

2023 Poster Presenters

Presenter	#	Faculty	Title
Vanessa Addison	27	John Buchan	Rsp5/NEDD4 facilitates the endolysosomal clearance of TDP-43 in ALS pathology.
Taiya Alvarez-Williams	54	Dennis Lichtenberger	Infrared Region Engineering and Analysis on Substituted Styrene Molecules for Investigating Long-Wave IR Window Transparency
Janelle Amegatse	3	Thomas Gianetti	Stable Carbocation Helicenium Dimer and Trimers
Jonah Balsa	28	George Sutphin	3-hydroxyanthranilic acid immune activity in <i>Caenorhabditis elegans</i>
Olivia Bertuca	11	Ravishankar Palanivelu	Screening for Thermotolerance in Wild Tomato Plant Accessions
Katelyn Boone	16	Kaveh Laksari	Characterizing the Kinematics of a Rotational Impactor to Study Traumatic Brain Injury in Small Animals
Elizabeth Browne	52	John Jewett	Development of Aryl Diazonium Ion (ADI) Probes to Study Biological Systems
Yoneri Bueno-Diaz	10	Walter Betancourt	Water Treatment and Filtration Methods
Preston Buttery	29	Brian Enquist	The Influence of Elevation Change on Phosphorus Composition of Peruvian Plants
Cristian Chavira	44	Joann Sweasy	A collapsed fingers subdomain is the basis for DNA Polymerase β I260M mutator activity
Wesley Chiu	47	Roberto Guzman	Development and Modeling of Chitosan Nanoparticles for Antidepressant Drug Delivery
Kaitlyn Chung	30	Walter Betancourt	Evaluation of Viral Indicators of Advanced Physical Treatment for Potable Reuse
Madison Cook	22	Carol Dieckmann	Fatty acid attachment in yeast mitochondrial protein complex
Caroline Coppinger	12	Zhongguo Xiong	Efficiency of Self-Cleavage 2A Peptides in Fusion Proteins Expressed in a Plant Virus Vector
Alexis Cruickshank-Taylor	23	Nancy Horton	Creation of SgrAI Dimer Construct to Form a Binary Complex
Anthony DiGirolamo	1	Dennis Lichtenberger	The synthesis and characterization of open system metallopolymer catalysts
Kyla Ditoro	53	Craig Aspinwall	Lipid Bilayer based Ion Selective Electrodes
Julie Fan	25	Samantha Harris	Reduced expression of cMyBP-C protein across left heart chambers for mice and cat models
Luke Fasse	4	Thomas Gianetti	Stable Carbocation Helicenium Dimer and Trimers
Nicole Ferguson	38	Erika Eggers	Impacts of a High-Fat Diet on the Neurovascular Unit of the Inner Retina
Jacob Fredman	5	Robin Polt	Synthetic Methods and Optimizations of Serine Glycosides for Use in PACAP Drug Analogues
Carson Freeling	19	Thomas Tomasiak	Bioinformatic Identification and Analysis of <i>Candida glabrata</i> Ybt1 as a Putative Vacuolar ABC Transporter
Parker Geffre	32	Laura Meredith	Real-time Online Analysis of Soil Isoprene Diffusion: Drivers of Biotic Consumption and Implications for Biogenic Volatile Organic Compounds as Biomarkers of Soil Health
Madison Grams	6	Elisa Tomat	Reactivity and uptake of an iron prochelator in the presence of N-acetylcysteine in cancer cells
Sidney Haigler	48	Adam Printz	Silane Surface Modifications and their Influence on Perovskite Solar Cell Films

Aunita Hakimi	17	Ross Buchan	INVESTIGATING THE ROLE OF STRESS GRANULES IN THE CELL CYCLE AND DNA DAMAGE RESPONSE
Veronica Hode	14	Edita Navratilova	Exploring the Role of Prolactin in Endometriosis-Associated Pain
Clare Hotze	18	Thomas Tomasiak	Investigating the substrate recognition of the human L-cystine/L-glutamate antiporter, xCT
Rachel Hurley	33	Todd Schlenke	Characterization of vitellogenin-like leader sequences for trafficking Cas9 into developing parasitoid embryos
Isaac Kailat	7	Michael Taylor	Design of pH-sensing pyridinium probe
Ben Koppe	9	Veaceslav Coropceanu	Vibronic Theory of Stark Effect in Donor-Acceptor Systems
Terese Kulangara	35	Richard Simpson	The Effect of Aging on Military Readiness in a Retired Elite Soldier - A Case Study
Brent Lee	21	Matthew Cordes	Investigating Sphingomyelinase Activity of Sicarius Beta-1-F proteins
Melissa Lim	46	Jeong-Yeol Yoon	Handheld, Autofluorescence Identification of Soil Microbiome
Shayna Maddern	41	Chris Hulme	The design and synthesis of Proteolysis Targeting Chimeras towards degradation of Dual-Specificity Tyrosine-Regulated Kinases
Maddie Milner	20	Thomas Tomasiak	Investigating the molecular basis of Zn ²⁺ -dependent immune regulation by a SARS-CoV-2 envelope protein
Nicholas Mortimore	26	Ross Buchan	Developing a Screen for 3' UTR Scaffolding of Protein-Protein Interactions in <i>S. cerevisiae</i>
Victoria Munoz	55	Dennis Lichtenberger	Computational vs. Experimental Window Transparency Values for Chloroform and Thiophene
Sami Muslmani	45	Marvin Slepian	COVID-19-Associated Cytokine Storm in Mechanical Circulatory Support: An In-Vitro Study
Christopher	42	John Streicher	Creation of Fluorine-18 Radiotracer for Positron Emission Tomography in neurological disease
Jack Nichols	49	Stephen Kukolich	Rotational Spectra of Deuterated Isotopologues of 2-aminopyridine and Microwave Spectrometer Development
Andre Oropeza	31	Zhongguo Xiong	Engineering a Pepino mosaic virus (PepMV) mutant with an 18 amino acid deletion at the N-terminus of the coat protein to allow display of larger foreign peptides on the surface of viral nanoparticles
Emmie Andrea Ortizo	43	Edward Gelmann	NKX3.1: Multifunctional Homeodomain Protein and Prostate Tumor Suppressor
Ronald Palmenberg	8	Michael Taylor	Synthesis of Quinolinium Probes for Bioconjugation Applications
Giang Pham	51	Minying Cai	Design of novel human MC4R selective ligands
Briana Pomales	2	Dennis Lichtenberger	The Modification of Modern Electrolysis Cells to Catalyze Hydrogen and Characterize Metallopolymers
Krista Potter	37	Fiona McCarthy	Chicken Gene Nomenclature for Olfactory Receptors
Eric Primack	50	Michael F. Brown	A Biochemical Perspective on Rhodopsin
Hillary Schiff	40	Scott Boitano	Biased proteinase-activated receptor-2 antagonists preferentially limits allergen-induced airway hyperresponsiveness and inflammation while allowing for bronchorelaxation
Caleb Seekins	15	John Streicher	Intermittent Fasting Boosts Opioid Antinociception by Enhancing SRC Kinase Signaling in the Spinal Cords of Male Mice

Emma Slenkovich	13	Aneta Kielar	The methods, neuromechanism, and applications of tDCS in treatment for neurological disorders
Allison Steedman	39	Felicia Goodrum	Human Cytomegalovirus Induced Changes in Low-Density Lipoprotein Receptor Expression and Trafficking
Megan Teramoto	24	Nancy Horton	A preliminary investigation of the interaction between Human Parvovirus B19's NS1 protein and various human proteins
Grace Thatigiri	36	Purnima Madhivanan	Family adaptation to COVID-19 stressors on the US-Mexico Border
Hayley Wondra	34	Kirsten Limesand	Targeted Yap Disruption in Aquaporin Cells