Student as Scholar
24TH ANNUAL UNDERGRADUATE RESEARCH FORUM

MUNI UNIVERSITY 2018
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
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Oral Presentations – Morning Sessions I, II, III

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<td>Session I</td>
<td>9:00 a.m. to 9:45 a.m.</td>
<td>Anna Symmes</td>
<td>Caroline Scott</td>
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<td>Session II</td>
<td>10:00 a.m. to 10:45 a.m.</td>
<td>Anna Symmes</td>
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<td>Session III</td>
<td>11:00 a.m. to 11:45 a.m.</td>
<td>Anna Symmes</td>
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Luncheon
Heritage Room 11:45 a.m. to 1:15 p.m.

UR FORUM LUNCHEON SPEAKERS
12:00 p.m.

Introduction – James T. Oris, Associate Provost and Dean of the Graduate School
Welcome – Gregory P. Crawford, President
Remarks – Phyllis A. Callahan, Provost and Executive Vice President
LAURE award announcement – Lindsay Miller, Assistant Head of Advise & Instruct at the Libraries

Oral Presentations – Afternoon Sessions, IV, V, VI

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<td>Session IV</td>
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<td>Anna Symmes</td>
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<td>Session V</td>
<td>2:30 p.m. to 3:15 p.m.</td>
<td>Anna Symmes</td>
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<td>Session VI</td>
<td>3:30 p.m. to 4:15 p.m.</td>
<td>Anna Symmes</td>
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Poster Sessions (Shriver John Dolibois Rooms)
Over 550 student presenters share the results of their research

Interactive Poster Sessions

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<td>Session C</td>
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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*

**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*

**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*
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*

**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*

**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*
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*

**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*

**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
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

**Anna Symmes**  
**SESSION MODERATOR:** Dana Johnson

**Vinoin 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*
### 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 Hawaiian Participation in Agriculture*
- **Claire Vaughn**, Anthropology Major  
  **ADVISOR(S):** James Bielo, Department of Anthropology  
  *Mopping Space and Place in Religious Tourism*

#### 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*

#### 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*
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*
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*
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 NHES 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 Pfeif, Mechanical Engineering Major  
**Advisor(s):** Paul Harding, Department of Biology  
Sean Taylor, Department of Biology  
HB-EGF and ADAM 12 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)

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**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 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*
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 Bailar, 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 Yezierski, 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
**A35** Caroline Bastian, Art and Architecture History and Arts Management Major  
**Advisor(s):** Brenda Dales, Department of Teacher Education  
Jason Shaiman, Department of Art  
*Caroline Bastian’s Battle of Hearts and Minds*  
*African-American Identity through Collage Illustration*

**A36** Kelsi Sievering, Comparative Religion and Political Science Major  
**Advisor(s):** Nathan French, Department of Comparative Religion  
*An Ideal Jihad? A Critical Reception of Anwar Awlaki’s Battle of Hearts and Minds*

**A37** Sarah Kammer, Comparative Religion and Anthropology Major  
**Advisor(s):** James Hanges, Department of Comparative Religion  
*Why Delphi? Religious Authority at the Site of the Oracle of Apollo*

**A38** Jack Henne, German and Economics Major  
**Advisor(s):** Mila Ganeva, Department of German  
*Beyond the Marshall Plan: American Influences on Postwar Cultures in East and West Germany*

**A39** Abigail Culpepper, French and Linguistics Major  
**Advisor(s):** Larysa Bobrova, Department of English  
*Metaphors We Love By: A Cognitive Linguistic Analysis of Conceptual Metaphors of Love in Metropolitan French and American English*

**A40** Katherine Graham, Gerontology and Women’s, Gender, and Sexuality Studies Major  
**Advisor(s):** Kate de Medeiros, Department of Sociology and Gerontology  
*Living an Age-friendly Life: A Personal Guide*

**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  
*Respect and Social Inclusion in Oxford*

**A42** Dana Johnson, Speech Pathology & Audiology and Gerontology Major  
**Advisor(s):** Kate de Medeiros, Department of Sociology and Gerontology  
*TimeSlips As a Tool for Community Engagement: A Thematic Analysis of Facilitators’ Experiences*

**A43** Christopher Schlegel, Geology Major  
**Advisor(s):** Mark Krekeler, Department of Geology & Environmental Earth Science  
*Beyond the Marshall Plan: American Influences on Postwar Cultures in East and West Germany  

**A44** Olivia Young, Biology Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*FYREflies: An Overview of BIO 103*

**A45** Michael Molchan, Finance Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*Diversity Children’s E-Book*

**A46** Michael Smith, Media and Culture and Theatre Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*Children’s Diversity E-Book*

**A47** Austin Waterwall, Economics and Spanish Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*Undergraduate Research: Displaying Diversity through Children’s Literature*

**A48** Joy Whitman, Early Childhood Education Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*Diversity Children’s E-Book*

**A49** Briana Ousley, Media and Culture and Interactive Media Studies Major  
**Advisor(s):** Monica Adkins, Student Success Center  
*Diversity E-Book*

**A50** Megan Freshkorn, Nutrition Major  
**Advisor(s):** Rebecca Galvin, Department of Kinesiology and Health  
*Effect of Pureed Vegetables in Pasta Dough*
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
A66 Jeff McCain, Chemical Engineering Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
Alcohol Consumption Differences between Marching Band and Non-marching Band Participants

A67 Sarah Wyand, Nutrition and Premedical Studies Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
How Greek Affiliation Plays a Role in Emotional Intelligence

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
Analyzing East Asian International Student Perceptions and Usage of Marijuana and Changes in Alcohol Consumption

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
Visual Analysis of Cultural Inclusiveness in Oral Health Literacy

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
Outcomes of a Garden-based Pilot Study with Children Living in Low-Income Housing Complex

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
Experiencing Regret and Moral Decision Making

A72 Jack Frankel, Psychology and Premedical Studies Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
The Effects of Compulsive Drinking on Nucleus Accumbens Inhibition

A73 Joshua Setters, Biochemistry Major
Julia Hoffman, Psychology Major
Advisor(s): Anna Radke, Department of Psychology
Elizabeth Sneddon, Department of Psychology
Exploring the Effects of Alcohol on Mice in Operant Conditioning

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
Role of Medial Orbitofrontal Cortex in Resistance to Punishment

A75 Stacey Henry, Psychology Major
Advisor(s): Camilla McMahon, Department of Psychology
The Effects of Autism Spectrum Disorder Symptomatology and Diagnostic Disclosure on the Perception of Job Candidates

A76 Nick Fendinger, Psychology Major
Advisor(s): Kurt Hugenberg, Department of Psychology
Paige Lloyd, Department of Psychology
Christina Fitzpatrick, Department of Teacher Education
The Effects of Status on Selective Attention

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
Impact of Early Life Stress on Social Interaction, Anxiety, and Stress-Enhanced Fear Learning
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  
    The Effects of Chronic and Acute Early Life Stress on Behavioral Flexibility and Compulsivity

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  
    The Effects of Early Life Stress and Maternal Buffering on Glucocorticoid Receptor Expression in the BNST

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  
    Yoga & Pregnancy

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  
    Education Job Match: Update

A86  Allison Dougherty, Psychology Major  
    Advisor(s): Barbara Oswald, Department of Social and Behavioral Sciences  
    Fidgeting and Attention in the Classroom

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  
    Communication Is Important, Cells Do It Too: Cellular Signaling in Drosophila melanogaster

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  
    How Fruit Flies Get a Twelve Pack: Genetic Manipulation of the FGF Signaling Pathway in Drosophila

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  
    Magnar, the Cluster A Cowboy: A New Bacteriophage from Microbiology 223/224

A95  Hannah Robertson, Biology and English Creative Writing Major  
    Advisor(s): Andor Kiss, Department of Microbiology  
    Molecular Characterization of the Eye Lens Gamma Crystallins of the Wood Frog Rana Sylvatica
A96  Nicole Rosiello, Spanish and Anthropology Major
Advisor(s): Lisa Weems, Department of Educational Leadership
Spanish-Only Restaurant Workers’ Attitudes
Accessing Healthcare
SESSION A: 10:00 – 11:30 A.M.

Poster Presentation Listing by Poster Number
(See presenter index on pages 40 – 54)

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

SESSION B: 1:30 – 2:45 P.M.

SHRIVER LOBBY
(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  Annastasia 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 Kotlik, 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 a-Helix and an Amphipathic 3-10-Helical Peptide*
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
     **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 Kist enfeger**, Biochemistry and Premedical Studies Major
     Advisor(s): Ann Hagerman, Department of Chemistry and Biochemistry
     **Why Does Acacia Plant Control Methane Production by Cattle?**
B35 Andrew Katko, Biochemistry and Premedical Studies Major
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: Mark Krekeler, Department of Geology & Environmental Earth Science
Great Miami River Spectroscopy Studies

B42 Erin Lary, Geology Major
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
Advisors: 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
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<td>Cooperative Businesses: The Challenges of Recruiting Millennial Talent</td>
<td>Joslyn Andre ws, Marketing and Economics Major Caitlin Sifuentes, Management and Leadership Major</td>
<td>Megan Gerhardt, Department of Management</td>
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<tr>
<td>B50</td>
<td>Refugee Integration in Southwestern Ohio</td>
<td>Sophia Pauken, Anthropology and International Studies Major</td>
<td>Tani Sebro, Department of Anthropology</td>
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<td>B51</td>
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<td>Rachel Brand, Anthropology Major</td>
<td>John Schaefer, Department of Anthropology</td>
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<td>B52</td>
<td>Replication and Extension: Handedness in Termite Fishing among Gombe Chimpzees</td>
<td>Emma Brzezinski, Anthropology and Biology Major Nicole Schapker, Anthropology and Chemistry Major</td>
<td>Linda Marchant, Department of Anthropology</td>
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<tr>
<td>B53</td>
<td>Judicial Blue Slip Process and the Evolution of Senatorial Courtesy</td>
<td>Hana Hall, Political Science Major</td>
<td>Abigail Matthews, Department of Political Science</td>
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<tr>
<td>B55</td>
<td>Emotional Support Animals (ESA)</td>
<td>Miranda Corpora, Social Work Major</td>
<td>Angela Curl, Department of Family Science and Social Work</td>
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<tr>
<td>B56</td>
<td>Grade Sensitivity and Attrition Rates in STEM</td>
<td>Sarah Jones, Economics and Political Science Major Michael Hong, Economics Major Dewei Liu, Economics and Engineering Management Major</td>
<td>Deborah Fletcher, Department of Economics</td>
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<td>B57</td>
<td>Miami Greek Culture: Exploring the Causal Effects of Greek Affiliation on Academic Performance</td>
<td>Lily Condron, Business Economics and Finance Major Maddy Heller, Business Economics and Interdisciplinary Business Management Major</td>
<td>Deborah Fletcher, Department of Economics</td>
</tr>
<tr>
<td>B58</td>
<td>Visualization of the Female Actuarial Research Community</td>
<td>Mengyu Yu, Statistics Major</td>
<td>Tatjana Miljkovic, Department of Statistics</td>
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<td>B59</td>
<td>Approximate Leveraging Methods to Select a Predictive Regression Model for Big Data</td>
<td>Yuexi Wang, Statistics Major</td>
<td>Byran Smucker, Department of Statistics</td>
</tr>
<tr>
<td>B60</td>
<td>What’s In a Name? - A Preliminary Study on Dog Breed Prejudice</td>
<td>Alexis March, Zoology Major</td>
<td>Brielle Johnson, Department of Psychology</td>
</tr>
<tr>
<td>B61</td>
<td>Anticipated Regret in Moral Decision Making</td>
<td>Jacob Bishop, Psychology Major</td>
<td>Amy Summerville, Department of Psychology</td>
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</tbody>
</table>
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  
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B67  Brianne Safer, Psychology Major  
**Advisor(s):** Amanda Diekman, Department of Psychology  
Melissa Fuesting, Department of Psychology  
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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  
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B70  Kailey Kelliher, Strategic Communication Major  
**Advisor(s):** Stephen Siff, Department of Media Journalism and Film  
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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  
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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*
B74 Margaret Callaghan, Diplomacy and Global Politics and Journalism Major
Advisors: 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
Advisors: Stephen Siff, Department of Media Journalism and Film
*AlcoholEdu and Its Impact on College Students*

B76 Emily Wilson, Biology Major
Advisors: Rose Marie Ward, Department of Kinesiology and Health
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B77 Jacqueline Ziegman, Kinesiology Major
Advisors: 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
Advisors: Rose Marie Ward, Department of Kinesiology and Health
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B79 Antonia Caba, Public Health Major
Advisors: Rose Marie Ward, Department of Kinesiology and Health
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B80 Karlie Armstrong, Nursing Major
Makenzie Wayman, Nursing Major
Arden Dilbeck, Nursing Major
Juliana Spurlock, Nursing Major
Nathan Campbell, Nursing Major
Abbey Gilbert, Nursing Major
Advisors: Eyad Musallam, Department of Nursing
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B82 Jeffery Bradley, Nursing Major
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Alexis Creona, Nursing Major
Advisors: Eyad Musallam, Department of Nursing
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B84 Donna Holbrook, Nursing Major
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Advisors: Eyad Musallam, Department of Nursing
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B85 Stephanie Salyer, Nursing Major
Esperance Nyiranziza, Nursing Major
Cheyenne Brown, Nursing Major
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Sierra Barnes, Nursing Major
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   Danielle Horney, Nursing Major
   Madison Vibbard, Nursing Major
   Bre-Anne Moffitt, Nursing Major
   Jamie Cogan, Nursing Major
   Advisor(s): Eyad Musallam, Department of Nursing
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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
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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
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B91 Sundeep Vaswani, Mathematics Major
   Bobbie Hall, Psychology Major
   Advisor(s): Kate de Medeiros, Department of Sociology and Gerontology
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B92 Sarah Heath, Psychology Major
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   Senjooti Roy, Department of Sociology and Gerontology
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B93 Brianne Maag, Psychology Major
   Advisor(s): Elizabeth Kiel, Department of Psychology
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B94 Jacob Schlichter, Zoology Major
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   Amanda Burgess, Microbiology Major
   Advisor(s): Kelly Abshire, Department of Microbiology
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B95/96 Lawrence Gardner Jr., Biology Major,
   Bioinformatics Minor
   Advisor(s): Chun Liang, Bioinformatics Laboratory,
   Department of Biology
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C 01L  John Karikas, Biology Major  
**Advisor(s):** Cameron Hay-Rollins, Department of Anthropology  
Paul Flaspohler, Department of Psychology  
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CL02  Rachel Serafin, Biochemistry Major  
**Advisor(s):** Cameron Hay-Rollins, Department of Anthropology  
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CL03  Emily Ratvasky, Anthropology Major  
**Advisor(s):** Jeb Card, Department of Anthropology  
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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  
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**Alexa Enders**, Biology and Psychology Major  
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C14  **Savannah Ballweg**, Botany and Environmental Science Major  
**Advisor(s)**: Carolyn Keiffer, Department of Biology  
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C15  **Alessia Saul**, Zoology and Environmental Science Major  
**Advisor(s)**: Craig Williamson, Department of Biology  
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C16  **Addison Zeisler**, Biology Major  
**Advisor(s)**: Tereza Jezkova, Department of Biology  
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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  
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C18  **Eastyn Newsome**, Botany Major  
**Jared Lutz**, Biology and Premedical Studies Major  
**Advisor(s)**: Robert Baker, Department of Biology  
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**Advisor(s)**: Michael Vanni, Department of Biology  
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C20  **Avan Colah**, Biology Major  
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**Advisor(s)**: Richard Bretz, Department of Chemistry and Biochemistry  
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C21  **Lydia Tressel**, Botany Major  
**Advisor(s)**: Michael Vincent, Department of Biology  
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C22  **Andrew Schaff**, Microbiology Major  
**Advisor(s)**: Mitchell Balish, Department of Microbiology  
Monica Feng, Department of Microbiology  
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C23  **Rebecca Wyma**, Microbiology and Premedical Studies Major  
**Advisor(s)**: Mitchell Balish, Department of Microbiology  
Nathan Schwab, Department of Microbiology  
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C24  **Clairissa Hansen**, Microbiology Major  
**Advisor(s)**: Mitchell Balish, Department of Microbiology  
*Isha Kalra*, Department of Microbiology  
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C25  **Jessica Clark**, Microbiology Major  
**Advisor(s)**: Rachael Morgan-Kiss, Department of Microbiology  
*Isha Kalra*, Department of Microbiology  
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**Advisor(s):** Rachael Morgan-Kiss, Department of Microbiology  
Zev Cariani, Department of Microbiology  
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C27  Kelly Minuskin, Biochemistry and Neuroscience Major  
**Advisor(s):** Andre Sommer, Department of Chemistry and Biochemistry  
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C28  Diya Yang, Biochemistry Major  
**Advisor(s):** Rick Page, Department of Chemistry and Biochemistry  
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C29  Jamie Stewart, Biochemistry Major  
**Advisor(s):** Rick Page, Department of Chemistry and Biochemistry  
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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  
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C31  Kathryn Yezierski, Chemistry Education Major  
**Advisor(s):** Stacey Lowrey Bretz, Department of Chemistry and Biochemistry  
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C32  Carrie Dobbs, Chemistry Major  
**Advisor(s):** Stacey Lowrey Bretz, Department of Chemistry and Biochemistry  
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C33  Lillian Huff, Chemistry Major  
**Advisor(s):** Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
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C34  Charles Spieser, Biology Major  
**Advisor(s):** Stacey Lowery Bretz, Department of Chemistry and Biochemistry  
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C35  **Alex Kloster**, Biochemistry and Premedical Studies Major  
**Advisor(s):** Dominik Konkolewicz, Department of Chemistry and Biochemistry  
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C36  **Jeremy Via**, Biochemistry and Premedical Studies Major  
**Advisor(s):** Dominik Konkolewicz, Department of Chemistry and Biochemistry  
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C37  **Alex Danielson**, Biochemistry and Music Performance Major  
**Advisor(s):** Dominik Konkolewicz, Department of Chemistry and Biochemistry  
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C38  **Zachary Digby**, Chemistry and Biochemistry Major  
**Advisor(s):** Dominik Konkolewicz, Department of Chemistry and Biochemistry  
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C39  **Lan Dao**, Chemistry Major  
**Advisor(s):** Benjamin Gung, Department of Chemistry and Biochemistry  
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C40  **Mitchell Singstock**, Anthropology and Neuroscience Major  
**Advisor(s):** Suzanne Klatt, Department of Family Science and Social Work  
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C41  **Madison Scott**, History Major  
**Advisor(s):** Andrew Offenburger, Department of History  
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C42  **Kathryn Moreno**, Special Education Major  
**Advisor(s):** Darrel Davis, Department of Educational Psychology  
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**Advisor(s):** Sarah Watt, Department of Educational Psychology  
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**Advisor(s):** Deborah Fletcher, Department of Economics  
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C45  Deanna Manolio, Individualized Studies and Psychology Major  
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C47  Jonathan Tetrick, Finance Major  
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Kyle Fischer, Marketing Major  
**Advisor(s):** Megan Gerhardt, Department of Management  
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C48  Blair Arnell, Business Administration and East Asian Languages and Cultures Major  
**Advisor(s):** Kate de Medeiros, Department of Sociology and Gerontology  
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C49  Brooke Bennington, Sociology and Strategic Communication Major  
**Advisor(s):** Kate de Medeiros, Department of Sociology and Gerontology  
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C50  Dania Puente, Strategic Communication and East Asian Languages and Cultures Major  
**Advisor(s):** Christopher Sutter, Institute for Entrepreneurial Leadership  
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C51  Max Leveridge, Environmental Earth Science and Environmental Science Major  
**Advisor(s):** Amelie Davis, Department of Geography  
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C52  Audrey Short, Biochemistry and Physics Major  
**Advisor(s):** Michael Kennedy, Department of Chemistry and Biochemistry  
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C53  Alexander Dwyer, Biochemistry and Premedical Studies Major  
**Advisor(s):** Michael Kennedy, Department of Chemistry and Biochemistry  
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C55  Daniel Stent, Journalism and Sport Leadership and Management Major  
**Advisor(s):** Stephen Siff, Department of Media Journalism and Film  
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**Advisor(s):** Neil Danielson, Department of Chemistry and Biochemistry  
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**Advisor(s):** Kurt Hugenberg, Department of Psychology  
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**Advisor(s):** Kurt Hugenberg, Department of Psychology  
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**Carolina Vissers**, Biological Physics and Premedical Studies Major  
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C75  **Carter Gadola**, Biology Major  
**Advisor(s):** Randal Claytor, Department of Kinesiology and Health  
Jarod Vance, Department of Kinesiology and Health  
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C76  **Zezhe He**, Media and Culture Major  
**Advisor(s):** Beth Miller, Department of Kinesiology and Health  
Paul Flaspohler, Department of Psychology  
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C77  **Valerie Schmitz**, Kinesiology Major  
**Advisor(s):** Randal Claytor, Department of Kinesiology and Health  
Jarod Vance, Department of Kinesiology and Health  
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C78  **Andrew Renggli**, Kinesiology and Premedical Studies Major  
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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  
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C81  **Cody Loveless**, Biology and Spanish Major  
**Advisor(s):** Rose Marie Ward, Department of Kinesiology and Health  
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C82  Laura (Dannie) Roberts, Kinesiology and Premedical Studies Major
Advisor(s): Rose Marie Ward, Department of Kinesiology and Health
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C83  Lamuel Bean, Public Health Major
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C85  Trisha Kalkhof, Nursing Major
Mark Ball, Nursing Major
Joseph Hudson, Nursing Major
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Nathaniel Smith, Nursing Major
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In Hospitalized Patients, What Is the Best Practice for Foley Catheter Insertion to Prevent Infections?

C86  Laura DeWitt, Nursing Major
Elizabeth Reist, Nursing Major
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C87  Brittany Botkin, Nursing Major
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Sarah Huber, Nursing Major
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Megan Hoffman, Nursing Major
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Brookelynne Smith, Nursing Major
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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
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Krystina Hird, Biochemistry Major
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Advisor(s): Katia Del Rio-Tsonis, Department of Biology
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C94 Jacob Schlichter, Zoology Major
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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
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C96 Ashlyn Anderson, Microbiology and Premedical Studies Major
Advisor(s): Eileen Bridge, Department of Microbiology
Chandramoni Kafle, Department of Microbiology
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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

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Margaret Luongo

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Angela Curl
Suzanne Klatt

Geography
Amelie Davis

Geology and Environmental Earth Science
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Patrick Cullen
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Matthew McMurray
Jennifer Quinn
Anna Radke
Jay Smart
Elizabeth Sneddon
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Byran Smucker

Student Success Center
Monica Adkins
RESEARCH MENTORS

2018 Undergraduate Research Forum

Teacher Education
Brenda Dales

Western Program
Hays Cummins
Jacqueline Daugherty
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

\(^1\)FYRE, DUOS, URA and USS program details available at: http://www.MiamiOH.edu/oru
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 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.
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.
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:

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Edward Kezur Scholarships
Garden Club of Ohio
Gary W. Barrett Research Award Fund
Goldie Nott Student Research Fund
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J. Beldon Dennison Scholar Room Fund
Joseph F. Hogan Research Scholar Fund
Kettering Fund
Madeline and George Shetler Diabetes Research Award Fund
Marjorie C. Britton Fund
Miami Honors Program Student Initiative Fund
Miami Provost Office
Nancy Anderson Brown Honors Program Fund
Susan Roberson Wilson Fund
William Borchers Fund
William and Caroline Stevenson Research Scholar Fund
William Turrell Herbarium Fund
The Cleveland Foundation
The E.F. and Fern F. Patten Student Research Fund
The Gund Foundation
The Ohio Board of Regents

To support undergraduate research at Miami, please contact:
Miami University, Director of Development • 725 East Chestnut • Oxford, OH 45056 • Phone: (513) 529-9260
### 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

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DO YOU HAVE...

A HIGH GPA  RESEARCH, SCHOLARLY, INTERNATIONAL OR PRE-PROFESIONAL EXPERIENCES  FACULTY MENTORSHIP LEADERSHIP ABILITY

THEN YOU MAY BE COMPETITIVE FOR A NATIONAL FELLOWSHIP

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Sincerely,

Jerome U. Conley
Dean and University Librarian

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**Contact Information**

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