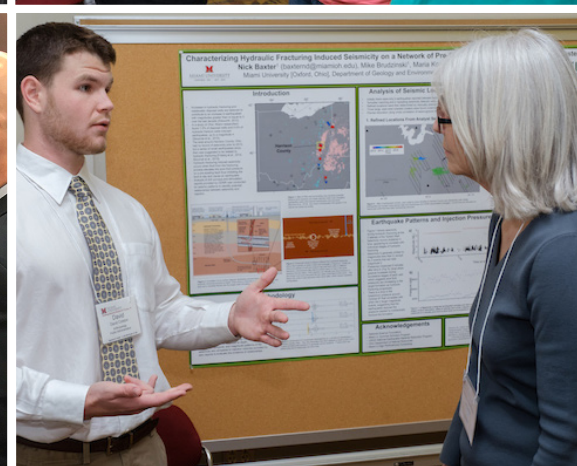
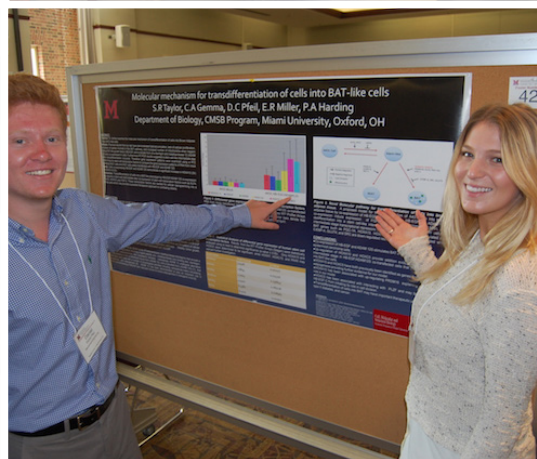
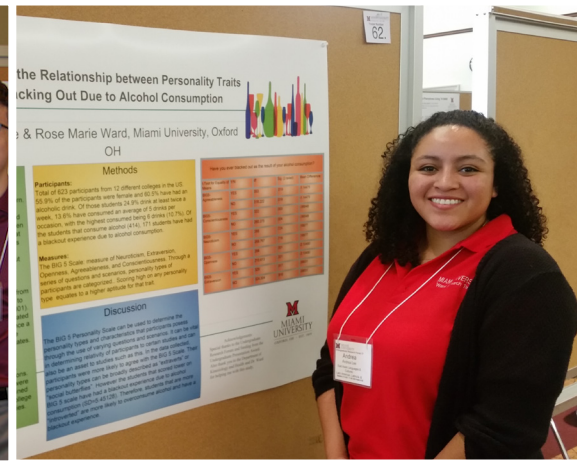
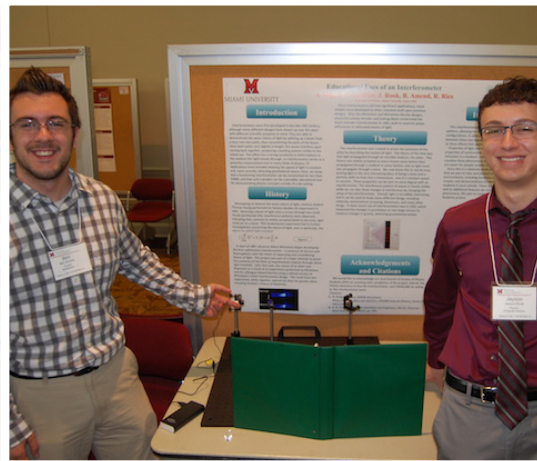
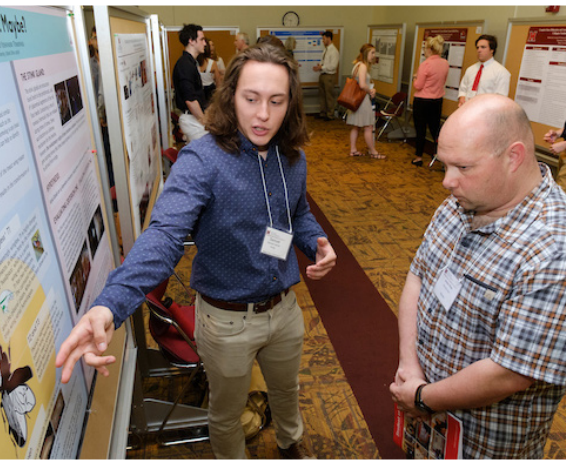


Student as Scholar

24TH ANNUAL UNDERGRADUATE RESEARCH FORUM



MIAMI UNIVERSITY 2018



Message from the President and Dr. Crawford

To the Miami community,

Welcome to the 2018 Undergraduate Research Forum! The inquiry and creative activity that extends our classroom education into laboratories, field work and our surrounding community is an integral part of a Miami undergraduate experience. We join you in celebrating the more than 380 projects being presented today by more than 550 undergraduate researchers.

By analyzing data, designing studies to advance scholarship, and presenting results, Miami students are creating knowledge and showcasing the entrepreneurial spirit that will prepare them for success in today's global and technological world.

A special thanks to faculty mentors, true teacher-scholars who help design the undergraduate experience that has differentiated Miami University for generations. Beyond the research presented in today's forum, more than 2,000 additional students worked with professors on funded research this year.

For 24 years, this Undergraduate Research Forum has celebrated independent inquiry by Miami students. We believe in the power of scholarly research to enhance the student experience and change the world. We join with all of you in congratulating all of the students and faculty included in today's event.

Love and Honor,

Greg and Renate Crawford

Contact Information

ORU

Office of Research
for Undergraduates

P: 513-529-2455

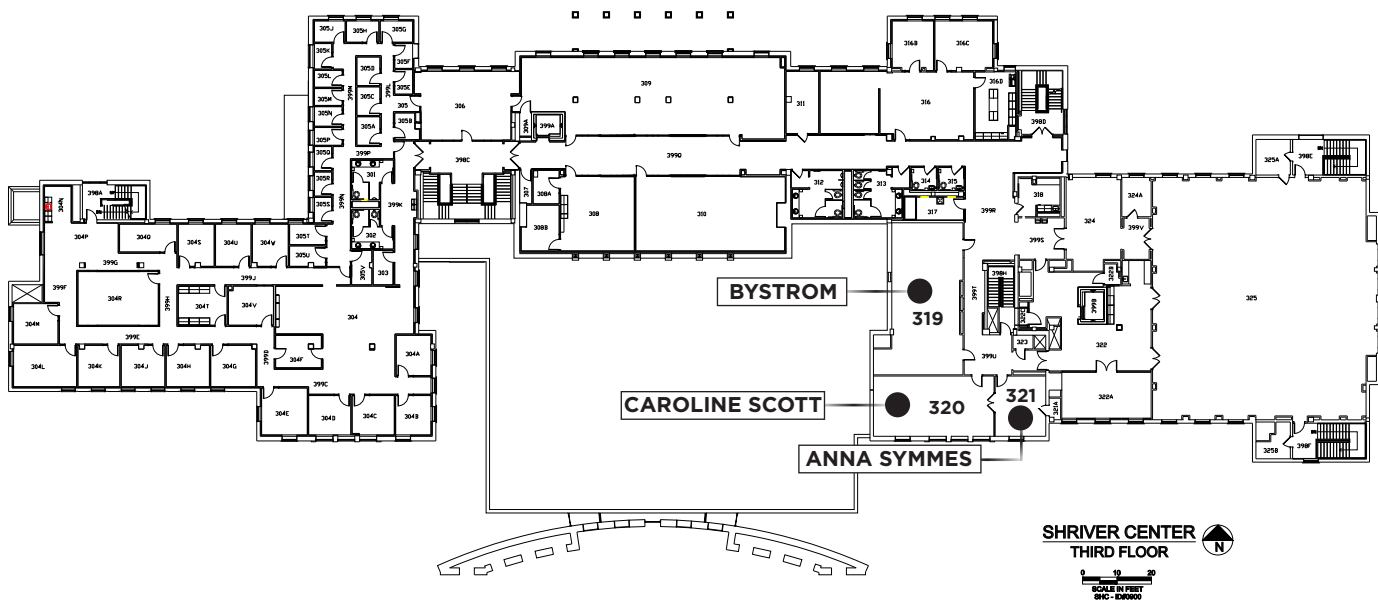
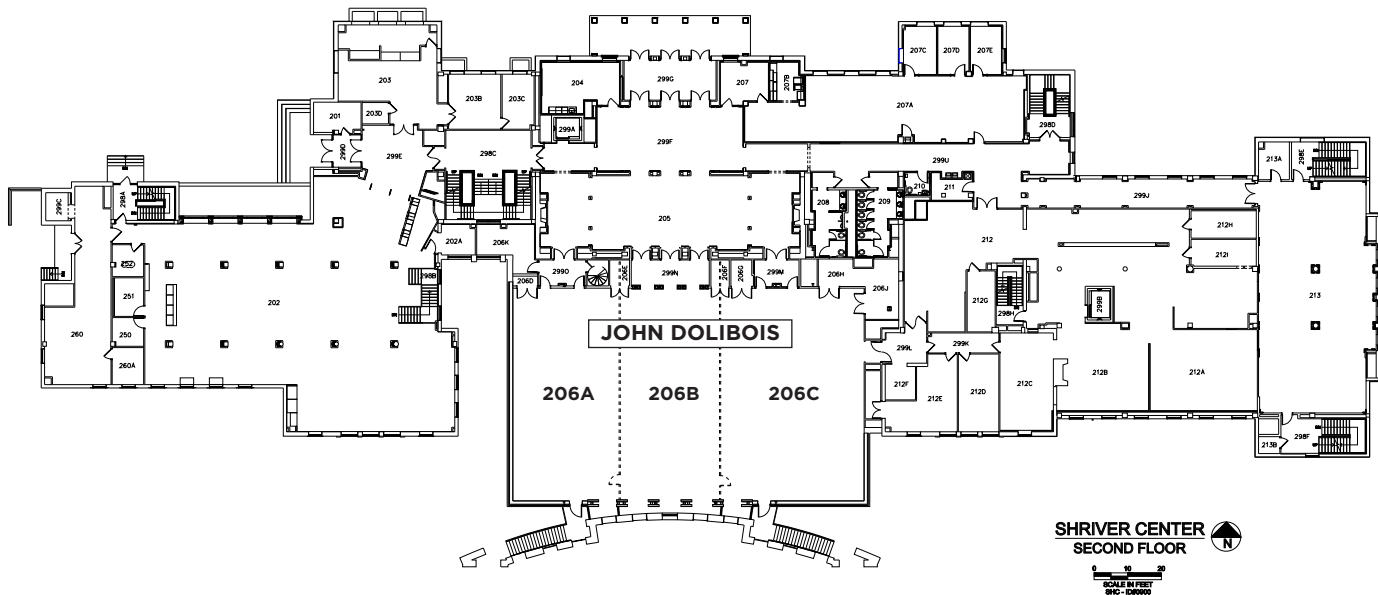
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Shriver Center Floor Plans



Undergraduate Research Forum 2018 Sponsors

Graduate School and Office for the Advancement of Research and Scholarship
Office of Research for Undergraduates
Provost and President



MIAMI UNIVERSITY
24TH ANNUAL UNDERGRADUATE RESEARCH FORUM

Schedule of Events

APRIL 25, 2018

Oral Presentations – Morning Sessions I, II, III

Session No.	Session Duration	Room	Room	Room
Session I	9:00 a.m. to 9:45 a.m.	Anna Symmes	Caroline Scott	Bystrom
Session II	10:00 a.m. to 10:45 a.m.	Anna Symmes	Caroline Scott	Bystrom
Session III	11:00 a.m. to 11:45 a.m.	Anna Symmes	Caroline Scott	Bystrom

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

LAURE award announcement – Lindsay Miller, Assistant Head of Advise & Instruct at the Libraries

Oral Presentations – Afternoon Sessions, IV, V, VI

Session No.	Session Duration	Room	Room	Room
Session IV	1:30 p.m. to 2:15 p.m.	Anna Symmes	Caroline Scott	Bystrom
Session V	2:30 p.m. to 3:15 p.m.	Anna Symmes	Caroline Scott	Bystrom
Session VI	3:30 p.m. to 4:15 p.m.	Anna Symmes	Caroline Scott	Bystrom

Poster Sessions (Shriver John Dolibois Rooms)

Over 550 student presenters share the results of their research

Interactive Poster Sessions

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.

Oral Presentation Schedule

(See also index on pages 47 - 61)

SESSION I: 9:00 – 9:45 A.M.

Bystrom

SESSION MODERATOR: Shannon Fasola

Lawrence Gardner Jr., Biology Major, Bioinformatics Minor

ADVISOR(S): Chun Liang, Bioinformatics Laboratory
Department of Biology

Bioinformatics Visualized in Mixed Reality, New Educational Tools

Victor Pinto, Biology and Spanish Major

ADVISOR(S): Michael Robinson, Department of Biology
Phuong Lam, Department of Biology
Using Genetically-Modified Human Stem Cells to Visualize the Development of Specific Neural Retina Cell Types

Elaine Sidler, Biology and Neuroscience Major

ADVISOR(S): Michael Robinson, Department of Biology
Stephanie Padula, Department of Biology
Pten Deletion Rescues Fiber Cell Differentiation in FGFR-deficient Mouse Lens Explants

Caroline Scott

SESSION MODERATOR: Erin Johnson

Benita Tseng, Biochemistry and Premedical Studies Major

ADVISOR(S): Katia Del Rio-Tsonis, Department of Biology
Erika Grajales-Esquivel, Department of Biology
Re-patterning of Histone Modifications during RPE to Retina Reprogramming

Tiffany Campbell, Biology and Psychology Major

ADVISOR(S): Jennifer Quinn, Department of Psychology
The Effect of Extinction on the Destabilization of an Overtrained Fear Memory

Nicole Schapker, Anthropology and Chemistry Major

ADVISOR(S): Clara Scarry, Department of Anthropology
The Comparative Method in Anthropology: Using Phylogenetic Analyses to Interpret the Effects of Visual Acuity, Ecology, and Sociality on Primate Brain Size

Anna Symmes

SESSION MODERATOR: Dana Johnson

Sydney Chuen, International Studies and French Major

ADVISOR(S): Tani Sebro, Department of Global & Intercultural Studies
Europe or Bust: A Comparative Study on Human Smuggling in Nimruz, Afghanistan and Agadez, Niger

Inaara Ladha, International Studies and Comparative Religion Major

ADVISOR(S): Tani Sebro, Department of Global & Intercultural Studies
Investigating the Indian Diaspora: Parallels between the Asian Expulsion from Uganda in 1972 and Contemporary Fiji

Ryan Kiehl Price, International Studies and Political Science Major

ADVISOR(S): Tani Sebro, Department of Global & Intercultural Studies
From Algeria to France, The Colonial Migration Trail

Oral Presentation Schedule

(See presenter index on pages 47 - 61)

SESSION II: 10:00 – 10:45 A.M.

Bystrom

SESSION MODERATOR: Christina Fitzpatrick

Donald Blank, Mechanical Engineering Major

ADVISOR(S): Hamed Samandari, Department of Mechanical and Manufacturing Engineering

Engineering Offering New Perspectives for Fluid Management in Hemodialysis Patients

Nathaniel Anderson, Engineering Technology Major

ADVISOR(S): Banafsheh Seyed-Aghazadeh, Department of Engineering Technology

A Study on Vortex-Induced Vibration of Flexible Cylinders

Caroline Scott

SESSION MODERATOR: Thaiesha Wright

Katherine Melberg, Classical Humanities and Classical Languages Major

ADVISOR(S): Deborah Lyons, Department of Classics
Gendered Language and Motherhood in the Oresteia

Julian Johnson, Psychology Major

Alcohol and Relationships

Katie Bobbitt, Kinesiology Major

Paige Silverberg, Public Health and Management & Leadership Major

ADVISOR(S): Karly Geller, Department of Kinesiology and Health

Bicycle Behaviors and Perceptions on Miami University's Campus

Anna Symmes

SESSION MODERATOR: Erin Johnson

Natalie Odin, Marketing Major

Alexa Baldari, Marketing Major

Nick Kovesdi, Finance and Accounting Major

ADVISOR(S): Megan Gerhardt, Department of Management
The Effects of Professor Diversity on the Learning Experience

Astrid Cabello, Finance Major

Sean Mullee, Business Economics Major

Aleah Sexton, Finance Major

Advisor(s): Megan Gerhardt, Department of Management
Assessing Which Benefits Miami University Honors Students Value the Most

Madison Sawyer, Marketing Major

Jane Marsh, Business Economics and Sustainability Major

ADVISOR(S): Megan Gerhardt, Department of Management
Impact of "Late Night Miami" Programming on Undergraduate Alcohol Consumption

Oral Presentation Schedule

(See presenter index on pages 47 - 61)

SESSION III: 11:00 – 11:45 A.M.

Bystrom

SESSION MODERATOR: Steven Almaraz

Adam Eaton, Physics and Mathematics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics
Video Photoplethysmography: How to Get a Person's Heart-Rate from Video

Marian Kelley Patterson, Chemistry Major

ADVISOR(S): Karthik Vishwanath, Department of Physics
Sara Zanfardino, Department of Physics
Investigating Changes in Tissue Perfusion with Pressure via Diffuse Correlation Spectroscopy

Amber Williams, Engineering Physics and Mathematics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics
Numerical Modeling of fNIRS for Brain Imaging

Caroline Scott

SESSION MODERATOR: John Charles

Kristina Randall, Speech Pathology & Audiology Major

ADVISOR(S): Aaron Shield, Department of Speech Pathology and Audiology
Language Development in a Bimodal Bilingual Child with Autism

Victoria Slabinski, Music and Social Justice Studies Major

ADVISOR(S): Liz Wilson, Department of Comparative Religion
Elizabeth Hoover, Department of Music
"A Man Who Loved Me": Queer and Christian Understandings of Sufjan Stevens' Lyrics

Anne Symmes

SESSION MODERATOR: Shreya Srivastava

Katie Hinh, Anthropology and East Asian Languages and Cultures Major

ADVISOR(S): James Bielo, Department of Anthropology
Labor for Beauty: Migrant Identity in Midwestern Nail Salons

Madeline Shultz, Anthropology Major

ADVISOR(S): James Bielo, Department of Anthropology
Performing 'Aegyo': Language, Gender, and Power among Young Adults in Korea

Oral Presentation Schedule

(See presenter index on pages 47 - 61)

SESSION IV: 1:30 – 2:15 P.M.

Bystrom

SESSION MODERATOR: Gabrielle Lopez

Daniel Gonzalez, Political Science and Sustainability Major

ADVISOR(S): Jacqueline Daugherty, Western Program

Avoiding the Next Lead Crisis: A Tale of Two Cities and the Investment in Replacing an Entire City's Lead

Kefeng Jiang, Physics and Mathematics Major

ADVISOR(S): Samir Bali, Department of Physics

Ken DeRose, Department of Physics

Pump-Probe Angular Dependency of Dicke Narrowing in EIT Service Lines

Sydney Harris, Biology and Spanish Major

ADVISOR(S): Katia Del Rio-Tsonis, Department of Biology

Tianlin Lu, Department of Biology

The Role of C3a in RPE Reprogramming

Caroline Scott

SESSION MODERATOR: Sarah Lambert

Alissa Johnson, History and Political Science Major

ADVISOR(S): Tammy Brown, Department of History

Nuisances amongst Black Women's Social Reform: Victoria Earle Mathews and Jane Edna Turner

Evan Doran, English Creative Writing and English

Professional Writing Major

ADVISOR(S): Margaret Luongo, Department of English

The Town of Impossibilities

Stephanie Smith, Microbiology Major

ADVISOR(S): Tereza Jezkova, Department of Biology

Phylogenetic Analyses of North American Band Wing Grasshoppers (Oedipodinae)

Anna Symmes

SESSION MODERATOR: Dana Johnson

Vinoth Vincely, Biological Physics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics

Investigating the Accuracy of the IAD/IS System in Extracting Broadband Optical Properties from Uniform Optical Phantoms

Rebeca Garcia De Jesus, Physics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics

Vrinda Kalia, Department of Psychology

A Systematic Approach and Analysis of Multiple Motion Artifact Techniques to Optimize NIRx Data Analysis in Homer2

Brent Reichert, Mechanical Engineering Major

ADVISOR(S): Karthik Vishwanath, Department of Physics

Development of a Smartphone-Based Spectrometer for Determination of Optical Properties in Medical Imaging Applications

Oral Presentation Schedule

(See presenter index on pages 47 - 61)

SESSION V: 2:30 – 3:15 P.M.

Bystrom

SESSION MODERATOR: Jacob Bruggeman

Mary Owen, Microbiology and Medical Laboratory Science Major

ADVISOR(S): Eileen Bridge, Department of Microbiology
Gabrielle Lopez, Department of Microbiology
Investigating the Adenoviral Downregulation of SIRT7 and Its Effect on Viral Replication

Audrey Lipps, Individualized Studies and Women's, Gender, and Sexuality Studies Major

ADVISOR(S): Jacqueline Daugherty, Western Program
Native Hawai'ian Participation in Agriculture

Claire Vaughn, Anthropology Major

ADVISOR(S): James Bielo, Department of Anthropology
Mopping Space and Place in Religious Tourism

Caroline Scott

SESSION MODERATOR: Brenda Tyrrell

Jason Flint, Medical Laboratory Science and Biology Major

ADVISOR(S): Katia Del Rio-Tsonis, Department of Biology
Tracy Haynes, Department of Biology
Tianlin Lu, Department of Biology
Establishing the Axolotl as a Model Organism for the Study of Retinal Tissue Regeneration

Nachiket Potineni, Microbiology Major

ADVISOR(S): Katia Del Rio-Tsonis, Department of Biology
Zeyu Han, Department of Biology
CRISPR-Cas9 Mediated DNMT3a Knockout Induces Embryonic Chick Eye Altered Morphogenesis

Sarah Kosse, Biology and Premedical Studies Major

ADVISOR(S): Katia Del Rio-Tsonis, Department of Biology
Jared Tangeman, Department of Biology
Analysis of DNA Methylation during RPE to Retina Reprogramming

Anna Symmes

SESSION MODERATOR: Dan Prior

Angelina Klucznik, Social Justice Studies and Public Administration Major

ADVISOR(S): Kristen Budd, Department of Sociology and Gerontology
Fugitives, Warrants, and Extradition: Gauging Public Perceptions

Weihao Lu, Linguistics Major

ADVISOR(S): Ryan Gunderson, Department of Sociology and Gerontology
Relationship between Grammar Teaching Method and Handedness

Adam Cloch, History Major

ADVISOR(S): Erik Jensen, Department of History
Analyzing State Department Policy in Regards to Jewish Immigration from Germany, 1933-1941

Oral Presentation Schedule

(See presenter index on pages 47 - 61)

SESSION VI: 3:30 – 4:15 P.M.

Bystrom

SESSION MODERATOR: Preston Carter

George Gruenhagen, Bioengineering Major

Chris Meyer, Bioengineering Major

ADVISOR(S): Richard Moore, Department of Biology
Analysis of MITE Transposition and Amplification

Carter McMaster, Biological Physics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics
Jijun Chen, Department of Department of Physics
Time-resolved Diffuse Reflectance Spectroscopy

Adam Eggert, Biological Physics Major

ADVISOR(S): Karthik Vishwanath, Department of Physics
Diffuse Reflectance Spectroscopy of a Blanch Response in Healthy Tissue

Caroline Scott

SESSION MODERATOR: Logan Smith

Pierce Kaufman, Finance Major

Cam Pirochta, Marketing and Finance Major

Alex Kenkel, Accounting Major

ADVISOR(S): Megan Gerhardt, Department of Management
Measuring Correlation between Student Satisfaction, GPA, and Selected Personality Traits in College Students

Keara Sonntag, Accountancy and Spanish Major

Ann Nguyen, Finance Major

Helen Zheng, Accountancy and Business Analytics Major

Advisor(s): Megan Gerhardt, Department of Management
The Relationship between Major Choice and Nationality

Rachel Wydra, History Major

ADVISOR(S): Elena Jackson Albarrán, Department of History
Ticas Take Charge: Women and Activism in Costa Rica, 1900-1949

Anna Symmes

SESSION MODERATOR: Masnoon Majeed

Taylor Hicks, Social Justice Studies Major

ADVISOR(S): Tani Sebro, Department of Global & Intercultural Studies

Cuisine and Culture: An Inside Look into the Culture of Miami University Dining Staff

Courtney Madl, International Studies and Italian Studies Major

ADVISOR(S): Tani Sebro, Department of Anthropology
ACE-ing the Miami "Community": An Exploration through the Chinese International Student Population at Miami University

Natalie Mullen, International Studies Major

ADVISOR(S): Tani Sebro, Department of Global & Intercultural Studies
Seeking Refuge through Art

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

SHRIVER LOBBY

(See presenter index on pages 47 - 61)

AL01 Mitchell Singstock, Anthropology and
Neuroscience Major

Advisor(s): Cameron Hay-Rollins, Department
of Anthropology

Transcriptional Analysis of Chronic Psoriatic Arthritis

AL02 Danielle Heil, Anthropology and Linguistics Major

Advisor(s): Leighton Peterson, Department
of Anthropology

*"A Hole on the Field": Performance, Wellness, and
Pain in a Competitive Drum and Bugle Corps*

AL03 Benjamin Shaffer, Computer Engineering Major

Nicholas Wolford, Electrical Engineering and
Computer Engineering Major

Advisor(s): Mark Scott, Department of Electrical and
Computer Engineering

*Isolated DC-DC Converter with Bidirectional Current
for Interfacing the Voltage Busses of the Dragon
Capsule and ISS*

AL04 Morgan Nguyen, Biology Major

Advisor(s): J. Scott Brown, Department of Sociology
and Gerontology

Cassandra Hua, Department of Sociology
and Gerontology

Na Sun, Western Program

*The Relationship between Healthcare Infrastructure
and Diabetes Prevalence*

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- A01 Kathryn Kissner**, Biology and Premedical Studies Major
Advisor(s): Michelle Boone, Department of Biology
Jessica McQuigg, Department of Biology
Examining the Interactive Effects of an Emerging Pathogen and Prey Refugia on Amphibian Feeding Behavior
- A02 Olivia Wetsch**, Biology and Environmental Science Major
Advisor(s): Michelle Boone, Department of Biology
Tyler Hoskins, Department of Biology
*Parasite Infections and Co-infections in Midwestern Cricket Frogs (*Acris blanchardi*) and Their Relationship to Agricultural Land Use*
- A03 Samantha Gawrys**, Biology and Spanish Major
Benjamin Gilbert, Biology Major
Advisor(s): Michael Robinson, Department of Biology
Peipei Qi, Department of Biology
Functional Studies of the Phosphorylation Sites in the Transactivation Domain of Pax6 during Eye Development
- A04 Liam Deems**, Biology and Environmental Science Major
Advisor(s): Michael Robinson, Department of Biology
Lam Phuong, Department of Biology
An In-vitro Approach to Promote Neural Retina Differentiation from Primary Mouse Retinal Pigmented Epithelium
- A05 Cameron Gardner**, Biology and Premedical Studies Major
Advisor(s): Paul James, Department of Biology
Joe Powers, Department of Biology
Developing a Method to Measure Na⁺/H⁺ Exchanger Activity Using pH-sensitive Green Fluorescent Protein (pHluorin2)
- A06 Jessica Joyce**, Biology Major
Advisor(s): Paul James, Department of Biology
Joe Powers, Department of Biology
Analyzing the Role of the NHE5 Protein in Sperm Physiology and Male Fertility
- A07 Grant VanNess**, Biology Major
Advisor(s): Paul James, Department of Biology
Joe Powers, Department of Biology
Is (Sodium) Na⁺/Hydrogen (H⁺) Exchanger Isoform 11 Involved in Male Reproduction?
- A08 Ashley Mickens**, Environmental Earth Science and Sustainability Major
Advisor(s): Michael Vanni, Department of Biology
Tanner Williamson, Department of Biology
Changes in Phytoplankton Community Composition following Simulated Storm Events
- A09 Thomas Radford**, Biology and Life Science Education Major
Advisor(s): Michael Vanni, Department of Biology
Tanner Williamson, Department of Biology
Relating Carbon Dioxide and Methane Fluxes at a Hypereutrophic Reservoir
- A10 Ross Rybakowicz**, Biology Major
Advisor(s): Kathleen Killian, Department of Biology
Mollie Sorrell, Department of Biology
*Examining the Role of Junctional Communication within the Adult Neurogenic Stem Cell Niche of the Cricket, *Acheta domesticus**
- A11 Evelyn Gulla**, Biology Major
Meeta Bhardwaj, Biology Major
Advisor(s): Haifei Shi, Department of Biology
Kristen Krolick, Department of Biology
Sex Differences in the Hypothalamic-pituitary-adrenal (HPA) Axis and Metabolic Responses to Early Life Stress in Rats
- A12 Daniel Pfeil**, Mechanical Engineering Major
Advisor(s): Paul Harding, Department of Biology
Sean Taylor, Department of Biology
HB-EGF and ADAM 12S Co-expression of Mouse Fibroblasts Results in Increased Metabolic Activity

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- A13** **Ciara Childers**, Geology and Environmental Earth Science Major
David Beka Binyam, Geology and Environmental Earth Science and Geographic Information Science Major
Sarah Emrick, Geology and Environmental Earth Science and Biology Major
Advisor(s): Claire McLeod, Department of Geology & Environmental Earth Science
Unraveling the Magmatic Processes beneath Arc Volcanoes: The Role of Amphibole and Feldspar
- A14** **Kyle Weaver**, Chemical Engineering and Biochemistry Major
Adam Coon, Mechanical Engineering Major
Advisor(s): Jeong-Hoi Koo, Department of Mechanical and Manufacturing Engineering
Development of a Variable Stiffness Synthetic Skin Utilizing Magnetically Tunable Materials
- A15** **Elizabeth Angi-O'Brien**, Geology Major
Advisor(s): Claire McLeod, Department of Geology & Environmental Earth Science
Maureen Haley, Department of Geology & Environmental Earth Science
Magma Mingling: Unravelling Granite Crystallization One Crystal at a Time
- A16** **Erin Graves**, Geology and Environmental Earth Science Major
Advisor(s): Carrie Tyler, Department of Geology & Environmental Earth Science
Characterizing Traces Produced by Biotic Interactions between Fossil Echinoids and Their Predators and Parasites Using Scanning Electron Microscopy
- A17** **Savannah Rice**, Geology
Advisor(s): Brian Currie, Department of Geology & Environmental Earth Science
Patrick Cullen, Department of Geology & Environmental Earth Science
Creating an Initial Exploration Framework for the Berea Sandstone in the Appalachian Basin

- A18** **Brittany Estridge**, Biology Major
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry
Seed Germination of Non-invasive Wetland Species
- A19** **Ashleigh Kmentt**, Biochemistry and Premedical Studies Major
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry
Shenyuan Xu, Department of Chemistry and Biochemistry
Uncovering the Rotavirus Infection Pathway via P[19] VP8 Protein for a Better Vaccine*
- A20** **Lauren Campbell**, Microbiology Major
Martha Carter, Microbiology Major
Bridget Redmond, Microbiology Major
Lauren Eggleton, Microbiology Major
Coleton Towles, Biochemistry Major
Avan Colah, Biology and Premedical Studies Major
Advisor(s): Marcia Lee, Department of Microbiology
Richard Bretz, Department of Chemistry and Biochemistry
*Influence of *Aloe arborescens* on Morphogenesis of *Candida albicans*, a Common Opportunistic Burn Wound Infectious Agent*
- A21** **Coleton Towles**, Biochemistry and Premedical Studies Major
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry
Marcia Lee, Department of Microbiology
*The Separation and Determination of Anti-fungal Compounds from *Aloe Arborescens* Leaf Gel*
- A22** **Colleen Jaycox**, Biochemistry and Premedical Studies Major
Susanna D'Silva, Biochemistry Major
Advisor(s): Gary Lorigan, Department of Chemistry and Biochemistry
Gunjan Dixit, Department of Chemistry and Biochemistry
Purification and Preliminary Characterization of Human KCNQ1 Ion Channel

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- A23 Ben Harding**, Biochemistry and Premedical Studies Major
Ryan Mesmer, Biochemistry Major
Advisor(s): Gary Lorigan, Department of Chemistry and Biochemistry
Gunjan Dixit, Department of Chemistry and Biochemistry
Study of the Structure and Topology of the Voltage Sensor Domain (Q1-VSD) of Human KCNQ1 Protein Using EPR Spectroscopy
- A24 Warren Reynolds**, Biochemistry and Premedical Studies Major
Advisor(s): Gary Lorigan, Department of Chemistry and Biochemistry
Heart Disease Prevention: Protein Structural Analysis of Human Potassium Channel KCNQ1 C-Terminus with EPR Spectroscopy
- A25 Daniel Cirkovic**, Mathematics and Statistics Major
Nicholas Spanier, Mathematics and Statistics Major
Advisor(s): Tatjana Miljkovic, Department of Statistics
A Spatial Modeling of Life and Annuity Premiums across the United States
- A26 Benjamin Schweitzer**, Mathematics and Statistics Major
Advisor(s): Thomas Fisher, Department of Statistics
An Analysis on the Accuracy of Weather Forecasts
- A27 Jordan Schneider**, Public Health Major
Advisor(s): John Bailer, Department of Statistics
Defining Poverty Indices and Examining Poverty in South America
- A28 Rachel Serafin**, Biochemistry Major
Advisor(s): Gary Lorigan, Department of Chemistry and Biochemistry
Daniel Drew, Department of Chemistry and Biochemistry
Probing the Structure and Dynamics of the S21 Pinholin Protein Using Electron Paramagnetic Resonance Spectroscopy
- A29 Dillon Frank**, Life Science Chemistry Education Major
Nicholas Spurgus, Biology and Premedical Studies Major
Advisor(s): Ellen Yeziarski, Department of Chemistry and Biochemistry
Justin Pratt, Department of Chemistry and Biochemistry
Chemistry and the Ethic of Caring: How Professional Development Can Shape Teachers' Attitudes and Beliefs about Students
- A30 Valeria Mokrenko**, Computer Science Major
Advisor(s): Valerie Cross, Department of Computer Science and Software Engineering
The Comparison of Fuzzy Approximate Reasoning Methods
- A31 Grace Leonard**, Media and Culture and Sport Leadership and Management Major
Advisor(s): Hongmei Li, Department of Media Journalism and Film
An Analysis of Dunkin' Donuts Advertising Over 6 Decades
- A32 Nan Luo**, Strategic Communication and Interactive Media Studies Major
Advisor(s): Hongmei Li, Department of Media Journalism and Film
Durex Advertising: How to Talk about Sex Without Talking about Sex
- A33 Nicole LaBelle**, Information Systems and Public Health Major
Kevin Myers, Finance and Accountancy Major
Mariana Galiga, Finance Major
Advisor(s): Megan Gerhardt, Department of Management
Exploring the Correlation between Birth Order, Personality, and Perceived Success
- A34 Melanie Fernandez**, Bioengineering Major
Niya Cunningham, Black World Studies Major
Terrence Fully, University Studies Major
Advisor(s): Gwendolyn Etter-Lewis, Department of Global & Intercultural Studies
Chasity Dittmann, Department of Educational Leadership
Understanding Student Resilience: A Strength-Based Approach to College Success

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

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- | | |
|--|--|
| <p>A35 Caroline Bastian, Art and Architecture History and Arts Management Major
Austin Hogans, Architecture Major
Davaughn Golden, Political Science Major
Bree Cole, Studio Art Major
Advisor(s): Brenda Dales, Department of Teacher Education
Jason Shaiman, Department of Art
<i>African-American Identity through Collage Illustration</i></p> <p>A36 Kelsi Sievering, Comparative Religion and Political Science Major
Advisor(s): Nathan French, Department of Comparative Religion
<i>An Ideal Jihad? A Critical Reception of Anwar Awlaqi's Battle of Hearts and Minds</i></p> <p>A37 Sarah Kammer, Comparative Religion and Anthropology Major
Advisor(s): James Hanges, Department of Comparative Religion
<i>Why Delphi? Religious Authority at the Site of the Oracle of Apollo</i></p> <p>A38 Jack Henne, German and Economics Major
Advisor(s): Mila Ganeva, Department of German
<i>Beyond the Marshall Plan: American Influences on Postwar Cultures in East and West Germany</i></p> <p>A39 Abigail Culpepper, French and Linguistics Major
Advisor(s): Larysa Bobrova, Department of English
<i>Metaphors We Love By: A Cognitive Linguistic Analysis of Conceptual Metaphors of Love in Metropolitan French and American English</i></p> <p>A40 Katherine Graham, Gerontology and Women's, Gender, and Sexuality Studies Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
<i>Living an Age-friendly Life: A Personal Guide</i></p> <p>A41 Cassandra Woodford, Psychology and Premedical Studies Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
Senjooti Roy, Department of Sociology and Gerontology
<i>Respect and Social Inclusion in Oxford</i></p> | <p>A42 Dana Johnson, Speech Pathology & Audiology and Gerontology Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
<i>TimeSlips As a Tool for Community Engagement: A Thematic Analysis of Facilitators' Experiences</i></p> <p>A43 Christopher Schlegel, Geology Major
Jared Brum, Geology Major
Advisor(s): Mark Krekeler, Department of Geology & Environmental Earth Science
<i>A Remote Sensing Reflective Spectroscopy Investigation of Jet Fuel-A: Progress in Monitoring Petroleum Spills and Searching for Downed Aircraft</i></p> <p>A44 Olivia Young, Biology Major
Emily Ashner, Psychology Major
Callihan Clayton, Biology Major
Bradley Borosky, Biology Major
Advisor(s): Joyce Fernandes, Department of Biology
<i>FYREflies: An Overview of BIO 103</i></p> <p>A45 Michael Molchan, Finance Major
Advisor(s): Monica Adkins, Student Success Center
<i>Diversity Children's E-Book</i></p> <p>A46 Michael Smith, Media and Culture and Theatre Major
Advisor(s): Monica Adkins, Student Success Center
<i>Children's Diversity EBook</i></p> <p>A47 Austin Waterwall, Economics and Spanish Major
Advisor(s): Monica Adkins, Student Success Center
<i>Undergraduate Research: Displaying Diversity through Children's Literature</i></p> <p>A48 Joy Whitman, Early Childhood Education Major
Advisor(s): Monica Adkins, Student Success Center
<i>Diversity Children's Ebook</i></p> <p>A49 Briana Ousley, Media and Culture and Interactive Media Studies Major
Advisor(s): Monica Adkins, Student Success Center
<i>Diversity E-Book</i></p> <p>A50 Megan Freshkorn, Nutrition Major
Christina Gadomski, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
<i>Effect of Pureed Vegetables in Pasta Dough</i></p> |
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Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- A51** **Rebecca Bartram**, Nutrition and Biology Major
Aisha Fichtner, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
Fat Substitutes in Pancakes
- A53** **Caroline O'Connor**, Nutrition and Kinesiology Major
Tracey McCudden, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effects of Adding a Full Serving of Protein to a Single Serving of Coffee Creamer
- A54** **Alexa Ross**, Nutrition and Kinesiology Major
Arden McMath, Kinesiology and Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
Vegetable Cookies: The Effects of Various Vegetables Added to Oat-Based Cookies
- A55** **Katharine Fan**, Nutrition and Kinesiology Major
Grace Mignery, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effect of Texture and Flavor with Varied Protein Sources in Baked Protein Bars
- A56** **Elizabeth Miehl**, Nutrition and Public Health Major
Sarah Pennington, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effect of Fat in Macaroni and Cheese
- A57** **Megan Edison**, Nutrition Major
Lauren Rosenston, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effects of Various Amounts of Protein Powder on Dark Chocolate
- A58** **Kelsie Newton**, Nutrition and Kinesiology Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effects of Lipid Variation on the Texture and Taste of Nutella
- A59** **Staci Abbott**, Nutrition Major
Jennifer White, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
Lowering Carbohydrate Intake by Substituting Cauliflower for Pasta in Mac n Cheese
- A60** **Rachel Mason**, Nutrition Major
Emel Ozdemir, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
Reducing Sugar in Chocolate
- A61** **Laura Dziubyk**, Nutrition Major
Katelyn Jensen, Nutrition and Public Health Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
Plant-Based and Refined Sugar-Free Ensure Replica
- A62** **Gillian Schultz**, Nutrition and Public Health Major
Madelynn Trummel, Nutrition Major
Advisor(s): Rebecca Galvin, Department of Kinesiology and Health
The Effects of Dehydration in Place of Freeze Drying on Transportable Backpacking Meals
- A63** **Rachel Silber**, Public Health Major
Advisor(s): Mark Walsh, Department of Kinesiology and Health
Paul Flaspohler, Department of Psychology
Nutritional Deficiencies in High-Altitude Nepalese Villages: a Global Health Perspective
- A64** **Allie Frederick**, Kinesiology Major
Taylor Frazee, Psychology Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
The Social Norms of Drinking and Blacking Out
- A65** **Jourdan Greenlee**, Kinesiology and Nutrition Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Relationship Partner's Descriptive Drinking Norms: If I Think They Drink, I Won't Date Them

Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

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|---|---|
| <p>A66 Jeff McCain, Chemical Engineering Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
<i>Alcohol Consumption Differences between Marching Band and Non-marching Band Participants</i></p> <p>A67 Sarah Wyand, Nutrition and Premedical Studies Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
<i>How Greek Affiliation Plays a Role in Emotional Intelligence</i></p> <p>A68 Andrea Lee, Latin American, Latino/a, and Caribbean Studies and East Asian Languages and Cultures Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
<i>Analyzing East Asian International Student Perceptions and Usage of Marijuana and Changes in Alcohol Consumption</i></p> <p>A69 Hannah Caudill, Psychology and Public Health Major
Clare Cartheuser, Public Health and Psychology Major
Grace Sonderman, Nutrition and Public Health Major
Advisor(s): Valerie Ubbes, Department of Kinesiology and Health
<i>Visual Analysis of Cultural Inclusiveness in Oral Health Literacy</i></p> <p>A70 Amy Skeels, Kinesiology and Nutrition Major
Abby Garbe, Biology and Premedical Studies Major
Rebecca Bartram, Nutrition and Biology Major
Denise Chan, Nutrition Major
Aisha Fichtner, Nutrition Major
Advisor(s): Beth Miller, Department of Kinesiology and Health
<i>Outcomes of a Garden-based Pilot Study with Children Living in Low-Income Housing Complex</i></p> <p>A71 Joseph Canter, Accountancy Major
Trevor Sass, Psychology Major
Rachel Salerno, Psychology and Political Science Major
Advisor(s): Amy Summerville, Department of Psychology
Brielle Johnson, Department of Psychology
Woo Kim, Department of Teacher Education
<i>Experiencing Regret and Moral Decision Making</i></p> | <p>A72 Jack Frankel, Psychology and Premedical Studies Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
<i>The Effects of Compulsive Drinking on Nucleus Accumbens Inhibition</i></p> <p>A73 Joshua Setters, Biochemistry Major
Julia Hoffman, Psychology Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
<i>Exploring the Effects of Alcohol on Mice in Operant Conditioning</i></p> <p>A74 Olivia Ramsey, Biochemistry and Premedical Studies Major
Kristen Schuh, Psychology and Neuroscience Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
<i>Role of Medial Orbitofrontal Cortex in Resistance to Punishment</i></p> <p>A75 Stacey Henry, Psychology Major
Advisor(s): Camilla McMahon, Department of Psychology
<i>The Effects of Autism Spectrum Disorder Symptomology and Diagnostic Disclosure on the Perception of Job Candidates</i></p> <p>A76 Nick Fendinger, Psychology Major
Advisor(s): Kurt Hugenberg, Department of Psychology
Paige Lloyd, Department of Psychology
Christina Fitzpatrick, Department of Teacher Education
<i>The Effects of Status on Selective Attention</i></p> <p>A77 Rhianna Wessels, Psychology Major
Samantha Asmah, Biology Major
Emena Belt, Psychology Major
Samuel-R.G. Oteng, Biology Major
Advisor(s): Jennifer Quinn, Department of Psychology
Danielle Tapp, Department of Psychology
Tiffany Campbell, Department of Teacher Education
<i>Impact of Early Life Stress on Social Interaction, Anxiety, and Stress-Enhanced Fear Learning</i></p> |
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Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

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| <p>A78 Jennifer Dolecki, Psychology Major
Samantha Miller, Psychology Major
Mackenzie Sigman, Biology Major
Kelly Eyler, Psychology Major
Advisor(s): Jennifer Quinn, Department of Psychology
Danielle Tapp, Department of Psychology
<i>The Effects of Chronic and Acute Early Life Stress on Behavioral Flexibility and Compulsivity</i></p> <p>A79 Sydney Thompson, Psychology and Premedical Studies Major
Abigail Miller, Psychology and Neuroscience Major
Jake Hallion, Psychology and Premedical Studies Major
Brendon McLellan, Psychology and Family Science and Social Studies Major
Advisor(s): Jennifer Quinn, Department of Psychology
Danielle Tapp, Department of Psychology
<i>The Effects of Early Life Stress and Maternal Buffering on Glucocorticoid Receptor Expression in the BNST</i></p> <p>A80 James Fisher, Nursing Major
Natalie Kash, Nursing Major
Katie Shorten, Nursing Major
Jenna Pfaff, Nursing Major
Abigail Bales, Nursing Major
Christuean (Crystal) Colson, Nursing Major
Advisor(s): Eyad Musallam, Department of Nursing
<i>Yoga & Pregnancy</i></p> <p>A85 Saagar Dulani, Economics (Quantitative) Major
Hannah Baney, Economics and Mathematics Major
Hoang Nguyen, Economics Major
Yifei Yan, Business Economics Major
Advisor(s): Deborah Fletcher, Department of Economics
<i>Education Job Match; Update</i></p> <p>A86 Allison Dougherty, Psychology Major
Advisor(s): Barbara Oswald, Department of Social and Behavioral Sciences
<i>Fidgeting and Attention in the Classroom</i></p> | <p>A91 William Carson, Chemistry Major
Sarah Reitz, Psychology and Neuroscience Major
Peter Parras, University Studies Major
Jeff Rhoades, Biology and Environmental Science (co-major) Major
Advisor(s): Joyce Fernandes, Department of Biology
<i>Communication Is Important, Cells Do It Too: Cellular Signaling in Drosophila melanogaster</i></p> <p>A92 Danielle Allaire, Biology and Premedical Studies Major
Jessica Packett, Kinesiology Major
Christian Carrier, Biology and Premedical Studies Major
Sam Lewis, Biology and Premedical Studies Major
Justin Crookes, Psychology and Premedical Studies Major
Advisor(s): Joyce Fernandes, Department of Biology
<i>How Fruit Flies Get a Twelve Pack: Genetic Manipulation of the FGF Signaling Pathway in Drosophila</i></p> <p>A94 Jacob Schlichter, Zoology Major
Brendan Chetty, Biology Major
Susanna D'Silva, Biochemistry Major
Ian Kausch, Microbiology Major
Spencer Kluth, Biology Major
Madelyn Myers, Microbiology Major
Garrett Schilling, Microbiology Major
Allison Biedenharn, Microbiology Major
Amanda Burgess, Microbiology Major
Advisor(s): Kelly Abshire, Department of Microbiology
Luis Actis, Department of Microbiology
Mitchell Balish, Department of Microbiology
Elizabeth Lucas, Department of Microbiology
Mariah Squire, Department of Physics
<i>Magnar, the Cluster A Cowboy: A New Bacteriophage from Microbiology 223/224</i></p> <p>A95 Hannah Robertson, Biology and English Creative Writing Major
Advisor(s): Andor Kiss, Department of Microbiology
<i>Molecular Characterization of the Eye Lens Gamma Crystallins of the Wood Frog Rana Sylvatica</i></p> |
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Poster Presentation Listing by Poster Number

SESSION A: 10:00 – 11:30 A.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

A96 Nicole Rosiello, Spanish and Anthropology Major

Advisor(s): Lisa Weems, Department of
Educational Leadership

Spanish-Only Restaurant Workers' Attitudes

Accessing Healthcare

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

SHRIVER LOBBY

(See presenter index on pages 47 - 61)

B 01L Sarah Kammer, Anthropology and Comparative

Religion Major

Advisor(s): Jeb Card, Department of Anthropology

Andor Kiss, Department of Biology

Zooarchaeological Methods: Fish Teeth

Identification Project

B 02L Rachel Serafin, Biochemistry Major

Advisor(s): Cameron Hay-Rollins, Department of
Anthropology

Paul Flaspohler, Department of Psychology

Comparison of Current Remediation Projects

*Intended to Decrease Environmental Lead Exposure in
Kabwe, Zambia*

B 03L Amber Henderson, Marketing Major

Advisor(s): Cameron Hay-Rollins, Department
of Anthropology

Paul Flaspohler, Department of Psychology

*A Global Health Perspective on the Effectiveness of a
Local Food Pantry's Supply Chain and Its Impact on
the Community: GHS 401 Immersion Experience*

B 04L Andrew Racadio, Biology Major

Advisor(s): Cameron Hay-Rollins, Department
of Anthropology

Paul Flaspohler, Department of Psychology

*Global Health on a Local Level: Food as Medicine in
Pediatric Primary Care*

B 05L Hannah Caudill, Psychology and Public Health Major

Madison Hayes, Psychology and English
Literature Major

Sydney Starkweather, Psychology Major

Mayah Haidar, Psychology and French Major

Advisor(s): Paul Flaspohler, Department
of Psychology

Jack Baker, Department of Psychology

Greek Step Up Evaluation

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- B01 Ben Arias**, Zoology Major
Kali McKnight, Biology Major
Advisor(s): Susan Hoffman, Department of Biology
Jeremy Papuga, Department of Biology
The Effects of Natural Bottlenecking on the Genetic Diversity of an Isolated Population of Peromyscus maniculatus gracilis
- B02 Aonesti Williams**, Biology and Premedical Studies Major
Nicholas Shermis, Zoology Major
Advisor(s): Susan Hoffman, Department of Biology
Jeremy Papuga, Department of Biology
The Effects of Natural Bottlenecking on the Genetic Diversity of Peromyscus leucopus in Michigan's Lower Peninsula
- B03 Kathryn Riccitelli**, Zoology Major
Carly Zeis, Zoology and Computer Science Major
Advisor(s): Susan Hoffman, Department of Biology
Jeremy Papuga, Department of Biology
Gene Flow and Metapopulation Dynamics of the Peromyscus maniculatus gracilis in the Lower Peninsula of Michigan
- B04 Connor Huelsman**, Biology Major
Gil Phillips, Biology Major
Advisor(s): Susan Hoffman, Department of Biology
Changes in Genetic Variability of Peromyscus leucopus and Peromyscus maniculatus in Northern Michigan over a Decade
- B06 John Karikas**, Biology and Premedical Studies Major
Ashley Laurent, Biology and Premedical Studies Major
Advisor(s): Dawn Blitz, Department of Biology
Hormone Receptor Distribution in a Rhythmic Motor System
- B07 Emily Wyatt**, Biology Major
Austin Schafer, Biology and Premedical Studies Major
Advisor(s): Kathleen Killian, Department of Biology
Mollie Sorrell, Department of Biology
Effects of a Fragile X Knockdown in Adult and Juvenile RNAi Models of Acheta domesticus
- B08 Anastasia Babcock**, Biology and Biochemistry Major
Advisor(s): Kathleen Killian, Department of Biology
A Tale of Two Phenoloxidases: The Effect of PO Enzyme on Immunity and Behavior
- B09 Jana Cable**, Microbiology Major
Advisor(s): Natosha Finley, Department of Microbiology
Structural Characteristics of Myosin Binding Protein C Determine Calmodulin Interactions
- B10 Justin Poth**, Biochemistry and Premedical Studies Major
Arete Kaffenes, Biology Major
Advisor(s): Michael Robinson, Department of Biology
Brad Wagner, Department of Biology
Phuong Lam, Department of Biology
A CRISPR/Cas9 Approach to Gene Regulation in Mouse Kidney Cells
- B11 Anna Porter**, Biology and Premedical Studies Major
Advisor(s): Michael Robinson, Department of Biology
Phuong Lam, Department of Biology
An Ex-Vivo Approach to Induce Neural Retina Differentiation from Primary Mouse Retina Pigmented Epithelium
- B12 Silvi Bajrami**, Biology and Premedical Studies Major
Advisor(s): Michael Robinson, Department of Biology
Investigating the Role of PAX6 in Mammalian Retina Regeneration
- B13 Katrina Culbertson**, Zoology and Environmental Science Major
Megan Archdeacon, Zoology Major
Advisor(s): Ann Rypstra, Department of Biology
Jake Godfrey, Department of Biology
Effects of Glyphosate and Body Conditions on Courtship and Cannibalism in an Agrobiont Wolf Spider
- B14 Lindy Latham**, Biology Major
Advisor(s): Ann Rypstra, Department of Biology
Altered Behavior in Aphids in Response to Chemical Cues from a Predator

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

B15 Victoria Borland, Biochemistry and Premedical Studies Major

Advisor(s): Ellen Yezierski, Department of Chemistry and Biochemistry

Patrick Emery, Department of Chemistry and Biochemistry

Adam Schafer, Department of Chemistry and Biochemistry

Protons, Neutrons, and Electrons Oh My!: Investigating the Development of Atomic Structure Concepts, Using Guided Inquiry

B16 Brianna Minshall, Psychology and Neuroscience Major

Advisor(s): Ellen Yezierski, Department of Chemistry and Biochemistry

Data-Driven Curriculum Reform: Energy Changes during Bond Making and Breaking

B17 Katelyn Ferguson, Chemistry and Premedical Studies Major

Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry

Maia Popova, Department of Chemistry and Biochemistry

Symbolic and Space-filling Representations of a Combustion Reaction: General Chemistry Students' Reasoning about Bonding

B18 Breaysha Helm, Early Childhood Education Major

Ethan Clearfield, American Studies Major

Sidney Edwards, Studio Art Major

Advisor(s): Brenda Dales, Department of Teacher Education

Jason Shaiman, Department of Art

LGBTQ+ Community in African-American Children's Picture Books

B19 Aaron White, Sport Leadership and Management Major

LaShawn Huey, Political Science Major

Abbie Kotik, Early Childhood Education Major

Advisor(s): Brenda Dales, Department of Teacher Education

Jason Shaiman, Department of Art

African-American Picture Books as Lens for Social Justice

B20 Alex Mazursky, Mechanical Engineering and Energy Major

Sae Hyun Sone, Mechanical Engineering Major

Advisor(s): Jeong-Hoi Koo, Department of Mechanical and Manufacturing Engineering

Induction Heating of Thin Sheet Materials: Multiphysics Modeling and Simulation

B21 Nathaniel Anderson, Engineering Technology Major

Advisor(s): Banafsheh Seyed-Aghazadeh, Department of Engineering Technology

Vortex-Induced Vibration

B22 Chong Kai Wong, Biological Physics Major

Advisor(s): Paul Urayama, Department of Physics

Using Spectral Phasor Analysis of UV-excited Autofluorescence to Reveal Small Differences between Chemically-induced Mitochondrial Responses

B23 Matthew Harris, Biology and Premedical Studies Major

Advisor(s): Shenyuan Xu, Department of Chemistry and Biochemistry

Determining Structural Basis of Rotavirus Strains P[6] and P[8] VP8 Surface Protein Interactions with Host-Cell Glycans

B24 Sophia Rafferty, Biochemistry and Premedical Studies Major

Advisor(s): Gary Lorigan, Department of Chemistry and Biochemistry

Utilizing Electron Spin Echo Envelope Modulation to Distinguish between the Local Secondary Structures of an α -Helix and an Amphipathic 3-10-Helical Peptide

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

B25 Stephen Knitter, Chemical Engineering Major
Dylan Roskin, Chemical and Paper Engineering Major
Finn McCullough, Chemical and Paper Engineering Major
Torey Loeb, Chemical and Paper Engineering Major
Kaleb Coonfare, Chemical and Paper Engineering Major
Matthew Meyer, Chemical and Paper Engineering Major

Advisor(s): Catherine Almquist, Department of Chemical Paper and Biomedical Engineering
Synthesis and Application of Aerogels in Insulation Tiles for Improved Combustion Efficiency in Cookstoves

B26 Christian Horne, Chemical Engineering Major
Alex Lebedev, Chemical and Paper Engineering and Premedical Studies Major
Luke Marot, Chemical and Paper Engineering Major
Kristin Campbell, Chemical and Paper Engineering Major
Jessica Cleland, Chemical and Paper Engineering Major

Advisor(s): Catherine Almquist, Department of Chemical Paper and Biomedical Engineering
Design of Cookstoves for Improved Efficiency and Safety

B28 Yichao Cai, Chemistry Major
Advisor(s): Benjamin Gung, Department of Chemistry and Biochemistry
Ruoyu Ma, Department of Chemistry and Biochemistry
Synthesis of Enantioselectivity Gold Catalyst

B29 Brooke Buckingham, Biochemistry and Premedical Studies Major
Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry
Katie Eudy, Department of Chemistry and Biochemistry
Optimizing Arabidopsis thaliana Preparation for Efficient Fluorescence Microscopy

B30 Hehe Wang, Chemistry Major
Advisor(s): Scott Hartley, Department of Chemistry and Biochemistry
Isuru Jayalath, Department of Chemistry and Biochemistry
Lasith Kariyawasam, Department of Chemistry and Biochemistry
Learning to Control Molecular Geometry Changes in Organic Synthesis

B31 Garrett Reed, Biochemistry Major
Mychael Dopirak, Biochemistry and Premedical Studies Major
Advisor(s): David Tierney, Department of Chemistry and Biochemistry
Andrew Clarkson, Department of Chemistry and Biochemistry
Five-Coordinate Cobalt (II) Complex Synthesis Study

B32 Richard Killeen, Biochemistry and Premedical Studies Major
Advisor(s): Ann Hagerman, Department of Chemistry and Biochemistry
Evaluation of the Binding Complex of Epigallocatechin Gallate with Bovine Serum Albumin and Copper

B33 Haley Ferguson, Biochemistry and Premedical Studies Major
Advisor(s): Ann Hagerman, Department of Chemistry and Biochemistry
Xiaowei Sun, Department of Chemistry and Biochemistry
Effects of Fatty Acids and Green Tea EGCGg on Human Serum Protein

B34 Quinn Kistenfeger, Biochemistry and Premedical Studies Major
Advisor(s): Ann Hagerman, Department of Chemistry and Biochemistry
Why Does Acacia Plant Control Methane Production by Cattle?

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- B35 Andrew Katko**, Biochemistry and Premedical Studies Major
Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry
Alexander Bergstrom, Department of Chemistry and Biochemistry
Probing the Interaction of Aspergillomarasmine (AMA) with Metallo-beta-lactamases NDM-1, VIM-2, and IMP-7
- B36 Callie Miller**, Biochemistry and French Major
Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry
Alexander Bergstrom, Department of Chemistry and Biochemistry
Spectroscopic Studies of Metallo-b-Lactamases and Dipicolinic Acid Derivatives as Inhibitors
- B37 Delaney Clayton**, Biochemistry Major
Kelly Mason, Biochemistry Major
Advisor(s): Michael Crowder, Department of Chemistry and Biochemistry
Classification of the Biochemical and Biophysical Properties of New Delhi metallo- b-lactamase (NDM) variants 1 through 17
- B38 Julie Gravelle**, Chemistry Major
Advisor(s): Andre Sommer, Department of Chemistry and Biochemistry
Samar Elagamy, Department of Chemistry and Biochemistry
Observing Thin Films Smaller than the Believed Limit of Detection
- B39 Braegor Strickley**, Biology Major
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry
Uptake of Nitrate and Phosphate Ions by Native, Non-invasive Plant Species
- B40 Joseph Sparks**, History Major
Lydia Ryan, Biology Major
Baylen Thiery, Botany and Geology Major
Advisor(s): Mark Krekeler, Department of Geology & Environmental Earth Science
Reflective Spectroscopy of Animal Specimens for Remote Sensing Applications: Bears, Birds and Bones
- B41 Grant Abbott**, Geology Major
Advisor(s): Mark Krekeler, Department of Geology & Environmental Earth Science
Great Miami River Spectroscopy Studies
- B42 Erin Lary**, Geology Major
Advisor(s): Mark Krekeler, Department of Geology & Environmental Earth Science
Transmission Electron Microscopy Investigation of Mineralogical Composition of Olduvai's Locality 80 Core Samples
- B44 Mireille Fouh**, Environmental Earth Science Major
Robert Bussell, Geology Major
Advisor(s): Mark Krekeler, Department of Geology & Environmental Earth Science
Initial Investigations of Rare Earth Resources in Volcanic Materials in New Mexico: A Novel Approach
- B45 Savannah Boerger**, Zoology Major
Advisor(s): Jonathan Levy, Department of Geology & Environmental Earth Science
Paul Flaspohler, Department of Psychology
Fresh Moves: Utilizing a Converted City Bus to Mobilize Produce Access in Chicago Food Deserts
- B46 Sarah Martin**, Psychology Major
Advisor(s): Jonathan Levy, Department of Geology & Environmental Earth Science
Paul Flaspohler, Department of Psychology
Global Health Immersion in Nicaragua: The Effects of Climate Change on Small-Island Freshwater Systems
- B47 Samuel Smiley**, Chemistry and Geology Major
Advisor(s): John Rakovan, Department of Geology & Environmental Earth Science
David Tierney, Department of Chemistry and Biochemistry
The Use of NMR to Study the Intermolecular Changes of Decavanadates Over Time and in Solution
- B48 Rosamiel Ries**, Geology and Physics Major
Advisor(s): Michael Brudzinski, Department of Geology & Environmental Earth Science
An Evaluation of an Earthquake-rate-based Strategy for Identifying Cases of Hydraulic-fracturing-induced Seismicity in Oklahoma

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- B49 Joslyn Andrews**, Marketing and Economics Major
Caitlin Sifuentes, Management and Leadership Major
Advisor(s): Megan Gerhardt, Department of Management
Cooperative Businesses: The Challenges of Recruiting Millennial Talent
- B50 Sophia Pauken**, Anthropology and International Studies Major
Advisor(s): Tani Sebro, Department of Anthropology
Refugee Integration in Southwestern Ohio
- B51 Rachel Brand**, Anthropology Major
Advisor(s): John Schaefer, Department of Anthropology
Alaska Native Heritage and Education
- B52 Emma Brzezinski**, Anthropology and Biology Major
Nicole Schapker, Anthropology and Chemistry Major
Advisor(s): Linda Marchant, Department of Anthropology
Replication and Extension: Handedness in Termite Fishing among Gombe Chimpanzees
- B53 Hana Hall**, Political Science Major
Advisor(s): Abigail Matthews, Department of Political Science
Judicial Blue Slip Process and the Evolution of Senatorial Courtesy
- B54 Phoebe Cheney**, Kinesiology and Public Health Major
Zeqin He, Public Health and Economics Major
Kaylee Marihugh, Public Health and Nutrition Major
Hannah Scally, Public Health Major
Katlyn Whitaker, Public Health Major
Advisor(s): Valerie Ubbes, Department of Kinesiology and Health
Perceived Benefits of Labyrinth Types as Advocated by Public Health Professionals
- B55 Miranda Corpora**, Social Work Major
Advisor(s): Angela Curl, Department of Family Science and Social Work
Emotional Support Animals (ESA)
- B56 Sarah Jones**, Economics and Political Science Major
Michael Hong, Economics Major
Dewei Liu, Economics and Engineering Management Major
Advisor(s): Deborah Fletcher, Department of Economics
Grade Sensitivity and Attrition Rates in STEM
- B57 Lily Condron**, Business Economics and Finance Major
Maddy Heller, Business Economics and Interdisciplinary Business Management Major
Mira Patel, Economics and Political Science Major
Qi Zhou, Economics Major
Advisor(s): Deborah Fletcher, Department of Economics
Miami Greek Culture: Exploring the Causal Effects of Greek Affiliation on Academic Performance
- B58 Mengyu Yu**, Statistics Major
Samantha Thompson, Statistics Major
Mazie Krehbiel, Statistics Major
Advisor(s): Tatjana Miljkovic, Department of Statistics
Visualization of the Female Actuarial Research Community
- B59 Yuexi Wang**, Statistics Major
Advisor(s): Byran Smucker, Department of Statistics
Approximate Leveraging Methods to Select a Predictive Regression Model for Big Data
- B60 Alexis March**, Zoology Major
What's In a Name? - A Preliminary Study on Dog Breed Prejudice
- B61 Jacob Bishop**, Psychology Major
Devon Kappie, Psychology and Neuroscience Major
Abby Hart, Psychology Major
Advisor(s): Amy Summerville, Department of Psychology
Brielle Johnson, Department of Psychology
Woo Kim, Department of Teacher Education
Anticipated Regret in Moral Decision Making

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- B62 Kevin Summers**, Psychology and Premedical Studies Major
Advisor(s): Kurt Hugenberg, Department of Psychology
E. Paige Lloyd, Department of Psychology
Ouch? The Effects of Target Socioeconomic Status on Pain Detection
- B63 Jaylen Perkins**, Public Health and Premedical Studies Major
Advisor(s): Matthew McMurray, Department of Psychology
Danielle Tapp, Department of Psychology
Exploring Serotonin's Effects on Amphetamine's Pathways
- B64 Amber Simmons**, Psychology Major
Advisor(s): Matthew McMurray, Department of Psychology
Danielle Tapp, Department of Psychology
Shannon Thompson, Department of Teacher Education
The Impacts of Early Life Stressors on Alcohol Consumption in Adolescent Rats
- B65 Megan Ridder**, Psychology Major
Mackenzie Trevethan, Psychology Major
Ashley Ezpeleta, Psychology Major
Zach Capretta, Psychology Major
Grace Melanson, Psychology Major
Emily Ashner, Psychology Major
Advisor(s): Joseph Johnson, Department of Psychology
Mitchell Dandignac, Department of Psychology
The Role of Interoception in Stress and Decision Making
- B66 Carmen Stone**, Biology and Premedical Studies Major
Marie Yamada-Killilea, Psychology Major
Tara Verghis, Biology and Environmental Science Major
Advisor(s): Amanda Diekman, Department of Psychology
Tessa Benson-Greenwald, Department of Psychology
Mansi Joshi, Department of Teacher Education
Saving the World or Ruling It?: Affordances of Science Predict Attitudes toward Its Role in Policy
- B67 Brianne Safer**, Psychology Major
Advisor(s): Amanda Diekman, Department of Psychology
Melissa Fuesting, Department of Psychology
Proximal and Distal Communal Goal Pursuit within the Context of STEM
- B68 Nicholas Guiot**, Biology Major
Advisor(s): Ronald Cox, Department of Kinesiology and Health
Relationships between the Measures of Aerobic and Anaerobic Abilities for the Women's Field Hockey Team
- B69 Katherine Orr**, Public Health Major
Advisor(s): Cameron Hay-Rollins, Department of Anthropology
Paul Flaspohler, Department of Psychology
A Global Health Immersion: How Socioeconomic Status Impacts Early Childhood Education in Cape Town, South Africa
- B70 Kailey Kelliher**, Strategic Communication Major
Advisor(s): Stephen Siff, Department of Media Journalism and Film
Effectiveness of AlcoholEdu at Miami University
- B71 Jackie Zemper**, Psychology Major
Advisor(s): Stephen Siff, Department of Media Journalism and Film
'Breaking Bad' and the Portrayal of Drug Abuse and Addiction
- B72 Meghan Brandabur**, Russian, Eastern European, and Eurasian Studies and Strategic Communication Major
Advisor(s): Stephen Siff, Department of Media Journalism and Film
Drug and Alcohol Usage in the TV Show "Shameless"
- B73 Elisabeth Dodd**, Journalism and Sociology Major
Advisor(s): Stephen Siff, Department of Media Journalism and Film
Advertising Strategies for MadMen's Recreational Marijuana Since the January 1, 2018 Legalization in California

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

B74 Margaret Callaghan, Diplomacy and Global Politics and Journalism Major

Advisor(s): Stephen Siff, Department of Media Journalism and Film

Jefferson Airplane and Disney: How Pop Culture Impacted the War on Drugs in the 1970's

B75 Savannah Lang, Strategic Communication and English Professional Writing Major

Advisor(s): Stephen Siff, Department of Media Journalism and Film

AlcoholEdu and Its Impact on College Students

B76 Emily Wilson, Biology Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

Sexual Assault and Chinese International Students on a College Campus

B77 Jacqueline Ziegman, Kinesiology Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

Parental Bonding and Perceived Importance of Alcohol Predict Drinking in Domestic versus International Students

B78 Olivia Callahan, Kinesiology Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

Examining the Relationship Between Body Mass Index, Physical Activity and Drunkorexia

B79 Antonia Caba, Public Health Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

Sexual Openness and Menstrual Attitudes as Predictors of Hookup Behavior and Attitudes among Undergraduate Women

B80 Karlie Armstrong, Nursing Major

Makenzie Wayman, Nursing Major

Arden Dilbeck, Nursing Major

Julianna Spurlock, Nursing Major

Nathan Campbell, Nursing Major

Abbey Gilbert, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing

Bakri Balloon Effectiveness in Postpartum Hemorrhage

B82 Jeffery Bradley, Nursing Major

Andrew Huitger, Nursing Major

Emma Roberts, Nursing Major

Katie Spoletti, Nursing Major

Alexis Creona, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing

Taking the Pressure Off: The Effect of Mattress Type on Reduction of Pressure Ulcers

B84 Donna Holbrook, Nursing Major

Rebekah Smith, Nursing Major

Tristen Withrow, Nursing Major

Danielle Swartzel, Nursing Major

Kelly Robinson, Nursing Major

Betty Estes, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing

The Effectiveness of Mechanical Vs Manual CPR: an Evidence-based Project

B85 Stephanie Salyer, Nursing Major

Esperance Nyiranziza, Nursing Major

Cheyenne Brown, Nursing Major

Rosalinda Lopez, Nursing Major

Sierra Barnes, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing

The Sound of Music: How Music Helps Those with Mental Illness Cope

Poster Presentation Listing by Poster Number

SESSION B: 1:30 – 2:45 P.M.

JOHN DOLIBOIS ROOM

(See presenter index on pages 47 - 61)

- B87 Chaney Steimel**, Nursing Major
Danielle Horney, Nursing Major
Madison Vibbard, Nursing Major
Bre-Anne Moffitt, Nursing Major
Jamie Cogan, Nursing Major
Advisor(s): Eyad Musallam, Department of Nursing
Emergency Contraception versus Intrauterine Devices
- B89 Ryan Motley**, Nursing Major
Lauren Motley, Nursing Major
Briana Berry, Nursing Major
Victor Agyeman, Nursing Major
Nana Roberts, Nursing Major
Advisor(s): Eyad Musallam, Department of Nursing
What Interventions Are Effective in Reducing the Spread of c diff?
- B90 Theresa Creager**, Nursing Major
Callie Sove, Nursing Major
Laura Stamper, Nursing Major
Doug Kuykendoll, Nursing Major
Rachel Everhart, Nursing Major
Rosanna White, Nursing Major
Advisor(s): Eyad Musallam, Department of Nursing
In Hospitalized Patients, What Is the Best Practice to Prevent Intravenous Catheter Infections?
- B91 Sundeep Vaswani**, Mathematics Major
Bobbie Hall, Psychology Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
Age-Friendliness in Oxford: Communication, Community, and Services
- B92 Sarah Heath**, Psychology Major
Cole Baker, Biology Major
Tone Pryer, Accountancy Major
Aaron Davidson-Bey, Psychology Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
Senjooti Roy, Department of Sociology and Gerontology
The Accessibility and Inclusion of Oxford: Is It Built for Everyone?
- B93 Brianne Maag**, Psychology Major
Advisor(s): Elizabeth Kiel, Department of Psychology
Randi Phelps, Department of Psychology
An Investigation of Child Anxiety Development through Maternal Parenting Behaviors
- B94 Jacob Schlichter**, Zoology Major
Brendan Chetty, Biology Major
Susanna D'Silva, Biochemistry Major
Ian Kausch, Microbiology Major
Spencer Kluth, Biology Major
Madelyn Myers, Microbiology Major
Major Garrett Schilling, Microbiology Major
Allison Biedenharn, Microbiology Major
Amanda Burgess, Microbiology Major
Advisor(s): Kelly Abshire, Department of Microbiology
Luis Actis, Department of Microbiology
Mitchell Balish, Department of Microbiology
Elizabeth Lucas, Department of Microbiology
Mariah Squire, Department of Physics
Magnar, the Cluster A Cowboy: A New Bacteriophage from Microbiology 223/224
- B95/96 Lawrence Gardner Jr.**, Biology Major, Bioinformatics Minor
Advisor(s): Chun Liang, Bioinformatics Laboratory, Department of Biology
Live Demo of the Microsoft HoloLens

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

SHRIVER LOBBY

(See presenter index on pages 47 - 61)

C 01L John Karikas, Biology Major

Advisor(s): Cameron Hay-Rollins, Department
of Anthropology

Paul Flaspohler, Department of Psychology

*Literature Misses Reality: The Exclusion of Men in
Efforts to Understand Infant Mortality*

CL02 Rachel Serafin, Biochemistry Major

Advisor(s): Cameron Hay-Rollins, Department
of Anthropology

*Community Perceived Health Consequences of Lead
Contamination in Kabwe, Zambia*

CL03 Emily Ratvasky, Anthropology Major

Advisor(s): Jeb Card, Department of Anthropology
Archaeological Education and Gamification

CL04 Miranda Oates, Anthropology Major

Advisor(s): Jeb Card, Department of Anthropology
The Use and Abuse of Human Remains: Ethical,

*Legal, and Political Issues in Regard to Collection and
Analysis*

CL05 Ellie Timmons, Anthropology and German Major

Advisor(s): Jeb Card, Department of Anthropology
Academic Responses to Pseudoscience and Power: A

Case Study from Nazi Germany

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C01 Maddy Moe**, Biology Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Courtney Clark-Hachtel, Department of Biology
Detailed Analysis of the Tissues Transforming into Wings in the Cephalothorax Mutants of Tribolium
- C02 Sean Boyles**, Microbiology Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Kevin Deem, Department of Biology
Visualizing Vg Expression Patterns to Investigate a Possible Dual-origin of Insect Wings
- C03 Jacob Schultz**, Biology and Premedical Studies Major
Advisor(s): Yoshinori Tomoyasu, Department of Biology
Courtney Clark-Hatchel, Department of Biology
Establishing the Giant Mayfly (Hexagenia) as a Model to Study the Origin of Insect Wings
- C04 Kayla Cartwright**, Biology and Premedical Studies Major
Charles Long, Biology and Premedical Studies Major
Advisor(s): Paul Harding, Department of Biology
Sean Taylor, Department of Biology
Cellular Reprogramming of Human Primary Adipocytes into Brown Adipose Tissue (BAT)-like Cells
- C05 Vayda Barker**, Biochemistry and Premedical Studies Major
Alyssa Miller, Biology Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
George Tsissios, Department of Biology
The Role of Ephrin-B2 on Newt Lens Regeneration
- C06 Andrew Fausey**, Biology Major
Aristotle Kayafas, Biology Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Agustin Luz-Madrigal, Department of Biology
Erika Grajales, Department of Biology
Jared Tangeman, Department of Biology
The Role of Epigenetic Modifications in Retina Reprogramming
- C07 Sydney Harris**, Biology and Spanish Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Tianlin Lu, Department of Biology
Determining Axolotls' Regeneration of Retinal Tissue
- C08 Taylor Lentz**, Biology and Premedical Studies Major
Sam Wallace, Biochemistry and Biology Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Tracy Haynes, Department of Biology
Zeyu Han, Department of Biology
To Determine the Mechanism by which IL-6 Induces RPE Reprogramming in the Embryonic Chick
- C09 Jennifer Bierly**, Biology and Premedical Studies Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Tianlin Lu, Department of Biology
Mechanism of Complement Component C3a-induced RPE Reprogramming
- C10 Ryan Snyder**, Biology and Premedical Studies Major
Advisor(s): Lori Isaacson, Department of Biology
Neuronal Plasticity and Survival in Spinal Cord following Peripheral Axon Injury: Role of glia
- C11 MacKenton Johnson**, Biology and Neuroscience Major
Advisor(s): Lori Isaacson, Department of Biology
Jessika Hutchinson, Department of Biology
Elimination of Microglia from Mouse Spinal Cord: A Model to Examine Plasticity following Peripheral Axon Injury
- C12 Elizabeth Jacobs**, Biology and Neuroscience Major
Advisor(s): Kathleen Killian, Department of Biology
Kathryn Chipchase, Department of Biology
Effects of Cold Stress on Gut Lining and Enteric Bacterial Escape in Acheta domesticus

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C13 Kelsy Schultz**, English Creative Writing and Premedical Studies Major
Alexa Enders, Biology and Psychology Major
Advisor(s): Kathleen Killian, Department of Biology
Kathryn Chipchase, Department of Biology
Effect of Cold Stress on Agnostic and Reproductive Behavior of Male Acheta domesitcus Crickets
- C14 Savannah Ballweg**, Botany and Environmental Science Major
Advisor(s): Carolyn Keiffer, Department of Biology
*The Historical Range and Prevalence of the American Chestnut (*Castanea dentata*) in Ohio*
- C15 Alessia Saul**, Zoology and Environmental Science Major
Advisor(s): Craig Williamson, Department of Biology
Limnological Scientific Outreach in Pennsylvania's Pocono Lake Region
- C16 Addison Zeisler**, Biology Major
Advisor(s): Tereza Jezkova, Department of Biology
*Diversification in North American Band-winged Grasshoppers (*Oedipodinae*)*
- C17 Julia Fleiner**, Environmental Earth Science and Biology Major
Megan Schwinden, Biology Major
Isabel Frazier, Chemistry Major
Ashley Martin, Biology Major
Advisor(s): Melany Fisk, Department of Biology
Deer and Honeysuckle Influence on Soil Microbial Activities in Hardwood Forests
- C18 Eastyn Newsome**, Botany Major
Jared Lutz, Biology and Premedical Studies Major
Advisor(s): Robert Baker, Department of Biology
Stomatal Density and Leaf Venation: Structure-function Relationships and Water Use Efficiency in Brassica
- C19 Casey Horan**, Microbiology Major
Advisor(s): Michael Vanni, Department of Biology
Tanner Williamson, Department of Biology
Microbial Diversity and Patterns of Denitrification in Lakes with Contrasting Watershed Land Use
- C20 Avan Colah**, Biology Major
Leigha Raess, Biochemistry Major
Advisor(s): Richard Bretz, Department of Chemistry and Biochemistry
Marcia Lee, Department of Microbiology
*Isolation of Potential Antifungal Compounds in *Aloe cameronii**
- C21 Lydia Tressel**, Botany Major
Advisor(s): Michael Vincent, Department of Biology
*Revision of the *Trifolium depauperatum* Species Complex*
- C22 Andrew Schaff**, Microbiology Major
Advisor(s): Mitchell Balish, Department of Microbiology
Monica Feng, Department of Microbiology
*Effect of Enzymes and Salts on the Dispersal of *Mycoplasma pneumoniae* Biofilms*
- C23 Rebecca Wyma**, Microbiology and Premedical Studies Major
Advisor(s): Mitchell Balish, Department of Microbiology
Nathan Schwab, Department of Microbiology
*The *Mycoplasma* Attachment Organelle and Amino Acid-Induced Shape Change*
- C24 Clairissa Hansen**, Microbiology Major
Advisor(s): Mitchell Balish, Department of Microbiology
*Efforts toward Targeted Gene Knockout in Poultry Pathogen *Mycoplasma iowae**
- C25 Jessica Clark**, Microbiology Major
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
Isha Kalra, Department of Microbiology
*Understanding the Effects of Adaptive Laboratory Evolution on Model Green Alga *Chlamydomonas reinhardtii* under High Salinity*

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C26** **Isaiah Jacques**, Microbiology and Premedical Studies Major
Advisor(s): Rachael Morgan-Kiss, Department of Microbiology
Zev Cariani, Department of Microbiology
Characterization of the Growth and Photochemistry of Antarctic Mixotrophic Algae: Isochrysis sp. MDV & Geminigera cryophila
- C27** **Kelly Minuskin**, Biochemistry and Neuroscience Major
Advisor(s): Andre Sommer, Department of Chemistry and Biochemistry
Low Cost Infrared Microspectroscopy through Modern Advancements
- C28** **Diya Yang**, Biochemistry Major
Advisor(s): Rick Page, Department of Chemistry and Biochemistry
Huaqun Zhang, Department of Chemistry and Biochemistry
Chathura Paththamperuma, Department of Chemistry and Biochemistry
Studying Hsp70 Substrate Ubiquitination by CHIP Using Peptide Rulers
- C29** **Jamie Stewart**, Biochemistry Major
Advisor(s): Rick Page, Department of Chemistry and Biochemistry
Dominik Konkolewicz, Department of Chemistry and Biochemistry
Thaiesha Wright, Department of Chemistry and Biochemistry
Cellulase-Polymer Bioconjugates to Improve Enzyme Stability and Function for Biofuel Production
- C30** **Meghan Mulligan**, Biology and Science and Education Major
Naomi Patten, Science Education Major
Advisor(s): Ellen Yezierski, Department of Chemistry and Biochemistry
Adam Schafer, Department of Chemistry and Biochemistry
Justin Pratt, Department of Chemistry
Question Quality: Characterizing Activities that Use PhET Simulations
- C31** **Kathryn Yezierski**, Chemistry Education Major
Advisor(s): Stacey Lowrey Bretz, Department of Chemistry and Biochemistry
Timothy Abell, Department of Chemistry and Biochemistry
Assessing Students' Understandings of Bonding, Acid-Base, and Redox Concepts in General Chemistry
- C32** **Carrie Dobbs**, Chemistry Major
Advisor(s): Stacey Lowrey Bretz, Department of Chemistry and Biochemistry
Timothy Abell, Department of Chemistry and Biochemistry
Students' Understandings of Solution Chemistry
- C33** **Lillian Huff**, Chemistry Major
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry
Zahilyn Roche Allred, Department of Chemistry and Biochemistry
Students' Understandings of Particulate Representations of Elements & Compounds
- C34** **Charles Spieser**, Biology Major
Advisor(s): Stacey Lowery Bretz, Department of Chemistry and Biochemistry
Zahilyn Roche Allred, Department of Chemistry and Biochemistry
Gregory Allen, Department of Chemistry and Biochemistry
Using Cluster Analysis to Explore Students' Misconceptions About Atomic Emission and Absorption

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

C35 Alex Kloster, Biochemistry and Premedical Studies Major

Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry

Michael Allegrezza, Department of Chemistry and Biochemistry

Nethmi De Alwis Watuthanthrige, Department of Chemistry and Biochemistry

Reaction and Reactor Conditions Affect Photoinduced Electron/Energy Transfer Reversible Addition Fragmentation Transfer(RAFT) Polymerization

C36 Jeremy Via, Biochemistry and Premedical Studies Major

Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry

Progyateg Chakma, Department of Chemistry and Biochemistry

Erika Stopler, Department of Chemistry and Biochemistry

Self-healing Polymers and Reinforcement with Carbon Nanotubes

C37 Alex Danielson, Biochemistry and Music Performance Major

Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry

Michael Kennedy, Department of Chemistry and Biochemistry

Reversible Addition-Fragmentation Chain Transfer Polymerization Using Horseradish Peroxidase as a Catalyst

C38 Zachary Digby, Chemistry and Biochemistry Major

Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry

Progyateg Chakma, Department of Chemistry and Biochemistry

Small Molecular Study of the Dynamic Exchange of the thiol-Michael Reaction

C39 Lan Dao, Chemistry Major

Advisor(s): Benjamin Gung, Department of Chemistry and Biochemistry

Ruoyu Ma, Department of Chemistry and Biochemistry

Synthesis of Novel NHC-Au(I) Complexes with Extremely Bulky Groups

C40 Mitchell Singstock, Anthropology and Neuroscience Major

Advisor(s): Suzanne Klatt, Department of Family Science and Social Work

Mindfulness Program for the Knolls of Oxford

C41 Madison Scott, History Major

Advisor(s): Andrew Offenburger, Department of History

The U.S. Dakota War of 1862

C42 Kathryn Moreno, Special Education Major

Advisor(s): Darrel Davis, Department of Educational Psychology

Function and Use of Time in Belizean Schools

C43 Anna Hill, Special Education Major

Amber Karkiewicz, Special Education Major

Advisor(s): Sarah Watt, Department of Educational Psychology

Uncovering the Attitudes and Beliefs towards Inclusion among General and Special Education Preservice Teachers

C44 Terra Collier, Economics and Anthropology Major

Eashwar Nagaraj, Economics and Mathematics Major

Evan Jelley, Economics and History Major

Sanchit Arvind, Economics Major

Advisor(s): Deborah Fletcher, Department of Economics

Revisiting Figlio: Are Tenure Track Professors Better Teachers?

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C45 Deanna Manolio**, Individualized Studies and Psychology Major
Advisor(s): Hays Cummins, Western Program
Rose Marie Ward, Department of Kinesiology and Health
The "Miami Image" and Eating Disorders
- C46 Emily Mendenhall**, Individualized Studies and Sociology Major
Advisor(s): Jacqueline Daugherty, Western Program
Hays Cummins, Western Program
Student Understanding and Navigation Patterns of Miami University Sexual Violence Webpages
- C47 Jonathan Tetrick**, Finance Major
Adam McCoy, Marketing Major
Kyle Fischer, Marketing Major
Advisor(s): Megan Gerhardt, Department of Management
How Do Home Values Affect Job Searches?
- C48 Blair Arnell**, Business Administration and East Asian Languages and Cultures Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
Civic Participation and Employment in Oxford, Ohio
- C49 Brooke Bennington**, Sociology and Strategic Communication Major
Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
Senjooti Roy, Department of Sociology and Gerontology
Aging and Social Participation in Oxford
- C50 Dania Puente**, Strategic Communication and East Asian Languages and Cultures Major
Advisor(s): Christopher Sutter, Institute for Entrepreneurial Leadership
Understanding Farmers Motivations for Certification
- C51 Max Leveridge**, Environmental Earth Science and Environmental Science Major
Advisor(s): Amelie Davis, Department of Geography
Comparing Environmental Attitudes and Relational Value Systems of Populations within the Great Bear Rainforest
- C52 Audrey Short**, Biochemistry and Physics Major
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry
William Joesten, Department of Chemistry and Biochemistry
Understanding Declining Insulin Production Rates as Type 1 Diabetes Progresses in a Mouse Model
- C53 Alexander Dwyer**, Biochemistry and Premedical Studies Major
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry
Shuisong Ni, Department of Chemistry and Biochemistry
Shenyuan Xu, Department of Chemistry and Biochemistry
Structural Insight into the Rearrangement of the Switch I Region in GTP Bound G12A K-Ras
- C54 Jana Abdul-Samad**, Biochemistry Major
Advisor(s): Michael Kennedy, Department of Chemistry and Biochemistry
Shuisong Ni, Department of Chemistry and Biochemistry
Faizule Hassan, Department of Chemistry and Biochemistry
Engineered Adenovirus Containing Hyper Binding Sites Targeting Oncogenic HMGA Decreases Pancreatic and Liver Cancer Cell Viability
- C55 Daniel Stent**, Journalism and Sport Leadership and Management Major
Advisor(s): Stephen Siff, Department of Media Journalism and Film
An In-Depth Analysis of Anti-Marijuana Advertisement Campaigns in California Prior to Proposition 64 Being Passed
- C56 Leah Kuhn**, Chemistry and Engineering Physics Major
Advisor(s): Neil Danielson, Department of Chemistry and Biochemistry
Capillary Electrophoresis of Glycosaminoglycans with Indirect Detection Using Naphthalene Sulfonates

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C57 Yudan Chen**, Chemistry Major
Junyi Wang, Chemistry Major
Advisor(s): Neil Danielson, Department of Chemistry and Biochemistry
The Separation of Peptides in Pluronic F127 Gel by Electrophoresis with MALDI Detection
- C58 Elise Leonard**, Chemistry and Premedical Studies Major
Advisor(s): Neil Danielson, Department of Chemistry and Biochemistry
Ashley Richardson, Department of Chemistry and Biochemistry
Weak Anion Exchange Chromatography of Sulfonated Biological Polymers
- C60 Madeline Burke**, Zoology and Premedical Studies Major
Kristen Gray, Psychology and Neuroscience Major
Brianna Minshall, Psychology and Neuroscience Major
Shiane Toleson, Psychology and Premedical Studies Major
Tiffany Campbell, Psychology and Premedical Studies Major
Advisor(s): Jennifer Quinn, Department of Psychology
Danielle Tapp, Department of Psychology
The Role of Glucocorticoid Receptors in Adolescent Stress-Enhanced Fear Learning
- C61 Drew Schleicher**, Biochemistry and Neuroscience Major
Advisor(s): Anna Radke, Department of Psychology
Jennifer Quinn, Department of Psychology
Novel Mouse Model of Early Life Stress-enhanced Fear Learning and Its Implications for the Development of Post-traumatic Stress Disorder
- C62 Isabel Held**, Psychology and Neuroscience Major
Advisor(s): Anna Radke, Department of Psychology
Jennifer Quinn, Department of Psychology
Impact of Acute Early Life Stress and Adolescent Alcohol Exposure on Adult Stress-Enhanced Fear Learning and Alcohol-seeking Behavior
- C63 Austin Nader**, Psychology Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
Do the Orbitofrontal Cortex and Medial Prefrontal Cortex Contribute to Compulsive Alcohol Seeking?
- C64 Emma Feld**, Psychology Major
Zach Shoemaker, Psychology Major
Brendan Tracy, Psychology Major
Terry Reid, Psychology and Major
Leah Sprock, Psychology and Marketing Major
Abigail Groome, Psychology Major
Rupert Delacruz, Psychology Major
Gabby Lee, Psychology Major
Gao Heng, Psychology Major
Advisor(s): Jay Leonard Smart, Department of Psychology
Anthony Drew, Department of Psychology
Social Media Usage and Motor Control: Unapparent Links
- C65 Nicholas Daman**, Biology and Premedical Studies Major
Caleb Kozuszek, Chemistry Major
Advisor(s): Dominik Konkolewicz, Department of Chemistry and Biochemistry
Kevin Burridge, Department of Chemistry and Biochemistry
Incorporating Spin Labels into Polymers to Probe Protein Polymer Interactions
- C66 Katherine Rodriguez**, Biology and Neuroscience Major
Advisor(s): Matthew McMurray, Department of Psychology
Danielle Tapp, Department of Psychology
Social Motivation of Adolescent Binge Drinking
- C67 Bryson Sanders**, Psychology Major
Brittany Nordhaus, Psychology Major
Advisor(s): Matthew McMurray, Department of Psychology
Animal Preference between Brain Stimulation Reward Sites

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C68 Rachael Weesner**, Psychology Major
Advisor(s): Kurt Hugenberg, Department of Psychology
E. Paige Lloyd, Department of Psychology
Group-Based Pain Sensitivity Stereotypes and Their Accuracy
- C69 Kevin Summers**, Psychology and Premedical Studies Major
Advisor(s): Kurt Hugenberg, Department of Psychology
E. Paige Lloyd, Department of Psychology
Poverty, Pardons, and Pedagogy: Erroneous Beliefs of Low-SES Students as Insensitive to Pain Biases Allotted Recovery Time in Education
- C70 Zhifan Cai**, Physics and Mathematics Major
Carolina Vissers, Biological Physics and Premedical Studies Major
Advisor(s): Paul Urayama, Department of Physics
Optical Sensing of Cellular NADH During Extreme Concentration Limits of Chemically-induced Metabolic Transitions
- C71 Andrew Peachman**, Physics and Premedical Studies Major
Advisor(s): Karthik Vishwanath, Department of Physics
Anthony Young, Department of Psychology
Using Laser Speckle Contrast Imaging to Determine Fluid Flow of Non-Scattering Media
- C72 Max Kreider**, Mathematics and Spanish Major
Andy Rodriguez, Biological Physics and Premedical Studies Major
Advisor(s): Paul Urayama, Department of Physics
Overview of Spectral Phasor Analysis in Biomedical Optics
- C75 Carter Gadola**, Biology Major
Advisor(s): Randal Claytor, Department of Kinesiology and Health
Jarod Vance, Department of Kinesiology and Health
Electromyographic Indices of Acute Muscle Fatigue in Response to Multiple Sets and Repetitions of a Single-leg Knee Extension Resistance Exercise
- C76 Zezhe He**, Media and Culture Major
Advisor(s): Beth Miller, Department of Kinesiology and Health
Paul Flaspohler, Department of Psychology
Food Insecurity in Local Area: The Role of The Oxford Community Choice Pantry
- C77 Valerie Schmitz**, Kinesiology Major
Advisor(s): Randal Claytor, Department of Kinesiology and Health
Jarod Vance, Department of Kinesiology and Health
Neuromuscular and Mechanical Assessment of Muscle Fatigue during 1-leg Knee Extension Resistance Exercise
- C78 Andrew Renggli**, Kinesiology and Premedical Studies Major
Tom Minik, Kinesiology Major
Advisor(s): Randal Claytor, Department of Kinesiology and Health
Jarod Vance, Department of Kinesiology and Health
Work, Power, Velocity and the EMG Indices of Fatigue during Resistance Exercise
- C80 Bryn McElroy**, Speech Pathology & Audiology Major
Megan Igel, Speech Pathology & Audiology Major
Theresa Adams, Speech Pathology & Audiology and Psychology Major
Advisor(s): Aaron Shield, Department of Speech Pathology and Audiology
Linguistic Differences in the Production of Narratives by Adolescents with and without Autism Spectrum Disorder
- C81 Cody Loveless**, Biology and Spanish Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Examining College Student Drinking Motives by Academic Division

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

C82 Laura (Dannie) Roberts, Kinesiology and Premedical Studies Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

The Power of Parenting: Is There a Relationship between the Occurrence of Orthorexia Nervosa and Parenting Style?

C83 Lamuel Bean, Public Health Major

Advisor(s): Rose Marie Ward, Department of Kinesiology and Health

Correlation between Alcohol Consumption & Fluid Intelligence

C85 Trisha Kalkhof, Nursing Major

Mark Ball, Nursing Major

Joseph Hudson, Nursing Major

Westen Judd, Nursing Major

Nathaniel Smith, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing
In Hospitalized Patients, What Is the Best Practice for Foley Catheter Insertion to Prevent Infections?

C86 Laura DeWitt, Nursing Major

Elizabeth Reist, Nursing Major

Rachael Barker, Nursing Major

Timothy Wiggins, Nursing Major

Jessica Wilkins, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing
Is Breastfeeding More Effective than Bottle-feeding in Regards to the Health of an Infant?

C87 Brittany Botkin, Nursing Major

Macie Blevins, Nursing Major

Haley Reed, Nursing Major

Courtney Hyde, Nursing Major

April Williams, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing
Anxiety among Nursing Students: Interventions to Improve Coping Skills

C88 Brett Tillery, Nursing Major

Austin Campbell, Nursing Major

Leah Wendel, Nursing Major

Sarah Huber, Nursing Major

Jermecka Rumph, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing
As a Surgical Prep Solution, Is Chlorohexidine Gluconate or Povidone Iodine Better at Reducing Surgical Site Infections?

C89 Harley Humphrey, Nursing Major

Maddie Colliver, Nursing Major

Megan Hoffman, Nursing Major

Megan Shiflett, Nursing Major

Brookelynne Smith, Nursing Major

Advisor(s): Eyad Musallam, Department of Nursing
Does Smoking Marijuana during Pregnancy Increase the Risk of Poor Neonatal Outcomes?

C91 Arushi Chalke, Microbiology and Premedical Studies Major

Mackenzie Coyne, Biology and Premedical Studies Major

Yitong He, Biology Major

Allison Biedenharn, Microbiology and Premedical Studies Major

Leeann Tran, Medical Laboratory Science and Premedical Studies Major

Advisor(s): Joyce Fernandes, Department of Biology
Aswati Subramanian, Department of Biology
Investigating the Impact of Motor Neuron Death on Peripheral Nerve Organization in Drosophila

C92 Gwendolyn Thomas, Biochemistry Major

Krystina Hird, Biochemistry Major

Advisor(s): Carole Dabney-Smith, Department of Chemistry and Biochemistry

Investigating Chloroplast Protein Transport through Crosslinking Interactions between Stromal cpTatC and Mature Precursor

Poster Presentation Listing by Poster Number

SESSION C: 3:00 – 4:30 P.M.

JOHN DOLIBOIS ROOMS

(See presenter index on pages 47 - 61)

- C93 Bailey Haynes**, Biology Major
Advisor(s): Katia Del Rio-Tsonis, Department of Biology
Christian Gutierrez, Department of Biology
A Newt Ex Vivo System to Study RPE Transdifferentiation
- C94 Jacob Schlichter**, Zoology Major
Brendan Chetty, Biology Major
Susanna D'Silva, Biochemistry Major
Ian Kausch, Microbiology Major
Spencer Kluth, Biology Major
Madelyn Myers, Microbiology Major
Garrett Schilling, Microbiology Major
Allison Biedenharn, Microbiology Major
Amanda Burgess, Microbiology Major
Advisor(s): Kelly Abshire, Department of Microbiology
Luis Actis, Department of Microbiology
Mitchell Balish, Department of Microbiology
Elizabeth Lucas, Department of Microbiology
Mariah Squire, Department of Physics
Magnar, the Cluster A Cowboy: A New Bacteriophage from Microbiology 223/224
- C95 Zaheer Choudhury**, Microbiology and Premedical Studies Major
Advisor(s): Kelly Abshire, Department of Microbiology
Paul Flaspohler, Department of Psychology
How Late Is Too Late? Obstacles to Positive Maternal and Neonatal Health Outcomes in Bangladesh
- C96 Ashlyn Anderson**, Microbiology and Premedical Studies Major
Advisor(s): Eileen Bridge, Department of Microbiology
Chandramoni Kafle, Department of Microbiology
Differential Regulation of Mitotic Marker Phospho-Histone 3 during Adenovirus Infection

A STUDENT REFLECTION:

Miami Mentors Engaging Students in Research

By Tarah Mason
Class of 2018

In early February, ORU Coordinator Martha Weber asked me to write a letter about my personal experience working with a faculty mentor at Miami. We thought that this would be an easy task for me, given that I had just wrapped up a year-long research project. With my experience, I should be able to explain how crucial faculty mentors are to undergraduate research. Yet, after nearly two months of thinking and writing and rewriting, I realized that this letter was, in actuality, an immensely difficult endeavor.

It was so difficult because mere words could not possibly capture the enormity of what our mentors do for us – of what my mentor has done for me. How could I describe the extent to which I have relied on my mentor to guide me through this new and daunting process? How could I pare down the hundreds of hours that my mentor has spent helping me into only a few sentences? How could I make you understand just how much I have learned as a student – and grown as a person – because of my mentor? Honestly, I don't think that I could.

Faculty mentors go above and beyond for their students every single second of every single day. They are always available to answer the thousands of questions we email to them. They take the time to teach us all the concepts we do not understand. They critique dozens of our rough drafts, and they listen to our presentations over and over again until they are perfect. At one point, my own mentor actually journeyed to the office where I work – which was completely out of his way – and hand-delivered to me comments on my paper so that I could work on it over the weekend. Extraordinary acts like these are routinely performed by our mentors, proving just how dedicated they are to undergraduate research and to student learning.

Moreover, mentors are not required to do any of it. They are not required to sacrifice untold amounts of their free time to help an undergraduate work through a research project – but they do. They bring all their knowledge and resources to bear in order to make sure we succeed – not because they have to, but because they want to. They believe that we are capable of achieving incredible things, and they are driven by a desire to help us get there. That, in my personal opinion, is the most astounding aspect of a mentor.

The rest of the Undergraduate Research Forum staff and I hope you will take a few moments to recognize the truly amazing contributions from Miami's dedicated faculty. Without them, none of the research you see here today would be possible.

RESEARCH MENTORS

2018 Undergraduate Research Forum

Anthropology

Jeb Card
Cameron Hay-Rollins
Linda Marchant
Leighton Peterson
Clara Scarry
John Schaefer

Art

Stephanie Baer

Biology

Robert Baker
Dawn Blitz
Michelle Boone
Kathryn Chipchase
Courtney Clark-Hatchel
Kevin Deem
Katia Del Rio-Tsonis
Joyce Fernandes
Melany Fisk
Jake Godfrey
Erika Grajales
Christian Gutierrez
Zeyu Han
Paul Harding
Tracy Haynes
Susan Hoffman
Tyler Hoskins
Jessika Hutchinson
Lori Isaacson
Paul James
Tereza Jezkova
Carolyn Keiffer
Kathleen Killian
Kristen Krolick
Phuong Lam
Chun Liang
Tianlin Lu
Agustin Luz-Madrigal
Jessica McQuigg
Richard Moore
Stephanie Padula
Jeremy Papuga
Lam Phuong
Joe Powers

Peipei Qi
Michael Robinson
Ann Rypstra
Haifei Shi
Mollie Sorrell
Aswati Subramanian
Jared Tangeman
Sean Taylor
Yoshinori Tomoyasu
George Tsissios
Michael Vincent
Brad Wagner
Craig Williamson
Tanner Williamson

Chemical Paper and Biomedical Engineering

Catherine Almquist

Chemistry and Biochemistry

Timothy Abell
Michael Allegrezza
Zahilyn Roche Allred
Alexander Bergstrom
Richard Bretz
Stacey Lowery Bretz
Kevin Burridge
Progyateg Chakma
Andrew Clarkson
Michael Crowder
Carole Dabney-Smith
Neil Danielson
Gunjan Dixit
Daniel Drew
Samar Elagamy
Patrick Emery
Katie Eudy
Benjamin Gung
Ann Hagerman
Scott Hartley
Faizule Hassan
Isuru Jayalath
William Joesten
Michael Kennedy
Dominik Konkolewicz
Gary Lorigan

Ruoyu Ma
Shuisong Ni
Rick Page
Maia Popova
Justin Pratt
Ashley Richardson
Adam Schafer
Andre Sommer
Xiaowei Sun
David Tierney
Thaiesha Wright
Shenyuan Xu
Ellen Yezierski
Huaqun Zhang

Classics

Deborah Lyons

Comparative Religion

Nathan French
James Hanges
Liz Wilson

Computer Science and Software Engineering

Valerie Cross

Economics

Deborah Fletcher

Educational Leadership

Chasity Dittmann
Lisa Weems

Educational Psychology

Darrel Davis
Sarah Watt

Electrical and Computer Engineering

Mark Scott

Engineering Technology

Banafsheh Seyed-Aghazadeh

RESEARCH MENTORS

2018 Undergraduate Research Forum

English

Larysa Bobrova
Margaret Luongo

Family Science and Social Work

Angela Curl
Suzanne Klatt

Geography

Amelie Davis

Geology and Environmental Earth Science

Michael Brudzinski
Patrick Cullen
Brian Currie
Maureen Haley
Mark Krekeler
Jonathan Levy
Claire McLeod
John Rakovan
Carrie Tyler

German

Mila Ganeva

Global and Intercultural Studies

Gwendolyn Etter-Lewis
Tani Sebro

History

Elena Jackson Albarrán
Tammy Brown
Aaron Cavin
Steven Conn
Erik Jensen
Andrew Offenburger

Institute for

Entrepreneurial Leadership

Christopher Sutter

Kinesiology and Health

Randal Claytor
Ronald Cox
Rebecca Galvin
Karly Geller

Beth Miller

Valerie Ubbes
Jarod Vance
Mark Walsh
Rose Marie Ward

Management

Megan Gerhardt

Mechanical and Manufacturing Engineering

Jeong-Hoi Koo
Hamed Samandari

Media Journalism and Film

Hongmei Li
Stephen Siff

Microbiology

Kelly Abshire
Luis Actis
Mitchell Balish
Eileen Bridge
Zev Cariani
Monica Feng
Natosha Finley
Chandramoni Kafle
Isha Kalra
Andor Kiss
Marcia Lee
Gabrielle Lopez
Elizabeth Lucas
Rachael Morgan-Kiss
Nathan Schwab

Music

Elizabeth Hoover

Nursing

Eyad Musallum

Physics

Samir Bali
Paul Urayama
Karthik Vishwanath
Abigail Matthews

Psychology

Tessa Benson-Greenwald
Jijun Chen
Mitchell Dandignac
Ken DeRose
Amanda Diekman
Anthony Drew
Paul Flaspohler
Melissa Fuesting
Kurt Hugenberg
Brielle Johnson
Joseph Johnson
Vrinda Kalia
E. Paige Lloyd
Camilla McMahon
Matthew McMurray
Jennifer Quinn
Anna Radke
Jay Smart
Elizabeth Sneddon
Amy Summerville
Danielle Tapp
Anthony Young
Sara Zanfardino

Social and Behavioral Sciences

Barbara Oswald

Sociology and Gerontology

J. Scott Brown
Kristen Budd
Kate de Medeiros
Ryan Gunderson
Cassandra Hua
Senjooti Roy

Speech Pathology and Audiology

Aaron Shield

Statistics

John Bailer
Thomas Fisher
Tatjana Miljkovic
Byran Smucker

Student Success Center

Monica Adkins

RESEARCH MENTORS

2018 Undergraduate Research Forum

Teacher Education

Brenda Dales

Western Program

Hays Cummins

Jacqueline Daugherty

MIAMI UNIVERSITY

Undergraduate Research Opportunities

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 2017, Miami welcomed Dr. Joyce J. Fernandes as the Director of the Office of Research for Undergraduates.

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 (FYRE)¹
- Administering university-wide undergraduate research programs, such as DUOS, URA, and USS
- Offering co-curricular program support including: workshops, seminars, site visits, etc.
- Assisting with the identification of appropriate funding opportunities for student-led research
- Offering clear routes to research opportunities, both at Miami and 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 through ORU

ORU sponsors Miami's Enhanced Institutional Membership in the Council on Undergraduate Research, enabling 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.

Visit www.cur.org

¹FYRE, DUOS, URA and USS program details available at: <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)

The FYRE 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. Over 500 Miami students have participated in the program since 2009.

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. 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, FYRE students may take part in exclusive workshops, colloquia, and other professional development opportunities.

Undergraduate Research Award (URA)

The ORU provides administrative support to the Miami University Senate Committee on The ORU provides administrative support to the Miami University Senate Committee on Undergraduate Research. Since the early 1980's, the university senate has sponsored the URA to provide Miami Undergraduates with 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 the 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.

MIAMI UNIVERSITY

Undergraduate Research Opportunities

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 fifteen 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 ten-week internship includes a participant stipend and provides twelve hours of credit with tuition costs waived.¹

Visit the College of Arts & Science Website for information on Dean's Scholar and Howard Hughes awards.

University Libraries Award for Undergraduate Research Excellence (LAURE)

Undergraduate students who are conducting research using the Miami University Libraries are eligible for special recognition and a cash prize through the Libraries Award for Undergraduate Research Excellence (LAURE). A partnership between the University Libraries and the Student Library Advisory Committee, the LAURE seeks to recognize undergraduate students who demonstrate excellence in library research conducted in support of student projects.

MIAMI UNIVERSITY

Undergraduate Research Opportunities

First place earns a \$1,000 cash prize, with additional prizes awarded for second place (\$500) and honorable mention (\$100). To learn more about the award, evaluation criteria and how to submit an entry, visit the <http://libguides.lib.miamioh.edu/LAURE>

“Our Miami University Libraries have always existed to support the scholarly excellence of our students, and nowhere is that more prevalent than in the advancement of student research,” Jerome Conley, dean and university librarian, said. “We are excited to promote and celebrate the research achievements of our undergraduate students while emphasizing the University Libraries’ role in strengthening student research at Miami.”

Visit www.miamioh.edu/fellowships.

National Prestigious Fellowships Application

Global Initiatives is aligned with Miami University’s commitment to advance global learning. Mission statement: 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: www.miamioh.edu/global

University Honors Program (UHP)

The 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. The 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.

Visit: www.honors.miamioh.edu.

Acknowledgements

Undergraduate Research Forum Planning Committee Members:

James T. Oris, Valerie O. Robinson, Graduate School, Office for Advancement of Research and Scholarship and Office of Research for Undergraduates, Joyce J. Fernandes, Martha E. Weber, Tarah Mason, Frannie Comstock and Dana Johnson.

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, and Valerie Robinson
- Miami's Trucking and Physical Facilities staff members delivering the poster boards
- Shriver Center Staff members: Neila Hanges Jim Baker, Dennis Brown and their crew.
- SOURCE Student organization

Undergraduate research at Miami is funded in part by the following contributors:

Arnold and Mabel Beckman Foundation	Joseph F. Hogan Research Scholar Fund	Susan Roberson Wilson Fund
Clark Crannell Research Award Fund	Kettering Fund	William Borchers Fund
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Garden Club of Ohio	Marjorie C. Britton Fund	William Turrell Herbarium Fund
Gary W. Barrett Research Award Fund	Miami Honors Program Student Initiative Fund	The Cleveland Foundation
Goldie Nott Student Research Fund	Miami Provost Office	The E.F. and Fern F. Patten Student Research Fund
James E. Bever/David M. Scotford Laboratory Research Fund	Nancy Anderson Brown Honors Program Fund	The Gund Foundation
J. Beldon Dennison Scholar Room Fund		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

PRESENTERS INDEX BY STUDENT LAST NAME

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

Only poster numbers with L are located in Shriver Lobby

All other Poster are located in Shriver JDOL

All oral presentations are located on Shriver 3rd Floor

Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Abbott	Staci	Poster*	A	59	Shriver JDOL
Abbott	Grant	Poster*	B	41	Shriver JDOL
Abdul-Samad	Jana	Poster*	C	54	Shriver JDOL
Adams	Theresa	Poster	C	80	Shriver JDOL
Agyeman	Victor	Poster	B	89	Shriver JDOL
Allaire	Danielle	Poster*	A	92	Shriver JDOL
Anderson	Nathaniel	Oral*	II	Bystrom	Shriver 3rd Floor
Anderson	Nathaniel	Poster*	B	21	Shriver JDOL
Anderson	Ashlyn	Poster*	C	96	Shriver JDOL
Andrews	Joslyn	Poster*	B	49	Shriver JDOL
Angi-O'Brien	Elizabeth	Poster*	A	15	Shriver JDOL
Archdeacon	Megan	Poster	B	13	Shriver JDOL
Arias	Ben	Poster*	B	01	Shriver JDOL
Armstrong	Karlie	Poster*	B	80	Shriver JDOL
Arnell	Blair	Poster*	C	48	Shriver JDOL
Arvind	Sanchit	Poster	C	44	Shriver JDOL
Ashner	Emily	Poster	A	44	Shriver JDOL
Ashner	Emily	Poster	B	65	Shriver JDOL
Asmah	Samantha	Poster	A	77	Shriver JDOL
Babcock	Annastasia	Poster*	B	08	Shriver JDOL
Bajrami	Silvi	Poster*	B	12	Shriver JDOL
Baker	Cole	Poster	B	92	Shriver JDOL
Baldari	Alexa	Oral	II	Symmes	Shriver 3rd Floor
Bales	Abigail	Poster	A	80	Shriver JDOL
Ball	Mark	Poster	C	85	Shriver JDOL
Ballweg	Savannah	Poster*	C	14	Shriver JDOL

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Baney	Hannah	Poster	A	85	Shriver JDOL
Barker	Vayda	Poster*	C	05	Shriver JDOL
Barker	Rachael	Poster	C	86	Shriver JDOL
Barnes	Sierra	Poster	B	85	Shriver JDOL
Bartram	Rebecca	Poster*	A	51	Shriver JDOL
Bartram	Rebecca	Poster	A	70	Shriver JDOL
Bastian	Caroline	Poster*	A	35	Shriver JDOL
Bean	Lamuel	Poster*	C	83	Shriver JDOL
Beka Binyam	David	Poster	A	13	Shriver JDOL
Belt	Emena	Poster	A	77	Shriver JDOL
Bennington	Brooke	Poster*	C	49	Shriver JDOL
Berry	Briana	Poster	B	89	Shriver JDOL
Bhardwaj	Meeta	Poster	A	11	Shriver JDOL
Biedenham	Allison	Poster	C	91	Shriver JDOL
Biedenbarn	Allison	Poster	A-B-C	94	Shriver JDOL
Bierly	Jennifer	Poster*	C	09	Shriver JDOL
Bishop	Jacob	Poster*	B	61	Shriver JDOL
Blank	Donald	Oral*	II	Bystrom	Shriver 3rd Floor
Blevins	Macie	Poster	C	87	Shriver JDOL
Bobbitt	Katie	Oral*	II	Scott	Shriver 3rd Floor
Boerger	Savannah	Poster*	B	45	Shriver JDOL
Borland	Victoria	Poster*	B	15	Shriver JDOL
Borosky	Bradley	Poster	A	44	Shriver JDOL
Botkin	Brittany	Poster*	C	87	Shriver JDOL
Boyles	Sean	Poster*	C	02	Shriver JDOL
Bradley	Jeffery	Poster*	B	82	Shriver JDOL
Brand	Rachel	Poster*	B	51	Shriver JDOL
Brandabur	Meghan	Poster*	B	72	Shriver JDOL
Brown	Cheyenne	Poster	B	85	Shriver JDOL
Brum	Jared	Poster	A	43	Shriver JDOL
Brzezinski	Emma	Poster*	B	52	Shriver JDOL
Buckingham	Brooke	Poster*	B	29	Shriver JDOL
Burgess	Amanda	Poster	A-B-C	94	Shriver JDOL
Burke	Madeline	Poster*	C	60	Shriver JDOL
Bussell	Robert	Poster	B	44	Shriver JDOL
Caba	Antonia	Poster*	B	79	Shriver JDOL
Cabello	Astrid	Oral*	II	Symmes	Shriver 3rd Floor
Cable	Jana	Poster*	B	09	Shriver JDOL
Cai	Yichao	Poster*	B	28	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
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Callaghan	Margaret	Poster*	B	74	Shriver JDOL
Callahan	Olivia	Poster*	B	78	Shriver JDOL
Campbell	Tiffany	Oral*	I	Scott	Shriver 3rd Floor
Campbell	Lauren	Poster*	A	20	Shriver JDOL
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Carson	William	Poster*	A	91	Shriver JDOL
Carter	Martha	Poster	A	20	Shriver JDOL
Cartheuser	Clare	Poster	A	69	Shriver JDOL
Cartwright	Kayla	Poster*	C	04	Shriver JDOL
Caudill	Hannah	Poster*	A	69	Shriver JDOL
Caudill	Hannah	Poster*	B	L05	Shriver Lobby
Chalke	Arushi	Poster*	C	91	Shriver JDOL
Chan	Denise	Poster	A	70	Shriver JDOL
Chen	Yudan	Poster*	C	57	Shriver JDOL
Cheney	Phoebe	Poster*	B	54	Shriver JDOL
Chetty	Brendan	Poster	A-B-C	94	Shriver JDOL
Childers	Ciara	Poster*	A	13	Shriver JDOL
Choudhury	Zaheer	Poster*	C	95	Shriver JDOL
Chuen	Sydney	Oral*	I	Symmes	Shriver 3rd Floor
Cirkovic	Daniel	Poster*	A	25	Shriver JDOL
Clark	Jessica	Poster*	C	25	Shriver JDOL
Clayton	Callihan	Poster	A	44	Shriver JDOL
Clayton	Delaney	Poster*	B	37	Shriver JDOL
Clearfield	Ethan	Poster	B	18	Shriver JDOL
Cleland	Jessica	Poster	B	26	Shriver JDOL
Cloch	Adam	Oral*	V	Symmes	Shriver 3rd Floor
Cogan	Jamie	Poster	B	87	Shriver JDOL
Colah	Avan	Poster	A	20	Shriver JDOL
Colah	Avan	Poster*	C	20	Shriver JDOL
Cole	Bree	Poster	A	35	Shriver JDOL
Collier	Terra	Poster*	C	44	Shriver JDOL
Collier	Terra	Poster	C	44	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Colliver	Maddie	Poster	C	89	Shriver JDOL
Colson	Crystal	Poster	A	80	Shriver JDOL
Condron	Lily	Poster*	B	57	Shriver JDOL
Coon	Adam	Poster	A	14	Shriver JDOL
Coonfare	Kaleb	Poster	B	25	Shriver JDOL
Corpora	Miranda	Poster*	B	55	Shriver JDOL
Coyne	Mackenzie	Poster	C	91	Shriver JDOL
Creager	Theresa	Poster*	B	90	Shriver JDOL
Creona	Alexis	Poster	B	82	Shriver JDOL
Crookes	Justin	Poster	A	92	Shriver JDOL
Culbertson	Katrina	Poster*	B	13	Shriver JDOL
Culpepper	Abigail	Poster*	A	39	Shriver JDOL
Cunningham	Niya	Poster	A	34	Shriver JDOL
D'Silva	Susanna	Poster	A	22	Shriver JDOL
D'Silva	Susanna	Poster	A-B-C	94	Shriver JDOL
Daman	Nicholas	Poster*	C	65	Shriver JDOL
Danielson	Alex	Poster*	C	37	Shriver JDOL
Dao	Lan	Poster*	C	39	Shriver JDOL
Davidson-Bey	Aaron	Poster	B	92	Shriver JDOL
Deems	Liam	Poster*	A	04	Shriver JDOL
Delacruz	Rupert	Poster	C	64	Shriver JDOL
DeWitt	Laura	Poster*	C	86	Shriver JDOL
Digby	Zachary	Poster*	C	38	Shriver JDOL
Dilbeck	Arden	Poster	B	80	Shriver JDOL
Dobbs	Carrie	Poster*	C	32	Shriver JDOL
Dodd	Elisabeth	Poster*	B	73	Shriver JDOL
Dolecki	Jennifer	Poster*	A	78	Shriver JDOL
Dopirak	Mychael	Poster	B	31	Shriver JDOL
Doran	Evan	Oral*	IV	Scott	Shriver 3rd Floor
Dougherty	Allison	Poster*	A	86	Shriver JDOL
Dulani	Saagar	Poster*	A	85	Shriver JDOL
Dwyer	Alexander	Poster*	C	53	Shriver JDOL
Dziubyk	Laura	Poster*	A	61	Shriver JDOL
Eaton	Adam	Oral*	III	Bystrom	Shriver 3rd Floor
Edison	Megan	Poster*	A	57	Shriver JDOL
Edwards	Sidney	Poster	B	18	Shriver JDOL
Eggert	Adam	Oral*	VI	Bystrom	Shriver 3rd Floor
Eggleton	Lauren	Poster	A	20	Shriver JDOL
Emrick	Sarah	Poster	A	13	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Enders	Alexa	Poster	C	13	Shriver JDOL
Estes	Betty	Poster	B	84	Shriver JDOL
Estridge	Brittany	Poster*	A	18	Shriver JDOL
Everhart	Rachel	Poster	B	90	Shriver JDOL
Eyler	Kelly	Poster	A	78	Shriver JDOL
Ezpeleta	Ashley	Poster	B	65	Shriver JDOL
Fan	Katharine	Poster*	A	55	Shriver JDOL
Fausey	Andrew	Poster*	C	06	Shriver JDOL
Feld	Emma	Poster*	C	64	Shriver JDOL
Fendinger	Nick	Poster*	A	76	Shriver JDOL
Ferguson	Katelyn	Poster*	B	17	Shriver JDOL
Ferguson	Haley	Poster*	B	33	Shriver JDOL
Fernandez	Melanie	Poster*	A	34	Shriver JDOL
Fichtner	Aisha	Poster	A	51	Shriver JDOL
Fichtner	Aisha	Poster	A	70	Shriver JDOL
Fischer	Kyle	Poster	C	47	Shriver JDOL
Fisher	James	Poster*	A	80	Shriver JDOL
Fleiner	Julia	Poster*	C	17	Shriver JDOL
Flint	Jason	Oral*	V	Scott	Shriver 3rd Floor
Fouh	Mireille	Poster*	B	44	Shriver JDOL
Frank	Dillon	Poster*	A	29	Shriver JDOL
Frankel	Jack	Poster*	A	72	Shriver JDOL
Frazee	Taylor	Poster	A	64	Shriver JDOL
Frazier	Isabel	Poster	C	17	Shriver JDOL
Frederick	Allie	Poster*	A	64	Shriver JDOL
Freshkorn	Megan	Poster*	A	50	Shriver JDOL
Fully	Terrence	Poster	A	34	Shriver JDOL
Gadola	Carter	Poster*	C	75	Shriver JDOL
Gadomski	Christina	Poster	A	50	Shriver JDOL
Galiga	Mariana	Poster	A	33	Shriver JDOL
Garbe	Abby	Poster	A	70	Shriver JDOL
Garcia De Jesus	Rebeca	Oral*	IV	Symmes	Shriver 3rd Floor
Gardner	Cameron	Poster*	A	05	Shriver JDOL
Gardner Jr.	Lawrence	Poster*	B	95/96	Shriver JDOL
Gardner Jr.	Lawrence	Oral*	I	Bystrom	Shriver 3rd Floor
Gawrys	Samantha	Poster*	A	03	Shriver JDOL
Gilbert	Benjamin	Poster	A	03	Shriver JDOL
Gilbert	Abbey	Poster	B	80	Shriver JDOL
Golden	Davaughn	Poster	A	35	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Gonzalez	Daniel	Oral*	IV	Bystrom	Shriver 3rd Floor
Graham	Katherine	Poster*	A	40	Shriver JDOL
Gravelle	Julie	Poster*	B	38	Shriver JDOL
Graves	Erin	Poster*	A	16	Shriver JDOL
Gray	Kristen	Poster	C	60	Shriver JDOL
Greenlee	Jourdan	Poster*	A	65	Shriver JDOL
Groome	Abigail	Poster	C	64	Shriver JDOL
Gruenhagen	George	Oral*	VI	Bystrom	Shriver 3rd Floor
Guiot	Nicholas	Poster*	B	68	Shriver JDOL
Gulla	Evelyn	Poster*	A	11	Shriver JDOL
Haidar	Mayah	Poster	B	L05	Shriver Lobby
Hall	Hana	Poster*	B	53	Shriver JDOL
Hall	Bobbie	Poster	B	91	Shriver JDOL
Hallion	Jake	Poster	A	79	Shriver JDOL
Hansen	Clairissa	Poster*	C	24	Shriver JDOL
Harding	Ben	Poster*	A	23	Shriver JDOL
Harris	Sydney	Oral*	IV	Bystrom	Shriver 3rd Floor
Harris	Matthew	Poster*	B	23	Shriver JDOL
Harris	Sydney	Poster*	C	07	Shriver JDOL
Hart	Abby	Poster	B	61	Shriver JDOL
Hayes	Madison	Poster	B	L05	Shriver Lobby
Haynes	Bailey	Poster*	C	93	Shriver JDOL
He	Ze Qin	Poster	B	54	Shriver JDOL
He	Zezhe	Poster*	C	76	Shriver JDOL
He	Yitong	Poster	C	91	Shriver JDOL
Heath	Sarah	Poster*	B	92	Shriver JDOL
Heil	Danielle	Poster*	A	L02	Shriver Lobby
Held	Isabel	Poster*	C	62	Shriver JDOL
Heller	Maddy	Poster	B	57	Shriver JDOL
Helm	Breaysha	Poster*	B	18	Shriver JDOL
Henderson	Amber	Poster*	B	L03	Shriver Lobby
Heng	Gao	Poster	C	64	Shriver JDOL
Henne	Jack	Poster*	A	38	Shriver JDOL
Henry	Stacey	Poster*	A	75	Shriver JDOL
Hicks	Taylor	Oral*	VI	Symmes	Shriver 3rd Floor
Hill	Anna	Poster*	C	43	Shriver JDOL
Hinh	Katie	Oral*	III	Symmes	Shriver 3rd Floor
Hird	Krystina	Poster	C	92	Shriver JDOL
Hoffman	Julia	Poster	A	73	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Hoffman	Megan	Poster	C	89	Shriver JDOL
Hogans	Austin	Poster	A	35	Shriver JDOL
Holbrook	Donna	Poster*	B	84	Shriver JDOL
Hong	Michael	Poster	B	56	Shriver JDOL
Horan	Casey	Poster*	C	19	Shriver JDOL
Horne	Christian	Poster*	B	26	Shriver JDOL
Horney	Danielle	Poster	B	87	Shriver JDOL
Huber	Sarah	Poster	C	88	Shriver JDOL
Hudson	Joseph	Poster	C	85	Shriver JDOL
Huelsman	Connor	Poster*	B	04	Shriver JDOL
Huey	LaShawn	Poster	B	19	Shriver JDOL
Huff	Lillian	Poster*	C	33	Shriver JDOL
Huitger	Andrew	Poster	B	82	Shriver JDOL
Humphrey	Harley	Poster*	C	89	Shriver JDOL
Hyde	Courtney	Poster	C	87	Shriver JDOL
Igel	Megan	Poster	C	80	Shriver JDOL
Jacobs	Elizabeth	Poster*	C	12	Shriver JDOL
Jacques	Isaiah	Poster*	C	26	Shriver JDOL
Jaycox	Colleen	Poster*	A	22	Shriver JDOL
Jelley	Evan	Poster	C	44	Shriver JDOL
Jensen	Katelyn	Poster	A	61	Shriver JDOL
Jiang	Kefeng	Oral*	IV	Bystrom	Shriver 3rd Floor
Johnson	Julian	Oral*	II	Scott	Shriver 3rd Floor
Johnson	Alissa	Oral*	IV	Scott	Shriver 3rd Floor
Johnson	Dana	Poster*	A	42	Shriver JDOL
Johnson	MacKenton	Poster*	C	11	Shriver JDOL
Jones	Sarah	Poster*	B	56	Shriver JDOL
Joyce	Jessica	Poster*	A	06	Shriver JDOL
Judd	Westen	Poster	C	85	Shriver JDOL
Kaffenes	Arete	Poster	B	10	Shriver JDOL
Kalkhof	Trisha	Poster*	C	85	Shriver JDOL
Kammer	Sarah	Poster*	A	37	Shriver JDOL
Kammer	Sarah	Poster*	B	L01	Shriver Lobby
Kappie	Devon	Poster	B	61	Shriver JDOL
Karikas	John	Poster*	B	06	Shriver JDOL
Karikas	John	Poster*	C	L01	Shriver Lobby
Karkiewicz	Amber	Poster	C	43	Shriver JDOL
Kash	Natalie	Poster	A	80	Shriver JDOL
Katko	Andrew	Poster*	B	35	Shriver JDOL

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BY STUDENT LAST NAME

Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Kaufman	Pierce	Oral*	VI	Scott	Shriver 3rd Floor
Kausch	Ian	Poster	A-B-C	94	Shriver JDOL
Kayafas	Aristotle	Poster	C	06	Shriver JDOL
Kelliher	Kailey	Poster*	B	70	Shriver JDOL
Kenkel	Alex	Oral	VI	Scott	Shriver 3rd Floor
Killeen	Richard	Poster*	B	32	Shriver JDOL
Kissner	Kathryn	Poster*	A	01	Shriver JDOL
Kistenfeger	Quinn	Poster*	B	34	Shriver JDOL
Kloster	Alex	Poster*	C	35	Shriver JDOL
Klucznik	Angelina	Oral*	V	Symmes	Shriver 3rd Floor
Kluth	Spencer	Poster	A-B-C	94	Shriver JDOL
Kmentt	Ashleigh	Poster*	A	19	Shriver JDOL
Knitter	Stephen	Poster*	B	25	Shriver JDOL
Kosse	Sarah	Oral*	V	Scott	Shriver 3rd Floor
Kotik	Abbie	Poster	B	19	Shriver JDOL
Kovesdi	Nick	Oral	II	Symmes	Shriver 3rd Floor
Kozuszek	Caleb	Poster	C	65	Shriver JDOL
Krehbiel	Mazie	Poster	B	58	Shriver JDOL
Kreider	Max	Poster*	C	72	Shriver JDOL
Kuhn	Leah	Poster*	C	56	Shriver JDOL
Kuykendoll	Doug	Poster	B	90	Shriver JDOL
LaBelle	Nicole	Poster*	A	33	Shriver JDOL
Ladha	Inaara	Oral*	I	Symmes	Shriver 3rd Floor
Lang	Savannah	Poster*	B	75	Shriver JDOL
Lary	Erin	Poster*	B	42	Shriver JDOL
Latham	Lindy	Poster*	B	14	Shriver JDOL
Laurent	Ashley	Poster	B	06	Shriver JDOL
Le	Gabby	Poster	C	64	Shriver JDOL
Lebedev	Alex	Poster	B	26	Shriver JDOL
Lee	Andrea	Poster*	A	68	Shriver JDOL
Lentz	Taylor	Poster*	C	08	Shriver JDOL
Leonard	Grace	Poster*	A	31	Shriver JDOL
Leonard	Elise	Poster*	C	58	Shriver JDOL
Leveridge	Max	Poster*	C	51	Shriver JDOL
Lewis	Sam	Poster	A	92	Shriver JDOL
Lipps	Audrey	Oral*	V	Bystrom	Shriver 3rd Floor
Liu	Dewei	Poster	B	56	Shriver JDOL
Loeb	Torey	Poster	B	25	Shriver JDOL
Long	Charles	Poster	C	04	Shriver JDOL

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BY STUDENT LAST NAME

Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Lopez	Rosalinda	Poster	B	85	Shriver JDOL
Loveless	Cody	Poster*	C	81	Shriver JDOL
Lu	Weihaio	Oral*	V	Symmes	Shriver 3rd Floor
Luo	Nan	Poster*	A	32	Shriver JDOL
Lutz	Jared	Poster	C	18	Shriver JDOL
Maag	Brianne	Poster*	B	93	Shriver JDOL
Madl	Courtney	Oral*	VI	Symmes	Shriver 3rd Floor
Manolio	Deanna	Poster*	C	45	Shriver JDOL
March	Alexis	Poster*	B	60	Shriver JDOL
Marihugh	Kaylee	Poster	B	54	Shriver JDOL
Marot	Luke	Poster	B	26	Shriver JDOL
Marsh	Jane	Oral	II	Symmes	Shriver 3rd Floor
Martin	Sarah	Poster*	B	46	Shriver JDOL
Martin	Ashley	Poster	C	17	Shriver JDOL
Mason	Rachel	Poster*	A	60	Shriver JDOL
Mason	Kelly	Poster	B	37	Shriver JDOL
Mazursky	Alex	Poster*	B	20	Shriver JDOL
McCain	Jeff	Poster*	A	66	Shriver JDOL
McCoy	Adam	Poster	C	47	Shriver JDOL
McCudden	Tracey	Poster	A	53	Shriver JDOL
McCullough	Finn	Poster	B	25	Shriver JDOL
McElroy	Bryn	Poster*	C	80	Shriver JDOL
McKnight	Kali	Poster	B	01	Shriver JDOL
McLellan	Brendon	Poster	A	79	Shriver JDOL
McMaster	Carter	Oral*	VI	Bystrom	Shriver 3rd Floor
McMath	Arden	Poster	A	54	Shriver JDOL
Melanson	Grace	Poster	B	65	Shriver JDOL
Melberg	Katherine	Oral*	II	Scott	Shriver 3rd Floor
Mendenhall	Emily	Poster*	C	46	Shriver JDOL
Mesmer	Ryan	Poster	A	23	Shriver JDOL
Meyer	Chris	Oral	VI	Bystrom	Shriver 3rd Floor
Meyer	Matthew	Poster	B	25	Shriver JDOL
Mickens	Ashley	Poster*	A	08	Shriver JDOL
Miehl	Elizabeth	Poster*	A	56	Shriver JDOL
Mignery	Grace	Poster	A	55	Shriver JDOL
Miller	Samantha	Poster	A	78	Shriver JDOL
Miller	Abigail	Poster	A	79	Shriver JDOL
Miller	Callie	Poster*	B	36	Shriver JDOL
Miller	Alyssa	Poster	C	05	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Minik	Tom	Poster	C	78	Shriver JDOL
Minshall	Brianna	Poster*	B	16	Shriver JDOL
Minshall	Brianna	Poster	C	60	Shriver JDOL
Minuskin	Kelly	Poster*	C	27	Shriver JDOL
Moe	Maddy	Poster*	C	01	Shriver JDOL
Moffitt	Bre-Anne	Poster	B	87	Shriver JDOL
Mokrenko	Valeria	Poster*	A	30	Shriver JDOL
Molchan	Michael	Poster*	A	45	Shriver JDOL
Moreno	Kathryn	Poster*	C	42	Shriver JDOL
Motley	Ryan	Poster*	B	89	Shriver JDOL
Motley	Lauren	Poster	B	89	Shriver JDOL
Mullee	Sean	Oral*	II	Symmes	Shriver 3rd Floor
Mullen	Natalie	Oral*	VI	Symmes	Shriver 3rd Floor
Mulligan	Meghan	Poster*	C	30	Shriver JDOL
Myers	Kevin	Poster	A	33	Shriver JDOL
Myers	Madelyn	Poster	A-B-C	94	Shriver JDOL
Nader	Austin	Poster*	C	63	Shriver JDOL
Nagaraj	Eashwar	Poster	C	44	Shriver JDOL
Newsome	Eastyn	Poster*	C	18	Shriver JDOL
Newton	Kelsie	Poster*	A	58	Shriver JDOL
Nguyen	Ann	Oral	VI	Scott	Shriver 3rd Floor
Nguyen	Morgan	Poster*	A	L04	Shriver Lobby
Nguyen	Hoang	Poster	A	85	Shriver JDOL
Nordhaus	Brittany	Poster	C	67	Shriver JDOL
Nyiranziza	Esperance	Poster	B	85	Shriver JDOL
O'Connor	Caroline	Poster*	A	53	Shriver JDOL
Oates	Miranda	Poster*	C	L04	Shriver Lobby
Odin	Natalie	Oral*	II	Symmes	Shriver 3rd Floor
Orr	Katherine	Poster*	B	69	Shriver JDOL
Oteng	Samuel	Poster	A	77	Shriver JDOL
Ousley	Briana	Poster*	A	49	Shriver JDOL
Owen	Mary	Oral*	V	Bystrom	Shriver 3rd Floor
Ozdemir	Emel	Poster	A	60	Shriver JDOL
Packett	Jessica	Poster	A	92	Shriver JDOL
Parras	Peter	Poster	A	91	Shriver JDOL
Patel	Mira	Poster	B	57	Shriver JDOL
Patten	Naomi	Poster	C	30	Shriver JDOL
Patterson	Marian Kelley	Oral*	III	Bystrom	Shriver 3rd Floor
Pauken	Sophia	Poster*	B	50	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Peachman	Andrew	Poster*	C	71	Shriver JDOL
Pennington	Sarah	Poster	A	56	Shriver JDOL
Perkins	Jaylen	Poster*	B	63	Shriver JDOL
Pfaff	Jenna	Poster	A	80	Shriver JDOL
Pfeil	Daniel	Poster*	A	12	Shriver JDOL
Phillips	Gil	Poster	B	04	Shriver JDOL
Pinto	Victor	Oral*	I	Bystrom	Shriver 3rd Floor
Pirochta	Cam	Oral	VI	Scott	Shriver 3rd Floor
Porter	Anna	Poster*	B	11	Shriver JDOL
Poth	Justin	Poster*	B	10	Shriver JDOL
Potineni	Nachiket	Oral*	V	Scott	Shriver 3rd Floor
Price	Ryan Kiehl	Oral*	I	Symmes	Shriver 3rd Floor
Pryer	Tone	Poster	B	92	Shriver JDOL
Puente	Dania	Poster*	C	50	Shriver JDOL
Racadio	Andrew	Poster*	B	L04	Shriver Lobby
Radford	Thomas	Poster*	A	09	Shriver JDOL
Raess	Leigha	Poster	C	20	Shriver JDOL
Rafferty	Sophia	Poster*	B	24	Shriver JDOL
Ramsey	Olivia	Poster*	A	74	Shriver JDOL
Randall	Kristina	Oral*	III	Scott	Shriver 3rd Floor
Ratvasky	Emily	Poster*	C	L03	Shriver Lobby
Redmond	Bridget	Poster	A	20	Shriver JDOL
Reed	Garrett	Poster*	B	31	Shriver JDOL
Reed	Haley	Poster	C	87	Shriver JDOL
Reichert	Brent	Oral*	IV	Symmes	Shriver 3rd Floor
Reid	Terry	Poster	C	64	Shriver JDOL
Reist	Elizabeth	Poster	C	86	Shriver JDOL
Reitz	Sarah	Poster	A	91	Shriver JDOL
Renggli	Andrew	Poster*	C	78	Shriver JDOL
Reynolds	Warren	Poster*	A	24	Shriver JDOL
Rhoades	Jeff	Poster	A	91	Shriver JDOL
Riccitelli	Kathryn	Poster*	B	03	Shriver JDOL
Rice	Savannah	Poster*	A	17	Shriver JDOL
Ridder	Megan	Poster*	B	65	Shriver JDOL
Ries	Rosamiel	Poster*	B	48	Shriver JDOL
Roberts	Emma	Poster	B	82	Shriver JDOL
Roberts	Nana	Poster	B	89	Shriver JDOL
Roberts	Laura (Dannie)	Poster*	C	82	Shriver JDOL
Robertson	Hannah	Poster*	A	95	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Robinson	Kelly	Poster	B	84	Shriver JDOL
Rodriguez	Katherine	Poster*	C	66	Shriver JDOL
Rodriguez	Andy	Poster	C	72	Shriver JDOL
Rosenston	Lauren	Poster	A	57	Shriver JDOL
Rosiello	Nicole	Poster*	A	96	Shriver JDOL
Roskin	Dylan	Poster	B	25	Shriver JDOL
Ross	Alexa	Poster*	A	54	Shriver JDOL
Rumph	Jermecka	Poster	C	88	Shriver JDOL
Ryan	Lydia	Poster	B	40	Shriver JDOL
Rybakowicz	Ross	Poster*	A	10	Shriver JDOL
Safer	Brianne	Poster*	B	67	Shriver JDOL
Salerno	Rachel	Poster	A	71	Shriver JDOL
Salyer	Stephanie	Poster*	B	85	Shriver JDOL
Sanders	Bryson	Poster*	C	67	Shriver JDOL
Sass	Trevor	Poster	A	71	Shriver JDOL
Saul	Alessia	Poster*	C	15	Shriver JDOL
Sawyer	Madison	Oral*	II	Symmes	Shriver 3rd Floor
Scally	Hannah	Poster	B	54	Shriver JDOL
Schafer	Austin	Poster	B	07	Shriver JDOL
Schaff	Andrew	Poster*	C	22	Shriver JDOL
Schapker	Nicole	Oral*	I	Scott	Shriver 3rd Floor
Schapker	Nicole	Poster	B	52	Shriver JDOL
Schilling	Garrett	Poster	A-B-C	94	Shriver JDOL
Schlegel	Christopher	Poster*	A	43	Shriver JDOL
Schleicher	Drew	Poster*	C	61	Shriver JDOL
Schlichter	Jacob	Poster*	A-B-C	94	Shriver JDOL
Schmitz	Valerie	Poster*	C	77	Shriver JDOL
Schneider	Jordan	Poster*	A	27	Shriver JDOL
Schuh	Kristen	Poster	A	74	Shriver JDOL
Schultz	Gillian	Poster*	A	62	Shriver JDOL
Schultz	Jacob	Poster*	C	03	Shriver JDOL
Schultz	Kelsy	Poster*	C	13	Shriver JDOL
Schweitzer	Benjamin	Poster*	A	26	Shriver JDOL
Schwinden	Megan	Poster	C	17	Shriver JDOL
Scott	Madison	Poster*	C	41	Shriver JDOL
Serafin	Rachel	Poster*	A	28	Shriver JDOL
Serafin	Rachel	Poster*	B	L02	Shriver Lobby
Serafin	Rachel	Poster*	C	L02	Shriver Lobby
Setters	Joshua	Poster*	A	73	Shriver JDOL

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Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Sexton	Aleah	Oral*	II	Symmes	Shriver 3rd Floor
Shafer	Adam	Poster*	B	15	Shriver JDOL
Shaffer	Benjamin	Poster*	A	L03	Shriver Lobby
Shermis	Nicholas	Poster	B	02	Shriver JDOL
Shiflett	Megan	Poster	C	89	Shriver JDOL
Shoemaker	Zach	Poster	C	64	Shriver JDOL
Short	Audrey	Poster*	C	52	Shriver JDOL
Shorten	Katie	Poster	A	80	Shriver JDOL
Shultz	Madeline	Oral*	III	Symmes	Shriver 3rd Floor
Sidler	Elaine	Oral*	I	Bystrom	Shriver 3rd Floor
Sievering	Kelsi	Poster*	A	36	Shriver JDOL
Sifuentes	Catlin	Poster*	B	49	Shriver JDOL
Sigman	Mackenzie	Poster	A	78	Shriver JDOL
Silber	Rachel	Poster*	A	63	Shriver JDOL
Silverberg	Paige	Oral	II	Scott	Shriver 3rd Floor
Simmons	Amber	Poster*	B	64	Shriver JDOL
Singstock	Mitchell	Poster*	A	L01	Shriver Lobby
Singstock	Mitchell	Poster*	C	40	Shriver JDOL
Skeels	Amy	Poster*	A	70	Shriver JDOL
Slabinski	Victoria	Oral*	III	Scott	Shriver 3rd Floor
Smiley	Samuel	Poster*	B	47	Shriver JDOL
Smith	Stephanie	Oral*	IV	Scott	Shriver 3rd Floor
Smith	Michael	Poster*	A	46	Shriver JDOL
Smith	Rebekah	Poster	B	84	Shriver JDOL
Smith	Nathaniel	Poster	C	85	Shriver JDOL
Smith	Brookelynn	Poster	C	89	Shriver JDOL
Snyder	Ryan	Poster*	C	10	Shriver JDOL
Sonderman	Grace	Poster	A	69	Shriver JDOL
Sone	Sae Hyun	Poster	B	20	Shriver JDOL
Sonntag	Keara	Oral*	VI	Scott	Shriver 3rd Floor
Sove	Callie	Poster	B	90	Shriver JDOL
Spanier	Nicholas	Poster	A	25	Shriver JDOL
Sparks	Joseph	Poster*	B	40	Shriver JDOL
Spieser	Charles	Poster*	C	34	Shriver JDOL
Spoleti	Katie	Poster	B	82	Shriver JDOL
Sprock	Leah	Poster	C	64	Shriver JDOL
Spurgus	Nicholas	Poster	A	29	Shriver JDOL
Spurlock	Julianna	Poster	B	80	Shriver JDOL
Stamper	Laura	Poster	B	90	Shriver JDOL

PRESENTERS INDEX BY STUDENT LAST NAME

Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Starkweather	Sydney	Poster	B	L05	Shriver Lobby
Steimel	Chaney	Poster*	B	87	Shriver JDOL
Stent	Daniel	Poster*	C	55	Shriver JDOL
Stewart	Jamie	Poster*	C	29	Shriver JDOL
Stone	Carmen	Poster*	B	66	Shriver JDOL
Strickley	Braegor	Poster*	B	39	Shriver JDOL
Summers	Kevin	Poster*	B	62	Shriver JDOL
Summers	Kevin	Poster*	C	69	Shriver JDOL
Swartzel	Danielle	Poster	B	84	Shriver JDOL
Tetrick	Jonathan	Poster*	C	47	Shriver JDOL
Thiery	Baylen	Poster	B	40	Shriver JDOL
Thomas	Gwendolyn	Poster*	C	92	Shriver JDOL
Thompson	Sydney	Poster*	A	79	Shriver JDOL
Thompson	Samantha	Poster	B	58	Shriver JDOL
Tillery	Brett	Poster*	C	88	Shriver JDOL
Timmons	Ellie	Poster*	C	L05	Shriver Lobby
Tolson	Shiane	Poster	C	60	Shriver JDOL
Towles	Coleton	Poster	A	20	Shriver JDOL
Towles	Coleton	Poster*	A	21	Shriver JDOL
Tracy	Brendan	Poster	C	64	Shriver JDOL
Tran	Leeann	Poster	C	91	Shriver JDOL
Tressel	Lydia	Poster*	C	21	Shriver JDOL
Trevethan	Mackenzie	Poster	B	65	Shriver JDOL
Trummel	Madelynn	Poster	A	62	Shriver JDOL
Tseng	Benita	Oral*	I	Scott	Shriver 3rd Floor
VanNess	Grant	Poster*	A	07	Shriver JDOL
Vaswani	Sundeep	Poster*	B	91	Shriver JDOL
Vaughn	Claire	Oral*	V	Bystrom	Shriver 3rd Floor
Verghis	Tara	Poster	B	66	Shriver JDOL
Via	Jeremy	Poster*	C	36	Shriver JDOL
Vibbard	Madison	Poster	B	87	Shriver JDOL
Vincely	Vinoin	Oral*	IV	Symmes	Shriver 3rd Floor
Vissers	Carolina	Poster	C	70	Shriver JDOL
Wallace	Sam	Poster	C	08	Shriver JDOL
Wang	Hehe	Poster*	B	30	Shriver JDOL
Wang	Yuexi	Poster*	B	59	Shriver JDOL
Wang	Junyi	Poster	C	57	Shriver JDOL
Waterwall	Austin	Poster*	A	47	Shriver JDOL
Wayman	Makenzie	Poster	B	80	Shriver JDOL

PRESENTERS INDEX BY STUDENT LAST NAME

Last Name	First Name	Type	Poster Session	Poster Number	Building Location
Weaver	Kyle	Poster*	A	14	Shriver JDOL
Weesner	Rachael	Poster*	C	68	Shriver JDOL
Wendel	Leah	Poster	C	88	Shriver JDOL
Wessels	Rhianna	Poster*	A	77	Shriver JDOL
Wetsch	Olivia	Poster*	A	02	Shriver JDOL
Whitaker	Katlyn	Poster	B	54	Shriver JDOL
White	Jennifer	Poster	A	59	Shriver JDOL
White	Aaron	Poster*	B	19	Shriver JDOL
White	Rosanna	Poster	B	90	Shriver JDOL
Whitman	Joy	Poster*	A	48	Shriver JDOL
Wiggins	Timothy	Poster	C	86	Shriver JDOL
Wilkins	Jessica	Poster	C	86	Shriver JDOL
Williams	Amber	Oral*	III	Bystrom	Shriver 3rd Floor
Williams	Aonesti	Poster*	B	02	Shriver JDOL
Williams	April	Poster	C	87	Shriver JDOL
Wilson	Emily	Poster*	B	76	Shriver JDOL
Withrow	Tristen	Poster	B	84	Shriver JDOL
Wolford	Nicholas	Poster	A	L03	Shriver Lobby
Wong	Chong Kai	Poster*	B	22	Shriver JDOL
Woodford	Cassandra	Poster*	A	41	Shriver JDOL
Wyand	Sarah	Poster*	A	67	Shriver JDOL
Wyatt	Emily	Poster*	B	07	Shriver JDOL
Wydra	Rachel	Oral*	VI	Scott	Shriver 3rd Floor
Wyma	Rebecca	Poster*	C	23	Shriver JDOL
Yamada-Killilea	Marie	Poster	B	66	Shriver JDOL
Yan	Yifei	Poster	A	85	Shriver JDOL
Yang	Diya	Poster*	C	28	Shriver JDOL
Yeziarski	Kathryn	Poster*	C	31	Shriver JDOL
Young	Olivia	Poster*	A	44	Shriver JDOL
Yu	Mengyu	Poster*	B	58	Shriver JDOL
Zeis	Carly	Poster	B	03	Shriver JDOL
Zeisler	Addison	Poster*	C	16	Shriver JDOL
Zemper	Jackie	Poster*	B	71	Shriver JDOL
Zheng	Helen	Oral	VI	Scott	Shriver 3rd Floor
Zhou	Qi	Poster	B	57	Shriver JDOL
Ziegman	Jacqueline	Poster*	B	77	Shriver JDOL

Notes

Notes

DO YOU HAVE...

A HIGH
GPA

RESEARCH, SCHOLARLY,
INTERNATIONAL OR
PRE-PROFESSIONAL
EXPERIENCES

FACULTY
MENTORSHIP
LEADERSHIP
ABILITY



THEN YOU MAY BE COMPETITIVE FOR A

NATIONAL FELLOWSHIP

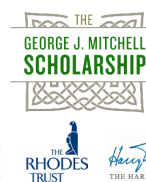


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An invitation from Jerome U. Conley
Dean and University Librarian

Congratulations on presenting your research at Miami University's 24th annual Undergraduate Research Forum. Our University Libraries team commends you for using your time as an undergraduate student to not only learn and grow but also to create and contribute something to the collected knowledge of our world.

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We would like to extend you the opportunity to publish your poster in the Miami Scholarly Commons.

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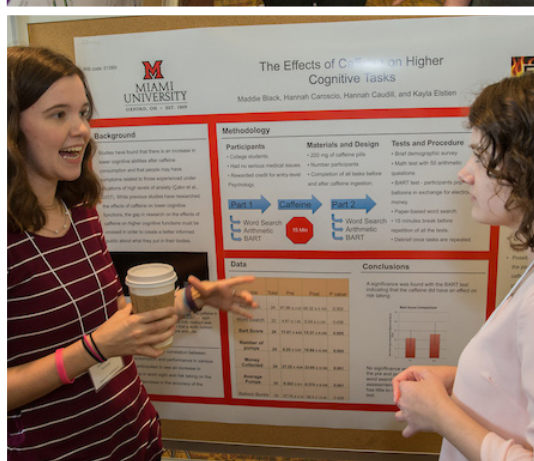
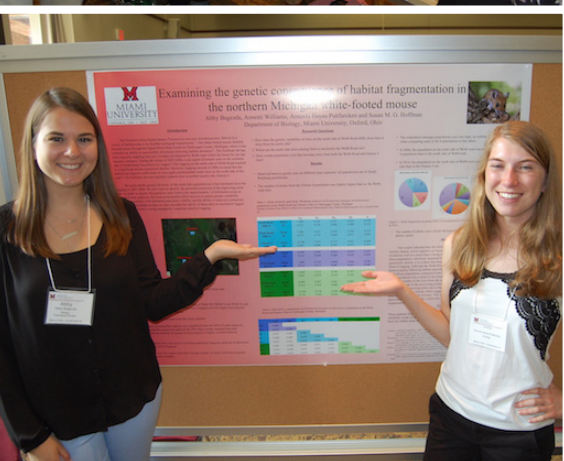
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Sincerely,

Jerome U. Conley
Dean and University Librarian

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