology*
SESSION II: 10:00 – 10:45 A.M.

**Armstrong ASC-2042**
SESSION MODERATOR: Nicole Cottone

**Ken DeRose**, Physics Major  
**ADVISOR(S):** Samir Bali Department of Physics  
*Measurement of Slowlight in Electromagnetically Induced Transparency*

**Xin Dong**, Chemical and Paper Engineering Major  
**ADVISOR(S):** Samir Bali Department of Physics  
Lalit Bali Department of Physics  
*Optical Sensor with Temperature and Flow Control for Particle Sizing in Turbid Media*

**Linzhao Zhuo**, Physics and Business Economics Major  
**ADVISOR(S):** Andrew Hachtel Department of Physics  
Samir Bali Department of Physics  
*“Twisted” Light: What Is It and How to Create It in the Lab?*

**Armstrong ASC-3001**
SESSION MODERATOR: Luke Stanek

**Hehe Wang**, Chemistry Major  
**ADVISOR(S):** Hong Wang Department of Chemistry and Biochemistry  
Abdullah Bilal Altundas Department of Chemistry and Biochemistry  
*Synthesis of \( \pi \)-Extended Tetraphenylorphyrins*

**Christina Haffey**, Zoology and Environmental Science Major  
**ADVISOR(S):** David Gorchov Department of Biology  
*The Effects of Deer and an Invasive Shrub on Understory Herbs and Seedlings*

**George Gruenhagen**, Bioengineering Major  
**ADVISOR(S):** Richard Moore Department of Biology  
Chun Liang Department of Biology  
*MITE Analysis in Angiosperms*

**Armstrong ASC-3056B**
SESSION MODERATOR: Kevin Doherty

**Zack McBride**, English, Management and Leadership and Finance Major  
**ADVISOR(S):** Karly Geller Department of Kinesiology and Health  
Callie Maddox, Department of Kinesiology and Health  
*Big 5 Personality Traits as a Predictor of Success in Collegiate Track & Field*

**Daniel Kuperman**, Finance and Sustainability Major  
**Palmer Holcomb**, Finance and Business Economics Major  
**ADVISOR(S):** Megan Gerhardt Department of Management  
*Investigating the Implications of Circadian Typology on Student Performance*

**Anna Cavagnaro**, Psychology Major  
**ADVISOR(S):** Amy Summerville Department of Psychology  
Ryan Walker Department of Psychology  
*Effects of Regret Expressions on Warmth and Competence Ratings in a Social Context and a Business Context*
SESSION III: 11:00 – 11:45 A.M.

Armstrong ASC-3001
SESSION MODERATOR: Marshawn Brewer

Caleb Lowell, Political Science and Strategic Communication Major
ADVISOR(S): Shelly Jarrett Bromberg Department of Spanish and Portuguese
Elderly Care Facilities in Nicaragua

Julia Behrend, Biology Major
Giovanna Farinazo, Marketing Major
Nubia Colussi, Public Administration Major
ADVISOR(S): Paula Gandara Department of Spanish and Portuguese
Endangered Documents of the Amazon

Armstrong ASC-3056B
SESSION MODERATOR: Colin Widmer

Elizabeth Foley, Latin American, Latino/a, & Caribbean Studies and International Studies Major
ADVISOR(S): Elena Albarrán Latin American Studies Program
Pricing the Disabled Child: The Spectacle of Teletón in Neoliberal Chile

Kaitlin Thompson, Latin American, Latino/a, & Caribbean Studies and Social Work Major
ADVISOR(S): Elena Albarrán Department of History
Babies of the Banana Republic: Unpeeling Cultural Sensitivity in Transnational Adoptions at Home and Abroad

Mikayla Mitchell, International Studies Major
ADVISOR(S): Tani Sebro Global and Intercultural Studies Program
The Need for Intersectional Feminism on Miami’s Campus
Oral Presentation Schedule
(See presenter index on pages 53 - 73)

SESSION IV: 1:30 – 2:15 P.M.

**Armstrong ASC-2042**
SESSION MODERATOR: Melvin Ikwubuo

**Anthony Young**, Physics Major
**ADVISOR(S):** Karthik Vishwanath Department of Physics
A Multi-wavelength, Wide-field Laser Speckle System for Imaging Flow

**Tiago Schaeffer**, Physics and Music Major
**ADVISOR(S):** Mahmud Khan Department of Physics
Jeffrey Brock Department of Physics
Exchange Bias Effect in Mn\_2Ni\_1+xGa\_1-x

**Jacob McFarland**, Physics Major
**ADVISOR(S):** Burcin Bayram Department of Physics
Time-Resolved Spectroscopy of Excited Sodium Dimers

**Armstrong ASC-3001**
SESSION MODERATOR: Veranica Rasicci

**Brad Terrace**, Latin American, Latino/a, & Caribbean Studies and Diplomacy and Global Politics Major
**ADVISOR(S):** José Amador Latin American Studies Program
From Home Run to Strikeout: How Politics Has Caused a Change in the Venezuelan Baseball Landscape

**Mary Heath**, Spanish and Latin American, Latino/a, & Caribbean Studies Major
**ADVISOR(S):** José Amador Latin American Studies Program
Undocumented Evangelism: Immigration, Detention, and Sanctuary on the U.S.-Mexican Border

**Inma Sumaita**, English Literature Major
**ADVISOR(S):** Andrew Hebard Department of English
American Naturalism and White Socialist Narratives

**Armstrong ASC-3056B**
SESSION MODERATOR: Colin Greig

**Victoria Diana**, Psychology Major
**ADVISOR(S):** Elise Radina Department of Family Science and Social Work
The Effect of Poverty on Single Mothers & Their Offspring: Understanding the Impact Beyond Financial Stressors

**Mary Martin**, Social Work Major
**ADVISOR(S):** Elise Radina Department of Family Science and Social Work
The Opiate Epidemic’s Ground Zero

**Claire Stemen**, Comparative Media Studies and English Creative Writing Major
**ADVISOR(S):** Mack Hagood Department of Media Journalism and Film
Pantsuit Nation and the Power of Dress
SESSION V: 2:30 – 3:15 P.M.

Armstrong ASC-2042
SESSION MODERATOR: Shelly Jarrett Bromberg

Lauren Gottschalk, Psychology and Environmental Science Major
ADVISOR(S): Allen McConnell Department of Psychology
Making Pledges More Powerful: Environmental Concern Appeals Affect Recycling Behavior

Sandra Glazer, Psychology Major
ADVISOR(S): Barbara Oswald Department of Psychology
Effects of Zen Coloring on Anxiety in Consistent- vs. Inconsistent Handers

Armstrong ASC-3001
SESSION MODERATOR: Kendra DeWater

Jessie Slattery, Physics Major
ADVISOR(S): Samir Bali Department of Physics
Patrick Janovick Department of Physics
Brillouin Resonances in Cold Atoms

Ann Rumsey, Manufacturing and Management Engineering Major
ADVISOR(S): Muhammad Jahan Department of Mechanical and Manufacturing Engineering
Micromachining of Glass for Microfluidic Applications - A Review

Garrett Long, Chemical and Paper Engineering Major
ADVISOR(S): Andrew Paluch Department of Chemical Paper and Biomedical Engineering
The Effect of Force Field Selection on Modeling Binary Aqueous Mixtures

Armstrong ASC-3056B
SESSION MODERATOR: Gisel Valladares

Victoria Diana, Psychology Major
ADVISOR(S): Rhett Brymer Department of Management
Scott Dust Department of Management
Beyond The Numbers: The Impact of Company Culture in Corporate Acquisitions

Catherine Mazanek, American Studies and Sustainability Major
ADVISOR(S): Marguerite Shaffer Global and Intercultural Studies Program
Sustainable Agriculture in Higher Education: Placing Miami University’s Institute for Food in Context

McKenzie Crist, Zoology and Environmental Science Major
ADVISOR(S): Hafei Shi Department of Biology
Chris Zhu Department of Chemistry and Biochemistry
Minqian Shen Department of Biology
Effects of Estrogen on Leptin-Induced Growth in Human Colon Cancer Cells
### Oral Presentation Schedule

(See presenter index on pages 53 - 73)

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**SESSION VI: 3:30 - 4:15 P.M.**

**Armstrong ASC-2012**  
**SESSION MODERATOR: Abby Lyons**

- **Adam Reece**, Mechanical Engineering Major  
  **ADVISOR(S):** Jeong-Hoi Koo Department of Mechanical and Manufacturing Engineering  
  *Characterization of Dynamic Responses of Bending Actuators Based on Magneto-Rheological Elastomers*

- **Takdanai Tantiyartyanontha**, Mechanical Engineering Major  
  **ADVISOR(S):** Jeong-Hoi Koo Department of Mechanical and Manufacturing Engineering  
  *Generating Human Arterial Pulse Waveforms Using Controllable Magnetic Fluid*

- **Imokhai Okolo**, Social Justice Major  
  **ADVISOR(S):** Kristen Budd, Department of Sociology and Gerontology  
  *MU Student Opinions on University Discipline for Off Campus Drug Violations*

**Armstrong ASC-3001**  
**SESSION MODERATOR: Margaret Breidenbaugh**

- **Hannah Regan**, English Linguistics Major  
  **ADVISOR(S):** Jacque Daugherty Western Program  
  *Abstinence-Only Sexuality Education Standards as Reflected in “The Secret Life of the American Teenager”*

- **Ali Preissing**, International Studies and Political Science Major  
  **ADVISOR(S):** Erica Edwards Department of Political Science  
  *Immigration Irony: the UK after Brexit*

- **Paul Fredrick**, Political Science and History Major  
  **ADVISOR(S):** Erica Edwards Department of Political Science  
  *The Rise of Radicalization and Terrorism in France*

**Armstrong ASC-3056B**  
**SESSION MODERATOR: Caleb Stidham**

- **Caitlin McElligott**, Anthropology Major  
  **ADVISOR(S):** John Schaefer Department of Anthropology  
  *The Educational Crisis: Viewpoints Ranging from Local to International*

- **Lauren Ramsey**, Biology Major  
  **Mary Martin**, Social Work Major  
  **Danielle Jones**, Public Health Major  
  **Alyssa Oddo**, Social Work Major  
  **ADVISOR(S):** Elise Radina Department of Family Science and Social Work  
  *Welcome to My World: A Mix-Method Study of Parent’s Lived Experiences in Raising Children with Primary Lymphedema*
Poster Presentation Listing by Poster Number
SESSION A: 10:00 – 11:30 A.M.
SHRIVER LOBBY
(See presenter index on pages 53 - 73)

A01L Rachel Poyfair, Anthropology and Individualized Studies (Western Program) Major
Advisor(s): James Bielo, Department of Anthropology
The Aesthetics of Ideology

A02L Brandi McConahay, Anthropology and Interactive Media Studies Major
Advisor(s): Eric Hodgson, Armstrong Institute for Interactive Media Studies
Jeb Card, Department of Anthropology
Augmented Archaeology

A03L Kristine Camper, Biology and Anthropology Major
Advisor(s): Linda Marchant, Department of Anthropology
Environmental Factors on Well-Being of Captive Pottos (Perodicticus potto) at the Cincinnati Zoo

A04L Clayton Musolff, Architecture Major
Greg Heinrich, Architecture and Geography Major
Ruben Victoria, Architecture and Interactive Media Studies Major
Advisor(s): Murali Paranandi, Department of Architecture
Robotics and Kinetics Investigation

A05L Jimmy Devitt, Marketing Major
Advisor(s): Murali Paranandi, Department of Architecture
Unity 3D

A06L Madison Scheper, Architecture Major
Advisor(s): Murali Paranandi, Department of Architecture
Exploring Digital Manufacturing: Joinery Through 3D Printing

A07L Diana Suarez, Architecture and Sustainability Major
Advisor(s): Murali Paranandi, Department of Architecture
3D Printing and Design

A08L Tara Miller, Interactive Media Studies Major
Advisor(s): Murali Paranandi, Department of Architecture
3D Design

A09L Lindsay Thurston, Interactive Media Studies Major
Advisor(s): Murali Paranandi, Department of Architecture
Exploration in 3D Printing

A10L Carly Moro, Interior Design Major
Advisor(s): Murali Paranandi, Department of Architecture
3D Printing Technology Exploration

A11L Reed Gerber, Architecture Major
Zhengjia Huo, Architecture Major
Sam Olmsted, Architecture Major
Connor Wigton, Interactive Media Studies Major
Advisor(s): Murali Paranandi, Department of Architecture
Popup Art Gallery: Exploring Digital Fabrication
A01 Patrick Carroll, Physics Major
Advisor(s): Jennifer Blue, Department of Physics
Social Collaboration and the Usage of Textbooks in an Introductory Physics Class

A02 Sarah Hiner, Medical Laboratory Science and Microbiology Major
Advisor(s): Annette Bollmann, Department of Microbiology
Keely Icardi, Department of Microbiology
Microbial Communities and Wild Beer Enrichments

A03 Matthew Koehler, Athletic Training Major
Advisor(s): Eric Brooks, Department of Kinesiology and Health
Bilateral Os Trigonum and Calcaneal-Navicular Coalition in a Female Collegiate Soccer Player

A04 Quentin Mullen, Athletic Training and Kinesiology Major
Advisor(s): Eric Brooks, Department of Kinesiology and Health
Complete Knee Dislocation and Associated Orthopedic Damage in a Division One Collegiate Football Player: A Case Report

A05 Bri Higgins, Nutrition and Kinesiology Major
Natalie Briggs, Nutrition Major
Advisor(s): Kyle Timmerman, Department of Kinesiology and Health
Victoria Warren, Department of Kinesiology and Health
Quantifying the Abilities of Older Adults to Meet Recommended Dietary Allowances

A06 Sean Boyles, Microbiology Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Courtney Clark-Hachtel, Department of Biology
Tracing the Developmental and Evolutionary Origin of Wing in Red Flour Beetle, Tribolium castaneum

A07 Monica Fernandez, Biology Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Courtney Clark-Hachtel, Department of Biology
Elucidating the Role of Tergal and Pleural Tissues during Wing Formation in Red Flour Beetle

A08 Samuel James, Biology Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
David Linz, Department of Biology
Stinky Wings... Maybe?

A09 Jacob Schultz, Biology and Premedical Studies Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Courtney Clark-Hachtel, Department of Biology
Establishing the Giant Mayfly (Hexagenia) as a Model to Study the Origin of Insect Wings

A10 Michael Gunderman, Mechanical Engineering Major
A Study of Augmented Flight Control Systems on a Radio-Controlled Aircraft

A11 Anthony Rapp, Physics and Music Major
Tiago Schaeffer, Physics and Mathematics Major
Ben Amend, Physics and Mathematics Major
Jayson Rook, Physics and Computer Science Major
The Education Uses of an Interferometer

A12 Hong Cai, Physics and Mathematics Major
Advisor(s): Anna Ghazaryan, Department of Mathematics
Dynamic System Approach to Rosenzweig-MacArthur Model

A13 Dylan Palo, Physics and Mathematics Major
Symeon Stefan, Biology Major
Advisor(s): Paul Urayama, Department of Physics
Using Real Time Quantification of Autofluorescence Spectrum Shape to Distinguish Between Metabolic Responses Involving NADH Utilizing Pathways
A14  **David Noviski**, Chemical and Paper Engineering Major  
**Anna Haralson**, Psychology Major  
**Linh Le**, Biology Major  
**Taylor Hurt**, Biology and Premedical Studies Major  
**Advisor(s):** Karthik Vishwanath, Department of Physics  
Joseph Johnson, Department of Psychology  
*A New Method for Determining Heart Rate via Video Recording*

A15  **Joshua Rutowski**, Mathematics Major  
**Advisor(s):** Jiangjiang Zhu, Department of Chemistry and Biochemistry  
*Metabolic Shift of Staphylococcus aureus under Sublethal Dose of Methicillin in the Presence of Glucose*

A16  **Anjali Prior**, Chemistry and Premedical Studies Major  
**Advisor(s):** Haifei Shi, Department of Biology  
Jiangjiang Chris Zhu, Department of Chemistry and Biochemistry  
Minqian Shen, Department of Biology  
Anthony Sallese, Department of Chemistry and Biochemistry  
*Differential Effects of Leptin on Normal Colon Cells and Colon Cancer Cells*

A17  **Bradley Glazier**, Biology Major  
**Benjamin Hinkel**, Biology Major  
**Advisor(s):** Haifei Shi, Department of Biology  
Qi Zhu, Department of Biology  
*Regulation of Lipid Metabolism by the Sympathetic Nervous System in Male and Female Mice*

A18  **Mike Deal**, Biology and Kinesiology Major  
**Adam Meisler**, Chemical and Paper Engineering Major  
**Advisor(s):** Kyle Timmerman, Department of Kinesiology and Health  
*Physical Activity Level is Associated with Endogenous Antioxidants in Older Adults*

A19  **Meredith Moser**, Psychology Major  
**Advisor(s):** Amy Summerville, Department of Psychology  
Ryan Walker, Department of Psychology  
*Influence of Counterfactual Thought on Academic Performance*

A20  **Le Chang**, Mathematics and Statistics and Finance Major  
**Advisor(s):** Ying-Ju Chen, Department of Information Systems and Analytics  
*A Study of Statistical Inference for Kidney Transplant*

A21  **Marie Brake**, Zoology Major  
**Advisor(s):** Jon Costanze, Department of Biology  
James Wiebler, Department of Biology  
*Analysis of Gut Microflora in the Wood Frog (Rana sylvatica) from Interior Alaska*

A22  **Tori Ethridge**, Biology and Premedical Studies Major  
**Paul Bissmeyer**, Biology and Premedical Studies Major  
**Advisor(s):** Ann Rypstra, Department of Biology  
Michael Stanley, Department of Biology  
Jake Godfrey, Department of Biology  
*Foraging Effects of Atrazine on Wolf Spiders Pardosa milvina*

A23  **Erin Enright**, Biochemistry Major  
**Zachary DeMartini**, Chemistry Major  
**Daniel Stoecklein**, Chemistry and Premedical Studies Major  
**Sean Inutsuka**, Biochemistry Major  
**Michael Harris**, Chemistry Major  
**Advisor(s):** Michael Crowder, Department of Chemistry and Biochemistry  
*Politics and Global Warming*

A24  **Savannah Rice**, Geology and Sustainability Major  
**Jack Miles**, Geology Major  
**Noah Frey**, Geology and Spanish Major  
**Advisor(s):** Brian Currie, Department of Geology and Environmental Earth Science  
Patrick Cullen, Department of Geology and Environmental Earth Science  
*Creating an Initial Exploration Framework for the Berea Sandstone within the Appalachian Basin*
A25  Maren Osterholt, Biology Major
Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry
Christopher Makaroff, Department of Chemistry and Biochemistry
Ramja Sritharan, Department of Chemistry and Biochemistry
Investigating the Role of SYN3 in Chloroplasts

A26  Sarah Kosse, Biology and Premedical Studies Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Agustin Luz-Madrigal, Department of Biology
Analysis of DNA Methylation During RPE Reprogramming Towards Retina Regeneration

A27  Annie Bryan, Psychology Major
Advisor(s): Amanda Diekman, Department of Psychology
Melissa Fuesting, Department of Psychology
Benevolent Sexism as a Predictor of Critical Feedback

A28  Lana Pochiro, Urban and Regional Planning and Political Science Major
Advisor(s): Bruce D’Arcus, Department of Geography
Play in the Neoliberal City: A Study of Youth Spaces in Over-the-Rhine, Cincinnati

A29  Jeffrey Caldwell II, Media and Culture Major
Advisor(s): Rodney Coates, Black World Studies Program
Let’s Make America Great Again: Let’s Start in the Ghetto

A30  John Latimer, Biology and Neuroscience Major
Advisor(s): Dawn Blitz, Department of Biology
Central Effects of Hormonal Neuromodulation on Muscle Contraction

A31  Jack Bennett, Chemistry Major
Justin Moon, Medical Laboratory Science Major
Emily Curen, Psychology and Neuroscience Major
Brooke Buckingham, Biology Major
Advisor(s): Joyce Fernandes, Department of Biology
Divyalakshmi Soundararajan, Department of Biology
FYRE: Similarities and Differences in the Way Organisms Make Muscle

A32  Isaiah Jacques, Microbiology Major
Ryan Kaplevatsky, Biology Major
Mitchell Singstock, Philosophy Major
Matt Megura, Biology Major
Advisor(s): Joyce Fernandes, Department of Biology
Divyalakshmi Soundararajan, Department of Biology
FYRE: Investigating Intercellular Signalling During Flight Muscle Development in Drosophila

A33  Natalie Cavalco, University Studies Major
Jeffrey Rhoades, Biology Major
Sam Lewis, Biology Major
Jermaine Carew, Biology Major
Advisor(s): Joyce Fernandes, Department of Biology
Divyalakshmi Soundararajan, Department of Biology
First Year Research Experience: UNV171A/UNV172A: A Pilot Research Based Course in Invertebrate Neurobiology

A34  Leah Kuhn, Chemistry Major
Nick Simbartl, Biochemistry Major
Jenn Peters, Biochemistry Major
Megan Jackson, Microbiology Major
Advisor(s): Joyce Fernandes, Department of Biology
Divyalakshmi Soundararajan, Department of Biology
FYRE: Manipulating Muscle Development in Drosophila
A35  Brittany Nordhaus, Psychology and Neuroscience Major
Kira Osowski, Psychology Major
Nikita Patel, Kinesiology and Neuroscience Major
Caitlin Douglas, Zoology Major
Keith Schilstra, Zoology Major
Madison Enderson, Zoology and Premedical Studies Major
Mallory Myers, Zoology and Neuroscience Major
Adam Davisson, Zoology Major
Jennifer Nixdorf, Zoology Major
Yitong He, Biology Major
Christina Ebenroth, Biology and Premedical Studies Major
Taylor Boll, Biology and Premedical Studies Major
Rishav Banerjee, Biology and Premedical Studies Major
Advisor(s): Joyce Fernandes, Department of Biology
Valerine Rajathi, Department of Biology
Aswati Subramanian, Department of Biology
Change is Inevitable: Plasticity in the Brain

A36  Brittany Nordhaus, Psychology and Neuroscience Major
Nikita Patel, Kinesiology and Neuroscience Major
Christina Ebenroth, Biology and Premedical Studies Major
Taylor Boll, Biology and Premedical Studies Major
Rishav Banerjee, Biology and Premedical Studies Major
Madison Enderson, Zoology and Premedical Studies Major
Mallory Myers, Zoology and Neuroscience Major
Caitlin Douglas, Zoology Major
Keith Schilstra, Zoology and Gerontology Major
Kira Osowski, Psychology Major
Adam Davisson, Zoology Major
Jennifer Nixdorf, Zoology Major
Yitong He, Biology Major
Advisor(s): Joyce Fernandes, Department of Biology
Aswati Subramanian, Department of Biology
Valerine Rajathi, Department of Biology
It’s All in the Genes: Manipulating Glia in Drosophila

A37  Sydney O’Wesney, Anthropology and Sustainability Major
Advisor(s): Melany Fisk, Department of Biology
Shinjini Goswami, Department of Biology
Seedling Allocation Response to Nutrient Addition in Northern Hardwood Forest

A38  Mayu Nakano, English Creative Writing and East Asian Languages and Cultures Major
Advisor(s): Kazue Harada, GRAMELAC Department
A Tale of Two Nations: The Perception and the Role of Disability in Flowers for Algernon and A Personal Matter

A39  Madison Baker, Zoology and Psychology Major
Advisor(s): Richard Lee, Department of Biology
J. D. Gantz, Department of Biology
The Effects of Drought- and Cold-Induced Rapid Cold-Hardening on Flight Ability in the Flesh Fly, Sarcophaga bullata

A40  Olivia Richter, Biology and Environmental Science Major
Advisor(s): Maria Gonzalez, Department of Biology
Tanner Williamson, Department of Biology
Interactive Effects of Sediment and Nutrients on Zooplankton Communities

A41  Ella Sedacca, Zoology Major
Advisor(s): Maria Gonzalez, Department of Biology
Michael Vanni, Department of Biology
Amber Rock, Department of Biology
Tanner Williamson, Department of Biology
Differences in Rotifer Population Dynamics in an Ohio Reservoir in Years with Contrasting Environmental Conditions

A42  Carly Gemma, Biology and Premedical Studies Major
Advisor(s): Paul Harding, Department of Biology
Sean Taylor, Department of Biology
Novel Insights into the Molecular Mechanisms of Transdifferentiation of Cells into Brown Adipose Tissue-like Cells
A43  Daniel Pfell, Mechanical Engineering Major  
Advisor(s): Paul Harding, Department of Biology  
Sean Taylor, Department of Biology  
*Cellular Reprogramming into Brown Adipose Tissue (BAT) -like Cells Is Independent of Mature Heparin-binding EGF-like Growth Factor (HB-EGF) and HB-EGF C Domains*

A44  Abby Begezda, Biology and Premedical Studies Major  
Aonesti Williams, Biology and Premedical Studies Major  
Amanda Hayes-Puttfarcken, Zoology Major  
Advisor(s): Susan Hoffman, Department of Biology  
Joseph Baumgartner, Department of Biology  
Jeremy Papuga, Department of Biology  
*Examining the Genetic Consequence of Habitat Fragmentation in the northern Michigan white-footed mouse (Peromyscus leucopus noveboracensis)*

A45  Olivia Owens, Botany and Environmental Science Major  
Advisor(s): Carolyn Keiffer, Department of Biology  
Growing American Chestnut Hybrids in southwest Ohio

A46  Cassandra Worner, Microbiology and Neuroscience Major  
Austin Schafer, Biology and Premedical Studies Major  
Advisor(s): Kathleen Killian, Department of Biology  
Mollie Sorrell, Department of Biology  
*Role of Fragile X in Maintaining the Adult Neurogenic Niche*

A47  Yunhan Zhang, Chemistry Major  
Advisor(s): Benjamin Gung, Department of Chemistry and Biochemistry  
*Reinforce the Enantioselectivity by Introducing a Thermal Chiral Ligand to N-Heterocyclic Carbenes (NHCs) Au(I) Catalysts*

A48  Taylor Becker, Biochemistry Major  
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry  
Faizule Hassan, Department of Chemistry and Biochemistry  
*Adenovirus Mediated Delivery of an Engineered DNA Sequence for Pancreatic Cancer Treatment*

A49  Hannah Ruby, Biochemistry and Premedical Studies Major  
Sabina Bashir, Biochemistry and Premedical Studies Major  
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry  
Tafadzwa Chihanga, Department of Chemistry and Biochemistry  
*Identification of Urine Metabolic Biomarkers for Hypoxia-Induced Acute Kidney Injury Mouse Model*

A50  Brian Spinello, Biochemistry Major  
Advisor(s): Scott Hartley, Department of Chemistry and Biochemistry  
Gopi Nath Vemuri, Department of Chemistry and Biochemistry  
Analyzing Functionalized ortho-Phenylenes Using 1H NMR

A51  Allison Theberge, Biochemistry Major  
Amy Trowbridge, Biology Major  
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry  
Marcia Lee, Department of Microbiology  
The Isolation and Determination of Two Related Compounds from the Leaf Gel of Aloe cameronii

A52  Amy Trowbridge, Biology Major  
Sara Wagner, Microbiology Major  
Advisor(s): Marcia Lee, Department of Microbiology  
Richard Bretz, Department of Chemistry and Biochemistry  
Investigating Antifungal Mechanisms of Plant-derived Compounds
A53 Joanna Orzel, Chemistry and Spanish Major
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry
Faculty Expectations for Meaningful Learning in the Undergraduate Chemistry Laboratory: How Do Students’ Experiences Compare?

A54 Annie Hause, Psychology and Family Science and Social Work Major
Rebecca Wesseh, Psychology and Family Science and Social Work Major
Mercedes Obregon, Family Science and Social Work Major
Lillyanna Faimon, Psychology and Neuroscience Major
Rylan Moore, English Language Arts Education and Neuroscience Major
Advisor(s): Katherine Kuvalanka, Department of Family Science and Social Work
Chelsey Gates, Department of Family Science and Social Studies
Trans*Kids Project: Sibling Relationships in Families With Trans Children

A55 Madison Jackson, Zoology and Environmental Science Major
Advisor(s): Michael Vanni, Department of Biology
Tanner Williamson, Department of Biology
Seasonal Trends in Reservoir Denitrification Rates

A56 Megan McBride, Biology and Premedical Studies Major
Advisor(s): Michael Vanni, Department of Biology
Tanner Williamson, Department of Biology
Resilience of Eutrophic Aquatic Ecosystems to Storm Events

A57 Wrik Chatterjee, Geology and Biology Major
Advisor(s): Carrie Tyler, Department of Geology and Environmental Earth Science
Quantitative Analysis of Biotic Interactions with Echinoids

A58 Mona-Mae Juwillie, International Studies and Global Perspectives on Sustainability Major
Advisor(s): Jonathan Levy, Department of Geology and Environmental Earth Science
Creating Sustainable Clean Water Solutions in the Rural Villages of Ghana

A59 Victoria Thompson, Nutrition Major
Mickey Myers, Nutrition Major
Marla Guggenheimer, Nutrition Major
Denise Chan, Nutrition Major
Amy Skeels, Nutrition Major
Rachel Wyand, Nutrition Major
Aisha Fichtner, Nutrition Major
Advisor(s): Beth Miller, Department of Kinesiology and Health
Home Gardening; A Needs Assessment for a Gardening Program for Public Housing Residents

A60 Hannah Robertson, Biology and Premedical Studies Major
Advisor(s): Andor Kiss, Department of Microbiology
Molecular Characterization of Eye Lens Crystallins from Freeze Tolerant Wood Frog

A61 Kris Horman, Psychology Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Are You That Happy to See Me, or Is It the Alcohol Talking? A Study of the Effects of Intimacy on Alcohol Consumption

A62 Andrea Lee, East Asian Languages and Cultures and Latin American, Latino/a, and Caribbean Studies Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Correlating the Relationship between Personality Traits and Blacking Out Due to Alcohol Consumption

A63 Dannie Roberts, Kinesiology and Premedical Studies Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Unusual Alcohol Consumption Methods and Risky Drinking
A64  Emily Wilson, Biology Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
*Exploring Alcohol Use in College Students*

A65  Josh Bradford, Italian Studies Major 
**Advisor(s):** Andrea Right, Department of French and Italian  
*Analyzing Tracking Narratives: Fitbit and Apple Watch*

A66  Carrie Helldoerfer, Marketing Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
*Opportunities in Appealing to Male Customers for Barefoot Wine*

A67  Sara Al-Zubi, Management and Leadership and Premedical Studies Major  
Sumedha Chakravarti, Business Economics and Information Systems Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
*Religious Bias in the Workplace*

A68  Trent Neubecker, Accountancy and Marketing Major  
Matt Diehl, Finance Major  
Nate Sommerfield, Finance Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
*Perceptions about the Drinking Culture at Miami from Members of Miami Fraternities*

A69  Nicole Keshock, Supply Chain and Operations Management and Comparative Media Studies Major  
**Advisor(s):** Mack Hagood, Department of Media Journalism and Film  
*Netflix and Chill: A Cultural Investigation Regarding the New Identities Surrounding A Breakthrough Medium*

A70  Jayvon Howard, Family Science and Social Work Major  
**Advisor(s):** C. Lee Harrington, Department of Sociology and Gerontology  
*Talking Dick, Black Queer Masculinities and the Body: A Critical Auto-Ethnography*

A71  Kevin Summers, Psychology and Premedical Studies Major  
**Advisor(s):** Kurt Hugenberg, Department of Psychology  
Paige Lloyd, Department of Psychology  
*The Effects of Target and Participant Gender on Deception Detection*

A72  Rachael Weesner, Psychology and Neuroscience Major  
Gabrielle Fernandez, Psychology and Premedical Studies Major  
Eleanor Simmons, Psychology Major  
**Advisor(s):** Kurt Hugenberg, Department of Psychology  
*Barefaced Beauty: Exposure to Other Women’s Makeup Negatively Impacts Self-Esteem*

A73  Nick Fendinger, English Professional Writing and Psychology Major  
Kristin Mitchell, Psychology Major  
**Advisor(s):** Kurt Hugenberg, Department of Psychology  
Allen McConnell, Department of Psychology  
Paige Lloyd, Department of Psychology  
*WHR and Sexism*

A74  Katherine Byrket, Biology and Premedical Studies Major  
**Advisor(s):** Elizabeth Kiel-Luebbe, Department of Psychology  
Anne Kalomiris, Department of Psychology  
*Error-Related Negativity and Social Anxiety in Kindergartners*

A75  Emily Ritchie, Psychology Major  
**Advisor(s):** Jonathan Kunstman, Department of Psychology  
Christina Fitzpatrick, Department of Psychology  
*The Power of Labels: Differential Status Associations with African Americans and Black People*
A76  **Sierra Semko**, Psychology Major  
**Advisor(s):** Jonathan Kunstman, Department of Psychology  
Christina Fitzpatrick, Department of Psychology  
Ryan Nicholls, Department of Psychology  
*Race Concerns Predict Academic and Health Outcomes for Students of Color*

A77  **Alaina Swope**, Psychology and English Literature Major  
**Advisor(s):** Aaron Luebbe, Department of Psychology  
Kathryn Mancini, Department of Psychology  
*The Differential Influences of ADHD Symptoms and Sluggish Cognitive Tempo on Mother-Adolescent Emotional Flexibility*

A78  **Carly Cooper**, Psychology Major  
**Advisor(s):** Aaron Luebbe, Department of Psychology  
Kathryn Mancini, Department of Psychology  
*Gender Differences in Mother-Adolescent Dyadic Affective Flexibility*

A79  **Casey Gallagher**, Biochemistry Major  
**ADVISOR(S):** Richard Taylor, Department of Chemistry and Biochemistry  
*Approaches to Bioconjugation of Heparin Using Click Chemistry*

A80  **Andrew Pescovitz**, Nutrition and Kinesiology Major  
**Allison Feran**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Effect of Whey Protein Isolate and Inulin Powder on the Flavor and Texture of No-Fat Ice Cream*

A81  **Ashley Miller**, Nutrition and Public Health Major  
**Abby Younce**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Acceptability of Baked Fries With and Without Oil*

A82  **Mary Issenmann**, Nutrition and Public Health Major  
**Megan Rigot**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Substitution of Avocado Oil for Butter in Cookies*

A83  **Lauren Hoover**, Nutrition Major  
**Jingwei Zhang**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Effect of Coconut Oil as Replacement for Butter in Chocolate Chip Cookies in Relation to Physical, Textural, and Sensory Attributes*

A84  **Phillip Carr**, Nutrition and Kinesiology Major  
**Dolly Rinehart**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*The Effect of Flour Types on the Consistency of Scones*

A85  **Grace Petro**, Nutrition Major  
**Jess Bolton**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Sweetener Variations Influencing Custard*

A86  **Sarah Ward**, Nutrition Major  
**Marisa Seitz**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*Effects of Temperature on Perceived Sweetness of Mango-Peach Gelato*

A87  **Hannah Merkle**, Nutrition Major  
**Rachel Keller**, Nutrition Major  
**Advisor(s):** Jennifer Pate, Department of Kinesiology and Health  
*What is the Best Lactose Free Alternative for Buttercream Frosting?*
A88  Ethan Hollingsworth, Biology and Neuroscience Major  
Shelby Lab, Psychology and Neuroscience Major  
Angus Cady, Philosophy and Sustainability Major  
Annastasia Babcock, Biology Major  
Justin Heintz, Biomedical Engineering Major  
Kelsey Demel, Diplomacy & Global Politics Major  
Alexa Enders, Biology and Premedical Major  
Rachel Hawkins, Chemistry and Microbiology Major  
Carolina Garcia, Psychology and Neuroscience Major  
Olivia Collins, Microbiology and Premedical Major  
Lexi March, Speech Pathology and Audiology and Major  
Advisor(s): Jennifer Quinn, Department of Psychology  
Role of Orbitofrontal Cortex in Fear Memory  
Reconsolidation following an Expected Reactivation

A89  Ethan Hollingsworth, Zoology and Neuroscience Major  
Victoria Mordzinski, Biology and Premedical Studies Major  
Katelyn Scheive, Psychology Major  
Emily Pascoe, Psychology Major  
Lauren Brady, Microbiology Major  
Advisor(s): Jennifer Quinn, Department of Psychology  
Amnestic Manipulations Fail to Disrupt the Reconsolidation of Context Discrimination Fear Memories

A90  Shelby Lab, Psychology and Neuroscience Major  
Ethan Hollingsworth, Biology and Neuroscience Major  
Jaylen Perkins, Biology and Premedical Major  
Laney Naille, Biology and Neuroscience Major  
Rebecca Willliam, Psychology and Neuroscience Major  
Lili Scarlato, Microbiology and Premedical Major  
Kelsey Woods, Nutrition and Premedical Major  
Rachel Sullivan, Psychology and Computer Science Major  
Molly McCudden, Chemical Engineering Major  
Drew Schleicher, Biochemistry and Neuroscience Major  
Danielle Ross, Psychology and Neuroscience Major  
Advisor(s): Jennifer Quinn, Department of Psychology  
Role of Orbitofrontal Cortex in Fear Memory  
Reconsolidation following an Unexpected Reactivation

A91  Briana Levikov, Psychology and Premedical Studies Major  
Advisor(s): Jennifer Quinn, Department of Psychology  
Midazolam Has No Effect on Discrimination Fear Memory Reconsolidation in Adolescent Rats

A92  Mallory Myers, Zoology and Neuroscience Major  
Mallory Dunn, Zoology and Premedical Studies Major  
Advisor(s): Jennifer Quinn, Department of Psychology  
The Effect of Extinction on the Destabilization of an Overtrained Memory

A93  Lindsey States, Mathematics Education and Mathematics Major  
Advisor(s): Michael Todd Edwards, Teacher Education  
Timing of Technology in the Classroom

A94  Kristina Taynor, Zoology and Environmental Science Major  
Advisor(s): David Berg, Department of Biology  
Ashley Walters, Department of Biology  
Genetic Diversity in the Threatened Freshwater Mussel Lampsilis powellii
Poster Presentation Listing by Poster Number
SESSION A: 10:00 – 11:30 A.M.
JOHN DOLIBOIS ROOM
(See presenter index on pages 53 - 73)

A95  Meredith Lloyd, Chemical and Paper Engineering Major
     Halle Miller, Chemical and Paper Engineering Major
     Chris Hill, Chemical and Paper Engineering Major
     Xin Dong, Chemical and Paper Engineering Major
     Danika Whalen, Chemical and Paper Engineering Major
     Advisor(s): Catherine Almquist, Department of Chemical, Paper and Biomedical Engineering
     Justin Saul, Department of Chemical, Paper and Biomedical Engineering
     Keratin-based Adsorbents for the Removal of Heavy Metals from Water

A96  Emily Konrad, Microbiology Major
     Cole Goodrich, Microbiology Major
     Jon Abell, Biology Major
     Sydney Arlis, Biology Major
     Annastasia Babcock, Biology Major
     Allison Biedenharn, Microbiology Major
     Amanda Burgess, Microbiology Major
     Luke Carrafiello, Microbiology Major
     Callen Conroy, Microbiology Major
     Steven Madias, Biology Major
     Cortney Mitchem, Microbiology Major
     Paolo Palacios, Medical Laboratory Science Major
     Julie Donna, Microbiology and Environmental Science Major
     Steph Smith, Microbiology Major
     Advisor(s): Luis Actis, Department of Microbiology
     Mitchell Balish, Department of Microbiology
     Rebecca Balish, Department of Microbiology
     Mariah Squire, Department of Microbiology
     Hailey Riggs, Department of Microbiology
     Mystery DNA: A Three-Part Thriller Featuring Mycobacteriophage Clusters D, N, and A

A97  Jamie Berra, Nutrition and Public Health Major
     Allison Henson, Nutrition Major
     Advisor(s): Jennifer Pate, Department of Kinesiology and Health
     Analyzing the Effect of Gluten-free Flours on Blueberry Muffins

A98  Hannah Zerkle, Zoology and Environmental Science Major
     Advisor(s): Matthew McMurray, Department of Psychology
     Danielle Tapp, Department of Psychology
     Playing the Odds: Examining Decision Making Differences under Restricted Resources

A99  Gabrielle Fernandez, Psychology and Premedical Studies Major
     Ellee Raker, Psychology Major
     Francesca Sciaccotta, Psychology and Biology Major
     Advisor(s): Barbara Oswald, Department of Psychology
     The Effects of Stimulant Drugs on Alcohol Self-Administration, Motor Coordination, and Novel Object Recognition in C57BL/6J Mice

A100  Cody O’Donnell, Kinesiology Major
     Advisor(s): Barbara Oswald, Department of Psychology
     Effects of Anabolic Steroid Use on Emotion

A101  Sarah Wohl, Biology and Environmental Science Major
      Meghan Jones, Geography Major
      Brooke Ecklar, Zoology and Environmental Science Major
      Annie O’Brien, Finance and Accountancy Major
      Noah Miller, Economics and Accountancy Major
      Landen Stair, Finance Major
      Tim Supeck, Economics Major
      Austin Rust, English Creative Writing Major
      Nicholas Brown, Geography Major
      Brandon Street, Geography Major
      Advisor(s): Jerry Green, Department of Geography
      Evaluation of Peffer Park Landscape Site Characteristics
A102  Jack Gruber, Zoology Major  
Denae Garcia, Zoology Major  
Caroline Kennedy, Biology Major  
Advisor(s): Susan Hoffman, Department of Biology  
The Effects of Natural Bottlenecking on the Genetic Diversity of Peromyscus leucopus in Michigan's Lower Peninsula

A103  Kyle Weaver, Mechanical Engineering and Biochemistry Major  
Advisor(s): Jeong-Hoi Koo, Department of Mechanical and Manufacturing Engineering  
Indentation Testing of Artificial Skin Samples Based on Magnetically-Active Elastomers

A104  David Colston, Anthropology and Public Administration Major  
Advisor(s): Paul Flaspohler, Department of Psychology  
The Role of Government in Public Health

A105  Nick Baxter, Geology Major  
Advisor(s): Mike Brudzinski, Department of Geology and Environmental Earth Science  
Characterizing Hydraulic Fracturing Induced Seismicity on a Network of Pre-Existing Faults in Harrison County, Eastern Ohio

A106  Stephanie Raudenbush, Athletic Training Major  
Advisor(s): Eric Brooks, Department of Kinesiology and Health  
Triple Ipsilateral ACL Tear in Division I Softball Player
Poster Presentation Listing by Poster Number
SESSION B: 1:30 – 2:45 P.M.
SHRIVER LOBBY
(See presenter index on pages 53 - 73)

B01L Brandi McConahay, Anthropology and Interactive Media Studies Major
Advisor(s): Jeb Card, Department of Anthropology
Archaeological Pedagogy

B02L Amanda Burke, International Studies Major
Caitlin McElliott, Anthropology Major
Alexander Polinsky, Business Economics Major
Rachel Silver, Public Health Major
My Story
Zaheer Choudhary, Microbiology and Premedical Studies Major
Grace Hamilton, Business Economics Major
John Karikas, Biology and Premedical Studies Major
Lindsey Schad, Botany Major
“What Do You See When You See Me”
David Colston, Public Administration and Anthropology Major
Amber Henderson, Marketing Major
Reeti Pal, Zoology and Premedical Studies Major
Chanell Upshaw, Microbiology and Premedical Studies Major
My War, My Fight
Savannah Boerger, Zoology Major
Mona-Mar Juwillie, International Studies Major
Andrew Racadio, Biology Major
Rachel Serafin, Chemistry and Premedical Studies Major
“My Story”
Advisor(s): Cameron Hay-Rollins, Department of Anthropology
Emerging Adult Healthcare Decision Making: A Student Response to Mumps Cases at Miami University

B03L Lindsey Schad, Botany Major
Advisor(s): Cameron Hay-Rollins, Department of Anthropology
Community-based Approaches to Alleviating Depression Among the Elderly in Rural India

B04L Lindsey Schad, Botany Major
Advisor(s): Cameron Hay-Rollins, Department of Anthropology
Analysis of Unprepared and Prepared Human Osteological Collections: Assessment for Forensic Anthropology Teaching

B05L Lauren Antle, Anthropology Major
Lyric Melendez, Psychology and Neuroscience Major
Zachary Capretta, Psychology Major
Terry Reid, Psychology Major
Advisor(s): Joseph Johnson Department of Psychology
The Effects of Group Studying vs. Individual Studying

B06L Miranda Oates, Anthropology and Forensic Science Major
Advisor(s): Jeb Card, Department of Anthropology
Analysis of Unprepared and Prepared Human Osteological Collections: Assessment for Forensic Anthropology Teaching

B07L Miranda Oates, Anthropology and Forensic Science Major
Paulina Campos, Mathematics and Statistics Major
Grace Haring, Psychology Major
Advisor(s): Joseph Johnson, Department of Psychology
Understanding Sociosexual Habits of College Students

B08L Nathaniel Liesch, Architecture Major
Advisor(s): Murali Paranandi, Department of Architecture
Ghana Design+Build Performance Analysis
B01 Zoe Bolen, Microbiology Major  
**Advisor(s):** D.J. Ferguson, Department of Microbiology  
Jeff Ringiesen, Department of Microbiology  
Examination of a Putative Methyltransferase from the Quaternary Amine Degrading Methanogen Methanococcoides methylutens Strain Q3c

B02 Nathan Burns, Biochemistry Major  
**Advisor(s):** Katia Del Rio-Tsonis, Department of Biology  
The Role of miRNAs in Chick Retina Regeneration

B03 Ethan DeVillez, Biology Major  
**Advisor(s):** David Berg, Department of Biology  
Steven Hein, Department of Biology  
Ashley Walters, Department of Biology  
Identification of Sphaeriid Clam Populations in the Chihuahuan Desert

B04 Kayla Bergmann, Biology Major  
Clay Curts, Biology Major  
Meghan Bowers, Microbiology Major  
**Advisor(s):** Joyce Fernandes, Department of Biology  
Aswati Subramanian, Department of Biology  
Remodeling of Drosophila Peripheral Nerve Ensheathment During Metamorphosis

B05 Julia Behrend, Biology Major  
**Advisor(s):** Susan Hoffman, Department of Biology  
Joseph Baumgartner, Department of Biology  
Environmental Effects on Peromyscus leucopus Populations

B06 Gil Phillips, Biology Major  
**Advisor(s):** Susan Hoffman, Department of Biology  
Jeremy Papuga, Department of Biology  
Changes in Genetic Variability of Peromyscus maniculatus gracilis and Peromyscus leucopus nolveracensis in Northern Michigan over a Decade

B07 Morgan Amigo, Zoology Major  
**Advisor(s):** Paul James, Department of Biology  
Joe Powers, Department of Biology  
Molecular and Functional Characterization of Mouse Na+/H+ exchanger 11 (NHE11): a Role in Male Reproduction?

B08 James Lichter, Biology Major  
**Advisor(s):** Brian Keane, Department of Biology  
Nancy Solomon, Department of Biology  
Examining Male Sires of Unpaired Female Prairie Voles (Microtus ochrogaster) Using Microsatellite Markers

B09 Carsen Cash, Chemical and Paper Engineering Major  
Kayla Thompson, Chemical and Paper Engineering Major  
**Advisor(s):** Jason Berberich, Department of Chemical, Paper and Biomedical Engineering  
Jake Stapleton, Chemical, Paper and Biomedical Engineering  
Synthesis and Exploration of Protein-Polymer Conjugates

B10 Katherine Sieman, Biology and Premedical Studies Major  
**Advisor(s):** Carole Dabney-Smith, Department of Chemistry and Biochemistry  
Christopher Makaroff, Department of Chemistry and Biochemistry  
Katie Eudy, Department of Chemistry and Biochemistry  
Over-expression and Purification of Male Meiocyte Death-Like Proteins (MMDL-1 and MMDL-2)

B11 Tori Seto, Chemistry Major  
**Advisor(s):** Benjamin Gung, Department of Chemistry and Biochemistry  
Ruoyu Ma, Department of Chemistry and Biochemistry  
Synthesis and Testing of Novel NHC-Au(I) Catalysis with Adamantyl Groups

B12 Connor Henry, Chemistry Major  
**Advisor(s):** Scott Hartley, Department of Chemistry and Biochemistry  
Synthesis of Thioether-Substituted Sanidic Liquid Crystals

B13 Rathiesh Pandian, Chemistry Major  
**Advisor(s):** Scott Hartley, Department of Chemistry and Biochemistry  
Gopi Nath Vemuri, Department of Chemistry and Biochemistry  
Analysis of Handedness of ortho-Phenylenes
B14  **Brian Long**, Chemistry Major  
**Advisor(s):** Michael Kennedy, Department of Chemistry and Biochemistry  
Shenyuan Xu, Department of Chemistry and Biochemistry  
*GTP Hydrolysis Restoration in K-Ras Mutants Using Engineered GAP*

B15  **Aaron Simoni**, Microbiology Major  
**Advisor(s):** Christopher Makaroff, Department of Chemistry and Biochemistry  
*A Natural Antisense RNA Plays an Important Role in Arabidopsis thaliana Growth and Development*

B16  **Alexandra Glinos**, Spanish and Premedical Studies Major  
**Advisor(s):** Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
Gregory Allen, Department of Chemistry and Biochemistry  
*Investigating General Chemistry Students’ Misconceptions and Confidence Regarding Acid/Base Reactions*

B17  **Rachel Serafin**, Chemistry and Premedical Studies Major  
**Advisor(s):** Gary Lorigan, Department of Chemistry and Biochemistry  
Daniel Drew, Department of Chemistry and Biochemistry  
*Probing the Secondary Structure of the S21 Pinholin Using Pulsed EPR ESEEM*

B18  **Nick Frantz**, Biochemistry and Spanish Major  
**Tessa Wadsworth**, Chemistry and Premedical Studies Major  
**Advisor(s):** Gary Lorigan, Department of Chemistry and Biochemistry  
Andrew Craig, Department of Chemistry and Biochemistry  
Gunjan Dixit, Department of Chemistry and Biochemistry  
*Studying KCNQ1 Structure and Dynamics Using Electron Paramagnetic Resonance (EPR) Spectroscopy*

B19  **Adam Rivers**, Biochemistry Major  
**Advisor(s):** Michael Kennedy, Department of Chemistry and Biochemistry  
Michelle Veite, Department of Chemistry and Biochemistry  
*Transgenic Mouse Model for the Early Detection of Pancreatic Cancer*

B20  **Silvi Bajrami**, Biology and Premedical Studies Major  
**Advisor(s):** Michael Robinson, Department of Biology  
Stephanie Padula, Department of Biology  
*Creating a Fluorescent Detection System for Photoreceptor Differentiation from Mouse Embryonic Stem Cells via CRISPR/Cas9*

B21  **Elaine Sidler**, Biology and Neuroscience Major  
**Advisor(s):** Michael Robinson, Department of Biology  
Stephanie Padula, Department of Biology  
*Analysis of FGFR and PTEN Interaction in Lens Development*

B22  **Haley Boardman**, Chemistry Major  
**Collin Mullet**, Biochemistry Major  
**Jacob Flum**, Chemistry Major  
**Mara Viterisi**, Chemistry and Premedical Studies Major  
**Olivia Rizzo**, Biochemistry and Premedical Studies Major  
**Advisor(s):** Michael Crowder, Department of Chemistry and Biochemistry  
*Climate Change and Its Effect on the Food Industry Relating to Meat, Fish, and Corn*

B23  **Nicole Spellacy**, Chemistry Major  
**Gregory Kuznieski**, Chemistry and Premedical Studies Major  
**Alec Krienen**, Biochemistry Major  
**Gabriel Boris**, Chemistry and Music Major  
**Nick Groth**, Chemistry Major  
**Advisor(s):** Michael Crowder, Department of Chemistry and Biochemistry  
*Climate Change*
B24  Alexandra Statczar, Chemistry Major
    Thomas Schlueter, Chemistry Major
    Tian Feng, Chemistry Major
    Daniel Bussell, Chemistry Major
    Emily Sullivan, Chemistry Major
    Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry
    CHM 191 Zyth and Zym

B25  Samantha Gavry, Biology and Spanish Major
    Ben Gilbert, Biology Major
    Advisor(s): Michael Robinson, Department of Biology
    Peipei Qi, Department of Biology
    Loss of miRNA26 Causes Post-natal Cataracts in Mice

B26  Anna Porter, Biology Major
    Advisor(s): Michael Robinson, Department of Biology
    Phuong Lam, Department of Biology
    Creating Mouse Eye Cup Cell Cultures with RPE Lineage Tracing

B27  Savannah Boerger, Zoology Major
    Advisor(s): David Russell, Department of Biology
    Habitat Value of Hueston Woods State Park for Migrant Passerines of Contrasting Diet Type

B28  Sabato Sorice, Business Economics and Premedical Studies Major
    Advisor(s): David Russell, Department of Biology
    Tracking the Oriole Bird

B29  Ashton Hall, Microbiology and Premedical Studies Major
    Advisor(s): Ann Rypstra, Department of Biology
    Sex-Specific Starvation-Induced Cannibalism

B30  Megan Hansen, Biology and Premedical Studies Major
    Erica Edwards, Economics Major
    Vedha Nayak, Economics Major
    Advisor(s): Joseph Johnson, Department of Psychology
    Financial Risks in College Students

Poster Presentation Listing by Poster Number
SESSION B: 1:30 – 2:45 P.M.
JOHN DOLIBOIS ROOM
(See presenter index on pages 53 - 73)

B36 Steven McPherson, Chemical Engineering Major
Alexandra Contestable, Psychology and Neuroscience Major
Lauren Poythress, Psychology and Black World Studies Major
Morgan Schroeder, Biology and Premedical Studies Major
Advisor(s): Joseph Johnson, Department of Psychology
Response Dynamics in Implicit Racial Bias in Real World Scenarios

B37 Spencer Milligan, Mechanical Engineering Major
Kirsten Fehlan, Psychology Major
Advisor(s): Joseph Johnson, Department of Psychology
Relations Between Academic Factors and Social and Illegal Risks

B38 Rita Kou, Speech Pathology and Audiology Major
Samantha Becker, Speech Pathology and Audiology Major
Olivia Wnek, Speech Pathology and Audiology Major
Advisor(s): Donna Scarborough, Department of Speech Pathology and Audiology
Michael Bailey-Van Kuren, Department of Mechanical and Manufacturing Engineering
Taylor Creech, Department of Speech Pathology and Audiology
Training Cup Prototype: Varied Viscosity Model

B39 Samantha Becker, Speech Pathology and Audiology Major
Rita Kou, Speech Pathology and Audiology Major
Olivia Wnek, Speech Pathology and Audiology Major
Advisor(s): Donna Scarborough, Department of Speech Pathology and Audiology
Michael Bailey-Van Kuren, Department of Mechanical and Manufacturing Engineering
Taylor Creech, Department of Speech Pathology and Audiology
A Comparison of Measurements of a Pediatric Supplement: How Thin is Thin?

B40 Joslyn Andrews, Business Economics and Marketing Major
Caitlin Sifuentes, Business Economics Major
Advisor(s): Megan Gerhardt, Department of Management
How to Change Culture: A Case Study of Miami University Greek Life

B41 Tyler Latch, Finance Major
Chad Goss, Finance Major
Ethan Retcher, Finance and Accountancy Major
Advisor(s): Megan Gerhardt, Department of Management
Exploring the Drivers and Trends of Engagement and Perceived Value

B42 Samantha Youngwirth, Business Economics and Finance Major
Lauren Nobile, Finance Major
Blake Cortez, Marketing and Spanish Major
Advisor(s): Megan Gerhardt, Department of Management
Gender Bias in the Workplace

B43 Meena Bansal, Biology Major
Abigail Brown, Biology Major
Advisor(s): Janet Marshall, Department of Chemistry and Biochemistry
Howard Vail, Department of Chemistry and Biochemistry
Organic Chemistry Lab Development: Fischer Esterification Utilizing Benchtop NMR

B44 Dillon Frank, Life Science - Chemistry Education Major
Nicholas Spurgus, Biology and Premedical Studies Major
Advisor(s): Ellen Yezierski, Department of Chemistry and Biochemistry
Justin Pratt, Department of Chemistry and Biochemistry
Documenting Chemistry Teacher Growth: Changing Descriptions of Symbolic, Macroscopic, and Particulate Levels During Inquiry-Focused Professional Development
**Poster Presentation Listing by Poster Number**

**SESSION B: 1:30 – 2:45 P.M.**

**JOHN DOLIBOIS ROOM**

(See presenter index on pages 53 - 73)

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**B45**  
David Black, Information Systems Major  
Jackie Challoner, Marketing Major  
Madison Cain, Business Economics and East Asian Languages and Cultures Major  
Emma Reed, Accountancy Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
*Implicit Biases in Business Organization Affiliation*

**B46**  
Micaela Wexler, Finance Major  
Leah Sprock, Marketing Major  
Danny Molloy, Finance Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
*Attitudes on Disabilities and Accommodations in Professional and Academic Settings*

**B47**  
Emma Geary, Psychology and English Professional Writing Major  
**Advisor(s):** Keisha Wagers, Department of Psychology  
*Parenting, Empathy and Externalizing Behaviors*

**B48**  
Robert Poth, Biochemistry and Premedical Studies Major  
**Advisor(s):** Richard Page, Department of Chemistry and Biochemistry  
Jamie VanPelt, Department of Chemistry and Biochemistry  
*Structural Characterization of Metallo-Beta Lactamases and Optimization of Novel Small Molecule Inhibitors*

**B49**  
Brianna Minshall, Psychology and Neuroscience Major  
**Advisor(s):** Ellen Yezerksi, Department of Chemistry and Biochemistry  
Jorge Torres, Department of Chemistry and Biochemistry  
*Learning in the Moment: Identifying and Improving Student Conceptual Knowledge Construction in General Chemistry*

**B50**  
Madison Cappas, Middle Childhood Education Major  
Ellie Stillman, Middle Childhood Education Major  
Emily Culberson, Middle Childhood Education Major  
Mikala Popovec, Middle Childhood Education Major  
Britt Hochstetler, Middle Childhood Education Major  
**Advisor(s):** Michael Todd Edwards, Department of Teacher Education  
*Artistically Replicating Miami University Landmarks using Geometric Software*

**B51**  
Chloe Dabrowski, Middle Childhood Education Major  
Jade Tailor, Middle Childhood Education Major  
Meredith Schmitt, Middle Childhood Education Major  
Brandon Stradling, Middle Childhood Education Major  
**Advisor(s):** Michael Todd Edwards, Department of Teacher Education  
*Geometric Modeling of Everyday Objects using Mathematics Software*

**B52**  
Paige Osterwisch, Middle Childhood Education Major  
Kelsey Borgarding, Middle Childhood Education and Anthropology Major  
Erika Nisbet, Middle Childhood Education Major  
Corey Manning, Middle Childhood Education Major  
**Advisor(s):** Michael Todd Edwards, Department of Teacher Education  
*Real Life Interpretations of Coding*

**B53**  
Craig Hanson, Engineering Management and Manufacturing Engineering Major  
**Advisor(s):** Muhammad Jahan, Department of Mechanical and Manufacturing Engineering  
*Investigating Tool Wear and Surface Finish in the Machining of Titanium Alloy*

**B54**  
Alex Mazursky, Mechanical Engineering and Energy Major  
**Advisor(s):** Jeong-Hoi Koo, Department of Mechanical and Manufacturing Engineering  
*Design and Performance Evaluation of a Miniature Haptic Actuator based on Electrorheological Fluid*
B55  **Nicholas Vrزال**, Middle Childhood Education Major  
**Matthew Sheely**, Middle Childhood Education Major  
**Kaleb Gauvey**, Middle Childhood Education Major  
Advisor(s): Michael Todd Edwards, Department of Teacher Education  
*Simplicity: The Artistic Ability of Mathematics and Technology*

B56  **Carley Taggart**, Middle Childhood Education Major  
**Brooke Skelly**, Middle Childhood Education Major  
**Hannah Lentz**, Middle Childhood Education Major  
**Samantha Black**, Middle Childhood Education Major  
Advisor(s): Michael Todd Edwards, Department of Teacher Education  
*Art Recreation in Primary and Secondary Education Using Online Software*

B57  **Kailee Colter**, Psychology Major  
Advisor(s): Alexandria Intorcio, Department of Psychology  
*Social Influences of College Organizations: The Effects of Conformity on Self Esteem*

B58  **Virginia Hollatz**, Psychology Major  
Advisor(s): Yvette Harris, Department of Psychology  
Seham Almutairi, Department of Psychology  
*Exploring the Use of Digital Technology in the Lives of Homeschooled Children*

B59  **Aldiyar Kenes**, Mechanical Engineering Major  
Advisor(s): James Moller, Department of Mechanical and Manufacturing Engineering  
*Investigation of Water Properties by Atomistic Simulation*

B60  **John Germano**, Psychology Major  
Advisor(s): Kurt Hugenberg, Department of Psychology  
Allen McConnell, Department of Psychology  
Paige Lloyd, Department of Psychology  
*Don’t Lie to Me: Social Exclusion Influences the Ability to Detect Lies*

B61  **Robert White**, Biology and Psychology Major  
**Austin Nader**, Psychology and Neuroscience Major  
**Jack Frankel**, Psychology and Premedical Studies Major  
Advisor(s): Anna Radke, Department of Psychology  
*Aversion-resistant Alcohol Drinking in Male and Female Mice*

B62  **Victoria Colvin**, Psychology Major  
**Emily Blumenthal**, Psychology Major  
**Luke Evans**, Psychology Major  
**Caitlyn Jones**, Psychology Major  
**Tyler Schumacher**, Psychology Major  
**Jessica Shields**, Psychology Major  
Advisor(s): Kurt Hugenberg, Department of Psychology  
Jonathan Kunstman, Department of Psychology  
Steven Almaraz, Department of Psychology  
Jason Deska, Department of Psychology  
*The Effects of Face Inversion on Attention to the Eyes and the Desire to Interact Depend on Target Race*

B63  **Reeti Pal**, Zoology and Premedical Studies Major  
Advisor(s): Paul Flaspohler, Department of Psychology  
*Model to Decrease Malnutrition due to Food Insecurity*

B64  **Megan Perry**, Psychology Major  
Advisor(s): Elizabeth Kiel-Luebbe, Department of Psychology  
*The Role of Fearful Temperament and Maternal Control Behavior on the Development of Self-Consciousness in Toddlerhood*

B65  **Kevin Summers**, Psychology and Premedical Studies Major  
Advisor(s): Kurt Hugenberg, Department of Psychology  
Steven Almaraz, Department of Psychology  
*Do You Trust Me? Trustworthiness and Dominance Cues Lie in Separate Regions of the Face*

B66  **Maggie Winstel**, Psychology and Sustainability Major  
Advisor(s): Amanda Diekman, Department of Psychology  
Tessa Benson-Greenwald, Department of Psychology  
Aimee Belanger, Department of Psychology  
*Proactive Personality and Satisfaction in STEM Fields*
**Poster Presentation Listing by Poster Number**

**SESSION B: 1:30 – 2:45 P.M.**

**JOHN DOLIBOIS ROOM**

*(See presenter index on pages 53 - 73)*

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**B67 Madeline Lundin**, Psychology Major  
*Advisor(s):* Kurt Hugenberg, Department of Psychology  
Jason Deska, Department of Psychology  
*Facial Width-to-Height Ratio Biases Job Selection*

**B68 Grace Campe**, Psychology Major  
*Katie Kowalski*, Psychology Major  
*Advisor(s):* Amanda Diekman, Department of Psychology  
Tessa Benson-Greenwald, Department of Psychology  
*Reactions to Mistakes*

**B69 In Hong Lei**, Public Administration Major  
*Advisor(s):* Mark Morris, Department of Political Science  
*Should Government Intervene in the Economy During Economic Recession?*

**B70 Chanell Upshaw**, Microbiology and Premedical Studies Major  
*Advisor(s):* Paul Flaspohler, Department of Psychology  
*Best Buds: Regulations on Marijuana Use and Possession between the Netherlands versus the United States*

**B71 Ashley Albin**, Nursing Major  
*Courtney Strassburger*, Nursing Major  
*Oliva Bowley*, Nursing Major  
*MacKenzie Hickman*, Nursing Major  
*Samantha Davis*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
Interventions to Prevent UTI’s in the ICU

**B72 Katy Alley**, Nursing Major  
*Christian McLaughlin*, Nursing Major  
*Elizabeth Ingram*, Nursing Major  
*Trevor Shelton*, Nursing Major  
*Kaela Ghent*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
The Effectiveness of Using Turn Teams to Prevent Pressure Ulcers

**B73 Brittany Goad**, Nursing Major  
*Claire Uwingeneye*, Nursing Major  
*Eulalia Lopez Gonzalez*, Nursing Major  
*Maria Lopez Gonzalez*, Nursing Major  
*Patricia Koranteng*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
Using Technological Reminders to Improve Compliance among Mental Health Patients: An Evidence-based Paper

**B74 Megan Knight**, Nursing Major  
*Corrie Patrick*, Nursing Major  
*Allison Millhouse*, Nursing Major  
*Morgan Heck*, Nursing Major  
*Carrrie Bartels*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
Power of CAM

**B75 Lulu Abdun**, Psychology Major  
*Advisor(s):* Vaishali Raval, Department of Psychology  
Timothy Ovia, Department of Psychology  
*Public Discourses About Race in the United States*

**B76 Le’Andra Wilson**, Nursing Major  
*Maria Pena-Lopez*, Nursing Major  
*Ling Lin*, Nursing Major  
*Samantha Short*, Nursing Major  
*Kayla Ball*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
The Efficacy of Sex Education Programs in Promoting Safer Sex Practices among Teens in USA

**B77 Tisa Williams**, Nursing Major  
*Dale Richter*, Nursing Major  
*Kristen Davis*, Nursing Major  
*Danielle Hale*, Nursing Major  
*Kamari Blair*, Nursing Major  
*Advisor(s):* Eyad Musallam, Department of Nursing  
Comprehensive Sex Education
B78 Bridget Martin, Nursing Major
  Kimberly Richardson, Nursing Major
  Brittany Chasteen, Nursing Major
  Kaitlin Ball, Nursing Major
  Brittney Wasson, Nursing Major
  Advisor(s): Eyad Musallam, Department of Nursing
  Reducing Alcohol Use Among College Students Through On-Campus Interventions

B79 Taylor Lambert, Nursing Major
  Ashley Selby, Nursing Major
  Benjamin Proud, Nursing Major
  Brook Dietz, Nursing Major
  Ashley King, Nursing Major
  Advisor(s): Eyad Musallam, Department of Nursing
  Does the Use of Simulation as an Educational Tool Improve Undergraduate Nursing Students Knowledge and Skills?

B80 Jennifer Rub, Microbiology Major
  Kathy Everson, Microbiology Major
  Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
  SEA Miami: Day-and-Night Prokaryotic Diversity in the Caribbean

B81 Jessica Simon, Microbiology Major
  Clara Lawson, Microbiology Major
  Thatcher Creber, Biology Major
  Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
  SEA Miami: Microorganism Biodiversity and Nutrient Availability Near Populated Shorelines

B82 Krystina Hird, Biochemistry and Botany Major
  Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry
  C. Paul New, Department of Chemistry and Biochemistry
  The Role of the Transmembrane Glutamate in Assembly of the Chloroplast Twin Arginine Transport Pathway Component Tha4

B83 Natalie Briggs, Nutrition Major
  Nikki Finkenthal, Nutrition Major
  Advisor(s): Jennifer Pate, Department of Kinesiology and Health
  The Effect of Fat Substitutes in Chocolate Cake

B84 Madeline Engelking, Nutrition Major
  Amy Shomo, Nutrition Major
  Advisor(s): Jennifer Pate, Department of Kinesiology and Health
  The Effect of Black Beans as a Flour Substitute in Brownies

B85 Allyson McArthur, Nutrition Major
  Clare Howard, Nutrition Major
  Advisor(s): Jennifer Pate, Department of Kinesiology and Health
  The Impact of Gluten In Baking

B86 Sarah Wyand, Nutrition and Premedical Studies Major
  Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
  Are College Students Playing Hard So That They Can Drink Harder?

B87 Joshua Trimboli, Biology Major
  Rachel Frankhauser, Biology and Sustainability Major
  Jack Haught, Economics and Supply Chain and Operations Management Major
  Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
  SEA Miami: Chlorophyll A at a 1% PAR

B88 Sarah Wilson, Microbiology Major
  Kayla Brown, Microbiology Major
  Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
  SEA Miami: Alpha and Beta Diversity In Water Column Surrounding Puerto Rico

B89 Keiko Wilkins, Biology Major
  Koby Schneider, Mechanical Engineering Major
  Trevor Holm, Biology Major
  Advisor(s): Rachael Morgan-Kiss Department of Microbiology
  SEA Miami: Factors Affecting Zooplankton Biodiversity and Diversity in the Coastal and Open Waters around Puerto Rico
B90  **Keiko Wilkins**, Biology Major  
**Sarah Hiner**, Medical Laboratory Science and Microbiology Major  
**Advisor(s):** Rachael Morgan-Kiss, Department of Microbiology  
*SEA Miami: The Diversity of Photosynthetic and Heterotrophic Microorganisms in a Transect of San Juan Harbor*

B91  **Keiko Wilkins**, Biology Major  
**Advisor(s):** Craig Williamson, Department of Biology  
*The Effects of Oxygen Depletion on Abundance and Vertical Distribution of Calanoid Copepods, Daphnia and Cyclopoid Copepods*

B92  **Abigail Weiland**, Athletic Training Major  
**Advisor(s):** Eric Brooks, Department of Kinesiology and Health  
*Lumbar Facet Syndrome in a Synchronized Skater*

B93  **Netanya Lane**, Political Science Major  
**Advisor(s):** Rodney Coates, Department of Black World Studies Program  
*Social Construct of Black Women*

B94  **Bethany Strauss**, Social Work Major  
**Advisor(s):** Leah Wasburn-Moses, Department of Educational Psychology  
*Foster Care, Kinship Care, and Adoption Preservice Training Youth Version*

B95  **Allie Shea**, Psychology Major  
**Advisor(s):** Virginia Wickline, Department of Psychology  
*Intercultural Competence*

B96  **Emily Konrad**, Microbiology Major  
**Cole Goodrich**, Microbiology Major  
**Jon Abell**, Biology Major  
**Sydney Arlis**, Biology Major  
**Annastasia Babcock**, Biology Major  
**Allison Biedenharn**, Microbiology Major  
**Amanda Burgess**, Microbiology Major  
**Luke Carrafiello**, Microbiology Major  
**Callen Conroy**, Microbiology Major  
**Steven Madias**, Biology Major  
**Courtney Mitchem**, Microbiology Major  
**Paolo Palacios**, Medical Laboratory Science Major  
**Julie Donna**, Microbiology and Environmental Science Major  
**Steph Smith**, Microbiology Major  
**Advisor(s):** Luis Actis, Department of Microbiology  
Mitchell Balish, Department of Microbiology  
Rebecca Balish, Department of Microbiology  
Mariah Squire, Department of Microbiology  
Hailey Riggs, Department of Microbiology  
*Mystery DNA: A Three-Part Thriller Featuring Mycobacteriophage Clusters D, N, and A*

B97  **Natalia Kellamis**, Chemistry Education Major  
**Advisor(s):** Ellen Yezierski, Department of Chemistry and Biochemistry  
*From NSES to NGSS: How to Evaluate and Respond to Changing Curricula in High School Chemistry*

B98  **Thomas Farnbacher**, Microbiology Major  
**Erin McGovern**, Kinesiology Major  
**Advisor(s):** Li Zhou, Department of Psychology  
*How Individuals Differentiate in Proactive Interference Inhibition*

B99  **Kyle Schulte**, Biochemistry and Neuroscience Major  
**Advisor(s):** Robin Thomas, Department of Psychology  
Audrey Weil, Department of Psychology  
*Individual Differences in Working Memory and Belief Bias Reflected in Fronto-Parietal Coherence*
B100 Hannah Kempf, Geology Major
   Advisor(s): Carrie Tyler, Department of Geology and Environmental Earth Science
   Using Food Webs to Examine Ecosystem Dynamics during Biotic Invasions in Late Ordovician Shallow Communities

B101 Benjamin Jackson, Electrical Engineering and Energy Major
   Bailey Hall, Electrical Engineering Major
   Kyle Smith, Electrical Engineering Major
   Advisor(s): Mark Scott, Department of Electrical and Computer Engineering
   Design and Optimization of a Portable, Off-Grid Photovoltaic Energy System for an Irrigation System

B102 Max Leveridge, Environmental Earth Science and Environmental Science Major
   Advisor(s): Mike Brudzinski, Department of Geology and Environmental Earth Science
   Improved Seismological and Geological Characterization of Seismicity Induced by Wastewater Disposal Near Marietta, Ohio

B103 Rebeca Garcia De Jesus, Physics and French Major
   Kon Grewal, Kinesiology and Premedical Studies Major
   Danielle Lott, Psychology and Neuroscience Major
   Juliana Rizzo, Psychology and Spanish Major
   Advisor(s): Vrinda Kalia, Department of Psychology
   Karthik Vishwanath, Department of Physics
   Utilizing FNIRS as a Marker to identify Risk Taking in Males Post Stress Induction

B104 Mason Tate, Biochemistry Major
   Jayeola Apapa, Biochemistry Major
   Allison Peguero, Biochemistry and Neuroscience Major
   Eric Timmons, Biochemistry Major
   Kendall Smith, Chemistry Major
   Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry
   Antibiotic Resistance

B105 Rachel Polak, Biochemistry Major
   Quinn Kistenfeger, Biochemistry Major
   Haley Ferguson, Biochemistry Major
   Advisor(s): Ann Hagerman, Department of Chemistry and Biochemistry
   Chemical Models of Tannin Biodegradation

B106 Jason Flint, Biology Major
   Durga Samanthula, Microbiology Major
   Advisor(s): Tracy Haynes, Department of Biology
   Pi3K Induces Retinal Regeneration in Embryonic Chicks
C01L  Brandi McConahay, Anthropology and Interactive Media Studies Major
Anglo-Saxon Mortuary Archaeology
Kelly Marcus, Anthropology Major
Medical Decision Making Among Homeless Populations
Gwen Lloyd, Anthropology Major
Discovering the Past
Demi Dilenge, Anthropology and Psychology Major
This is Caroline Savana Rosalez, Anthropology and Psychology Major
Deciding what is Healthy and Unhealthy Play for Children
David Colston, Anthropology and Public Administration Major
This is Juan Garcia
Caitlin McElligott, Anthropology and History Major
The Complex Problems of Single Mothers of Color
Advisor(s): Cameron Hay-Rollins, Department of Anthropology
Public Anthropology: Making Scholarly Research Accessible

C02L  Emma Brzezinski, Anthropology Major
Nicole Schapker, Anthropology and Biochemistry Major
Advisor(s): Linda Marchant, Department of Anthropology
Gombe Chimpanzee Termite Fishing Behavior: Using Noldus Observer Software to Examine Laterality

C03L  Erika Jeffers, Microbiology and Premedical Studies Major
Quentin Stickley, Anthropology Major
Advisor(s): Melissa Rosenzweig, Department of Anthropology
Archeobotanical Analysis from Ziyaret Tepe

C04L  James Harris, Individualized Studies - Western Program Major
Advisor(s): Christopher Meyers, Department of Biology
Urbanization’s Effect on Gray Squirrel Foraging Behavior

C05L  Jason Simpson, Interactive Media Studies Major
Advisor(s): Murali Paranandi, Department of Architecture
Sequence Site

C06L  Elena Penhos, Biology and Neuroscience Major
Danny Heller, Marketing Major
Advisor(s): Matthew McMurray, Department of Psychology
Danielle Tapp, Department of Psychology
Pick a Prize: Influence of Reward Type on Impulsive Decision Making

C07L  Antonia Caba, Public Health Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Exploring the Relationship between Body Image and Alcohol Consumption among Sorority Members and Non-members
Poster Presentation Listing by Poster Number
SESSION C: 3:00 – 4:15 P.M.
JOHN DOLIBOIS ROOMS
(See presenter index on pages 40 – 54)

C01  Margaret Carney, Biology Major
     Christine Clark, Biology and Neuroscience Major
Advisor(s): Kathleen Killian, Department of Biology
           Mollie Sorrell, Department of Biology
     The Role of the Enzyme Phenoloxidase in the Immune
     Function and Aggressive Behavior of the Cricket
     Acheta Domesticus

C02  Kendall Smith, Chemistry and Premedical
     Studies Major
     Ross Rybakowicz, Biology and Premedical
     Studies Major
Advisor(s): Kathleen Killian, Department of Biology
           Mollie Sorrell, Department of Biology
     Junctional Communication in the Neurogenic Niche

C03  Alexandra Unger, Biology and Premedical
     Studies Major
     Kelsy Schultz, English Creative Writing and
     Premedical Studies Major
     Elizabeth Jacobs, Biology and Premedical
     Studies Major
Advisor(s): Kathleen Killian, Department of Biology
           Kathryn Kohl, Department of Biology
     Effects of Cold Stress on Reproductive Behavior in
     Male Acheta domesticus Crickets

C04  Zachary Fields, Biology Major
Advisor(s): Michael Robinson, Department of Biology
           Stephanie Padula, Department of Biology
     Creation of a Transgenic Mouse Line with Tamoxifen-
     Induced Cre Expression in the Lens

C05  Justin Poth, Biochemistry and Premedical
     Studies Major
     Emma Buck, Biology and German Major
Advisor(s): Michael Robinson, Department of Biology
           Brad Wagner, Department of Biology
           Phoung Lam, Department of Biology
     Unlocking Our Inner Newt: CRISPR/Cas9 Mediated
     Retina Pigmented Epithelium to Neural Retina
     Trans-Differentiation

C06  Malory Owen, Zoology and Environmental
     Science Major
Advisor(s): Nancy Solomon, Department of Biology
           Brian Keane, Department of Biological Sciences
           Connor Lambert, Department of Biology
     Effects of Vegetation Characteristics on Nest Site
     Selection and Reproduction of Female Prairie Voles
     (Microtus ochrogaster)

C07  Taft Marsh, Botany Major
Advisor(s): Brian Grubb, Department of Biology
           Daniel Gladish, Department of Biology
     Audubon Ash Tree Project

C08  Leah Davey, Biology Major
Advisor(s): Richard Moore, Department of Biology
           Bao Tram Hoang, Department of Biology
     Distribution and Frequency of Red and Yellow Papaya
     Alleles in Central America

C09  Kyle Bueter, Botany Major
Advisor(s): Richard Moore, Department of Biology
           Taylor Chae, Department of Biology
     Epigenetic Modification of Sex Expression in Papaya

C10  Avan Colah, Biology and Premedical Studies Major
Advisor(s): Richard Bretz, Department of Chemistry
           and Biochemistry
           Marcia Lee, Department of Microbiology
     Characterization of an Anti-Fungal Compound in Aloe
     Arborescens

C11  Hailey Hirata, Biochemistry Major
Advisor(s): Richard Bretz, Department of Chemistry
           and Biochemistry
           Marcia Lee, Department of Microbiology
     Isolation of Potential Anti-fungal Compound(s) from
     Aloe Barbadensis
C12  Michael Strickle y, Biology Major  
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry  
The Uptake of Phosphate and Nitrate Ions in Carex comosa and Carex hysterencia

C13  Bri Cooper, Environmental Earth Science and Sustainability Major  
Sean Davis, Earth Science Education Major  
Kimberly Sprowles, Earth Science Education Major  
Jessica Goldstein, Geology Major  
Advisor(s): Brian Currie, Department of Geology and Environmental Earth Science  
Patrick Cullen, Department of Geology and Environmental Earth Science  
Identifying Structural Features for the Southern Extent of the Rome Trough in Gilmer County, West Virginia

C14  Brianne Safer, Psychology Major  
Marie Yamada-Killilea, Psychology Major  
Advisor(s): Amanda Diekman, Department of Psychology  
Melissa Fuesting, Department of Psychology  
Tessa Benson-Greenwald, Department of Psychology  
Preferred Traits of Science, Technology, Engineering, and Mathematics Role Models

C15  Kiley Duhn, Accountancy and Economics Major  
Nikki Weaver, Marketing Major  
Samantha Bosse, Economics Major  
Jacob Brown, Supply and Operations Management and Information Systems Major  
Advisor(s): Megan Gerhardt, Department of Management  
Major Motivations: The Choice Behind a Business Major

C16  Jordan Lilly, Marketing Major  
Mackenzie Craney, Accountancy Major  
Giuliana Pudlo, Supply Chain and Operations Management Major  
Mary McKenna, Accountancy Major  
Advisor(s): Megan Gerhardt, Department of Management  
Ethical Behavior Inside and Outside of the Classroom

C17  Graham von Carlowitz, German Major  
Advisor(s): Mila Ganeva, Department of German  
Exploring Germany's Immigration History in Light of the Refugee Crisis: An Examination of Integration

C18  Kira Osowski, Psychology Major  
Advisor(s): Vrinda Kalia, Department of Psychology  
Silence is Golden? Examining the Impact of Silence versus Brief Mindfulness on Risky Decision Making

C19  Bryan Von Der Vellen, Psychology and Premedical Studies Major  
Jose Jacobo, Psychology Major  
Kira Osowski, Psychology Major  
Advisor(s): Vrinda Kalia, Department of Psychology  
Stressed Out: Examining the Effect of Stress on Executive Functioning in Females

C20  Zachary Digby, Biochemistry Major  
Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry  
Progyateg Chakma, Department of Chemistry and Biochemistry  
New Dynamic Materials using Reversible Maleimide Thiol-Michael Chemistry

C21  Elizabeth Foster, Chemistry and Neuroscience Major  
Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry  
Importance of Network Architecture: Healable, Malleable, Tough and Stable Soft Materials using Orthogonal Dynamic Bonds in an Interpenetrating Network

C22  Carrie Dobbs, Chemistry and Premedical Studies Major  
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
Timothy Abell, Department of Chemistry and Biochemistry  
Investigating Students’ Misconceptions about Concentration of Aqueous Solutions
C23  Katie Ferguson, Chemistry and Premedical Studies Major  
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
Maia Popova, Department of Chemistry and Biochemistry  
General Chemistry Students’ Abilities to Translate Between Symbolic and Space-filling Representations When Reasoning About Bonding in a Combustion Reaction

C24  Kevin Rarden, Chemistry Education Major  
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
Timothy Abell, Department of Chemistry and Biochemistry  
Multiple Representations of Bonding: An Analysis of Students’ Ideas about Molecular Polarity

C25  Lydia Schneider, Zoology and Neuroscience Major  
Anelise Kollias, Zoology Major  
David Sullivan, Biology Major  
Advisor(s): Lori Isaacson, Department of Biology  
Jessie Maloney, Department of Biology  
Plasticity of Glial Cells in the Spinal Cord Following Injury of Peripheral Axons

C26  Mengyang Xu, Chemistry Major  
Meng Lu, Chemistry Major  
Advisor(s): Jiangjiang Zhu, Department of Chemistry and Biochemistry  
Evaluating Metabolic Response of Human Gut Cells Effected by Polyphenols Influenced Gut Bacteria using Targeted LC-MS/MS Metabolic Profiling

C27  Danyelle Roan, Microbiology Major  
Advisor(s): Matthew McMurray, Department of Psychology  
Danielle Tapp, Department of Psychology  
Oxytocin and Its Influence on Gambling Behavior

C28  Hannah Woods, Psychology and Classical Humanities Major  
Advisor(s): Terri Messman-Moore, Department of Psychology  
Lee Eshelman, Department of Psychology  
Lifetime Sexual Violence and Alexithymia: The Mediating Role of Dissociation, Thought Suppression, and Shame

C29  Caitlyn Jones, Psychology and English Professional Writing Major  
Advisor(s): Molly Metz, Department of Psychology  
What We Talk About When We Talk About Trigger Warnings: Defining a Problem

C30  Lamuel Bean, Public Health Major  
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health  
Correlation Between Alcohol Consumption and Basal Metabolic Rate

C31  Olivia Callahan, Kinesiology Major  
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health  
Determining the Relationship Between Greek and non-Greek members and Their Likelihood of Having a Second Social Media Account (Finsta)

C32  Alyssa Fuhr, Kinesiology Major  
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health  
How Does Chronotype Influence Alcohol Consumption Among College Students?

C33  Jourdan Greenlee, Kinesiology and Nutrition Major  
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health  
Influence of Age Difference on Alcohol Use within Couples
C34  Micah Morris, Biochemistry Major  
**Advisor(s):** David Tierney, Department of Chemistry and Biochemistry  
Whitney Craig, Department of Chemistry and Biochemistry  
*Modeling Matrix Metalloproteinase Inhibition with Spectroscopic Study of Carbonic Anhydrase*  

C35  Caroline Roti, Chemical and Paper Engineering Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
*Bars, Booze, and Benzodiazepine: An Examination of Alcohol and Xanax*  

C36  Isaiah Stewart, Environmental Earth Science Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
*Drinking Away the Pain: Exploring the Relation between Depression and Alcohol Consumption among Men and Women*  

C37  Nick Vanderhoof, Kinesiology Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
*Sexual Assault Victimization among Varied Personality Traits*  

C38  Jacqueline Ziegman, Kinesiology and Premedical Studies Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
*Perceived Importance of Alcohol and Peer Pressure Predict Alcohol Consumption among College Students*  

C39  Claudia Worley, Chemistry Major  
**Advisor(s):** David Tierney, Department of Chemistry and Biochemistry  
*Nuclear Magnetic Resonance (NMR) Temperature Dependent Studies of Five Coordinate Cobalt (II) Complexes*  

C40  Jenna Rajczyk, Kinesiology Major  
**Advisor(s):** Nathan Giangardella, Kinesiology Major  
*Associations Among Indices of Physical and Cognitive Function in Older Adults*  

C41  Lana Amer, Bioengineering Major  
**Advisor(s):** Valerie Ubbes, Department of Kinesiology and Health  
*Increasing Access to Pediatric Oral Health Education*  

C42  Martin Heidelman, Biological Physics Major  
**Advisor(s):** Paul Urayama, Department of Physics  
*Time Gating Optimization for Measurements of Cellular Autofluorescence*  

C43  John Bowman, Biology Major  
**Advisor(s):** Karthik Vishwanath, Department of Physics  
*In vivo Applications of Diffuse Optical Techniques for Measuring Hemodynamics in Mouse Models of Cerebral Stroke*  

C44  Adam Eggert, Biological Physics Major  
**Advisor(s):** Karthik Vishwanath, Department of Physics  
*Simmy Mirchandani, Department of Chemical and Paper Engineering  
Smartphone Spectroscopy for Measurement of Diffuse Reflectance*  

C45  Megan Rigot, Nutrition Major  
**Advisor(s):** Connor Cashman, Kinesiology Major  
*Predictors of Lean Body Mass and Function in Older Adults*
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<td>Zachary Roebel, Kinesiology and Public Health Major</td>
<td>Valerie Ubbes, Department of Kinesiology and Health</td>
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<td>Samantha Bettinger, Department of Kinesiology and Health</td>
<td>Robert Duguid, Department of Kinesiology and Health</td>
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<td>Craig Berry, Department of Kinesiology and Health</td>
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<tr>
<td>C47</td>
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<td>Emma Geary, Psychology and English Professional Writing Major</td>
<td>Allen McConnell, Department of Psychology</td>
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<td>Time-Resolved Laser-induced Molecular Fluorescence Spectroscopy</td>
<td>Michael Saaranen, Physics Major</td>
<td>Burcin Bayram, Department of Physics</td>
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<td>Jacob McFarland, Physics Major</td>
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<td>C49</td>
<td>Development and Testing of an Optical Method for Quantifying Flow in Turbid Media</td>
<td>Marian Kelley Patterson, University Studies Major</td>
<td>Karthik Vishwanath, Department of Physics</td>
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<td>Sara Zanfardino, Department of Physics</td>
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<td>C50</td>
<td>Heart Rate Variability</td>
<td>Marissa Lane, English Creative Writing and English Literature Major</td>
<td>Joseph Bates, Department of English</td>
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<td>C51</td>
<td>Production of Subject-Verb Agreement in Second Language Learners of Spanish at Miami University</td>
<td>Olivia Lahey, Biology and Spanish Major</td>
<td>David Beard, Department of Spanish and Portuguese</td>
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<td>JP Roach, Sport Leadership and Management Major</td>
<td>Helaine Alessio, Department of Kinesiology and Health</td>
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<td>C53</td>
<td>Effect of Prior Aerobic Exercise on Plasma Endothelin-1 Responses to Prolonged Sitting in Healthy Men</td>
<td>Callin Gatts, Kinesiology Major</td>
<td>Kevin Ballard, Department of Kinesiology and Health</td>
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<td>Kristina Arslain, Nutrition Major</td>
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<td>Craig Berry, Department of Kinesiology and Health</td>
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<td>Dillon Campbell, Athletic Training Major</td>
<td>Eric Brooks, Department of Kinesiology and Health</td>
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<td>C55</td>
<td>Chronic Exertional Compartment Syndrome in a Collegiate Swimmer: A Case Report</td>
<td>Everett Ritter, Spanish Education and Spanish Major</td>
<td>David Beard, Department of Spanish and Portuguese</td>
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<td>C56</td>
<td>A Comparative Analysis of Authentic vs. Inauthentic Text Syntax in the L2 Classroom</td>
<td>Naomi Wiater, Spanish and Spanish Education Major</td>
<td>David Beard, Department of Spanish and Portuguese</td>
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<td>C57</td>
<td>The Implications of por and para in an L2 Spanish Classroom</td>
<td>Jiayu Wu, Statistics Major</td>
<td>Tatjana Miljkovic, Department of Statistics</td>
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<td>Lin Fang, Statistics Major</td>
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<td>C58</td>
<td>Statistical Modeling the Inventory Allocation of Bay Area Bike Share</td>
<td>Xiaoxiao Zhao, Statistics Major</td>
<td>Tatjana Miljkovic, Department of Statistics</td>
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<td>Junrong Wu, Mathematics Major</td>
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<td>Bayesian Variable Selection in Time Series Regression with an Application to Ecological Data</td>
<td>Alan Tatro, Mathematics and Statistics Major</td>
<td>Jing Zhang, Department of Statistics</td>
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<td>Thomas Fisher, Department of Statistics</td>
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C60  Audrey Short, Biochemistry Major  
    Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry  
          William Joesten, Department of Chemistry and Biochemistry  
      Examining Longitudinal Immunohistochemistry of Alpha and Beta Cells in the NOD-Mouse Model

C61  Kirsten Gonzales, Biochemistry Major  
    Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry  
          Qianqian Ma, Department of Chemistry and Biochemistry  
      Characterization of the Chloroplast Twin Arginine Transport Mutant, hcf106, Arabidopsis thaliana

C62  Gwendolyn Thomas, Biochemistry and Premedical Studies Major  
    Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry  
          Aman Habtemichael, Department of Chemistry and Biochemistry  
      Interaction Points between Stromally Exposed CpTatC and Precursor Signal Peptide

C63  Elise Leonard, Chemistry and Premedical Studies Major  
    Advisor(s): Neil Danielson, Department of Chemistry and Biochemistry  
          Ashley Richardson, Department of Chemistry and Biochemistry  
      Anion Exchange Chromatography of Sulfonated Compounds Using a Protamine Coated Column

C64  Nachiket Potineni, Microbiology Major  
    Advisor(s): Katia Del Rio-Tsonis, Department of Biology  
          Zeyu Han, Department of Biology  
      Knockdown and Knockout of DNMT3a Affects Chick Eye Morphogenesis

C65  Shelby Thompson, Biochemistry Major  
    Julia Walton, Biochemistry Major  
          Kelsey Cottingim, Biochemistry Major  
          Lyndsey Gregerson, Biochemistry Major  
      Justin Gassaway-Steere, Biochemistry Major  
    Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry  
      Antibiotic Resistance: Why You Should Care

C66  Kenna Koehler, Biochemistry Major  
    Taylor Bussell, Chemistry Major  
          Maggie Feazell, Chemistry Major  
          Erin Lensmeyer, Chemistry Major  
      Nicole VanDoren, Biochemistry Major  
    Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry  
      Antibiotic Resistance in Healthcare

C67  Matthew Kelly, Biochemistry Major  
    Patrick McHenry, Biochemistry Major  
          Dylan Bailey Van-Kuren, Biochemistry Major  
          Andrew Donahey, Chemistry Education Major  
      Zach Higgins, Biochemistry Major  
    Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry  
          Ellen Yezierski, Department of Chemistry and Biochemistry  
      Exploring Fermentation Sciences in the Classroom

C68  Sam George, Biochemistry and Neuroscience Major  
    Aaron Abraham, Biochemistry and Premedical Studies Major  
    Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry  
          David Tierney, Department of Chemistry and Biochemistry  
      Whitney Richert, Department of Chemistry and Biochemistry  
      Overexpression, Purification and Kinetic Characterization of Matrix Metalloproteinase 12 (MMP-12)
C69 Zachary Adkins, Biochemistry Major  
**Advisor(s):** Michael Crowder, Department of Chemistry and Biochemistry  
Alexander Bergstrom, Department of Chemistry and Biochemistry  
*Mechanistic Studies of Metallo-Lactamase Inhibitor Aspergillomarasmine A (AMA)*

C70 Emelia Acheampong, Nursing Major  
Prisca Obih, Nursing Major  
Victoria Bosomefi, Nursing Major  
Linda Asomani, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Does Early Tracheostomy Reduce the Length of Stay in Intensive Care Unit?*

C71 Addison Bryant, Nursing Major  
Sarah Titterington, Nursing Major  
Kylie Turoff, Nursing Major  
Hanna Powers, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Homebirth and Neonatal Outcomes*

C72 Abby Cooper, Nursing Major  
Nicoline Nshom, Nursing Major  
Chanely Rodriguez, Nursing Major  
Brittany Simpson, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Misshapeness*

C73 Dana Severin, Nursing Major  
Josh Padgett, Nursing Major  
Haylee Blevins, Nursing Major  
Anna Fry, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Protecting the Prostate*

C74 Ashantia Collins, Psychology Major  
Haleigh Lindner, Psychology Major  
Sarah Moore, Psychology Major  
**Advisor(s):** Amy Summerville, Department of Psychology  
Ryan Walker, Department of Psychology  
*Fate Perceptions and Counterfactual Thinking*

C75 Storm Bollenbach, Nursing Major  
Jane Wittman, Nursing Major  
Doreen Aidooh, Nursing Major  
Leah Glover, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Medical CannaBLISS?*

C76 Shelby Capitulik, Nursing Major  
Sherry Akins, Nursing Major  
Alain Oyeh, Nursing Major  
Kristin Harbeson, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*TLC: Does Kangaroo Care Reduce the Effects of Procedural Pain in Preterm Infants?*

C77 Emily Cornett, Nursing Major  
Emily Mossman, Nursing Major  
Megan Wise, Nursing Major  
Jamie Jones, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Is It Worth the Stick?*

C78 Mary Trusser, Nursing Major  
Madison Bustle, Nursing Major  
Leah Kreiner, Nursing Major  
**Advisor(s):** Jennifer Rode, Department of Nursing  
*Easing Labor Pains with Essential Oils*

C79 Jalen Noble, Psychology and Strategic Communication Major  
Alec Taylor, Kinesiology Major  
Nick Schwabe, Psychology Major  
Liam Byrne, History Major  
**Advisor(s):** L. James Smart, Department of Psychology  
*It’s All in the Posture: Influence of Stance on Adaptation and Performance in a Virtual Task*

C80 Nhat Pham, Microbiology and Premedical Studies Major  
Daniel Jones, Microbiology Major  
**Advisor(s):** Rachael Morgan-Kiss, Department of Microbiology  
*SEA Miami: Influence of Biogeography vs. Day and Night Cycles for Microbial Diversity in the Caribbean*
C81  Zachary Smith, Microbiology and Premedical Studies Major  
Sean Graham, Microbiology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Measuring the Abundance and Diversity of Microbial Dark Matter in Marine Samples [Caribbean Sea, Puerto Rico]

C82  Andrew Woodruff, Microbiology Major  
Zoe Bolen, Microbiology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Comparison of Microbial Diversity Nearshore [San Juan Harbor and Vieques] vs. Open Ocean [Caribbean]

C83  Danielle Belzer, Speech Pathology and Audiology Major  
Advisor(s): Aaron Shield, Department of Speech Pathology and Audiology  
The Development of Joint Attention in a Bimodal Bilingual Child with Autism

C84  Wil Hughes, Speech Pathology and Audiology Major  
Danielle Stelzer, Speech Pathology and Audiology Major  
Advisor(s): Aaron Shield, Department of Speech Pathology and Audiology  
Do Deaf Children with Autism Differ from Typically-developing Deaf Children in their Use of the Face?

C85  Kristina Randall, Speech Pathology and Audiology Major  
Advisor(s): Aaron Shield, Department of Speech Pathology and Audiology  
Language Development in a Bimodal Bilingual Child with Autism

C86  Marie Claire Papamarcos, Microbiology and Spanish Major  
Alex Lanoue, Medical Laboratory Science and Biology Major  
Thatcher Creber, Biology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Trends in Chlorophyll-a and Dissolved Oxygen in the Water Column

C87  Benjamin Keller, Microbiology Major  
Brittany Nordhaus, Psychology and Biology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Primary Driver of Copepod Diel Vertical Migration Pattern: Ultra-Violet Radiation Versus Predation in the Waters Surrounding Puerto Rico

C88  Benjamin Keller, Microbiology and Premedical Studies Major  
Martha Carter, Microbiology and Premedical Studies Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Comparing Community Composition of Diatoms to Bacteria

C89  Noah Ising, Microbiology Major  
Casey Horan, Microbiology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
Keely Icardi, Department of Microbiology  
Isha Kalra, Department of Microbiology  
SEA Miami: The Relationship of the Day and Night Cycle and Nutrient Concentration on Bacterial Diversity

C90  Martha Carter, Microbiology and Premedical Studies Major  
Sarah Hiner, Medical Laboratory Science and Microbiology Major  
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology  
SEA Miami: Phytoplankton Biodiversity: A Comparison of Coastal and Open Ocean Waters
Poster Presentation Listing by Poster Number
SESSION C: 3:00 – 4:15 P.M.
JOHN DOLIBOIS ROOMS
(See presenter index on pages 40 – 54)

C91 Zev Cariani, Microbiology Graduate Student
Jyoti Kashyap, Microbiology Graduate Student
Simin Zhao, Geology Graduate Student
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
SEA Miami: Microbial Community Analysis of San Juan Surface Transect Samples

C92 Joseph Baumgartner, Microbiology Major
Meghan Bowers, Microbiology and Premedical Studies Major
Cassandra Worner, Microbiology and Neuroscience Major
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
SEA Miami: Bacterial Diversity by Time of Day in Marine Samples Near Puerto Rico

C93 Lauren Brady, Microbiology Major
Katelyn Scheive, Psychology Major
Advisor(s): Jennifer Quinn, Department of Psychology
Brett East, Department of Psychology
Contributions of the Medial and Lateral Entorhinal Cortex in the Acquisition of Fear Memory

C94 Tiffany Campbell, Biology, Psychology and Neuroscience Major
Shelby Lab, Psychology and Neuroscience Major
Ethan Hollingsworth, Biology and Neuroscience Major
Victoria Mordzinski, Biology and Premedical Studies Major
Megan Perry, Psychology Major
Advisor(s): Jennifer Quinn, Department of Psychology
Daniel Kochli, Department of Psychology
The Role of NMDA Receptors in the Retrieval and Reconsolidation of Context Fear Discrimination Memory

C95 Haleigh Lindner, Psychology Major
Megan Perry, Psychology Major
Jessica Genaro, Psychology Major
Advisor(s): Jennifer Quinn, Department of Psychology
Daniel Kochli, Department of Psychology
Role of the VTA in the Destabilization of Established Fear Memories

C96 Emily Konrad, Microbiology Major
Cole Goodrich, Microbiology Major
Jon Abell, Biology Major
Sydney Arlis, Biology Major
Anastasia Babcock, Biology Major
Allison Biedenharn, Microbiology Major
Amanda Burgess, Microbiology Major
Luke Carrafiello, Microbiology Major
Callen Conroy, Microbiology Major
Steven Madias, Biology Major
Cortney Mitchem, Microbiology Major
Paolo Palacios, Medical Laboratory Science Major
Julie Donna, Microbiology and Environmental Science Major
Steph Smith, Microbiology Major
Advisor(s): Luis Actis, Department of Microbiology
Mitchell Balish, Department of Microbiology
Rebecca Balish, Department of Microbiology
Mariah Squire, Department of Microbiology
Hailey Riggs, Department of Microbiology
Mystery DNA: A Three-Part Thriller Featuring Mycobacteriophage Clusters D, N, and A

C97 Bryn McElroy, Speech Pathology and Audiology Major
Sarah Kingsbury, Speech Pathology and Audiology and Spanish Major
Megan Igel, Speech Pathology and Audiology Major
Advisor(s): Aaron Shield, Department of Speech Pathology and Audiology
A Linguistic Analysis of Narratives Produced by Adolescents with High-Functioning Autism
C98  **Madeline DiFilippo**, Accountancy and Political Science Major  
Advisors: Monica Schneider, Department of Political Science  
*Running as a Woman: The Reality of Penalties Based on Role Incongruity*

C99  **Nicholas Thomas**, Sport Leadership and Management Major  
Advisors: Thelma Horn, Department of Kinesiology and Health  
*An Investigation of Coaching Career Tracks in Collegiate Basketball: Relationships to Gender and Race/Ethnicity*

C100  **Troy Meyer**, Biology Major  
Advisors: Thomas Crist, Department of Biology  
Michael Cunningham-Minnick, Department of Biology  
*Effects of Water Body Type on Dragonfly Community Composition*

C101  **Alex Mueller**, Athletic Training Major  
Advisors: Eric Brooks, Department of Kinesiology and Health  
*Posterior Sternoclavicular Joint Dislocation During Spring Football*

C102  **Charles Asselmeier**, Zoology and Premedical Studies Major  
Jennifer Rowe, Biology and Premedical Studies Major  
Advisors: Brad Wagner, Department of Biology  
Michael Robinson, Department of Biology  
Stephanie Padula, Department of Biology  
*Dissecting the Mechanism by which Pten Deficiency Rescues Lens Development in Fgfr2 Deficient Mice*

C103  **Kimberly Bowman**, Chemistry and Neuroscience Major  
Advisors: David Tierney, Department of Chemistry and Biochemistry  
*The Effect of Ionic Liquids on Co(II) Complexes and their Counter Ions*

C104  **Amanda Burke**, International Studies Major  
Advisors: Paul Flaspohler, Department of Psychology  
Cameron Hay-Rollins, Department of Anthropology  
*The Role of Educational Resource Centers in Decreasing Infant Mortality*

C105  **Kole Sedlack**, Biology Major  
Arya Chalke, Microbiology Major  
Justin Crookes, Biology and Psychology Major  
Erin Enright, Biochemistry Major  
Advisors: Joyce Fernandes, Department of Biology  
Michael Robinson, Department of Biology  
*Manipulation of EGF Ligands During Flight Muscle Development in Drosophila*

C106  **Blake Rasor**, Biology and Microbiology Major  
Advisors: Michael Robinson, Department of Biology  
*Cameron Hay-Rollins, Department of Anthropology*  
*The Role of Educational Resource Centers in Decreasing Infant Mortality*  
*Manipulation of EGF Ligands During Flight Muscle Development in Drosophila*

*Poster Presentation Listing by Poster Number*

**SESSION C: 3:00 – 4:30 P.M.**

**JOHN DOLIBOIS ROOMS**

(See presenter index on pages 53 - 73)
RECOGNITION:

Miami Mentors Engaging Students in Research

By Martha E. Weber
Recognition: Miami Mentors Engaging Students in Research

Our 23rd annual undergraduate research forum embodies Miami’s 2020 Plan unifying goal: “to promote a vibrant learning and discovery environment that produces extraordinary student and scholarly outcomes.” In addition, undergraduate student research at Miami:

• Ensures vitality and sustainability by building a forward-looking, efficient, and caring culture that stimulates, recognizes, and rewards creativity, entrepreneurial thinking, and exemplary performance.
• Promotes a diverse culture of inclusion, integrity, and collaboration that deepens understanding and embraces intercultural and global experiences.

Our student presenters represent a wide range from first year researchers through seniors who are in various stages of developing their identity as a student scholar. During your visit to the oral and poster sessions we invite you to chat with these researchers about their unique experiences that have prepared them for future careers.

As a (Carnegie) Doctoral Intensive University, Miami attracts faculty members who have a passion for advanced research and scholarship, as well as a commitment to teaching. Miami consistently graduates the second highest number of science students among Ohio public universities.

Today and throughout the year, we hope you will take a few moments to recognize the truly amazing contributions from our dedicated faculty and staff who consistently include students in these crucial research partnerships that explore the process of learning.

The undergraduate research forum illustrates the strong commitment of Miami faculty to provide hands-on interactions with students in the role of teacher-mentor. Mentors recognized in this publication for their dedication to stimulate student inquiry-based learning are representative of the efforts of a myriad of faculty and staff providing research experiences inside and outside the classroom.

This emphasis on personal attention from faculty and graduate students introduces incoming students to examine the possibility of how to get started in research. For Miami upper class students, the opportunity to continue research involvement during their entire undergraduate experience allows numerous opportunities to expand knowledge in their chosen discipline.


2. Miami recognized in STEM Jobs Magazine and online as part of the entire 2016-2017 list of STEM JobsSM Approved Colleges by Victory Media. Key indicators that demonstrate the extent to which a school works to:
1. Provide opportunities for students to explore STEM subjects.
2. Promote partnerships that foster STEM literacy and connect classrooms to careers.
3. Ensure coursework and activities that have a focus on careers.
Promote STEM programs that actively attract and engage underrepresented student populations.

3. “Miami’s “exceptionally strong commitment” to teaching has placed it first or second among public universities for the seventh year in a row in a U.S. News & World Report ranking. Miami is also regularly listed in Kiplinger’s Personal Finance magazine, Forbes and the Fiske Guide as among the best quality/best value public colleges in the U.S.
RESEARCH MENTORS

2017 Undergraduate Research Forum

Anthropology
James S. Bielo
Jeb Card
Cameron Hay-Rollins
Linda Marchant
Melisa Rosenzweig
John Schaefer

Architecture and Interior Design
Murali Parandi

Armstrong Institute for Interactive Media Studies
Eric Hodgson

Biology
Joseph Baumgartner
David Berg
Dawn Blitz
Taylor Chae
Courtney Clark-Hachtel
Jon Costanzo
Thomas Crist
Michael Cunningham-Minnick
Katia Del Rio-Tsonis
Joyce Fernandes
Melany Fisk
JD Gantz
Daniel Gladish
Jake Godfrey
Maria Gonzalez
David Gorchov
Shinjini Goswam
Brian Grubb
Zeyu Han
Paul Harding
Tracy Haynes
Steven Hein
Bao Tram Hoang
Susan Hoffman
Lori Isaacsen
Paul James
Brian Keane
Carolyn Keiffer
Kathleen Killian
Kathryn Kohl
Phuong Lam
Connor Lambert
Richard Lee
Chung Liang
David Linz
Agustin Luz-Madrigal
Jessie Maloney
Richard Moore
Nancy Paola Ruiz-Echeverri
Stephanie Padula
Jeremy Papuga
Joe Powers
Peipe Qi
Valerie Rajathi
Michael Robinson
Amber Rock
David Russell
Ann Rypstra
Minqian Shen
Haifei Shi
Nancy Solomon
Mollie Sorrell
Divyalakshmi Soundararajan
Michael Stanley
Aswati Subramanian
Sean Taylor
Yoshinori Tomoyasu
Mike Vanni
Brad Wagner
Ashley Walters
James Wiebler
Tanner Williamson
Craig Williamson
Qi Zhu

Black World Studies
Rodney Coates

Chemical, Paper and Biomedical Engineering
Catherine Almquist
Jason Berberich
Simmy Mirchandani
Andrew Paluch
Justin Saul
Jake Stapleton

Chemistry and Biochemistry
Timothy Abell
Gregory Allen
Abdullah Bilal Altundas
Alexander Bergstrom
Richard Bretz
Progyateg Chakma
Tafadzwa Chihanga
Andrew Craig
Whitney Craig
Michael Crowder
Carole Dabney-Smith
Neil Danielson
Gunjan Dixit
Daniel Drew
Katie Eudy
Benjamin Gung
Aman Habtemichael
Ann Hagerman
Scott Hartley
Faizule Hassan
William Joesten
Michael Kennedy
Dominik Konkolewicz
Gary Lorigan
Stacey Lowery Bretz
Qianqian Ma
Ruoyu Ma
Christopher Makaroff
Janet Marshall
C. Paul New
Richard Page
Maia Popova
Justin Pratt
Ashley Richardson
Whitney Richert
Anthony Salise
Ramja Sritharan
Richard Taylor
David Tierney
Jorge Torres
Howard Vail
Jamie VanPelt
Michelle Veite
Gopi Nath Vemuri
Shenyuan Xu
RESEARCH MENTORS

2017 Undergraduate Research Forum

Hong Wang
Ellen Yezierski
Jiangjiang Zhu

Educational Psychology
Leah Wasburn-Moses

Electrical and Computer Engineering
Mark Scott

English
Joseph Bates
Andrew Hebard

Family Studies and Social Work
Chelsey Gates
Katherine Kuvalanka
Elise Radina

French and Italian
Andrea Righi

Geography
Bruce D’Arcus
Jerry Green

Geology and Environmental Science
Mike Brudzinski
Patrick Cullen
Brian Currie
Jonathan Levy
Carrie Tyler

Global & Intercultural Studies
Tani Sebro
Marguerite Shaffer

GRAMELAC
Mila Ganeva
Kazue Harada

History
Elana Albarrán

Information Systems and Analytics
Ying-Ju Chen

Latin American, Latino/a, & Caribbean Studies
Elena Albarrán
José Amador

Kinesiology and Health
Helaine Alessio
Kevin Ballard
Craig Berry
Samantha Bettinger
Eric Brooks
Robert Duguid
Karly Geller
Thelma Horn
Callie Maddox
Beth Miller
Jennifer Pate
Kyle Timmerman
Valerie Ubbes
Rose Marie Ward
Victoria Warren

Management and Leadership
Rhett Brymer
Scott Dust
Megan M. Gerhardt

Mathematics
Anna Ghazaryan

Mechanical and Manufacturing Engineering
Michael Bailey-Van Kuren
Muhammad Jahan
Jeong-Hoi Koo
James Moller

Media, Journalism and Film
Mack Hagood

Microbiology
Luis Actis

Nursing
Eyad Musallam
Jennifer Rode

Physics
Lalit Bali
Samir Bali
Burcin Bayram
Jennifer Blue
Jeffrey Brock
Andrew Hachtel
Mahmud Khan
Patrick Janovich
Paul K. Urayama
Karthik Vishwanath
Anthony Young
Sara Zanfardino

Political Science
Erica Edwards
Mark Morris
Monica Schneider

Psychology
Steven Almaraz
Seham Almutairi
Aimee L. Belanger
Tessa Benson-Greenwald
Jason Deska
Amanda Diekman
Brett East
RESEARCH MENTORS

2017 Undergraduate Research Forum

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Christina Fitzpatrick
Paul Flaspohler
Melissa A. Fuesting
Yvette Harris
Kurt Hugenberg
Alexandria Intorcio
Joseph Johnson
Vrinda Kalia
Anne Kalomiris
Elizabeth Kiel Luebbe
Daniel Kochli
Jonathan Kuntsman
Paige Lloyd
Aaron Luebbe
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Matthew McMurray
Terri Messman-Moore
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Leonard Jay Smart
Richard Smith
Amy Summerville
Danielle Tapp
Robin Thomas
Keisha Wagers
Ryan Walker
Audrey Weil
Virginia Wickline
Li Zhou

Speech Pathology and Audiology
Taylor Creech
Donna Scarborough
Aaron Shield

Statistics
Thomas Fisher
Tatjana Miljkovic
Jing Zhang

Teacher Education
Todd Edwards

Western Program
Jacqueline Daugherty
Christopher Meyers

Sociology and Gerontology
Kristen Budd
C. Lee Harrington
Stephen Lippmann

Spanish and Portuguese
David Beard
Paula Gandara
Shelly Bromberg Jarrett
The Office of the Provost and funds from individual gifts and grants to various departments across Miami University support Miami students’ exploration of research.

**Office of Research for Undergraduates**

In fall 2014, Miami celebrated the opening of the Office of Research for Undergraduates (ORU) in King Library under the direction of Dr. Joseph Johnson, Professor of Psychology.

The ORU champions the vision, marketing, and coordination of research and creative efforts by Miami University undergraduate students. The ORU focuses on increasing participation in research and creative efforts of students in all majors; increasing the overall quality of undergraduate research at Miami as evidenced through publications, grants, and fellowships; and broadening student participation and faculty mentorship in diverse disciplines and backgrounds. In addition to the Undergraduate Research Forum, the ORU is responsible for:

- Promoting and publicizing the research achievements of Miami students
- Coordinating multi-disciplinary curricular efforts such as the First Year Research Experience
- Administering university-wide undergraduate research programs such as DUOS, URA and USS
- Offering co-curricular support programming including workshops, seminars, site visits, etc.
- Assisting with the identification of appropriate funding opportunities for student-led research
- Offering clear routes to research opportunities for our undergraduates, both at Miami as well as across the nation (e.g. summer programs, internships)
- Collaborating with other offices such as: Global Initiatives, Honors Program, Howe Writing Center, and the University Libraries
- Advocating beyond the university for support of undergraduate research through professional memberships

**Council on Undergraduate Research Enhanced Membership thru ORU**

ORU sponsors Miami’s Enhanced Institutional Membership in Council on Undergraduate Research, to provide an unlimited number of our faculty, students, administrators, and staff to join CUR for free.

The Council on Undergraduate Research (CUR) is a national non-profit educational organization that provides research opportunities for students and faculty. The CUR Mission is “to support and promote high-quality undergraduate student-faculty collaborative research and scholarship”. The council achieves its vision through the efforts of members within varying disciplines including: arts and humanities, biology, chemistry, geosciences, health sciences, mathematics and computer science, physics and astronomy, psychology, and social sciences. Representing over 900 colleges and universities, this organization provides publications and outreach activities to share strategies for establishing undergraduate research programs. For more information, visit the CUR website at [http://www.cur.org/](http://www.cur.org/).

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FYRE, DUOS, URA and USS program details available at: [http://www.MiamiOH.edu/oru](http://www.MiamiOH.edu/oru)
MIAMI UNIVERSITY

Undergraduate Research Opportunities

Doctoral-Undergraduate Opportunities for Scholarship (DUOS)

Miami’s DUOS program heightens the synergy between our graduate and undergraduate programs. Sponsored by The Graduate School and the Office of Advancement of Research and Scholarship, and in partnership with Miami’s Preparing Future Faculty initiative, DUOS enables Miami undergraduates to do research or other creative activities guided by a talented graduate student mentor. Either graduates or undergraduates may initiate applications, but the undergraduate student maintains intellectual ownership of the project. Publication of research results is expected, and funds are awarded to the undergraduate and doctoral student for use in the research project. Any Miami University undergraduate student and any post-master’s doctoral student in good standing may apply to participate.

First Year Research Experience (FYRE)

Miami’s Office of Research for Undergraduates sponsors the First Year Research Experience (FYRE) Program. Over 500 Miami students have participated in the program since 2009. The program aims to impact student achievement and retention through involvement in research and inquiry at the very start of their college experience. The program encourages students to develop meaningful relationships with Miami faculty, graduate students and their peers outside of the classroom.

The FYRE program provides students with authentic, hands-on research experiences in small teams led by research-active faculty during a two-semester course sequence UNV171 and UNV172. Student researchers review their topic, design a study, and complete necessary training during the fall semester; they implement the study, analyze data, and present the results in the spring. This experience prepares students early for subsequent research opportunities such as summer research positions across the nation and independent research supervised by Miami faculty.

Joining the program requires a two-semester commitment from the student who must agree to:

- enroll in the 2-credit required seminar (UNV171 or UNV172)
- dedicate 2-4 additional hours per week to a faculty-mentored team research project

FYRE Research Tracks are conducted by a combination of faculty, graduate assistants, and undergraduate peer mentors with previous research experience. It is common for representatives from other university offices (e.g. University Libraries, Howe Writing Center) to contribute to instruction in UNV 171 and UNV 172. Additionally, there are several workshops, colloquia, and other professional development opportunities that are offered, some of which are exclusive to FYRE students.

Undergraduate Research Award (URA)

The ORU provides administrative support to the Miami University Senate Committee on Undergraduate Research. Since the early 1980’s university senate has sponsored the URA to provide Miami Undergraduates faculty-mentored experience in developing grant applications. These partnerships encourage discovery, creative activity and novel, inquiry-based activity. The purpose of these funds is to foster and support research and creative activity from all disciplines, as well as to provide students with a hands-on opportunity to engage in the research process -- from conception to proposal to results. While students can propose projects that augment or are related to an existing faculty project, proposals are developed by student applicant(s), under the supervision of and with sponsorship by a faculty member.

Students may submit individual projects or team projects. Typical awards range from $150 to $500, but individual projects of exceptional merit or projects involving student teams may be funded up to $1,000. Each individual student project or team project must be endorsed by a sponsor who certifies that the project is worth doing, has educational value to the student(s) and can be accomplished in the proposed time frame. The aim and result of specific projects supported by the program may be modest as long as the work can reasonably be interpreted as research or a creative endeavor. Applications may be made for support of a research project that is also being conducted for academic credit.
Undergraduate Summer Scholars (USS)

Miami’s nationally-recognized USS program offers a premier undergraduate research experience. The USS initiative supports students in research and other creative activities during the summer under the supervision of faculty. Funds from the Provost’s Office make 100 awards available per year. Each award includes a stipend for the student, a student allowance for supplies and services, 6 credit hours with academic fees waived, plus a faculty mentor allowance. Open to students from all disciplines, the focus of this 9-week summer program is the individual student/faculty mentor relationship. Applications by individual student/faculty pairs form the basis for subsequent allocation of USS positions to departments. Although coordinated by the Office of Research for Undergraduates (ORU), departments are primarily responsible for selecting particular student/faculty projects, approving those projects for academic credit, and evaluating the student experiences.

College of Arts and Science Dean’s Scholars Program

Undergraduates who have exhibited excellence in the classroom and the ability to take on the extra challenges of research and scholarly work may be invited to participate in a Dean’s Scholar Program within their division. Individual departments develop their own criteria for selecting scholars, but those selected must have conceived and proposed a project that is endorsed by a faculty mentor. During the senior year, Dean’s Scholars conduct independent study with a departmental mentor. The scholar and the mentor each receive a professional expense stipend. Students conduct the study under the individual department’s independent study or departmental honors course numbers, thereby earning academic credit for the project. Dean’s Scholars projects culminate in significant work of scholarship aimed towards national/international publication, performance, or dissemination. For more information, contact the chair of your College of Arts and Science department.

College of Arts and Science

Hughes Medical Institute Summer Research Internships

Named after the original sponsoring foundation, the Hughes Summer internship is available for undergraduates interested in the biomedical sciences. Approximately 15 internships per year for Miami University students are supported with funds from the College of Arts and Science. Students in this program work with Miami faculty from the departments of biology, chemistry, and microbiology. The 10-week internship includes a participant stipend and provides twelve hours of credit with tuition costs waived.

Visit the College of Arts & Science Website for information on Dean’s Scholar and Howard Hughes awards.
National Prestigious Fellowships Application

The University Honors Program and Global Initiatives collaborate to assist all Miami University Students and alumni to identify, plan for, and win national prestigious scholarships and fellowships to pursue graduate school, study or research abroad, and professional development.

To compete for a prestigious scholarship or fellowship, students should generally have the following:

• A cumulative grade point average of 3.75 or higher
• A history of substantial intellectual or creative projects
• Evidence of exemplary leadership or public service
• Three or more faculty members who can write you detailed letters of support.

Visit the national fellowship page: http://www.miamioh.edu/fellowships.

To get information about specific fellowship and scholarship opportunities and for help with the application process.

Global Initiatives

Aligned with Miami University's commitment to advance global learning, Global Initiatives promotes the dynamic, comprehensive internationalization of the University through the infusion of multicultural and comparative perspectives in scholarship, teaching, and service.

Our offices include Education Abroad Services, International Student and Scholar Services, the Center for American and World Cultures, the Confucius Institute and Continuing Education.

Visit: http://www.MiamiOH.edu/global

University Honors Program

UHP supports and provides opportunities for academically motivated students who want a highly challenging and intellectually enriched learning environment. The program emphasizes student discussion, intellectual exchange, reflection, and other active learning. Honors and Scholars students have frequent contact with faculty; many complete research or other projects working closely with a faculty mentor. UHP provides opportunities that include study abroad, funding for research and travel, internships, and social and cultural activities. The Honors community is comprised of students from all divisions at the University.

Acknowledgements

Undergraduate Research Forum Planning Committee Members:

Graduate School and Office for Advancement of Research and Scholarship and Office of Research for Undergraduates

James T. Oris, Joseph G. Johnson, Martha E. Weber, Valerie O. Robinson

The UR Forum planning committee comes together each year to invite the community to celebrate the research, scholarship and creative activities of our students. We appreciate the yearlong efforts and support of all of the mentors, departments, programs, and divisions who engage with students to foster creativity and research. The committee would also like to express our sincere appreciation to Valerie Robinson (Graduate School), and the many faculty, graduate students and staff members whose continued commitment to serve as moderators for the oral presentation format fosters undergraduate research and inquiry. The UR Forum planning committee commends the exemplary efforts of Martha E. Weber, Undergraduate Research Coordinator in the Office of Research for Undergraduates for the many hours of work to manage the details of this signature event.

Our special thanks to the dedicated staff members and students who contribute so much to this event:

• Technical Staff Supporting the Oral Presentations: Paula Fogt, Guy Moore, Larry Downes.
• Staff members: Lou Ann Haines, Vanessa Gordon, Jennifer Sutton, and Valerie Robinson.
• Miami’s Trucking and Physical Facilities staff members delivering the poster boards
• Shriver Center Staff members: Susan Coleman, Alicia Rizzo, Neila Hanges, Jim Baker, Dennis Brown and their crew.
• Alpha Phi Omega Zeta Delta Chapter for their assistance with the poster session set up.

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Edward Kezur Scholarships
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Gary W. Barrett Research Award Fund
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J. Beldon Dennison Scholar Room Fund
Joseph F. Hogan Research Scholar Fund
Kettering Fund
Madeline and George Shetler Diabetes Research Award Fund
Marjorie C. Britton Fund
Miami Honors Program Student Initiative Fund
Miami Provost Office
Nancy Anderson Brown Honors Program Fund
Susan Roberson Wilson Fund
William Borchers Fund
William and Caroline Stevenson Research Scholar Fund
William Turrell Herbarium Fund

The Cleveland Foundation
The E.F. and Fern F. Patten Student Research Fund
The Gund Foundation
The Ohio Board of Regents

To support undergraduate research at Miami, please contact:
Miami University, Director of Development • 725 East Chestnut • Oxford, OH 45056 • Phone: (513) 529-9260
As a courtesy to the oral presenters, please enter the sessions during the 15-minute break and stay for entire oral session that begins on the hour. Reminder: Please check event locations on day of the event.

Oral Session I 9:00 – 9:45 a.m. (Break 9:45 a.m.)
Oral Session II 10:00 – 10:45 a.m. (Break 10:45 a.m.)
Oral Session III 11:00 – 11:45 a.m.
Oral Session IV 1:30 – 2:15 p.m. (Break 2:15 p.m.)
Oral Session V 2:30 – 3:15 p.m. (Break 3:15 p.m.)
Oral Session VI 3:30 – 4:15 p.m.

Poster presenters will be with their poster during their assigned time.

**Session A** (10:00 – 11:30 a.m.) **Session B** (1:30 – 2:45 p.m.) or **Session C** (3:00 – 4:30 p.m.)

Poster* = primary presenter

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