23rd ANNUAL
THE RICHARD J. AND MARTHA D. DENMAN
UNDERGRADUATE RESEARCH FORUM

APRIL 3, 2018 | OHIO UNION

The Ohio State University
denman.osu.edu
SCHEDULE

Session 1 Student Registration
8:00-8:45 a.m. | Archie Griffin Ballroom

Session 1 Oral and Poster Presentations
9:00-11:00 a.m. | 3rd Floor Meetings Room and Archie Griffin Grand Ballroom, respectively

Session 2 Student Registration
11:00-11:45 a.m. | Archie Griffin Ballroom

Session 2 Oral and Poster Presentations
12:00-2:00 p.m. | 3rd Floor Meetings Room and Archie Griffin Grand Ballroom, respectively

Session 3 Student Registration
2:00-2:45 p.m. | Archie Griffin Ballroom

Session 3 Oral and Poster Presentations
3:00-5:00 p.m. | 3rd Floor Meetings Room and Archie Griffin Grand Ballroom, respectively

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As a public research university, producing and sharing knowledge that elevates lives is a core part of our mission, and the Denman Undergraduate Research Forum is critical to this. In each one of today’s presentations, you will see the collaboration and innovation that exemplify Ohio State’s long tradition of intellectual curiosity and high-impact scholarship.

The students before you today are living proof that research and creative expression are in our Buckeye DNA. Congratulations to our students and faculty for their hard work and accomplishments. We are proud of their contributions and thank them for continuing Ohio State’s legacy of excellence.

It is my great pleasure to welcome you to the 23rd Annual Richard J. and Martha D. Denman Undergraduate Research Forum. Under the direction of mentors, our nearly 800 participants have carried out collaborative research projects on every continent to tackle local, statewide, national and global issues. We congratulate them as they present on their remarkable endeavors in both poster and podium format throughout today.

I would like to extend my sincere gratitude to Mr. and Mrs. Denman for their longstanding commitment to undergraduate research and scholarship. They are in attendance today, so be sure to give them a warm welcome when you see them. Their shared interests, Ohio roots and lives in Southern California are highlighted throughout the Archie Griffith Ballroom.

This year, we are also spotlighting Denman Forums of 20 and 10 years past; stop by the Denman Forum Historical “Pop-Up” to view photographs and biographies of outstanding presenters from 1998 and 2008. I also invite you to visit the Images of Research + Arts Competition displays located throughout the Ohio Union.

Finally, thank you to our many sponsors, research mentors, volunteers and visitors for your participation and support. I hope you have a wonderful day.

Michael V. Drake, MD
President, The Ohio State University

Lorraine S. Wallace, PhD
Director, Office of Undergraduate Research & Creative Inquiry
Ohio State’s Office of Undergraduate Education is dedicated to providing undergraduate students with opportunities to expand their knowledge; grow as individuals and as part of a community; and be successful in their academic, personal and professional lives. The Denman Undergraduate Research Forum exemplifies these opportunities by engaging undergraduates in the process of discovery and enriching their academic journey.

I would like to thank the many people who have contributed to the success of this important event, including the sponsors whose contributions are key, and the faculty members who provided invaluable expertise, guidance and encouragement to our student presenters.

Congratulations to all of the students participating in this year’s Forum. May this experience inspire you to continue to ask difficult questions and seek new and creative answers.

Beth Hume, PhD
Vice Provost of Undergraduate Studies and Dean of Undergraduate Education

The students at the 2018 Denman Undergraduate Research Forum have experienced the pleasure (and sometimes the pain) that comes as part of the process of new discovery, as well as the pride that comes from making an original contribution to new knowledge.

What they learn by engaging in this process is more than just better understanding of a content area. They also learn skills that will serve them well in whatever pursuit they choose to follow in life: skills of critical questioning, careful design, data collection and analysis, writing, and—and most importantly—how to tell the story of their work to a wide-ranging audience. This engagement in research offers an aspect of education that just can’t be found in a classroom, and it pays dividends over an entire career.

Congratulations to all our presenters, and to the faculty advisors who work so hard to mentor and facilitate the work we celebrate here today. All of your hard work has resulted in a stunning array of accomplishments that represent the best of Ohio State.

Janet M. Weisenberger, PhD
Senior Associate Vice President for Research

Ohio State’s Office of Undergraduate Education has experienced the pleasure and pain that comes as part of the process of new discovery, as well as the pride that comes from making an original contribution to new knowledge. What they learn by engaging in this process is more than just better understanding of a content area. They also learn skills that will serve them well in whatever pursuit they choose to follow in life: skills of critical questioning, careful design, data collection and analysis, writing, and—and most importantly—how to tell the story of their work to a wide-ranging audience. This engagement in research offers an aspect of education that just can’t be found in a classroom, and it pays dividends over an entire career.

Congratulations to all our presenters, and to the faculty advisors who work so hard to mentor and facilitate the work we celebrate here today. All of your hard work has resulted in a stunning array of accomplishments that represent the best of Ohio State.

Janet M. Weisenberger, PhD
Senior Associate Vice President for Research
Marte and I are proud and delighted to welcome you to the 23rd Annual Denman Undergraduate Research Forum, a superlative academic event that showcases research projects by many of Ohio State’s most gifted students. This challenging and intellectually rewarding experience will fundamentally aid them in their preparation for dealing with a rapidly expanding universe of knowledge—knowledge that is changing the face of our world.

It is a life-changing experience for many. Over the years, Marte and I have received hundreds of notes and letters from student participants stating how the Denman Forum opened their minds to the wonderment and value of research. One student wrote: “After attending the Denman Undergraduate Research Forum and experiencing the excitement, I now know and am confident that cancer research is my calling.” Today, the writer of that letter is a cancer researcher at John Hopkins Hospital in Baltimore, Maryland. It is our hope and desire that other student presenters will experience a similar revelation.

The exceptional quality and success of this academic event is attributable to a highly dedicated and high-caliber faculty and staff, and to its gifted, knowledge-seeking students. It is an ongoing learning experience for one and all.

Congratulations!

Rick and Marte Denman
## Session 1: 9:00-11:00 a.m.

### Room 1: Suzanne M. Scharer Room, Third Floor

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>9:00-9:05 a.m.</td>
<td>MODERATOR WELCOME</td>
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<tr>
<td>9:05-9:19 a.m.</td>
<td>George Andrei</td>
<td>Nationality before nationalism: ethnic politics, geopolitics, and the sustainability of the medieval Hungarian Kingdom in the east</td>
</tr>
<tr>
<td>9:20-9:34 a.m.</td>
<td>Harrison Fillmore</td>
<td>A mask for every occasion: how the face mask connects medicine, fashion, and politics in chinese narratives</td>
</tr>
<tr>
<td>9:35-9:49 a.m.</td>
<td>Hannah Tomaszewski</td>
<td>Guatemala, rebuilding a country in the aftermath of violence</td>
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<tr>
<td>9:50-10:00 a.m.</td>
<td>BREAK/MODERATOR WELCOME</td>
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<tr>
<td>10:00-10:14 a.m.</td>
<td>Tyler Webb</td>
<td>The battling Buckeyes of the 37th Infantry Division</td>
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<tr>
<td>10:15-10:29 a.m.</td>
<td>Sarah Landis</td>
<td>Factors influencing preservice teachers’ decision to major in agriscience education</td>
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<tr>
<td>10:30-10:44 a.m.</td>
<td>Samantha Turner</td>
<td>Session notes: Understanding tutor practice in the Writing Center</td>
</tr>
<tr>
<td>10:45-10:59 a.m.</td>
<td>John Taylor</td>
<td>Expanding valence framing: Choosing versus rejecting similarly desired options</td>
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### Room 2: Rosa M. Ailabouni Room, Third Floor

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<td>Kreteeka Chaudhury</td>
<td>1-D tolerance stack automate</td>
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<tr>
<td>9:20-9:34 a.m.</td>
<td>Ishan Mann</td>
<td>Actuation method for a variable stiffness robotic link</td>
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<tr>
<td>9:35-9:49 a.m.</td>
<td>Austin Petsche</td>
<td>A CFD investigation of morphing wing technology on a hybrid, unmanned, aerial and underwater vehicle concept</td>
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<tr>
<td>10:00-10:14 a.m.</td>
<td>Skyler Ware</td>
<td>Improved stability of a C-C bond coupling catalyst for thermal CO2 fixation</td>
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<tr>
<td>10:15-10:29 a.m.</td>
<td>Caroline Miller</td>
<td>Cells on gels: micron-scale polyacrylamide gels for studies on GBM adhesion, morphology, and migration</td>
</tr>
<tr>
<td>10:30-10:44 a.m.</td>
<td>Taylor Dittrich</td>
<td>Microstructural characterization and analysis of OFHC copper VFA weld interface in regards to grain size and orientation</td>
</tr>
<tr>
<td>10:45-10:59 a.m.</td>
<td>Nicholas Crescimanno</td>
<td>Terahertz spectroscopy of strongly frustrated helical magnet Fe3PO4O3</td>
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<tr>
<td>Room 3: Tanya Rutner Hartman Room, Third Floor</td>
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<td>MODERATOR WELCOME</td>
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<tr>
<td>9:05-9:19 a.m.</td>
<td>Bhageerathi Ganesan</td>
<td>Impact of dysferlin constructs on muscle membrane repair in mouse models</td>
</tr>
<tr>
<td>9:20-9:34 a.m.</td>
<td>Scott Gayfield</td>
<td>The effects of troponin I Ser-23/24 phosphorylation on Src mediated Try-26 phosphorylation</td>
</tr>
<tr>
<td>9:35-9:49 a.m.</td>
<td>Allyson Huttinger</td>
<td>Thrombolytic efficacy of von Willebrand factor aptamer in large animal model of carotid occlusion</td>
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<tr>
<td>9:50-10:00 a.m.</td>
<td>BREAK/MODERATOR WELCOME</td>
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<tr>
<td>10:00-10:14 a.m.</td>
<td>Adam Bercz</td>
<td>The role of miR-155 on alveolar type II cellular gene expression during influenza infection</td>
</tr>
<tr>
<td>10:15-10:29 a.m.</td>
<td>Dinushi Kulasekere</td>
<td>The use of injury severity scoring systems to predict treatment processes, costs, and outcomes of spinal trauma patients</td>
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</table>
### ORAL PRESENTATIONS SCHEDULE

**SESSION 1: 9:00-11:00 a.m. (cont.)**

**Room 4: Hays Cape Room, Third Floor**

<table>
<thead>
<tr>
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<tr>
<td>9:05-9:19 a.m.</td>
<td>Ashley Braddock</td>
<td>Regulation and targeting of nucleolin in skin cancer</td>
</tr>
<tr>
<td>9:20-9:34 a.m.</td>
<td>Riley Mullins</td>
<td>Canonical and variant androgen receptor modulation as a hepatocellular carcinoma therapy</td>
</tr>
<tr>
<td>9:35-9:49 a.m.</td>
<td>Jessica Waibl</td>
<td>Transcription factor ETS1 is required for natural killer cell development and maintenance</td>
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<tr>
<td>9:50-10:00 a.m.</td>
<td>BREAK/MODERATOR WELCOME</td>
<td><strong>BREAK/MODERATOR WELCOME</strong></td>
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<tr>
<td>10:00-10:14 a.m.</td>
<td>Nirupama Muralidharan</td>
<td>Tobacco advertising and ID-checking based on store type in Franklin County, Ohio</td>
</tr>
<tr>
<td>10:15-10:29 a.m.</td>
<td>Roshini Srinivasan</td>
<td>Reflections on stress, resilience, mindfulness, and student plans for the future: the impact of an honors resilience course on undergraduate students</td>
</tr>
<tr>
<td>10:30-10:44 a.m.</td>
<td>Maggie Brim</td>
<td>Writing through adolescence: transition and transformation in diary-like writing within young adult literature</td>
</tr>
<tr>
<td>10:45-10:59 a.m.</td>
<td>Radhika Pandit</td>
<td>Somali women’s health project: understanding barriers to preventative health care among Somali immigrants in Columbus, Ohio</td>
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**Room 5: Barbie Tootle Room, Third Floor**

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<tr>
<td>9:05-9:19 a.m.</td>
<td>Kaitie Eipel</td>
<td>Improvement of fine motor skills found in chronic tetraplegia as detected using brain-computer interface-controlled functional stimulation during functional task practice</td>
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<tr>
<td>9:20-9:34 a.m.</td>
<td>Divya Krishnagiri</td>
<td><em>Automatic identification of rod and cone photoreceptors in high resolution retinal images of the living human eye</em></td>
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<tr>
<td>9:35-9:49 a.m.</td>
<td>Henry Wu</td>
<td><em>Model organisms</em></td>
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<td><strong>9:50-10:00 a.m.</strong></td>
<td><strong>BREAK/MODERATOR WELCOME</strong></td>
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<tr>
<td>10:00-10:14 a.m.</td>
<td>Andrew Wilk</td>
<td><em>Effects of habitat patch size on urban salamander population genetics (Plethodon cinereus)</em></td>
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</tbody>
</table>
| 10:15-10:29 a.m.     | Aman Prasad
| Alex Northrup
| Ravleen Kaur
| Olivia Adkins        | *The Pure Water Access Project: demonstrating the unique ability of undergraduates in the global water sector* |
| 10:30-10:44 a.m.     | Kevin Min                      | *CEO characteristics and firm risk*                                                |
## Session 2: 12:00-2:00 p.m.

### Room 1: Suzanne M. Scharer Room, Third Floor

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<tr>
<td>12:00-12:05 p.m.</td>
<td>MODERATOR WELCOME</td>
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<tr>
<td>12:05-12:19 p.m.</td>
<td>Kenji Gerhardt</td>
<td><em>MetaPop: a metagenomic data analysis pipeline for investigating microbial population genetics</em></td>
</tr>
<tr>
<td>12:20-12:34 p.m.</td>
<td>Maya Gosztyla</td>
<td><em>Identifying defects in midline axon guidance using fruit fly natural population lines</em></td>
</tr>
<tr>
<td>12:35-12:49 p.m.</td>
<td>Elizabeth McNamara</td>
<td><em>A genetic model of common, complex disease hints at genomic architecture</em></td>
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<tr>
<td>12:50-1:00 p.m.</td>
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<td><strong>BREAK/MODERATOR WELCOME</strong></td>
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<tr>
<td>1:00-1:14 p.m.</td>
<td>Laine Monsey</td>
<td><em>The association of mannose binding lectin genotype and immune response to Chlamydia pneumoniae: The Strong Heart Study</em></td>
</tr>
<tr>
<td>1:15-1:29 p.m.</td>
<td>Kishan Patel</td>
<td><em>Applied predictive modeling of coronary microvascular disease using coronary doppler and cardiac echocardiography</em></td>
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### Room 2: Rosa M. Ailabouni Room, Third Floor

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<td>12:05-12:19 p.m.</td>
<td>Alexander Crum</td>
<td><em>Dynapenia and the role of motor unit connectivity</em></td>
</tr>
<tr>
<td>12:20-12:34 p.m.</td>
<td>Dylan Beam</td>
<td><em>Intracranial-focused ultrasound surgery: treatment optimization and predicting treatment efficiency</em></td>
</tr>
<tr>
<td>12:35-12:49 p.m.</td>
<td>Amber Moore</td>
<td><em>Mental illness in Tanzania: understanding the impact of history and culture on suicide</em></td>
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<td>12:50-1:00 p.m.</td>
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<tr>
<td>1:00-1:14 p.m.</td>
<td>Darsheed Mustafa</td>
<td>Radical-mediated, one-pot synthesis of oxazoles from alcohols and nitriles</td>
</tr>
<tr>
<td>1:15-1:29 p.m.</td>
<td>Kaushalya Putta</td>
<td>Evaluation of welding methods on the heat affected zone microstructures for coking vessels</td>
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**Room 3: Tanya Rutner Hartman Room, Third Floor**

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<tr>
<td>12:05-12:19 p.m.</td>
<td>Alivia Lahr</td>
<td>Development of a modular ankle-foot orthotic</td>
</tr>
<tr>
<td>12:20-12:34 p.m.</td>
<td>Claire Spech</td>
<td>Lower extremity strength does not correlate with sagittal plane knee mechanics during single leg hop landing in obese youth</td>
</tr>
<tr>
<td>12:35-12:49 p.m.</td>
<td>Rahil Desai</td>
<td>Identifying an AHR-dependent tumor immunity program using patient-derived glioma organoids</td>
</tr>
<tr>
<td>12:50-1:00 p.m.</td>
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<tr>
<td>1:00-1:14 p.m.</td>
<td>Troy Weider</td>
<td>The Alsatian connection: Preserving the cultural heritage of “The Little Alsace of Texas”</td>
</tr>
<tr>
<td>1:15-1:29 p.m.</td>
<td>Calder White</td>
<td>Tune in and let go: tracking movement, sensitivity, and catharsis in the body</td>
</tr>
<tr>
<td>1:30-1:44 p.m.</td>
<td>Kyle Williams</td>
<td>How South Korean pop music (Kpop) has redefined Korean masculinity</td>
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</table>
### ORAL PRESENTATIONS SCHEDULE

#### SESSION 2: 12:00-2:00 p.m. (cont.)

**Room 4: Hays Cape Room, Third Floor**

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<tr>
<td>12:05-12:19 p.m.</td>
<td>Chris Newman</td>
<td>#themfirst: black female slavery and (t)he legacy of an American rape culture</td>
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<tr>
<td>12:20-12:34 p.m.</td>
<td>Thomas Wisbith</td>
<td>From TORCH to Tunisia: the development of allied force headquarters and its general staff officers, from August 1942 - May 1943</td>
</tr>
<tr>
<td>12:35-12:49 p.m.</td>
<td>Margo Geppert</td>
<td>Perception data and its potential effect on business site selection</td>
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<td>1:00-1:14 p.m.</td>
<td>Benjamin Harvey</td>
<td>Spiritus Ex Machina; The rights of autonomous artificial intelligence by 2050</td>
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<tr>
<td>1:15-1:29 p.m.</td>
<td>Theodore Morrow</td>
<td>Solidified phenomena</td>
</tr>
<tr>
<td>1:30-1:44 p.m.</td>
<td>Elizabeth Riggs</td>
<td>Navigating the self in near future science fiction films</td>
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**Room 5: Barbie Tootle Room, Third Floor**

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<td>12:05-12:19 p.m.</td>
<td>Anthony Milian</td>
<td>Past, present, future: developing kinesthetic teaching methodology and choreographing experience</td>
</tr>
<tr>
<td>12:20-12:34 p.m.</td>
<td>Ryan Moore</td>
<td>Remembering political events together: experimental evidence from the collaborative remembering paradigm</td>
</tr>
<tr>
<td>12:35-12:49 p.m.</td>
<td>Allison Susor</td>
<td>Role model effect and girls of color- Building the next generation of leaders</td>
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### SESSION 3: 3:00-5:00 p.m.

**Room 1: Suzanne M. Scharer Room, Third Floor**

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<td>Emily Boes</td>
<td><em>The funeral industry with Jessica Mitford and the Caitlin Doughty</em></td>
</tr>
<tr>
<td>3:20-3:34 p.m.</td>
<td>Oyindamola Bola</td>
<td><em>Preaching vs. speaking: an analysis of the sermons and positionality of afro-sanctified women preachers</em></td>
</tr>
<tr>
<td>3:35-3:49 p.m.</td>
<td>Alejandra Timmins</td>
<td><em>Nuggets of truth and the creative writing process</em></td>
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<tr>
<td><strong>3:50-4:00 p.m.</strong></td>
<td><strong>BREAK/MODERATOR WELCOME</strong></td>
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<tr>
<td>4:00-4:14 p.m.</td>
<td>David Weinraub</td>
<td><em>The influence of gender on decision-making</em></td>
</tr>
<tr>
<td>4:15-4:29 p.m.</td>
<td>Gianna D’Apolito</td>
<td><em>Overcoming barriers in progressive Multiple Sclerosis care at the Ohio State University MS Center using the Donabedian model and innovative early intervention methods</em></td>
</tr>
<tr>
<td>4:30-4:44 p.m.</td>
<td>Sabrina Bulas</td>
<td><em>Efficacy of infliximab treatment as initial or secondary TNF-alpha inhibitor for severe, recalcitrant pediatric uveitis</em></td>
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<tr>
<td>4:45-4:59 p.m.</td>
<td>Thomas Mengesha</td>
<td><em>Clinical phenotypes in patients with concurrent multiple sclerosis and intracranial lipomas: case series</em></td>
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<td>3:00-3:05 p.m.</td>
<td>MODERATOR WELCOME</td>
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<td>3:05-3:19 p.m.</td>
<td>Madeline Marshall</td>
<td><em>The racialized juvenile justice system: a governmentality analysis of youth incarceration and resistance in Ohio</em></td>
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<tr>
<td>3:20-3:34 p.m.</td>
<td>William Plumley</td>
<td><em>You are playing with people’s lives - how city-building videogames represent the public</em></td>
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**SESSION 3: 3:00-5:00 p.m. (cont.)**

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<td>3:35-3:49 p.m.</td>
<td>Allison Martin</td>
<td><em>Reiki therapy for pain management in young children receiving palliative care</em></td>
</tr>
<tr>
<td><strong>3:50-4:00 p.m.</strong></td>
<td><strong>BREAK/MODERATOR WELCOME</strong></td>
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<tr>
<td>4:00-4:14 p.m.</td>
<td>Carley Reinhard</td>
<td><em>The African slave trade, American slaves, and the migration of black mythology</em></td>
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<tr>
<td>4:15-4:29 p.m.</td>
<td>Erin Riddiford</td>
<td><em>Vernacular illusionism in a 16th century book of hours</em></td>
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<tr>
<td>4:30-4:44 p.m.</td>
<td>Zachary Lippman</td>
<td><em>The impact of the Supreme Court on deregulation in the banking industry</em></td>
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<td><strong>MODERATOR WELCOME</strong></td>
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<td>3:05-3:19 p.m.</td>
<td>Daniel Lesman</td>
<td><em>Exon skipping using an AAV-U7snRNA approach and its therapeutic implication for Duchenne Muscular Dystrophy</em></td>
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<td>3:20-3:34 p.m.</td>
<td>James Li</td>
<td><em>Global local folding of the human transcriptome</em></td>
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<tr>
<td>3:35-3:49 p.m.</td>
<td>Michael Chung</td>
<td><em>An interdisciplinary effort to address microgravity-induced skeletal muscle atrophy in astronauts</em></td>
</tr>
<tr>
<td><strong>3:50-4:00 p.m.</strong></td>
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<tr>
<td>4:00-4:14 p.m.</td>
<td>Wilson Flores</td>
<td><em>Autonomous orbital debris tracking using wireless sensor network collaboration</em></td>
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<tr>
<td>4:15-4:29 p.m.</td>
<td>Mark Verosky</td>
<td><em>Thermoelectric combustion chamber for micropower production</em></td>
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<tr>
<td>4:30-4:44 p.m.</td>
<td>Brent Lary</td>
<td>Noble gas approach to the source of hydrocarbons in Gulf of Mexico gas hydrates</td>
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<tr>
<td>4:45-4:59 p.m.</td>
<td>Logan Morris</td>
<td>Power optimization of livestock farms</td>
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<td></td>
<td>Siqi Chen</td>
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**3:00-3:05 p.m.**  
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<td>3:05-3:19 p.m.</td>
<td>Anna Callahan</td>
<td>Are you tanning your colon? The role of cutaneous UVB exposure in colon cancer development</td>
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<td>3:20-3:34 p.m.</td>
<td>Amanda Deighen</td>
<td>Targeting FACT to radiosensitize glioblastoma cancer stem cells</td>
</tr>
<tr>
<td>3:35-3:49 p.m.</td>
<td>Danielle Townsend</td>
<td>The association of clinical trial comprehension on the likelihood to enroll in a randomized clinical trial for cancer treatment</td>
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**3:50-4:00 p.m.**  
**BREAK/MODERATOR WELCOME**

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<td>4:00-4:14 p.m.</td>
<td>Nicholas Clawson</td>
<td>Recognizing the dark sky of a local state park and Its scientific potential</td>
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<td>4:15-4:29 p.m.</td>
<td>Aishwarya Srivastava</td>
<td>Estimation of dark matter halo mass</td>
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<td>4:30-4:44 p.m.</td>
<td>Connor Wagner</td>
<td>Toward a more robust gene expression signature for Alzheimer’s disease neurodegeneration</td>
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<tr>
<td>4:45-4:59 p.m.</td>
<td>Matthew Schneider</td>
<td>Elephant sovereignty: remapping the politics of nature &amp; nation in the Okavango-Zambezi basin</td>
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<td>MODERATOR WELCOME</td>
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<td>3:05-3:19 p.m.</td>
<td>Samantha Beck</td>
<td><em>Undergraduate cardiac arrest internship program leads to well-trained peer-to-peer instructors and increased community CPR training</em></td>
</tr>
<tr>
<td>3:20-3:34 p.m.</td>
<td>Nicholas Yuhasz Gianna D’Apolito Ellie Schwartz</td>
<td><em>Elucidating the epidemic of stem cell tourism: a survey of attitudes and experiences of U.S. academic neurologists dealing with patient’s questions regarding stem cell tourism in the outpatient setting</em></td>
</tr>
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“Primates are our closest living animal relatives, and all 504 species are critically important for the ecosystems they reside in. Unfortunately, 60 percent of those species were threatened with extinction as of 2016. Research on them must continue to raise scientific awareness of their importance on this planet. We must continue to research not only the ways these animals affect our ecosystems, but also ways to ensure their continual coexistence with a growing and developing human population so they are not left behind.”

—Luke Fannin
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“Stigmas associated with mental illnesses may be the largest hurdle in solving the mental health crisis, so it is imperative they are studied. I hope to apply my research to underrepresented and vulnerable communities throughout the world to give a voice to the voiceless and save countless lives in the process.”

—Amber Moore
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Mentor: Ryan Harne

**POSTER 191**
Acute myeloid leukemia: Distinguishing long non-coding RNA DANCR in leukemic stem cells  
Allison Walker  
Mentor: Adrienne Dorrance

**POSTER 192**
Comparison of denture base material processed by the traditional and a two-cycle method  
Gefei Wang  
Mentor: Scott Schricker

**POSTER 193**
Development of a switchable and tunable surfactant drag reducing solution for application in district heating and cooling systems  
Lucas Watson  
Mentor: Jacques Zakin

**POSTER 194**
A user experience study on rover technology  
Lindsey Welch  
Mentor: Jacqueline Loversidge

**POSTER 195**
Survey determining prevalence and intensity of infection of wild bee parasites within Ohio pollinator communities  
Alyssa Wheeler  
Mentor: Reed Johnson
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POSTER 196
Characterization of a bifunctional salvage pathway for byproducts of S-adenosylmethionine metabolism
John Wildenthal
Mentor: F. Robert Tabita

POSTER 197
VWF inhibition by an RNA aptamer improves functional outcome compared to rTPA in ferric chloride-induced carotid artery thrombosis in mice
Jenna Wilson
Mentor: Shahid Nimjee

POSTER 198
Evidence-based nutrition guidelines for head and neck cancers: assessment of clinician awareness and knowledge
Olivia Qi Hui Wong
Mentor: Colleen Spees

POSTER 199
Fish oil supplementation reduces high levels of circulating pro-inflammatory cytokines in older adults with chronic wounds
Sarah Wood
Mentor: Jodi McDaniel

POSTER 200
Characterization of L-plastin’s Bundling Mechanic
Jonathan Wright
Mentor: Dmitri Kudryashov

POSTER 201
Beads as probe of magnetic structure
Gen Xu
Mentor: Christopher Pierce

POSTER 202
Utilizing microscopy techniques to study the growth phase and spatial distribution of fungi and bacteria in carpet and carpet dust
Lingyi Xu
Mentor: Karen Dannemiller

POSTER 203
Advanced materials for outer space application: radiation-resistant perovskite photovoltaic cell
Zeyuan Xu
Mentor: Lei Cao

POSTER 204
State variations in physician capacity to treat opioid dependencies with medication-assisted treatment
Ryan Yoder
Mentor: Wendy Xu

POSTER 205
Five-member ring heterocycles as aged acetylcholinesterase therapeutics
Nathan Yoshino
Mentor: Ryan Yoder

POSTER 206
BabyCHAMP: a preliminary analysis of movement patterns in children with hemiparesis
Emily Young
Brooke Ott
Mentor: Jill Heathcock

POSTER 207
How practical is the Pollard-Strassen Method?
Xinyi Zeng
Mentor: Ghaith Hiary

POSTER 208
Facilitative language techniques and neurocognitive development in preschool children with and without prelingual hearing loss
Maria Zulliger
Mentor: Irina Castellanos

POSTER 225
Market station
Erin Achille
Mentor: Susan Melsop

POSTER 226
Design and implementation of a new biofidelic ATD neck for rear impacts
Jonathon Blank
Mentor: Yun Seok Kang
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**POSTER 227**
*Become, the holistic beauty shop*
Remaile Ferrell  
Mentor: Susan Melsop

**POSTER 228**
*Developing engineering technology to study muscle atrophy*
Wilson Flores  
John Titus  
Sam Sojda  
Mentor: Peter Lee

**POSTER 229**
*Stemming the flow on opioid circulation*
Cecelia Glackin-Hunt  
Mentor: Curtis Haugtvedt

**POSTER 230**
*Stroop and single-leg balance dual task paradigm*
Katie Jira  
Mentor: James Onate

**POSTER 231**
*Parameter development of 4-stack resistance spot welding*
Isaac Luther  
Kate Namola  
Daniel Fishburn  
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**POSTER 232**
*Azo dyes as ionochromic anion indicators*
Sydney McKee  
Mentor: Noel Paul

**POSTER 233-235**
*The National Park Service in its centennial year: a study in five parts*
Christian Moore  
Nick Armstrong  
Jenny Hoppert  
Amanda Knight  
Kevin Maas  
Mentor: Kristi Cheramie

**POSTER 236**
*Automated choke vane design for unsteady transonic wind tunnel*
Jack Plank  
Mentor: James Gregory
“I believe my research will better medical practices by making them more culturally conscious. People who have culturally appropriate medical care have better health outcomes and are happier with the services they receive; I hope my research adds to the ability of medical professionals to serve their patients better.”

—Jordan Royster
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**THINKING ABOUT DOING UNDERGRADUATE RESEARCH?
DENMAN PARTICIPANTS OFFER ADVICE FOR FELLOW STUDENTS.**

Choose or create a project you are excited about. I came into college dreading the honors research project that I eventually had to complete, but it was my favorite and most influential part of my whole undergraduate experience because I created a project that I was extremely interested in and passionate about. For me, that included traveling halfway across the world to conduct my research.

—TAYLOR KLAS

Do not get discouraged just because your experiment does not work the first time. Know that research rarely goes as planned, and there are often many failures before success. Be persistent and do not give up on pursuing your goals. Getting involved in research is a life-changing experience and has so many benefits.

—MARGARET MOODISPAW

I recommend seeking research opportunities outside your field of study. As a biology major and aspiring medical professional, I have broadened my views and knowledge through my research in the social and behavioral sciences, and have a greater appreciation for psychological and sociological health factors. Choosing research in a different field has given me immense opportunities for growth, and I would encourage other students to consider doing the same.

—JILLIAN HARRINGTON

Find what you love. Simply selecting a research position for the sake of “resume-building” is never as fulfilling as one that truly piques your interests. Seize the boundless opportunities OSU has to offer and allow ample time to sample from the wealth of undergraduate research before settling on a position that drives you to dig deeper, think bigger and make an impact.

—SABRINA BULAS

Start asking questions and never stop. Ohio State is full of professors looking for motivated students to join their research teams. If you don’t know what type of research you want to do, asking your professors about their work is a great way to get a sense of what you might like. If you do know what you want to do, get on the department’s website, find a professor who works in that domain, and start sending them emails now. I mean, stop reading this right now and go send them an email.

—JACKSON KILLIAN
Session 2 Students by Poster Number

POSTER 1
Optical mapping to define functional features of human reentrant atrial fibrillation driver regions in explanted human hearts
Suhaib Abudulwahed
Mentor: Vadim Fedorov

POSTER 2
Role of phosphorylation in regulation of cancer biomarker plastin 2 activity
Richa Agrawal
Mentor: Dmitri Kudryashov

POSTER 3
Texture estimation from discrete orientation data using bingham distribution
Carl Ahlborg
Mentor: Stephen Niezgoda

POSTER 4
Machine learning in detecting ultra-high energy neutrinos
Abdullah Alhag
Mentor: Amy Connolly

POSTER 5
The relationship between the gross motor functional measure and the Bayley Scales of Infant Development in infants with Cerebral Palsy
Madison Allen
Mentor: Jill Heathcock

POSTER 6
Mapping and confirming new genes in Arabidopsis involved in formation of distinct cellular domains on pollen surface
Prativa Amom
Mentor: Anna Dobritsa

POSTER 7
Pregnancy and the effects of exercise: a systematic review
Kassidy Ams
Mentor: Judith Tate

POSTER 8
Effects of atherosclerosis in LDLR eGFP mice on western diet
Kajol Anandani
Mentor: Willa Hsueh

POSTER 9
Are black women more likely than white women to use religion as a source of support when dealing with high breast cancer risk?
Melissa Angeli Reyes
Mentor: Tasleem Padamsee

POSTER 10
Development and characterization of a children’s beverage using by-products from the dairy industry.
Ayna Arora
Mentor: Rafael Jimenez-Flores

POSTER 11
Seabird conservation and censusing in the antarctic region: a systematic overview
Joanne Ash
Stephen Jarrell
Chelsie Galo
Nikki Vehar
Mentor: Lawrence Krissek

POSTER 12
Central immune alterations in a gestational stress model of postpartum depression
Paul Banta
Mentor: Benedetta Leuner

POSTER 13
The structural fate of spliced tRNA introns: linear or circular
Alicia Bao
Mentor: Anita Hopper

POSTER 14
Conceptual evaluation of radon propellant for ion thrusters
Brennan Barrington
Mentor: John Horack

POSTER 15
Ages for low mass field stars
Connor Basinger
Mentor: Donald Terndrup
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Karthik Chakravarthy  
Mentor: Lawrence Kirschner

**POSTER 32**  
Simulating UAV ingestion by a turbofan engine using LS-DYNA  
Ian Chamberlain  
Mentor: Kiran D’Souza

**POSTER 33**  
Design and build a transformation mechanism for a quadruped robot  
Yupeng Cheng  
Mentor: Haijun Su

**POSTER 34**  
Consequences of different attitudes on portrayal of people  
Jin Cho  
Mentor: Richard Petty

**POSTER 35**  
Converting natural gas to H2 using high pressure chemical looping  
Tyler Christeson  
Kate Clelland  
Mentor: Liang-Shih Fan

**POSTER 36**  
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Pierce Ciccone  
Mentor: Jill Rafael-Fortney

**POSTER 37**  
Exploration of cultural discipline as a contributing factor to communal stress in African American adults in The Near East Side of Columbus, Ohio  
Morgan Ciehanski  
Mentor: Elizabeth Fitzgerald

**POSTER 38**  
The effects of perceptually rich stimuli on pre-algebraic pattern thinking in preschoolers  
Sydney Clark  
Mentor: Vladimir Sloutsky

**POSTER 39**  
Inhibition of micro-RNA 126 to prevent Kasabach-Merritt Phenomenon in endothelial cell tumors  
Emma Clark  
Mentor: Gayle Gordillo

**POSTER 40**  
Risk of malnutrition using the MST screening tool criteria in patients with closed head injuries and spinal cord injuries  
Madisen Clifton  
Mentor: Marcia Nahikian-Nelms

**POSTER 41**  
Mainstreaming intergenerational care  
Kelly Cohen  
Mentor: Shannon Jarrott

**POSTER 42**  
The role of the spermathecae in females of the Northern House Mosquito, Culex pipiens  
Victoria Colin  
Mentor: Megan Meuti

**POSTER 43**  
Two-dimensional motion analysis of lower extremity frontal plane movement following neuromuscular training after anterior cruciate ligament reconstruction  
Michael Collins  
Mentor: Stephanie Di Stasi

**POSTER 44**  
Intersectionality of race and gender in higher education: the plight of the African-American woman at a predominantly white institution (PWI).  
Candace Cooper  
Mentor: Carla Curtis

**POSTER 45**  
Changes in diet and dental health in the San Pedro de Atacama Oases  
Bronte Cunningham  
Mentor: Mark Hubbe

**POSTER 46**  
Linguistic, talker, and stimulus factors as predictors of dialect classification accuracy  
Megan Dailey  
Mentor: Cynthia Clopper
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Effects of branched chain volatile fatty acid or branched chain amino acid supplementation on fiber degradation and bacterial fatty acid profile in vitro
Mikaela Disbennett
Mentor: Jeffrey Firkins

POSTER 49
The persuasion of ambivalence
Lydia Drake
Mentor: Vanessa Sawicki

POSTER 50
Developing a mathematical model for the opioid epidemic in Columbus, Ohio
Ashley Dundon
Mentor: Ayaz Hyder

POSTER 51
Comparative biochemical studies of kinases and glycozymes that convert Amadori products to common energy-yielding metabolites
Daniel Dyszlewski
Mentor: Venkat Gopalan

POSTER 52
Traumatic brain injury causes formation of unique rod microglia that are proinflammatory, align along injured dendrites, and promote astrogliosis
Julia Dziablis
Mentor: Jonathan Godbout

POSTER 53
Meningococcal disease and its importance at university institutions
Mikafui Dzotsi
Mentor: Randall Harris

POSTER 54
Characterization of an inducible CD4+ T cell-specific PRMT5 knockout mouse model
Claudia Edell
Mentor: Mireia Guerau

POSTER 55
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Ruba Elzein
Mentor: Rebecca Garabed

POSTER 56
Social capital among those experiencing housing hardship
Brooke Epstein
Mentor: Katie Maguire-Jack

POSTER 57
Mechanisms of disruption size dependent membrane repair in mammalian cells
Andrew Fernandez
Mentor: Noah Weisleder

POSTER 58
Augmented reality training to reduce battlefield deaths
Simon Fernandez
Mentor: Emily Patterson

POSTER 59
Nucleolar localization of the Blm Helicase affects Organismal Size and Intestinal Tumorigenesis
Max Fernandez
Mentor: Joanna Groden

POSTER 60
Application of thermo-responsive polymer to the development of a velocity-dependent cell-sorting microdevice
Jesse Fine
Mentor: Daniel Gallego-Perez

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Power in numbers: patient contact improves successful referrals
Alyssa Fogolin
Reid Palumbo
Linda Agbalevu
Mentor: Nina Hill

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Jonathan Foltz
Mentor: Zakee Sabree

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Carlie Francis
Mentor: Sashwati Roy
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**POSTER 64**
Rotational parameters from vibronic eigenfunctions of Jahn-Teller active molecules
**Scott Garner**
Mentor: Scott Miller

**POSTER 65**
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**Luke Genutis**
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Effect of sulfur-containing dopants on filling efficiency for conducting polymers
Victoria Yee
Mentor: Vishnu Sundaresan

**POSTER 220**
Mechanical analysis of endotracheal tube kinking
Emily Young
Mentor: Tanya Nocera

**POSTER 221**
Development of LiNi0.5Mn1.5-xTixO4 as an advanced cathode for lithium-ion batteries
Ge Zhu
Mentor: Jung-Hyun Kim

**POSTER 222**
Social support and physiological dysregulation in elderly Kuwaitis
Katherine Znidarsic
Mentor: Douglas Crews

**POSTER 223**
Protein engineering for improved split intein purification
Maria Znidarsic
Olivia Krebs
Matt Haynam
Mentor: David Wood

**POSTER 224**
Mathematical modeling of dynamic behavior of human neural stem cells (hNSCs) in neurospheres
Tushar Goswami
Mentor: Jaime Imitola

**POSTER 225**
Optimization of transplantation protocols for the endangered species, running buffalo clover
Jonathan Kubesch
Mentor: David Barker

**POSTER 226**
Moms makin’ moves: an exploration of the needs of single mothers in Franklinton, Ohio
Libby Riddell
Mentor: Susan Melsop

**POSTER 227**
The development of evolved, an exhibition on human evolution
Abigail Sarver-Verhey
Mentor: Mark Hubbe

**POSTER 228**
Analysis of traffic related pollution through low cost mobile air quality sensors
Emma van Dommelen
Mentor: Andrew May

**POSTER 229**
An exploration on interior designs ability to supplement existing opiate addition recovery
Jonathan Wallace
Mentor: Susan Melsop

**POSTER 230**
Chorus: coordinating data across multi-device data visualizations
Stephen Wu
Mentor: Arnab Nandi

**POSTER 231**
The Responsibility to Protect: UNSC’s Restrained Attitude Towards the Rohingya Refugee Crisis
Xuan Yang
Mentor: Erin Lin

**POSTER 232**
Creating a moving history in the light of difference
Erin Yen
Mentor: Daniel Roberts
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Eaman Abay
Mentor: Mark Ziolo

POSTER 2
The complex relationship between resting heart rate variability and distress tolerance
Sogand Abbasi
Mentor: DeWayne Williams

POSTER 3
The role of the zinc finger protein ZAS3 in mammary tumor progression
Alaa Al-hindi
Mentor: Lai-Chu Wu

POSTER 4
Stability and control of amputee-walking on slopes
Aya Alwan
Mentor: Manoj Srinivasan

POSTER 5
Breast cancer survivor’s depression and heart rate variability: risks for heightened pain sensitivity
Raisa Amin
Mentor: Janice Kiecolt-Glaser

POSTER 6
Key skills and attributes desired of undergraduate business hires
Elena Arida
Mentor: Ralph Greco

POSTER 7
Does feeding and reduced light mitigate elevated temperature stress in coral?
John Armstrong
Mentor: Andréea Grottoli

POSTER 8
Computational simulation of flow in the interior of a supersonic gas separator
Breno Avancini

POSTER 9
FGFR2-CLIP1 fusion and N550H mutation: properties of drug resistance and up-regulated pathways
Kaitlin Baker
Mentor: Sameek Roychowdhury

POSTER 10
The long-term residual effects of low intensity vibration on remodeling of trabecular bone in murine femurs
Megan Balgemann
Mentor: Richard Hart

POSTER 11
The effect of concentration change on heat transfer in drag-reducing solutions
Robert Balli
Mentor: Jacques Zakin

POSTER 12
Characterization of the novel KLK2-FGFR2 fusion in prostate cancer
Hannah Barker
Mentor: Sameek Roychowdhury

POSTER 13
Hands-only cardiopulmonary resuscitation program peer training yields increased knowledge and familiarity
Alexis Benisek
Mentor: Ashish Pachal

POSTER 14
Predicting spending behavior of universities
Will Beyer
Mentor: Bruce Weinberg

POSTER 15
Can roadsides function as bumblebee habitat?
Audrey Bezilla
Mentor: Jessie Lanterman

POSTER 16
The teleology of trauma: how haruki murakami shapes narratives and their methods in creating and understanding trauma
Noah Blacker
Mentor: Amy Shuman
Session 3 Students by Poster Number

POSTER 17
Topically administered imiquimod induces systemic autoimmunity in humanized NSG mice
Perry Blough
Armin Munir
Emma Dalan
Mentor: Wael Jarjour

POSTER 18
Analyzing racial wage gaps in university faculty
Olamide Bola
Mentor: Bruce Weinberg

POSTER 19
Effects of hacking an unmanned aerial vehicle connected to the cloud
Meghan Booker
Mentor: Abhishek Gupta

POSTER 20
Synergistic targeting of pediatric solid tumors with BRD4 and AURKA inhibitors as dual drugs
Emily Bopp
Mentor: Nilay Shah

POSTER 21
Determination of oxygen fugacity using olivine-melt equilibrium: implications for the redox states of volcanic arc basalt mantle source regions
Seth Bryson
Mentor: Michael Barton

POSTER 22
Estimating seasonal avian diversity in an urban wetland in Columbus, Ohio.
Kaitlin Carr
Mentor: Christopher Tonra

POSTER 23
Risk taking as a function of delusion proneness
Charles Cayton
Mentor: Melissa Buelow

POSTER 24
Modulation of hydraulic permeability in a microfluidic model of the tumor stroma
Jonathan Chang
Mentor: Jonathan Song

POSTER 25
Impact of sharing economy engagement on environmental efficiency of well-being scores of Clintonville and Olde Towne East residents in Columbus, Ohio
Sophie Chang
Mentor: Jeremy Brooks

POSTER 26
Engineering solid-electrolytes/electrode interfaces for all solid-state lithium-ion batteries
Junbin Choi
Mentor: Jung-Hyun Kim

POSTER 27
Examining the “no-choice” option in choice-based conjoint analysis
Maggie Chwalek
Mentor: Greg Allenby

POSTER 28
Novel enhanced recovery after surgery pathway significantly reduces length of stay in adolescent idiopathic scoliosis patients undergoing posterior spinal fusion
James Clark
Mentor: Michael Albert

POSTER 29
Using cross-sectioning and embedding techniques to quantify proteins and polysaccharides in a biologically fouled crossflow membrane
Samuel Corbin
Mentor: Linda Weavers

POSTER 30
Examining carry-over effects in resident and migratory sparrows using feather corticosterone
Adam Cupito
Mentor: Chris Tonra

POSTER 31
Mapping fentanyl overdose fatalities in Franklin County, Ohio from 01/01/2016-06/30/2017
Cristin Day
Mentor: Julie Field
POSTER 32
Utilizing a city brand to inform investment and economic development
Maria de Caris
Mentor: Kyle Ezell

POSTER 33
Characterizing the role of the nuclear factor-kappa B signaling pathway on the formation and proliferation of Müller glia-derived progenitor cells in the chick retina.
Kyle Deistler
Mentor: Andy Fischer

POSTER 34
Biblio-archaeology: a codicological inventory, condition survey and preservation needs assessment of pre-modern codices and incunabula in the rare books and manuscripts collection of the OSU Libraries
Danielle Demmerle
Mentor: Eric Johnson

POSTER 35
A descriptive study on communication skills of first year undergraduate respiratory therapy students
Connor Divens
Emma Sturbleng
Haley Rohaley
Mentor: Rebecca Oppermann

POSTER 36
Moisture impact on LiNiMnCo1-x-yO2 as cathode materials for lithium-ion batteries
Liang Dong
Mentor: Jung Hyun Kim

POSTER 37
In-situ characterization of collagen mineralization using atomic force microscopy
Zhengyang Du
Mentor: Hanna Cho

POSTER 38
Pre-clinical tipifarnib activity in cutaneous T-cell lymphoma
Joanne Du
Mentor: Anjali Mishra

POSTER 39
Thread spray of cytochrome c
George Durisk
Mentor: Abraham Badu-Tawiah

POSTER 40
Comparative analysis of Salmonella enterica serovar Typhi isolates from acute and chronic infections
Bradley Eichar
Mentor: John Gunn

POSTER 41
Optimizing spell checking introduction
Sarah Ewing
Mentor: Michael White

POSTER 42
Role ATF3 and chemotherapy in cancer cell colonization and metastasis
Jared Fehlman
Mentor: Tsonwin Hai

POSTER 43
Video frame interpolation
Chuhan Feng
Mentor: James Davis

POSTER 44
MicroRNA profile of human macrophages infected with Leishmania (L.) amazonensis
Juliane Fernandes

POSTER 45
Binding affinities of functional groups to metal cations
Michelle Fiamingo
Mentor: Heather Allen

POSTER 46
Effects of optimism on coping strategies and health outcomes in women with gynecologic and breast cancer undergoing chemotherapy
Kendall Fugate-Laus
Mentor: Kristen Carpenter
Session 3 Students by Poster Number

POSTER 47
A generalized, Bayesian method for linking structural connectivity to models of functional neural data and behavior.
Matthew Galdo
Mentor: Brandon Turner

POSTER 48
Role of miR-210 on macrophage polarization in wound microenvironment
Summer Gallentine
Mentor: Sashwati Roy

POSTER 49
Investigation of reciprocity in the millimeter wave channel
Ahmed Almostafa Gashgash
Mentor: Can Emre Koksal

POSTER 50
Effect of pH and temperature on the metabolic physiology of the Hawaiian coral Porites compressa
Katherine Giesy
Mentor: Andrea Grottoli

POSTER 51
Hair cortisol as a biomarker of chronic stress
Elizabeth Gilbert
Mentor: Catherine Calder

POSTER 52
Identification of protein components of the cytoplasmic capping complex using proximity-dependent biotinylation
Andrew Gilmier
Mentor: Daniel Schoenberg

POSTER 53
A comparison of weight status differences in meeting AICR recommendations for dietary intake of plant and animal foods
Madisyn Good
Mentor: Chris Taylor

POSTER 54
Ethanol steam reforming on nickel-cerium oxide catalysts
Joshua Graham
Mentor: Robert Baker

POSTER 55
Knee loading asymmetries during a double-leg squat exist at 3 months but not 6 months after pediatric anterior cruciate ligament reconstruction
Gina Gugliotta
Mentor: Laura Schmitt

POSTER 56
Maternal exercise improves metabolic health of offspring through adaptations to breastmilk
Johan Harris
Mentor: Kristin Stanford

POSTER 57
Students’ perceptions of the academic impact of mental illness: Comparing two cohorts across time
Kristen Hehman
Mentor: Jill Clutter

POSTER 58
Contrast enhanced magnetic resonance imaging of atrial fibrosis to aid in targeted ablation of atrial fibrillation: The most common arrhythmia in the U.S.A.
Katelynn Helfrich
Mentor: Vadim Fedorov

POSTER 59
First-person visual imagery perspective increases the effect of priming on judgment
Katrina Henderson
Mentor: Lisa Libby

POSTER 60
The influence of defect location on sagittal plane gait mechanics in individuals with knee articular cartilage defect.
Carl Higbea
Mentor: Laura Schmitt

POSTER 61
The carbon footprint of “ecotourism” in the Antarctic
Andrew Holden
Caroline Gaker
Mentor: Thomas Davis
Session 3 Students by Poster Number

POSTER 62
Wee-1 kinase inhibitor AZD-1775 radiosensitizes esophageal
Andrew Hu
Mentor: Linlin Yang

POSTER 63
Mental time travel and construal level associations: Functional past- and future-directed thinking
Kathleen Hudson
Mentor: Kentaro Fujita

POSTER 64
GlcNAc conjugated atorvastatin with enhanced water solubility and cellular internalization
Justin Jiang
Mentor: Yizhou Dong

POSTER 65
Reb1 is a pioneer factor that dynamically regulates nucleosomal DNA accessibility
Caroline Jipa
Mentor: Michael Poirier

POSTER 66
Cardio-oncology: the mechanism of tyrosine kinase inhibitor-induced heart failure
Cody Justice
Mentor: Sakima Smith

POSTER 67
Synthesis and characterization of piezoelectric porous membrane support
Shoko Kanemoto
Mentor: Hendrik Verweij

POSTER 68
Light at night exacerbates metabolic abnormalities in a polygenic rodent model of Type 2 diabetes mellitus
Serena Kaul
Mentor: Zachary Weil

POSTER 69
PRMT5 inhibitors in the re-expression of fetal hemoglobin
Kaylin Kavanaugh
Mentor: Rosa Lapalombella

POSTER 70
Development of indentation to impact toughness relationships applied to temper bead qualification
Daniel Keffer
Mentor: Boeing Smith

POSTER 71
Inducible knockout of PRMT5 results in suppression of inflammatory T cell proliferation and differentiation
Austin Kennemer
Mentor: Mireia Guerau-de-Arellano

POSTER 72
Color characteristics of gelatin gummies colored with acylated anthocyanins
Siti Fatimah Binti Khairuddin
Mentor: M. Monica Giusti

POSTER 73
Phosphorylation of tyrosine 705 residue but not serine 727 residue is critical for stability of Stat3 protein
Hee Kyung Kim
Mentor: Bhuvaneswari Ramaswamy

POSTER 74
Recovery and lithologic analysis of sediment from Hole UT-GOM2-1-H002 and H005, Green Canyon 955, northern Gulf of Mexico
Nikki Kinash
Mentor: Ann Cook

POSTER 75
Measuring the effects of cattle ranching on forest island structure and mammal/nocturnal bird populations in the Bolivian Beni Savanna
Johnathan King
Mentor: Matt Davies

POSTER 76
Functional analysis of the telomere (TLO) expanded gene family in Candida albicans
Griffin Kinney
Mentor: Matthew Anderson
Session 3 Students by Poster Number

POSTER 77
A transdisciplinary review of opioid use models
Sophia Kiselova-Sammons
Hannah Piscalko
Mentor: Kathryn Lancaster

POSTER 78
The preparation of quinone methide precursors to re-alkylate aged acetylcholinesterase
Ravali Kode
Mentor: Christopher Callam

POSTER 79
Using digital PCR in the detection of microorganisms in house dust
David Kormos
Mentor: Karen Dannemiller

POSTER 80
Emerging growth companies’ performance under the JOBS Act
Michael Korn
Mentor: Michael Schwert

POSTER 81
The impact of individual differences across two AAC systems
Michelle Kryc
Mentor: Allison Bean-Ellawadi

POSTER 82
Long-term residual benefits of LIV therapy on murine cortical bone
Kyle Kuchynsky
Mentor: Richard Hart

POSTER 83
Physical activity delays development of obesity-induced pancreatic ductal adenocarcinoma in mice
Ali Lahooti
Mentor: Zobeida Cruz-Monserrate

POSTER 84
Effects of 5’ heterogeneity on the structure of the HIV-1 5’ untranslated region
Luke Lamorelle
Mentor: Karin Musier-Forsyth

POSTER 85
In vitro analysis of mushroom proteases that may tenderize beef
Jing-Wei Lee
Mentor: Eric England

POSTER 86
Elucidating the structure of human plastins via NMR and protein crystallography
Julian Lee
Mentor: Dmitri Kudryashov

POSTER 87
Determining the role of point mutation E566A in cholangiocarcinoma therapy resistance
Alexandria Lenyo
Mentor: Sameek Roychowdhury

POSTER 88
The role of 6-8th grade english and language arts curriculum in transmitting messages about mental health
Sarah Leonard
Mentor: Joseph Guada

POSTER 89
The impact of star power and team quality on NBA attendance
Zhuo Li
Mentor: John Draper

POSTER 90
A comparative study of color change assessment for frozen ground beef patties using traditional colorimeter and digital image analysis
Xiang Li
Mentor: Dennis Heldman

POSTER 91
Developing a test bench for NASA’s next generation bistatic reflectometry receiver instrument
Ryan Linnabary
Mentor: Andrew O’Brien

POSTER 92
Cryopreservation of Dirofilaria immitis microfilaria-infected blood for teaching diagnostic techniques and practicing parasite identification.
Sidney Long
Mentor: Antoinette Marsh
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POSTER 93
FEM modeling of local thermo-mechanical conditions during varestraint testing
Salman Matan
Mentor: Carolin Fink

POSTER 94
Project SWEAT: a nutrition and physical activity assessment of USDA summer food service program sites in low-income urban zip codes
Leah May
Mentor: Carolyn Gunther

POSTER 95
Can child support help mothers be self-sufficient?
Brian McClure
Mentor: David Blau

POSTER 96
A neurolinguistic study of Spanish Agreement
Katy McFarland
Mentor: John Grinstead

POSTER 97
Anomalous transport in type-II Weyl semimetals
Robert McKay
Mentor: Nandini Trivedi

POSTER 98
Causes and consequences of sex ratio variation in the parasitoid wasp Pelecinus polyturator
Hannah McKenzie
Mentor: Norman Johnson

POSTER 99
Effects of cadmium contamination on pollination services
Rachel McAughlin
Mentor: Frances Sivakoff

POSTER 100
Cytotoxicity of a novel magnesium alloy for resorbable bone fixation devices
Tim McManus
Mentor: David Dean

POSTER 101
The Columbus, Delaware and Marion interurban- challenges and opportunities associated with legacy infrastructure on urban form today
Javier Melendez-Galinsky
Mentor: Amber McNair

POSTER 102
Activation of matrix metalloproteinase (MMP)-2 by S-glutathiolation contributes to hypertrophic vascular remodeling in hypertension
Marcela Mello

POSTER 103
Relationship between dynamic force production and hop distance in collegiate women’s soccer athletes
Julie Meyer
Mentor: Jimmy Onate

POSTER 104
Potential complacencies that can arise in an established sales and operations planning process
Harrison Milacek
Mentor: August Knemeyer

POSTER 105
Synthesis, crystal structures, and magnetic properties of double perovskites containing 5d transition metals
Nathalie Milbrandt
Mentor: Patrick Woodward

POSTER 106
Assessing hybridization in invasive purple loosestrife
Alex Miller
Mentor: Steve Hovick

POSTER 107
Optimizing microstructure, strength and ductility of medium-entropy NiCoCr and Ni-base superalloy IN740H
Leah Mills
Sherri Youssef
Taylor Thomas
Mentor: Michael Mills
Session 3 Students by Poster Number

POSTER 108
Hierarchical Bayesian analysis reveals complex neural dynamics of inhibitory control
Fiona Molloy
Mentor: Brandon Turner

POSTER 109
Positron emission tomography/computed tomography (PET/CT) radiation dose reduction in a canine model
Richard Moore
Mentor: Isabel Menendez

POSTER 110
Development of binding and stability assays of the anti-tumor Ab fragment 3E8 for high throughput cancer screening
Callie Moore
Mentor: Thomas Magliery

POSTER 111
Double whammy?: how (dis)confirming a negative STEM stereotype affects women in subsequent STEM domains
Morgan Morrison
Mentor: Steven Spencer

POSTER 112
Early life vitamin D exposure alters CNS cytokine expression
Michael Mousou
Mentor: Sara Gomabsh Lampe

POSTER 113
Detection of dipole field localized ferromagnetic resonance modes with a nitrogen-vacancy spin sensor
Richard Mueller
Mentor: Chris Hammel

POSTER 114
Static postural control performance between men and women club soccer student-athletes with history of concussion
Emily Mulkey
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POSTER 115
The United Kingdom’s approach to the HIV/AIDS epidemic among African migrants
Enxhi Myrtaj
Mentor: Tasleem Padamsee

POSTER 116
Targeting novel PRMT5 inhibitor drugs in mantle cell lymphoma
Judy Nayal
Mentor: Robert Baiocchi

POSTER 117
Production and purification of recombinant proteins for cancer treatment
Jakob Nypaver
Mentor: Zhiwei Hu

POSTER 118
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Natalia Oliverira
Mentor: Larry Krissek

POSTER 119
Consumer acceptability of blueberry confections formulated with blueberry extract and lyophilized whole blueberry powder
Haley Orwig
Mentor: Yael Vodovotz

POSTER 120
Susceptibility and compressibility in the Fermi-Hubbard model
Ian Osborne
Mentor: Nandini Trivedi

POSTER 121
Nutrient intakes among a pediatric cohort meeting the AND/ASPEN diagnostic criteria for malnutrition
Angela Parillo
Mentor: Holly Estes

POSTER 122
The effects of environmental enrichment on the autism-associated behaviors of the BTBR mouse strain
Ripal Patel
Mentor: Lei Cao

POSTER 123
Antarctic iceberg research: census, environmental trends, and global implications
Karina Peggau
Kaylee Fields
Shelby Bumb
Talia Zaverdinos
Mitch Meece
Andre Giesel
Mentor: Larry Krissek
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Molecular mechanisms underlying Rab9 GTPase regulation of the autophagic pathway
Ayush Peddireddi
Mentor: Anne Strohecker

POSTER 125
Incentive-based HIV prevention interventions - Iringa, Tanzania
Shannon Phillips
Mentor: Jesse Kwiek

POSTER 126
The role of taxonomic verses functional macroinvertebrate diversity as indicators of nutrient pollution in Ohio streams
Krystal Pocock
Mentor: Lauren Pintor

POSTER 127
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Carly Polcyn
Mentor: Amitava Das

POSTER 128
Unlocking a new therapeutic target of NTHI: separation of diverse binding sites is the key
Nikhil Pramod
Mentor: Kevin Mason

POSTER 129
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Anthony Rangel
Mentor: Jim Hendrickson

POSTER 130
Age, place of residence, education and perceived sources of success in life in Poland, 1988 - 2013
Alexandra Richey
Mentor: Kazimierz Slomczynski

POSTER 131
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Aubrey Rose
Mentor: Noah Weisleder

POSTER 132
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Alexandria Ross
Mentor: Joseph Goodman

POSTER 133
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Jordan Royster
Mentor: Glenn Martinez

POSTER 134
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Meisha Runyon
Mentor: Melissa Buelow

POSTER 135
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Grace Saalman
Mentor: Kerry Ard

POSTER 136
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Sunder Sai
Mentor: Paul Bellair

POSTER 137
The perfect post: capturing consumer engagement
Emily Schaefer
Mentor: Joseph Goodman

POSTER 138
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Samantha Schilling
Mentor: Laura Schmitt
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Development of advanced multifunctional polymer binders for cathode materials in lithium-ion batteries
Adam Schmidt
Mentor: Jung-Hyun Kim

POSTER 140
Second World competition in Vietnam: analyzing the implications of the Vietnam War on Sino-Soviet relations
Jonathan Schulman
Mentor: Nicholas Breyfogle

POSTER 141
Extracellular matrix composition and microstructure influence hydraulic conductivity
Aaron Seibel
Mentor: Jonathan Song

POSTER 142
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Shruthi Sethuraman
Mentor: Megan Ballinger

POSTER 143
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Jessica Shakespere
Mentor: Jan Pierskalla

POSTER 144
Patterned electroceutical dressing clears microbial biofilms while inducing wound re-epithelialization
Aurko Shaw
Mentor: Sashwati Roy

POSTER 145
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Andrew Shea
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POSTER 146
The effects of lysozyme on feed efficiency and growth performance in swine
Hailey Shoemaker
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Brittany Shook
Mentor: Heather Allen

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Morgan Smeltzer
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Serum-free human platelet lysate (hPL) versus fetal bovine serum (FBS) albumen sources for human bone marrow-derived mesenchymal stem cell culture on poly(propylene fumarate) tissue engineered bone scaffolds
Patrick Smith
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Madison Smith
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Nischay Soni
Mentor: Bryan Mark

POSTER 152
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Daniel Sosh
Mentor: Yael Vodovotz
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Sarah Souders
Mentor: Stéphane Lavertu

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Nick Spence
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Samantha Stallkamp
Sarah Burens
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Andrea Stanic
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Sarah Stark
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Margaret Stegman
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POSTER 160
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Emily Teets
Mentor: Sharon Amacher

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Altan Turkoglu
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Bailey Urbach
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POSTER 164
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Jaime Uren
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Bridget Walsh
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Jamie Wise
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R. Garrett Yoder
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Mia LinZerkle
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Zhaojie Zhang
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Zihan Zhang
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Liya Gebru
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Kian Boon Low
Baoqi Chang
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Ahmad Shkoukani
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Madison Zimmerly
Sophie Aller
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John Thomas
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Dana Brooks
Berkay Kaplan
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Jackson Killian
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Antonia Tribuzzo
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Jahara Wakeel
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POSTER 196
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Cyrah Ward
Mentor: Daneil Roberts
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College of Arts and Sciences

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Program Coordinator

Lorraine S. Wallace, PhD
Director

Ryan Yoder
Student Assistant
<table>
<thead>
<tr>
<th>Student Name</th>
<th>Time</th>
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<td>Adkins, Olivia</td>
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## Poster Presenters

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The Images of Research + Arts Competition is an interdisciplinary exhibit that showcases the scope and diversity of research and artistic endeavors undertaken by Ohio State undergraduates. Students are invited to capture, describe, and share the crux of their research or artistic endeavors using one still image, and finalists are selected by a multidisciplinary panel.

Rachel McLaughlin
Pollinators

Victoria Piper
Banished from Eden

Taylor Dittrich
Clashing Waves

Maya Gosztyla
Buzzing with Life: The Central Nervous System of a Fruit Fly Embryo