

# **28<sup>th</sup> Annual Undergraduate Research Symposium**

## **In-Person Poster Presentations**

April 25, 2025

2:00 PM – 3:00 PM Session

Gray-Little Hall, 2<sup>nd</sup> Floor Lobby

### **Presenters:**

**Parnian Arafti**, “Effect of Prochlorper on Glycogen Phosphorylase b,” *Poster Presentation #8*

**Christian Argueta**, “Black Holes and Blueprints: AGN as Galaxy Architects,” *Poster Presentation #46*

**Allison Babbitt**, “Modafinil as an Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #9*

**Anna Baklanov**, “Taurine as a Conditional Activator of Glycogen Phosphorylase b,” *Poster Presentation #10*

**Evan Barkus**, “The Effects of Filament Environments on Stellar Masses and Star Formation Rates,” *Poster Presentation #48*

**Cara Barone**, “Phonological Priming Effects in the Visual Modality,” *Poster Presentation #54*

**Bilhah Bengi**, “Environmental Policies review on Black Maternal Mortality and Morbidity,” *Poster Presentation #52*

**Marion Berzansky**, “Comparative Genomics of Olfactory Receptors in Tibetan Dog Breeds,” *Poster Presentation #4*

**Elizabeth Biegger**, “How Text Characteristics Impact Comprehension on the Gray Oral Reading Test, Fifth Edition in Autistic Children,” *Poster Presentation #49*

**Bella Bryant**, “Matcha as an Effector of Glycogen Phosphorylase b,” *Poster Presentation #11*

**Nathan Bui**, “Rapid Evolution of W Chromosome Repeat Content in Heliconius Butterflies,” *Poster Presentation #39*

**Hannah Chern**, “Leveraging Zebrafish as a Tool for Studying Cognitive Decline,” *Poster Presentation #7*

**Connor Cupp**, “Effect of First Generation Antihistamine Diphenhydramine on Glycogen Phosphorylase,” *Poster Presentation #12*

**Owen Dalton**, “Measuring Potential Sensory Tradeoff using Endocranial Casts in Peromyscus Maniculatus,” *Poster Presentation #5*

**Jesse DeBok, Manoj Turaga, Elijah Gabriel, Ceres Botkin, & Gianni Louisa** “A New Preemptive Scheduling Algorithm with Migration Costs and Fail Stop Fault Tolerance,” *Poster Presentation #38*

**Grace Dorst**, “Paleoclimate Reconstruction using Paleosols from the Cretaceous Dakota Fm. in Kansas,” *Poster Presentations #56*

**Brady Dunne**, “Unveiling the Stars: Hidden vs. Visible Star Formation Patterns in Ancient Galaxies,” *Poster Presentation #47*

**John Folscroft**, “Biotin's Role as an Effector of Glycogen Phosphorylase b,” *Poster Presentation #13*

**Della Galiano**, “Enhancing High-Throughput Drug Screening: RNAi, Physical, and Enzymatic Approaches to Cuticle Modification in Caenorhabditis elegans,” *Poster Presentation #41*

**Grace Haugh**, “Gabapentin as an Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #14*

**Reed Hodges**, “Effect of Generic NyQuil on Glycogen Phosphorylase b,” *Poster Presentation #15*

**Luke Jenkins**, “Changes in Peak Firing Rate vs Motor Unit Amplitude Relationships Throughout a Resistance Training Session,” *Poster Presentation #6*

**Katherine Lenz**, “Meclizine HCl as a Potential Effector of Glycogen Phosphorylase b” *Poster Presentation #16*

**Ethan Luu**, “Spicing Up Metabolism: Testing the Effect of Cinnamon on Glycogen Phosphorylase” *Poster Presentation #17*

**Maddox Magathan & Tise Babatope-Ojo**, “Physiological Effects of the Autonomous Sensory Meridian Response,” *Poster Presentation #53*

**Ashwin Makkapati**, “Effects of Cyanocobalamin (Vitamin B12) on Glycogen Phosphorylase,” *Poster Presentation #18*

**Eduardo Marquez**, “Ascorbic Acid as an Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #19*

**Alex Martinez**, “Hydrocodone as an Activator/Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #20*

**Elise McCall**, “Vitamin D3 as an Activator of Glycogen Phosphorylase b,” *Poster Presentation #21*

**Hailey Meggers**, “The Effect of Hydroxyzine on Glycogen Phosphorylase b,” *Poster Presentation #22*

**Conner Mispagel**, “Gimbale Thrust Applications in Amateur High-Powered Rocketry,” *Poster Presentation #40*

**Pranshu Modi & Darsh Lad**, “Skin MicroBioME Project,” *Poster Presentation #3*

**Darya Moiny**, “Structure of Benzyl Isothiocyanate Self-Assembled Monolayers on Au(111)/Mica Surfaces,” *Poster Presentation #37*

**Blake Moore**, “The Effect of L-carnitine on Glycogen Phosphorylase b Activity,” *Poster Presentation #23*

**William Morris**, “Quantum Fourier Transform, Possibilities and Limitations,” *Poster Presentation #44*

**Jaylinn Nguyen**, “Vitamin B12 as an Effector of Glycogen Phosphorylase b,” *Poster Presentation #24*

**Meghana Nukala**, “Coriander as an Effector of Glycogen Phosphorylase b,” *Poster Presentation #25*

**Olivia Oliva**, “Mining of the Future in Kansas: Environmental Justice Considerations,”  
*Poster Presentation #60*

**William O’Sullivan**, “Ashwagandha as an Activator of Glycogen Phosphorylase b,”  
*Poster Presentation #26*

**Kyle Pacheco**, “Assessing Geogenic Arsenic Contamination in Groundwater, Surface Water, and Wells: Implications for Public Health,” *Poster Presentation #2*

**Abe Pankratz**, “Environmental Impacts of Zeolite Synthesis for use in PFAS Remediation,” *Poster Presentation #42*

**Dakota Paris**, “Zinc Magnesium as an Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #27*

**Madison Pham**, “Effect of GU Liquid Energy Gel on Glycogen Phosphorylase b,”  
*Poster Presentation #28*

**Rita Pham**, “Discrimination of the Hoa: Historical Tension, Threat Perception, and the Country-of-Origin Effect on the Ethnic Chinese Community in Vietnam,” *Poster Presentation #59*

**Ethan Rogers**, “Citrate as a Positive Effector of Glycogen Phosphorylase b,” *Poster Presentation #29*

**Noah Rookstool**, “Effects of Creatine HCl on Glycogen Phosphorylase b,” *Poster Presentation #30*

**Maya Routh**, “Geant4 Simulation of BRAN Luminosity Monitor,” *Poster Presentation #45*

**Cortlyn Ruckman, Margaret McConnell, Anna Laubenstein, David Porter, Ella Lagoski, & Susanna Thimmesch**, “Memory Tag Project,” *Poster Presentation #58*

**Swayer Schmidt**, “Effect of Calcium Citrate on Glycogen Phosphorylase b,” *Poster Presentation #31*

**Nataley Schumaker**, “Negotiating a Hybrid Japanese American Identity: An Analysis of Cultural Celebrations in Internment Camp Newspapers,” *Poster Presentation #57*

**Caden Simmons**, “Modeling Fertilizer Runoff and Nitrate Formation in a Simulated Aquifer System,” *Poster Presentation #1*

**Ashley Simpson**, “Impact of Zoloft on Glucose Phosphorylase b: An Enzyme Assay Analysis,” *Poster Presentation #32*

**Molly Sullivan**, “Autistic Children’s Attention to Social Information’s Impact on Theory of Mind,” *Poster Presentation #50*

**Aspen Thomas**, “Developing a Genetic Transformation Protocol for Penstemon Using a Visible Marker,” *Poster Presentation #43*

**Leyton Tinberg**, “Effects of Green Tea Extract on Glycogen Phosphorylase b,” *Poster Presentation #33*

**McKinley Wamser**, “Acetyl-L-Carnitine alpha Lipoic-acid as a Partial Inhibitor of Glycogen Phosphorylase b,” *Poster Presentation #34*

**Domanic Weis**, “Potential Adverse Effects of Benadryl on Glycogen Phosphorylase b,” *Poster Presentation #35*

**Catie Wickersham**, “Potential Implications of the Spatial Distribution of Artifacts at the Bender Site,” *Poster Presentation #55*

**Sofie Young**, “An Analysis of Social Communication Components and its Related Hierarchy in Autistic Children,” *Poster Presentation #51*

**Lisa Zheng**, “The Effect of Generic Benadryl on Glycogen Phosphorylase b Activity,” *Poster Presentation #36*

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