



Symposium for Student Research, Scholarship, and Creative Achievement

**Thursday, April 21, 2022
SCHEDULE AT A GLANCE**

POSTER PRESENTATIONS

12:30 PM – 1:45 PM

<https://symposium.foragerone.com/2022srusymposium>

Biology

Identifying the Function of GLYMA10, a Potential New APC Activator in (Glycine max L. Merr)

Presenter: David Grimm

Faculty Sponsor: Dr. Nicole Dafoe

Description of Gordonia metalliredigo, a Heavy Metal(loid) Resistance Bacterium Isolated from the Sediment of a Stream Impacted by Acid Mine Drainage

Presenter: David Grimm

Faculty Sponsor: Dr. Christopher Maltman

Do Geckos Have Tastebuds?

Presenter: Haley Brown

Faculty Sponsor: Dr. Susan Rehorek

Plasma Metabolite Profiling in an Amphibian Following Exposure to a Neonicotinoid Pesticide

Presenter: Hannah Dean

Faculty Sponsor: Dr. Paul Falso

Investigation of an Ethanol Containing Diet for Apis mellifera Larvae

Presenter: Hunter Dittman

Faculty Sponsor: Dr. Amber Eade

The Impact of Non-native Earthworms on Regenerating Forest Communities in Western Pennsylvania

Presenter: John Gargasz III

Faculty Sponsor: Dr. Cory Shoemaker

The Histological features of the Uropygial Gland in Tinamus Major

Presenter: Lucas Haight

Faculty Sponsor: Dr. Susan Rehorek

Determining the Binding Interaction Between Cat1 and Any1 by Mutational Analysis

Presenter: Morgan Morrison

Faculty Sponsor: Dr. Evan Guiney

Assessing Drivers of Moss Community Dynamics in Western Pennsylvania Forests

Presenter: Paige Anundson

Faculty Sponsors: Dr. Cory Shoemaker and Dr. Evan Guiney

A Common Garden Experiment Assessing the Physiological Impacts of Roadside Runoff on Common Jewelweed (*Impatiens capensis*)

Presenter: Pierce Landis

Faculty Sponsor: Dr. Cory Shoemaker

Utilizing Live Cell Imaging in *Drosophila melanogaster* Salivary Glands to Determine if Resveratrol Treatment Activates Heat Shock Factor DNA Binding

Presenters: Riley Bricker, Nichole Webb, and Tyra Skalos

Faculty Sponsors: Dr. Martin Buckley and Dr. Stacy Hrizo

Cytotoxic Effects of Imidacloprid Pesticide on HEK 293T Human Cells

Presenter: Sarah Herwald

Faculty Sponsor: Dr. Miranda Falso

Chemistry

Raman Chemical Imaging of Crossed Blue Inks

Presenters: Heather Kane

Faculty Sponsor: Dr. Andre Braz

Design and Synthesis of antiviral Molnupiravir analogues

Presenter: Jarod Marasco

Faculty Sponsor: Dr. Qi Chen

Analysis of Isoliquiritigenin Effect on mitoNEET Expression

Presenter: Kayle Marsh
Faculty Sponsor: Dr. Ashley Loe

Geography, Geology and the Environment

Slippery Rock Water Project

Presenter: Hannah Poskin
Faculty Sponsor: Dr. Tamra Schiappa

Management and Marketing

Why Leader Workaholism is Linked to Subordinate Work Withdrawal? A Moral Licensing Perspective

Presenter: Jesse Fesel
Faculty Sponsor: Dr. Sunjin Pak

Mathematics and Statistics

Development of Civic Learning and Engagement Outcomes

Presenter: Alyssa Hilliard
Faculty Sponsor: Dr. Jana Asher

Patterns of Postpartum Depression during the COVID-19 Pandemic, 2018-2021

Presenter: Alyssa Kasmierski
Faculty Sponsor: Dr. Jana Asher

An Analysis of Patterns of Librarian Service, 2017-2021

Presenter: Ashley Wisor
Faculty Sponsors: Dr. Jana Asher and Ms. Amanda Goodrick

Comparison of 2018 & 2021 Survey Data from Bailey Library Clients

Presenter: Elijah McClymonds
Faculty Sponsors: Dr. Jana Asher and Ms. Amanda Goodrick

STEM vs Non-STEM Performance During COVID Remote Learning in Higher Education

Presenter: Kelly Smith
Faculty Sponsor: Ms. Amanda Goodrick

Experiences Designing and Testing a Questionnaire Focusing on LGBTQIA+ Attitudes Among Certified Nursing Assistants Working at Nursing Facilities

Presenter: Rose Resnick
Faculty Sponsor: Dr. Jana Asher

Modern Languages & Cultures

Spanish-Speaking Immigrants and Health Providers: A Case Study on Cultural Competency

Presenter: Monica Yost
Faculty Sponsors: Dr. Gisela Dieter and Dr. Alessia Zanin-Yost

Music

Communication and Conducting High School Choirs: During COVID-19 and Beyond

Presenter: Aaron Caplea
Faculty Sponsor: Dr. Kathleen Melago

Social and Emotional Learning and Culture in Music Education

Presenter: Hannah D'Egidio
Faculty Sponsor: Dr. Kathleen Melago

The Implementation of SRU Bassoon Day to Address Gaps in Teachers' Knowledge

Presenter: Michael LaBella
Faculty Sponsor: Dr. Kathleen Melago

Parks, Conservation & Rec Therapy

The Impact of Virtual Methods on Student Engagement and Learning within the Classroom

Presenter: Mohamad Khalaifa
Faculty Sponsor: Dr. Rebecca Thomas

Physical and Health Education

Motivational and Physical Effects of Online Fitness Training

Presenters: Timothy Houk and Brady Sileo
Faculty Sponsor: Dr. Istvan Kovacs

Physics and Engineering

Physics-based Degradation Analysis of Lithium-ion Batteries for Health Monitoring

Presenter: Chelsea DeSalve

Faculty Sponsor: Dr. Shah Limon

Influence of Cryogenics on Materials

Presenter: Malachi Acrie

Faculty Sponsor: Dr. Robabeh Jazaei

Development of Convenient Sustainable Recycle and Reuse Technology for Plastic Bottles in 3D Printing

Presenter: Michael Mirabito

Faculty Sponsor: Dr. Jheng-Wun Su

Psychology

Ethanol Induced Conditioned Place Preference in Japanese Quail: Pilot Study

Presenter: Leah Corbett

Faculty Sponsor: Dr. Beth Ann Rice

The Relation Between Performance Anxiety, Perceived Family Support and Mental Toughness

Presenter: Lois Page

Faculty Sponsor: Dr. Catherine Massey

The Association between Disability and Depression Symptoms in Adolescents

Presenter: Samantha Cox

Faculty Sponsor: Dr. Jennifer Willford

School of Physical Therapy

The Influence of Kinesiology Tape on Posture and Breathing Mechanics in Healthy Individuals

Presenters: Matthew Kohlmann and Courtney Nunley

Faculty Sponsor: Dr. Kelly Lindenberg

Special Education

Benefits and Types of Post- Secondary Programs for Students with Disabilities

Presenters: Kelsi Anderson and Sierra Denholm

Faculty Sponsor: Dr. Jessica Hall-Wirth

Strategic Communication & Media

An Experimental Analysis of the Effects of Memes and Emotion Regulation Processes

Presenter: Anwen Thomas

Faculty Sponsor: Dr. Emily Dolan