Poster/Portfolio Time Location Presentation Presenters **HENRY HALL** 9:00 a.m. -Multi-Head Attention in Single Cell Variational Autoencoders Presenter: Jack Foreback 10:00 a.m. ATRIUM 002 Mentor: Zachary DeBruine 9:00 a.m. -HENRY HALL Evaluating FeEDDHA from Commercial Fertilizers as an Electrolyte for an All-Iron Aqueous Redox Flow Battery Presenter: Christina Jiang 10:00 a.m. ATRIUM 003 Mentor: Andrew Lantz **HENRY HALL** GIS Analysis and Mapping of Parking Reductions in Grand Rapids, MI Presenter: Rebecca Lubbers 9:00 a.m. -Mentor: Kin Ma 10:00 a.m. ATRIUM 012 9:00 a.m. -HENRY HALL Assessing the Role of the Chaperone Protein TRAP1 on Modulating α -synuclein in the *Drosophila* Model of Parkinson's Disease Presenters: Nicolette Owen, Lillie Waldron 10:00 a.m. ATRIUM 019 Mentor: Georgette Sass 9:00 a.m. -HENRY HALL Be Mindful Juniors Presenter: Terrence Bolden 10:00 a.m. ATRIUM 020 Mentor: Jamie Langlois 9:00 a.m. -HENRY HALL Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the Presenter: John Rozema **PATHWAYS Project** 10:00 a.m. ATRIUM 025 9:00 a.m. -HENRY HALL Physiologic Effects of Beetroot on Pulmonary Arteries Presenters: Tejaswini Balla, Daniel Nichols, Carter Bechtel, Genevieve Osowski, Drew 10:00 a.m. ATRIUM 033 Smith, Caleb Porter, Luis Vidal, Jerrome Kue Mentor: Francis Sylvester **HENRY HALL** Presenter: Logan Darling 9:00 a.m. -Ethical Leadership in Relation to Perceived Organizational Support and Job Satisfaction 10:00 a.m. ATRIUM 034 Mentor: Benjamin Walsh HENRY HALL 9:00 a.m. -Understanding the Role of AI in Job Crafting – Literature Review and Proposed Model Presenter: Zachary Spencer 10:00 a.m. ATRIUM 035 Mentor: Benjamin Walsh 9:00 a.m. -HENRY HALL Presenter: Lauren Andrews Understanding How the Components of Perceived Overqualification Impact Job Satisfaction 10:00 a.m. ATRIUM 036 Mentor: Benjamin Walsh 9:00 a.m. -**HENRY HALL** Do Big-Five Personality Traits (Conscientiousness and Agreeableness) Predict Perceived Work Ability Above and Beyond Job Stress? Presenter: Paige Gutzeit 10:00 a.m. ATRIUM 037 Mentor: Benjamin Walsh 9:00 a.m. -**HENRY HALL** Effects of Oxidative Stress on the Generation of ATP by Galleria mellonell Presenter: Daniel Molette 10:00 a.m. ATRIUM 040 Mentor: Babasola Fateye **HENRY HALL** Short-Term Changes in Soil Organic Carbon Fractions Due to Prescribed Sheep Grazing Presenter: Julia Shreve 9:00 a.m. -10:00 a.m. ATRIUM 042 Mentor: Tara Kneeshaw 9:00 a.m. -**HENRY HALL** Isoforms of GAP-43: Making Connections to Alzheimer's Disease Presenter: Jacob Reed 10:00 a.m. ATRIUM 043 9:00 a.m. -**HENRY HALL** Presenter: Olivia Sandman A Diatom Voucher Flora of Pierce Ponds 10:00 a.m. ATRIUM 049 Mentor: Sarah Hamsher 9:00 a.m. -**HENRY HALL** Animal Assisted Therapy Effects on Nursing Students' Test Anxiety Presenters: Kailey Bombe, Zoey Czyzewski, Sydney Butts, Elizabeth Crowley 10:00 a.m. ATRIUM 053 Mentor: Leigh Anne DeNotto **HENRY HALL** 9:00 a.m. -Debriefing Tools Within the Critical Care Setting Presenter: Lauren Atwell 10:00 a.m. ATRIUM 059 Mentor: Elizabeth Davis 9:00 a.m. -**HENRY HALL** Suicidality in Autistic College Students Presenter: Sam Fisher 10:00 a.m. ATRIUM 062 Mentor: Jamie Owen-DeSchryver 9:00 a.m. -**HENRY HALL** Transitioning New Graduate Nurses into the Emergency Department Presenter: Alexis Hazen 10:00 a.m. ATRIUM 085 Mentor: Elizabeth Davis 9:00 a.m. -**HENRY HALL** Lanthanide and Actinide Coordination Chemistry Using Butyl-substituted Multidentate CMPO Compounds Presenter: Brianna Gordon 10:00 a.m. ATRIUM 086 Mentor: Shannon Biros **HENRY HALL** 9:00 a.m. -The Identification of Phenotypes Associated with Mutations in the AANATL-7 Gene in Drosophila melanogaster Presenters: Madeline Skym, Daan Louwerse 10:00 a.m. ATRIUM 089 Mentor: Martin Burg 9:00 a.m. -**HENRY HALL** Breast Cancer Staging and the Importance of Early Detection Presenter: Sydney Zimmerman 10:00 a.m. ATRIUM 090 Mentors: Natalie Laudicina, Dawn Richiert, Chris Reed, Laura Stroik **HENRY HALL** Advancing Microfossil Processing Techniques and Faunal Analysis from the Duchesne River Formation, Uinta Basin, Utah Presenters: Jaclyn Driesenga, Michael Baldus, Andrew Kelley, Dylan Ruiter, Samantha 9:00 a.m. -10:00 a.m. ATRIUM 096 Hacker, Selah Bollinger, Jessica Frielink Mentor: Laura Stroik Histological Analysis of Macaca mulatta Dura Mater Collagen Fiber Organization 9:00 a.m. -HENRY HALL Presenter: Hope Fischer 10:00 a.m. ATRIUM 097 Mentor: Chris Reed 9:00 a.m. -**HENRY HALL** The Motivations and Practices of West Michigan Anglers Presenters: Steven King, Amanda Francis 10:00 a.m. ATRIUM 100 Mentors: Amanda Buday, Carl Ruetz 9:00 a.m. -**HENRY HALL** Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal Presenter: Jack Lipscomb 10:00 a.m. ATRIUM 101 9:00 a.m. -KIRKHOF CENTER A Student's Perspective on Nursing Scholarship: Exploring the Value and Impact of the DNP-prepared Nurse Presenter: Akiko Flanders 10:00 a.m. GRR 033 Mentor: Katherine Moran KIRKHOF CENTER Identifying Bat Species Through Fecal Samples 9:00 a.m. -Presenter: Daniela De Andrade Mentor: Amy Russell 10:00 a.m. GRR 041 9:00 a.m. -KIRKHOF CENTER Observing the Causes and Effects of Scoliosis in an 80 Year-Old Female Cadaver Presenter: Levi Vanast Mentors: Dawn Richiert, Chris Reed, Laura Stroik, Natalie Laudicina 10:00 a.m. GRR 042 KIRKHOF CENTER Acute Toxicity of Cadmium in Larvae of the Greater Wax Moth 9:00 a.m. -Presenter: Sarah Atang 10:00 a.m. GRR 043 Mentor: Babasola Fateye KIRKHOF CENTER Understanding Partner Social Dance: Motion Analysis of Salsa Dance 9:00 a.m. -Presenters: Hannah Hertstein, Lauren Space 10:00 a.m. GRR 051 KIRKHOF CENTER A Data-Driven Analysis of Health Informatics Graduate Education in the United States 9:00 a.m. -Presenters: Michael Irungu, Pranitha Presingu 10:00 a.m. GRR 056 Mentors: Suhila Sawesi, Guenter Tusch KIRKHOF CENTER Cooler Coastal Environments of the Oligocene US East Coast 9:00 a.m. -Presenter: Ella Puffer 10:00 a.m. GRR 061 Mentor: Ian Winkelstern 9:00 a.m. -KIRKHOF CENTER Algal Responses to Nitrogen and Phosphorus Inputs in Wetlands of a Large River Mouth Ecosystem Presenters: Alexandra Ferguson, Lauren Tabor 10:00 a.m. GRR 065 Mentors: Sarah Hamsher, Matthew Cooper Presenter: Brandalyn Morris 9:00 a.m. -KIRKHOF CENTER Effects of ATG13 on Schmidtea mediterranea Regeneration 10:00 a.m. GRR 068 Mentor: Matthew Christians KIRKHOF CENTER The Cat Gene and its affect on D. melanogaster 9:00 a.m. -Presenter: Leonel Estudillo-Vazquez 10:00 a.m. GRR 080 Mentor: Georgette Sass KIRKHOF CENTER Guided Nature Forest Therapy 9:00 a.m. -Presenter: Caleb Franke 10:00 a.m. GRR 091 Mentor: Afokoghene Odhu KIRKHOF CENTER Volunteer Manager Perceptions and Sentiments About Court-Ordered Volunteers 9:00 a.m. -Presenter: Bex Takacs-Britz Mentor: Salvatore Alaimo 10:00 a.m. GRR 092 9:00 a.m. -KIRKHOF CENTER Does the Way Candida auris Differs from Candida albicans in One Protein Family Relate to its Drug Resistance or Emergence as an Urgent Presenter: Carson Noves 10:00 a.m. Mentors: Ian Cleary, Derek Thomas **GRR 101** Threat to Human Health? 9:00 a.m. -KIRKHOF CENTER Caffeine, Resistance Exercise, and the Cardiovascular Effects: A Review of the Literature Presenter: Leah Converse 11:00 a.m. GRR 039 Mentor: Sarah Kearney KIRKHOF CENTER Core Muscle Activation During Lateral Trunk Rotation Using Core-Stix Resistance Poles 9:00 a.m. -Presenters: Benjamin Maletta, Seth DeCaire 11:00 a.m. GRR 054 Mentor: Stephen Glass 9:00 a.m. -KIRKHOF CENTER Identifying Evolvability-Enhancing Mutations via Computational Models Presenter: Marcos Sanson 12:00 p.m. GRR 072 Mentor: Austin Ferguson 9:00 a.m. - 1:00 HENRY HALL U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. South Presenter: Alexandra Jorns ATRIUM 048 Mentor: Kin Ma p.m. 9:00 a.m. - 1:00 KIRKHOF CENTER Utilizing High-Temperature Melting for Lanthanide Trichloride Complex Synthesis with dppmO2 Presenter: Joseph Paganelli GRR 052 Mentors: John Bender, Shannon Biros p.m. 9:00 a.m. - 1:00 KIRKHOF CENTER Effects of Dry Needling, Craniosacral Therapy, and Sound Vibration on Brain Waves, Autonomic Regulation and Muscle Tension Presenter: Savannah Tormala GRR 095 Mentor: Eric Ramsson p.m. 9:00 a.m. - 2:00 KIRKHOF CENTER Healing Through Creativity Presenter: Essence Williams p.m. GRR 003 Mentor: Dawn De Vries 9:00 a.m. - 3:00 HENRY HALL Presenter: Griffin Thompson Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations ATRIUM 007 Mentor: Alexandra Locher p.m. 9:00 a.m. - 3:00 HENRY HALL Exploring Selenium Chemistry: Synthesis and Characterization of Novel Organoselenium and Phosphorus Compounds Presenters: Jaden Baldwin, Parker Van Ess ATRIUM 041 Mentor: John Bender p.m. 9:00 a.m. - 3:00 HENRY HALL From Curiosity to Discovery: Development of a Course-Based Research Experience Presenter: Mark Crossen ATRIUM 065 Mentor: Amanda Karsten 9:00 a.m. - 3:00 HENRY HALL Presenter: Jackelyn Palmas Examination of How Expression of the dj-1beta Gene Impacts Oxidative Stress Levels and the Phenotype of the Adult Eye in *Drosophila* ATRIUM 093 melanogaster Mentor: Georgette Sass p.m. 9:00 a.m. - 3:00 KIRKHOF CENTER Prospective Associations Between Trait Mindfulness, Health Behaviors, and Behavioral Intentions in College Students Presenter: Mya Hanna p.m. GRR 070 Mentor: Amanda Dillard 9:00 a.m. - 5:00 HENRY HALL Michigan Tri-Share Policy Analysis and Evaluation Presenters: Jackson Richmond, Michael Luke, Lacey Jones, Madalyn Fuhr, Lauren Robar ATRIUM 075 Mentor: Raymond Higbea p.m. 9:00 a.m. - 5:00 KIRKHOF CENTER Determining the Identity of Histamine Metabolites in the CNS of *Drosophila melanogaster* Using Mutations that Disrupt Histamine Presenter: Lola Piper GRR 006 Mentor: Martin Burg 10:00 a.m. -**HENRY HALL** Presenters: Andrew Clarent, Anastasia Misson Scapular Stability Muscle Activation During Multiplanar Shoulder Exercise Using Fiberglass Resistance Poles ATRIUM 018 11:00 a.m. Mentor: Stephen Glass **HENRY HALL** Presenters: Megan Budai, Lauren Hicks, Marlena Pinelli 10:00 a.m. -An Evaluation of Monocyte Distribution Width as a Sepsis Biomarker ATRIUM 024 Mentor: Lilianne Nelson 11:00 a.m. 10:00 a.m. -**HENRY HALL** Comparing Pelvic Dimesions of Precocial and Altricial Species to Investigate Human "Secondary Altriciality" Presenter: Emma Long 11:00 a.m. ATRIUM 026 Mentor: Natalie Laudicina 10:00 a.m. -HENRY HALL Environmental Indicators and Schools of Choice for Children Living in the Detroit Area Presenter: Lelia Sigmon 11:00 a.m. ATRIUM 027 Mentor: Heather Moody 10:00 a.m. -**HENRY HALL** Using Next-Generation Gene Sequencing for Enhanced Surveillance and Treatment of Multi-Drug Resistant Microorganisms Presenters: Olivia Doctor, Bryan Mazey, Claire Bryant 11:00 a.m. ATRIUM 030 Mentor: Lilianne Nelson 10:00 a.m. -**HENRY HALL** Evaluation of Restoration Efforts on a Lake Superior Coastal Wetland Presenter: Eden Hodgson ATRIUM 039 Mentor: Matthew Cooper 11:00 a.m. 10:00 a.m. -Advanced Practice Nursing Competencies, Roles and Outcomes: A Global Assessment **HENRY HALL** Presenter: Dancun Juma 11:00 a.m. ATRIUM 044 Mentor: Katherine Moran **HENRY HALL** 10:00 a.m. -Investigating Sensory Processing: an In-Depth Look into the Synaptic Connectivity between Layer I Single Bouquet Cell (SBC) and Presenter: Karis Gillen Neurogliaform Cell (NGFC) and the Pyramidal Neurons They Target 11:00 a.m. ATRIUM 051 Mentor: Gülcan Akgül 10:00 a.m. -**HENRY HALL** Evaluating Preconditioner Performance of Quantum Many-Body Systems Presenter: Alaina Hogan 11:00 a.m. ATRIUM 061 Mentor: Erin Carrier Presenter: Gabriella Palombo 10:00 a.m. -**HENRY HALL** Creating Chemistry Learning Materials for Use in GVSU Tutoring Centers 11:00 a.m. ATRIUM 067 Mentor: Thomas Pentecost 10:00 a.m. -**HENRY HALL** Exploring the Mechanisms of Neurogenesis in the Adult Pig Eye Using a Multiple Cell Culture System Presenters: Stephen Warner, Taylor Saber, Rachel Zarb, Esther Bard ATRIUM 073 11:00 a.m. Mentor: David Linn 10:00 a.m. -HENRY HALL Presenters: Annabel Maag, Bryson Marinich Identifying the Key Amino Acids within DUSP8 Protein that Determine its Activity 11:00 a.m. ATRIUM 076 Mentor: Ruijie Liu 10:00 a.m. -**HENRY HALL** Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs -Presenter: Landon Bartlett 11:00 a.m. ATRIUM 084 10:00 a.m. -HENRY HALL Presenters: Jurrien Wilson, Justin Matthews, Hannah Ruff, Megan Supernaw Literature Review of Bedside Report in the Nursing Role 11:00 a.m. ATRIUM 087 Mentor: Madison Goodyke 10:00 a.m. -HENRY HALL Anatomical and Clinical Implications of an Eye Removal Surgery: A Case-Study Presenter: Lucy Groothuis 11:00 a.m. Mentors: Laura Stroik, Chris Reed, Dawn Richiert, Natalie Laudicina ATRIUM 088 10:00 a.m. -HENRY HALL Impact of Mentoring and Intergenerational Programs at GVSU on Older Adults Presenter: Katherine Brennen 11:00 a.m. ATRIUM 095 Mentor: Jing Chen 10:00 a.m. -**HENRY HALL** Comparison of Pituitary Gonadotropin Concentrations Between Three Strains of Mice Presenter: Madysen Gohl ATRIUM 098 11:00 a.m. Mentor: Chris Pearl 10:00 a.m. -**HENRY HALL** Presenter: Patrick Baumann Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal 11:00 a.m. ATRIUM 101 KIRKHOF CENTER All Behavior is Communication: Trauma-Informed Classroom Strategies 10:00 a.m. -Presenters: Mary Doucette, Daphnie Uhrich 11:00 a.m. GRR 012 Mentor: Jamie Langlois KIRKHOF CENTER Pick Me Up: A Chapbook of Poetry and Resources 10:00 a.m. -Presenter: Nathan Boyt 11:00 a.m. GRR 016 Mentor: Jamie Langlois 10:00 a.m. -KIRKHOF CENTER Painting A Brighter Future: The Power of Creative Arts in Overcoming Childhood Trauma Presenter: Rachael Ells 11:00 a.m. GRR 017 Mentor: Dawn De Vries 10:00 a.m. -KIRKHOF CENTER The Impact of the Mediterranean Diet on Inflammation in Adults with Systemic Lupus Erythematosus (SLE) Presenter: Emily Brom 11:00 a.m. GRR 025 Mentor: Nicole Harpold 10:00 a.m. -KIRKHOF CENTER Physical activity on depression in nurses Presenters: Logan Klinge, Matthew Smith, Charles Walters 11:00 a.m. Mentor: Afokoghene Odhu GRR 027 KIRKHOF CENTER Alternative Splicing and MicroRNA Regulation in Thymoma 10:00 a.m. -Presenter: Bushra Rashrash 11:00 a.m. GRR 029 Mentors: Suhila Sawesi, Charitha Subrahmanya Kodumagulla KIRKHOF CENTER A Comparative Machine Learning Framework for Predicting Pharmacy Type Selection in the United States 10:00 a.m. -Presenter: Michael Irungu 11:00 a.m. GRR 050 Mentor: Suhila Sawesi 10:00 a.m. -KIRKHOF CENTER A Replication and Comparison of 'Predisposing, Enabling, and Need Factors Driving Pharmacy Type Choice in The US' Using 2021 NCSME- Presenter: Pranitha Presingu 11:00 a.m. GRR 053 Mentor: Suhila Sawesi 10:00 a.m. -KIRKHOF CENTER Characterizing the Aggregation Process of the Functional Amyloid Kassinin Presenter: Lillie Waldron 11:00 a.m. GRR 055 Mentor: Laura Hawk KIRKHOF CENTER Quebec Wildfires 2023 10:00 a.m. -Presenter: Bryan Heiss Mentor: Kin Ma 11:00 a.m. GRR 069 KIRKHOF CENTER Habitat Suitability of Eastern Massasauga Rattlesnakes in the Lower Peninsula of Michigan 10:00 a.m. -Presenters: Carly Hedley, Emma Adams, Gabrielle Blunt 11:00 a.m. GRR 078 Mentor: Kin Ma KIRKHOF CENTER Cannabinoid Influence on Eating Motivation in Rodents 10:00 a.m. -Presenter: Courtney Earl 11:00 a.m. GRR 079 Mentor: Natashia Swalve 10:00 a.m. -KIRKHOF CENTER Unlocking Memories: The Power of Mnemonics for Dementia Care Presenter: Savanah Cano 11:00 a.m. GRR 083 Mentor: Dawn De Vries KIRKHOF CENTER Recreational Therapy in Schools: Avenue to Holistic Learning 10:00 a.m. -Presenter: Samantha Jordan 11:00 a.m. GRR 086 Mentor: Dawn De Vries KIRKHOF CENTER Glitches in the System: Are EHRs Putting Patients at Risk? 10:00 a.m. -Presenter: Phaedra Melinn **GRR 094** 11:00 a.m. Mentor: Chad Sutliffe 10:00 a.m. -**HENRY HALL** Presenter: Chloe Spradlin Synthesis of a Biogenic Amine 12:00 p.m. ATRIUM 060 Mentor: Matthew Hart 10:00 a.m. -**HENRY HALL** Does Rejection and Ignoring Impact an Individual's Feeling of Physical Safety? Presenters: Liam Knisley, Paige Pulter 12:00 p.m. ATRIUM 102 Mentor: Kristy Dean 10:00 a.m. -KIRKHOF CENTER An Investigation of Reactivity and Stereoselectivity on the Epoxidation and Diels-Alder Reaction of Unique Chalcones Presenters: Ethan Smith, Ava Thomson, Elijah Kincaid 12:00 p.m. GRR 023 Mentor: John Bender KIRKHOF CENTER Effects of Oral Contraceptive Use and Cervical Cancer in Women 10:00 a.m. -Presenters: Emma Walker, Dylan Wigfield, Mila Tasma 12:00 p.m. GRR 066 Mentor: Chad Sutliffe KIRKHOF CENTER Can Photos Depict the Mental Health of Grand Valley State University Students? 10:00 a.m. -Presenter: Edwin Lopez Maldonado **GRR 077** 12:00 p.m. Mentor: Babasola Fateye 10:00 a.m. -**HENRY HALL** Raising the Steaks: Examining Cattle Exploitation at the Archaeological Site of Tel Dan, Israel Presenter: Orion Davis 1:00 p.m. ATRIUM 013 Mentors: Elizabeth Arnold, Mark Schwartz, Jonathan Greer 10:00 a.m. -KIRKHOF CENTER Insights into Molybdenum Toxicity in an Invertebrate Model for Applications in Atherosclerotic Cardiovascular Disease Presenter: Brianna Hofman 3:00 p.m. GRR 011 Mentors: Maria Kwesiga, Babasola Fateye 10:00 a.m. -KIRKHOF CENTER Presenter: Moira Yaney Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion 3:00 p.m. GRR 030 Satisfaction Mentor: Afokoghene Odhu 10:00 a.m. -HENRY HALL Presenters: Mya Hanna, Elias Ghazal, Tessa Kramer, Kendall Shattuck Preoperational Thinking and Conspiratorial Belief 4:00 p.m. ATRIUM 092 Mentors: Brian Bowdle, Mario Fific 10:00 a.m. -**HENRY HALL** Influence of Redox Species Identity on Analyte Particle Transport in Single Entity Electrochemical Collisions Presenter: Robert Dean 5:00 p.m. ATRIUM 074 Mentor: Scott Thorgaard **HENRY HALL** Defining the Herd: Using Virtual Anthropology to Distinguish Sheep and Goat at the Archaeological Site of Tel Dan, Israel 11:00 a.m. -Presenter: Anna Konold 12:00 p.m. Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz ATRIUM 004 11:00 a.m. -**HENRY HALL** The Company of Caprines: Applying Geometric Morphometrics to Animal Bone at the Archaeological Site of Tel Dan, Israel Presenter: Isabella Tyler 12:00 p.m. ATRIUM 005 Mentors: Mark Schwartz, Jonathan Greer, Elizabeth Arnold 11:00 a.m. -**HENRY HALL** Presenter: Toni Butler Bridging the Gap: Integrating Basic Needs Assessment in University Counseling Center Triage 12:00 p.m. ATRIUM 016 Mentor: Jamie Langlois 11:00 a.m. -**HENRY HALL** Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the Presenter: Gabrielle Monterusso 12:00 p.m. ATRIUM 025 PATHWAYS Project 11:00 a.m. -**HENRY HALL** The Role of Cross-Department Communication in Enhancing Clinical Laboratory Efficiency and Patient Outcomes, Diagnostic Error Presenters: Olivia Doerr, Nicole Miller, Chloe Jones 12:00 p.m. ATRIUM 029 Reduction and Workflow Optimization Mentor: Lilianne Nelson 11:00 a.m. -**HENRY HALL** Artificial Intelligence in Hematological Diagnostics: Advances and Challenges Presenters: Mirka Osorio, Aileen Botello, Danielle Howell 12:00 p.m. ATRIUM 031 Mentor: Lilianne Nelson 11:00 a.m. -**HENRY HALL** Influences of Unionid Mussels on Aquatic Benthic Macroinvertebrate Community Structure at Confluences in the Lower Grand River Presenter: Denise Gardner ATRIUM 047 12:00 p.m. Mentor: Eric Snyder 11:00 a.m. -HENRY HALL Presenters: N'Diah Robinson, Kenzie Henson, Kate Sadowski, Peyton Volk Yoga Intervention on Sleep Quality and Stress in Nurses 12:00 p.m. ATRIUM 052 Mentor: Leigh Anne DeNotto 11:00 a.m. -HENRY HALL Presenter: Kylah Allman Fine Dining Restaurants Market 12:00 p.m. ATRIUM 063 Mentor: Mohammed Lefrid 11:00 a.m. -HENRY HALL Presenter: Molly McGuire Alpha-Synuclein and Septin 1 in a *Drosophila* Ovarian Follicle Cells Model: Exploring Synucleins Beyond Neurodegeneration ATRIUM 083 12:00 p.m. Mentor: Georgette Sass 11:00 a.m. -**HENRY HALL** Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal Presenter: Lauren Wilmore 12:00 p.m. ATRIUM 101 11:00 a.m. -KIRKHOF CENTER The Role of Medical Laboratory Scientists: Staffing Challenges, Turnaround Times, and Impacts on Patient Care Presenters: Michael VanSuilichem, Devan Powers, Maddison Ratliff, Kevin Le 12:00 p.m. GRR 005 Mentor: Lilianne Nelson 11:00 a.m. -KIRKHOF CENTER Storage Optimization for Kidney Transplantation Presenter: Jaylyn Kelley 12:00 p.m. GRR 020 Mentor: Francis Sylvester KIRKHOF CENTER Kinetic Characterization of ADC-73, a prevalent class C β-lactamase expressed in A. baumannii 11:00 a.m. -Presenter: Luz Sanchez 12:00 p.m. GRR 037 Mentor: Rachel Powers 11:00 a.m. -KIRKHOF CENTER Understanding the Relationship Between Different Dimensions of Social Exclusion and Perceived Physical Safety Presenters: Lauren Andrews, Lyric Hein 12:00 p.m. GRR 038 Mentor: Kristy Dean 11:00 a.m. -KIRKHOF CENTER The Essential Role of the Pkn Gene in *Drosophila melanogaster*. Insights into Developmental Defects and Wing Morphology Presenter: Lia Quatro 12:00 p.m. GRR 044 Mentor: Georgette Sass 11:00 a.m. -KIRKHOF CENTER Exploring the Correlation Between Emotional Well-being and Academic Success in College Students Using AgileBrain Presenter: Caroline De Roo 12:00 p.m. GRR 046 Mentor: Babasola Fateye 11:00 a.m. -KIRKHOF CENTER Isotachophoresis Spacer Ion Optimization for Escherichia coli and Lactobacillus casei Separation Presenter: Colton Dysart 12:00 p.m. GRR 049 Mentor: Andrew Lantz 11:00 a.m. -KIRKHOF CENTER Understanding Partner Social Dance: Motion Analysis of Salsa Dance Presenter: Benjamin Maletta 12:00 p.m. GRR 051 KIRKHOF CENTER Comparison of Clumped Isotope, Raman Spectroscopy, and Calcite Microstructural Constraints on Burial and Exhumation of the Laventille Presenter: Hugo Rainey 11:00 a.m. -Formation, Northern Range, Trinidad 12:00 p.m. GRR 062 Mentor: Ian Winkelstern 11:00 a.m. -KIRKHOF CENTER Analysis of the Overexpression of Alpha-Synuclein on the Stathmin Gene and its Results on the Phenotype of the Ovary in *Drosophila* Presenter: Daniela De Andrade 12:00 p.m. GRR 081 Mentor: Georgette Sass 11:00 a.m. -KIRKHOF CENTER Edge Covers of Joined Tadpole Graphs Presenter: Jarrett Gadziemski Mentor: Brian Drake 12:00 p.m. GRR 099 11:00 a.m. -**HENRY HALL** Presenter: Magdalyn Hallead Structural Weight Stigma in Healthcare 1:00 p.m. ATRIUM 011 Mentor: Rachel Fox 11:00 a.m. -**HENRY HALL** Sauna Bathing as a Cardiovascular Intervention: A Systematic Review Presenter: Avery Schaeffer Mentor: Chad Sutliffe 1:00 p.m. ATRIUM 015 11:00 a.m. -KIRKHOF CENTER Targeting the Human Histamine H3 Receptor for Myelin Repair in Multiple Sclerosis: Computational Identification of Potential Small Presenter: Sophie Stevens Mentor: Agnieszka Szarecka 1:00 p.m. GRR 031 Molecule Inhibitors KIRKHOF CENTER Developing an Intervention Fidelity Measurement Plan: The Em-Power Study 11:00 a.m. -Presenter: Jordyn Hopgood 1:00 p.m. **GRR 096** Mentor: Lisa Kenyon 11:00 a.m. -HENRY HALL Isoforms of GAP-43: Making Connections to Alzheimer's Disease Presenter: Kates Krasin 2:00 p.m. ATRIUM 043 11:00 a.m. -KIRKHOF CENTER Incidence of De Novo Arteriovenous Malformations After Mild or Severe Brain Injury: A Case Discussion and Analysis of Similar Reports Presenter: Connor Veen 2:00 p.m. GRR 040 Mentor: John Capodilupo 11:00 a.m. -KIRKHOF CENTER Coral Image Classification Using Underwater Image Enhancement Presenters: Minh Tran, Dat Nguyen Mentors: Denton Bobeldyk, Jonathan Leidig 3:00 p.m. GRR 076 11:00 a.m. **HENRY HALL** Modeling Molten Lithium Carbonate Presenter: Samuel Owen 5:00 p.m. ATRIUM 045 Mentor: Christopher Lawrence 11:00 a.m. -KIRKHOF CENTER Synthesis and Microbiological Testing of Potential Tuberculosis Antibiotics Presenters: Nicole Denz, Thien Anh Hoang 5:00 p.m. GRR 026 Mentor: Matthew Hart 12:00 p.m. -**HENRY HALL** Identification of AANATL-7 Expression Using the UAS-GAL4 System in D. melanogaster to Determine Where Histamine Acetylation is Presenter: Margaret Cubitt ATRIUM 009 1:00 p.m. Mentor: Martin Burg 12:00 p.m. -HENRY HALL How Can I Learn About Gas Behavior? An Analysis of How YouTube Videos Help Support Students' Understanding of Gas Behavior Presenters: Gabriella Palombo, Lucian Forestieri, Isabella Senkowski 1:00 p.m. ATRIUM 010 Mentor: Deborah Herrington 12:00 p.m. -**HENRY HALL** Presenters: Anthony Caprara, Callyn Goodman Burnout and Compassion Fatigue in Healthcare Workers 1:00 p.m. ATRIUM 021 Mentor: Jamie Langlois 12:00 p.m. -HENRY HALL Impact of Physical Activity on Nursing Students' Mental Health Presenters: Mallory Shustock, Emma Hyzer, Hannah Duclos, Ryan Reynolds 1:00 p.m. ATRIUM 054 Mentor: Leigh Anne DeNotto 12:00 p.m. -**HENRY HALL** Falcon to Falcon: Soaring Toward Peace with Peer Mediation Presenter: Keylaiha Brown 1:00 p.m. ATRIUM 066 Mentor: Jamie Langlois **HENRY HALL** 12:00 p.m. -An Investigation of Chalcone Reactivity on Synthesized Epoxides and Episulfides: Characterizing Stereoselectivity Presenters: Elena King, Makalah Pearson 1:00 p.m. ATRIUM 069 Mentor: John Bender 12:00 p.m. -**HENRY HALL** Awe and Metaphor Presenter: Marwah Al-Mashhadani ATRIUM 071 1:00 p.m. 12:00 p.m. -HENRY HALL Characterization of ADC-218: Kinetic Profiling and Comparative Analysis with ADC-212 Presenter: Harrison Smith 1:00 p.m. ATRIUM 077 Mentor: Rachel Powers 12:00 p.m. -**HENRY HALL** Presenter: Andrea Essmaker Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs -1:00 p.m. ATRIUM 084 ChatGPT) 12:00 p.m. -HENRY HALL Icelandic Volcanic Eruptions 2019–2023 and Impacts on Respiratory Health Presenters: Jennie Golaszewski, Aliya Huizinga 1:00 p.m. ATRIUM 099 Mentor: Kin Ma KIRKHOF CENTER Neurodivergence: The Divergence of a Term 12:00 p.m. -Presenter: Emily Seburn 1:00 p.m. GRR 001 Mentor: Coeli Fitzpatrick 12:00 p.m. -KIRKHOF CENTER Design and Synthesis of Amides to Treat Tuberculosis Presenter: Nicolette Owen 1:00 p.m. GRR 010 Mentor: Matthew Hart KIRKHOF CENTER Nature's Truth Supplement Including Red Beetroot Induce Vasodilation in Porcine Coronary Arteries 12:00 p.m. -Presenters: Jarrett Budde, Carter Bechtel, Luis Vidal, Daniel Nichols, Drew Smith, Thu Le 1:00 p.m. GRR 019 Mentor: Francis Sylvester KIRKHOF CENTER Urban-Rural Disparities in Trust for Medication Information: Physicians vs. Pharmacists 12:00 p.m. -Presenter: Kyle Kane Mentor: Suhila Sawesi 1:00 p.m. GRR 032 12:00 p.m. -KIRKHOF CENTER Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles Presenters: Ella Gaylord, Bryanna Tromp 1:00 p.m. GRR 035 KIRKHOF CENTER Synthesis of Tuberculosis Antibiotics with Various Halogen Substitution 12:00 p.m. -Presenters: Sophia McComb, Catey Engel, Anh Lan Nguyen, Julianna Cornwell, Brianna 1:00 p.m. **GRR 057** Rhodea Mentor: Matthew Hart 12:00 p.m. -KIRKHOF CENTER Designing Tuberculosis Drugs with Increasing Ester Chains Presenter: Corine Elian 1:00 p.m. GRR 059 12:00 p.m. -KIRKHOF CENTER Assessing Geohydrological Challenges in Constructing Wetlands Using Monitoring Wells and Sedimentary Profiles at a Field Site in South Presenter: Delaney Novach Central Michigan 1:00 p.m. GRR 063 Mentor: Peter Riemersma KIRKHOF CENTER Summer at the Smithsonian: A Conservation Internship 12:00 p.m. -Presenter: Zachary Glovier 1:00 p.m. GRR 071 Mentor: Sigrid Danielson KIRKHOF CENTER Structural and Functional Studies of Bacilliredoxins: Enzymes Involved in Redox Homeostasis in Gram-Positive Bacteria 12:00 p.m. -Presenters: Lily Sorensen, Annika Hawley 1:00 p.m. GRR 089 Mentor: Paul Cook 12:00 p.m. -KIRKHOF CENTER "We must Cultivate Our Garden": Interpreting Voltaire's Candide (1759) Presenter: Aner Schuyler 1:00 p.m. GRR 098 Mentor: David Eick 12:00 p.m. -**HENRY HALL** Health Literacy and Its Impact on Patient Compliance and Health Outcome Presenters: Madelline Waite, Bree Potter, Allison Guo ATRIUM 023 2:00 p.m. Mentor: Lilianne Nelson 12:00 p.m. -**HENRY HALL** Presenter: Jamie Valkenburg Isoforms of GAP-43: Making Connections to Alzheimer's Disease 2:00 p.m. ATRIUM 043 12:00 p.m. -**HENRY HALL** Presenters: Dale VanBaren, Evan Mann, Lucian Forestieri, Wesley Barnes Synthesis of TB Antibiotics: Cinnamamide Derivatives 2:00 p.m. ATRIUM 080 Mentor: Matthew Hart 12:00 p.m. -**HENRY HALL** PDK1 Knockdown in the Presence of Alpha-Synuclein in *Drosophila* Presenter: Jade Dawson Mentor: Georgette Sass 2:00 p.m. ATRIUM 094 12:00 p.m. -KIRKHOF CENTER Improving Efficiency of Underlying Solvers for Quantum Scattering Presenter: Hannah Shaw 2:00 p.m. GRR 073 Mentor: Erin Carrier 12:00 p.m. -**HENRY HALL** Isoforms of GAP-43: Making Connections to Alzheimer's Disease Presenter: Cleary Welsh 3:00 p.m. ATRIUM 043 KIRKHOF CENTER Synthesis of TB Antibiotics with Naphthylene Substituted Amides 12:00 p.m. -Presenters: Beck Shores, Tyler Cooper, Elizabeth Yamine, Devin Chung, Gracie Willett 3:00 p.m. GRR 064 Mentor: Matthew Hart 12:00 p.m. -KIRKHOF CENTER Assessing the Impact of Timber Harvesting on Soil Erosion and Sediment Transport in the Au Sable Watershed Presenter: Alexander Baetz 5:00 p.m. GRR 075 Mentor: Sean Woznicki 1:00 p.m. - 2:00 HENRY HALL An Expanding Role of Protein Kinase N (Pkn) as a Rho1 Effector in *Drosophila melanogaster* Presenters: Lia Quatro, Molly McGuire ATRIUM 001 Mentor: Georgette Sass p.m. 1:00 p.m. - 2:00 HENRY HALL Unsheltered and Underserved: Increasing Access for the Most Vulnerable Presenter: Jaimee Ackley ATRIUM 017 Mentor: Jamie Langlois p.m. 1:00 p.m. - 2:00 HENRY HALL Neglected Tropical Diseases as a Doorway to Discuss Science with Kids Presenter: Brookelyn Rought Mentor: Viviane Correa Santos ATRIUM 022 p.m. Presenters: Abdikeni Sharif, Daniel Nichols 1:00 p.m. - 2:00 HENRY HALL Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the ATRIUM 025 PATHWAYS Project 1:00 p.m. - 2:00 HENRY HALL The Impact of an ATG8-Like Gene on Regeneration in Schmidtea mediterranea Presenter: Luke Filthaut ATRIUM 032 Mentor: Matthew Christians 1:00 p.m. - 2:00 HENRY HALL Rescuing Candida albicans Adhesion and Stress Resistance Defects in Yeast-Locked Strains Presenter: Chad Britton ATRIUM 038 Mentors: Ian Cleary, Derek Thomas p.m. 1:00 p.m. - 2:00 HENRY HALL Presenter: John Lawrence Diel Dissolved Oxygen Fluxes in Littoral and Open-Water Habitats of Muskegon Lake ATRIUM 046 Mentors: Bopaiah Biddanda, Carl Ruetz p.m. 1:00 p.m. - 2:00 HENRY HALL Predicting and Learning in the Chemistry Classroom Presenter: Lilly Helsel Mentor: Brittland DeKorver ATRIUM 057 p.m. 1:00 p.m. - 2:00 HENRY HALL Effect of Polar Mutations in Salmonella enterica Serovar Typhimurium Specific Genes on Fitness and Biofilm Formation Presenter: Chelsea Aiken p.m. ATRIUM 058 Mentor: Aaron Baxter 1:00 p.m. - 2:00 HENRY HALL Synthesis of Antibiotics to Treat Tuberculosis with Electron Donating Groups and Ester Substitutions Presenters: Olivia Ignasiak, Ishmael Nash ATRIUM 064 p.m. 1:00 p.m. - 2:00 HENRY HALL Promoting Paraphernalia in Peru Presenters: Ruth Yeboah, Amanda Anka, Maxwell Ritchie ATRIUM 068 Mentor: Anthony Spencer p.m. 1:00 p.m. - 2:00 HENRY HALL Awe and Metaphor Presenter: Morgan Braddock ATRIUM 071 p.m. 1:00 p.m. - 2:00 HENRY HALL Synthesis and Analysis of Chalcones to Explore Potential Mechanisms in Episulfide Formation Presenters: Zachary Glovier, Lucas Anderson ATRIUM 081 Mentor: John Bender 1:00 p.m. - 2:00 HENRY HALL Characterization of Luminescent Lanthanide Complexes through Coordination Chemistry Presenter: Evelyn Schab ATRIUM 082 Mentors: Shannon Biros, John Bender 1:00 p.m. - 2:00 KIRKHOF CENTER Analysis of Druggability of Potential Tuberculosis Antibiotics Using Lipinski's Rule of Five Presenter: Nicolette Owen GRR 007 Mentor: Matthew Hart 1:00 p.m. - 2:00 KIRKHOF CENTER Understanding Bicuspid Aortic Valve: Global Prevalence, Genetic Factors, Long-Term Outcomes, Treatment Approaches and Knowledge Presenter: Ashley Sligh **GRR 008** Mentor: Ruijie Liu 1:00 p.m. - 2:00 KIRKHOF CENTER Mercury Analysis of Chironomidae Larva and Sediment Within Two Western Michigan Lakes. Presenter: Mitchell Fedewa GRR 009 Mentor: Ryan Otter 1:00 p.m. - 2:00 KIRKHOF CENTER Using Chalcones to Explore Carbonyl Chemistry Presenters: Matthew Bays, Richard Villegas **GRR 013** Mentor: John Bender 1:00 p.m. - 2:00 KIRKHOF CENTER Environmental Connectivity's Effect on Evolutionary Dynamics Presenter: Grant Gordon p.m. GRR 021 Mentor: Alexander Lalejini 1:00 p.m. - 2:00 KIRKHOF CENTER Social Justice Begins with ME! Presenters: Cassandra Lekas, Mackenzie Donohue GRR 028 1:00 p.m. - 2:00 KIRKHOF CENTER Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles Presenter: Morgan Righter **GRR 035** 1:00 p.m. - 2:00 KIRKHOF CENTER Biochemical Characterization of ADC-172, a Class C Beta Lactamase from Acinetobacter baumanni Presenter: Sierra Papa GRR 047 Mentor: Rachel Powers p.m. 1:00 p.m. - 2:00 KIRKHOF CENTER Designing Tuberculosis Drugs with Increasing Ester Chains Presenter: Diana Marroquin **GRR 059** 1:00 p.m. - 2:00 KIRKHOF CENTER The Burden of Disease: Impacts on the Occupied Palestinian Territory Presenter: Aner Schuyler GRR 067 Mentor: John Gabrosek 1:00 p.m. - 2:00 KIRKHOF CENTER Exploration of Vulnerabilities and Threat Mitigation of Service Function Chaining in Fog Computing Presenters: Fahim Morshed, Trevor Ouma GRR 074 Mentor: Sara Sutton 1:00 p.m. - 2:00 KIRKHOF CENTER Mutational Analysis of Aminoglycoside Nucleotidyltransferase(6)-la from Bacillus subtilis Presenter: Angela Tran GRR 082 Mentor: Brian Smith 1:00 p.m. - 2:00 KIRKHOF CENTER Relationship Between Mood and Cytokines in Treatment-Seeking Veterans. Presenters: Natasha Vaughn, Karis Gillen, Breanna Wallace **GRR 100** Mentor: Elizabeth Flandreau p.m. 1:00 p.m. - 3:00 KIRKHOF CENTER Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles Presenter: Lillian Curtis **GRR 035** 1:00 p.m. - 3:00 KIRKHOF CENTER Excavating Compliance: Repatriation and Museum Ethics Presenter: Emma Elliott GRR 036 Mentor: Steven Dorland 1:00 p.m. - 3:00 KIRKHOF CENTER Single Entity Electrochemical Collisions of S. saprophyticus in Iodide Solutions at Au Ultramicroelectrodes Presenter: Grace Connelly **GRR 085** Mentor: Scott Thorgaard p.m. 1:00 p.m. - 5:00 KIRKHOF CENTER Testing a Mindful Intervention to Reduce Cell Phone Use in College Students Presenters: Grace Nieboer, Emily Shane GRR 048 Mentor: Amanda Dillard p.m. 2:00 p.m. - 3:00 HENRY HALL Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the Presenter: Taylor Wimberley ATRIUM 025 p.m. 2:00 p.m. - 3:00 HENRY HALL Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary Presenter: Brenden Reid ATRIUM 055 2:00 p.m. - 3:00 HENRY HALL Synthesis of Antibiotics to Treat Tuberculosis with Electron Donating Groups and Ester Substitutions Presenters: Ava Stefanski, Zachary Schafer ATRIUM 064 p.m. 2:00 p.m. - 3:00 HENRY HALL Awe and Metaphor Presenter: Joseph Bombassei ATRIUM 071 p.m. 2:00 p.m. - 3:00 HENRY HALL Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs -Presenter: Natalie Cleary ATRIUM 084 p.m. 2:00 p.m. - 3:00 HENRY HALL Transfer of Cellulolytic Gene Cel7a into E. Coli Presenter: Cayden Steinebach ATRIUM 103 Mentor: Doug Graham p.m. 2:00 p.m. - 3:00 KIRKHOF CENTER Impact of Nitration of Various Phosphines for Use in Lewis Acid/Base Reactions with Various Heavy Metals Presenters: Owen Smythe, Rachel Duford **GRR 015** Mentor: John Bender p.m. Presenter: Ophelia Zornu 2:00 p.m. - 3:00 KIRKHOF CENTER Understanding Support: Experiences of African International Students in U.S. Universities p.m. **GRR 018** Mentor: Jamie Langlois 2:00 p.m. – 3:00 KIRKHOF CENTER Social Justice Begins with ME! Presenter: Della Chia GRR 028 p.m. 2:00 p.m. - 3:00 KIRKHOF CENTER Exercise as a Remedy: Combating Nursing Student Burnout Through Physical Activity Presenters: Sabina Anti, Paul Warutumo, Brianna Bredeweg Mentor: Madison Goodyke p.m. GRR 034 2:00 p.m. - 3:00 KIRKHOF CENTER Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles Presenter: Meghan VanDalen **GRR 035** p.m. 2:00 p.m. - 3:00 KIRKHOF CENTER Understanding Partner Social Dance: Motion Analysis of Salsa Dance Presenter: Magdalen Kyi **GRR 051** p.m. 2:00 p.m. - 3:00 KIRKHOF CENTER Number Sequences Generated by the Edge Covers of Fan Graphs Presenter: Marshall Nicholson **GRR 097** Mentor: Feryal Alayont 2:00 p.m. - 3:00 KIRKHOF CENTER Sugarloaf Key, Revisited: New Mineralogical and Stable Isotope Data from a Modern Dolomite-Forming Environment Presenter: Noah Valentine **GRR 110** Mentor: Ian Winkelstern p.m. 2:00 p.m. - 4:00 HENRY HALL Restrictions, Laws and Unfamiliarity: A Study of LGBTQ+ Perceptions and Concerns on Visiting Non-Western Cultures Presenter: Kaitlyn Martin ATRIUM 014 Mentor: Mohammed Lefrid p.m. 2:00 p.m. - 4:00 KIRKHOF CENTER Impact of Nitration of Various Phosphines for Use in Lewis Acid/Base Reactions with Various Heavy Metals Presenter: Michelle Brown **GRR 015** p.m. 3:00 p.m. - 4:00 HENRY HALL Synthesis and Reactivity of Phosphine Oxide and Selenium Compounds Presenters: Nicolette Owen, Abigail Miller ATRIUM 006 Mentor: John Bender p.m. 3:00 p.m. - 4:00 HENRY HALL Design, Synthesis and Evaluation of Novel Triazole Derivatives to Treat Tuberculosis Presenters: Tung Hoang, Taylor Meade ATRIUM 008 Mentor: Matthew Hart 3:00 p.m. - 4:00 HENRY HALL The Effects of Cannabinoids on Eating Behaviors in Rodents Presenter: Ethan Schroeder ATRIUM 028 Mentor: Natashia Swalve p.m. 3:00 p.m. - 4:00 HENRY HALL Awe and Metaphor Presenter: Ian Wilson ATRIUM 071 p.m. 3:00 p.m. - 4:00 HENRY HALL The Composition of the Gut Microbiome Modulates *C. elegans* Fitness in the Face of Viral Infection and Drug Exposure Presenter: Cayden Steinebach ATRIUM 072 Mentor: Doug Graham p.m. 3:00 p.m. – 4:00 KIRKHOF CENTER Dogs 'n' Roses Presenter: Summer Selles **GRR 002** Mentor: Dawn De Vries 3:00 p.m. - 4:00 KIRKHOF CENTER Synthesis, Spectroscopy, and Computational Investigations of 2-Cyano Phosphorine Presenter: Rachel Duford **GRR 004** Mentors: John Bender, Richard Lord p.m. 3:00 p.m. - 4:00 KIRKHOF CENTER Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles Presenters: Jacob Mertes, Noah Hadley **GRR 035** p.m. 3:00 p.m. - 4:00 KIRKHOF CENTER The Olive Tree Collection Presenter: Ian McGuckin GRR 045 Mentor: David Alvarez p.m. 3:00 p.m. - 4:00 KIRKHOF CENTER Understanding Partner Social Dance: Motion Analysis of Salsa Dance Presenters: Jackson Farrell, Kelly Peregrine GRR 051 3:00 p.m. – 4:00 KIRKHOF CENTER Voices in the Void Presenter: Breezy Rusher **GRR 058** Mentor: David Zwart p.m. 3:00 p.m. - 4:00 KIRKHOF CENTER Designing Tuberculosis Drugs with Increasing Ester Chains Presenter: Evelyn Schab p.m. **GRR 059** 3:00 p.m. - 4:00 KIRKHOF CENTER Communication Strategies and Health Literacy for Patients Diagnosed with Age-Related Macular Degeneration (AMD): A Scoping Review Presenters: Sydnie Greene, Ethan Fulton, Niam Abooalsaman, Jack Miller **GRR 060** Mentor: Julia VanderMolen p.m. 3:00 p.m. - 5:00 HENRY HALL Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary Presenter: Alexis Deephouse ATRIUM 056 Mentor: Matthew Cooper 3:00 p.m. - 5:00 KIRKHOF CENTER Establishing Rater Reliability in a Clinical Trial of Power Wheelchair Skills Training for Children with Cerebral Palsy Presenter: Micah Gordon **GRR 022** Mentor: Lisa Kenyon p.m. 3:00 p.m. - 5:00 KIRKHOF CENTER Rheumatic Heart Disease in Sub-Saharan Africa: What Is It and What Can We Do? Presenter: Esther Bard **GRR 093** Mentor: Ruijie Liu p.m. 4:00 p.m. - 5:00 HENRY HALL Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the Presenter: Jessica Lukins ATRIUM 025 PATHWAYS Project p.m. 4:00 p.m. - 5:00 HENRY HALL In Silico Analysis of Echinocandin Binding Modes to FKS1, 1,3- β -Glucan Synthase Presenter: Devin Chung ATRIUM 091 Mentors: Jack Sanford, Agnieszka Szarecka p.m. 4:00 p.m. - 5:00 HENRY HALL Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal Presenters: Alleigh Michalek, Arnica Sheaffer ATRIUM 101 p.m. 4:00 p.m. - 5:00 KIRKHOF CENTER Fresh Start: Expungement For Homeless Communities Presenters: MeKare Stoffers, Hannah DeVries, Madison Post, LaTonia Vernon, Aubrey **GRR 014** Brearley Mentor: Jamie Langlois 4:00 p.m. - 5:00 KIRKHOF CENTER Mammalian Teeth from the Great Divide Basin Presenter: Rose Pulte Mentor: Natalie Laudicina p.m. GRR 024