33RD ANNUAL UBRP CONFERENCE - LIST OF POSTER PRESENTERS

Poster #	Student Presenter Name	Poster Title	Faculty Mentor	Location
1	Hrithik Aghav	Effects of Wing Bristles and Wing Flexibility on the Aerodynamics of	Laura Miller	1st Floor Outside
		the Smallest Flying Insects		
2	Makenna Aitken	Tissue Compression Design in Optical Coherence Elastography for Early	Jennifer Barton	1st Floor Outside
		Detection of Cancer		
3	Geethika Ameneni	Bisphosphonate effects on quiescent bone-disseminated tumor cells in	Janet Funk	1st Floor Outside
		a pre-clinical model of bone metastatic ER+ breast cancer		
4	Amal Anilkumar	Identifying Cardiac Wall Strain to Assess Chronic Heart Failure in a	Steven Goldman	1st Floor Outside
		Swine Model		
5	Shruti Attreya	RAGE Against the Infection: Determining the Role of the Receptor for	Anita Koshy	1st Floor Outside
		AGE (RAGE) in Toxoplasma Gondii Infection		
6	Michael Becenti	The Role of Nitric Oxide Synthase 2 in Triple-Negative Breast Cancer	Ronald Heimark	1st Floor Outside
7	LeCario Benashley	Paclitaxel Treatment Effects on Neurofilament Light Chain, a Possible	Jennifer W. Bea	1st Floor Outside
		Biomarker of Chemotherapy Induced Peripheral Neuropathy (CIPN)		
8	Elizabeth Browne	Tuning the Reactivity of Aryl Diazonium Ion (ADI) Probes to Biological	John Jewett	1st Floor Outside
		Systems of Interest		
9	Thai Bui	Terpenes from Cannabis sativa Synergize with Opioids to Produce	John Streicher	1st Floor Outside
		Enhanced Pain Relief in Chemotherapy-Induced Peripheral Neuropathy		
10	Hannah Burns	Age-Related Differences in Resting-State Cognition: An Adapted Think-	Jessica Andrews-Hanna	1st Floor Outside
		Aloud Paradigm		
11	Rhea Carlson	Diffusion MRI validation by polarized light imaging in healthy human	Elizabeth Hutchinson	1st Floor Outside
		and Alzheimer's Disease post-mortem hippocampus		
12	Nicole Carmiol	Quantifying phenotypic outputs of Protein Kinase A in S. cerevisiae in	Andrew Capaldi	1st Floor Outside
		response to nutrient inputs		
13	Joshua Castillo	Investigating PIKFYVE as a therapeutic target in TDP-43 proteinopathy	Daniela Zarnescu	1st Floor Outside
		using Drosophila models of ALS		
14	Caity Cegavske	Emotion Regulation vs. Internal Focus as Predictors of Negative Mood	Jessica Andrews-Hanna	1st Floor Outside
		State Recovery		
15	Carly Chellman	S6K and 4EBP-1 effect on the lifespan of TDP-43 ALS Models	Daniela Zarnescu	1st Floor Outside
16	Kerry Chou	Systemic Isoform-Selective Heat Shock Protein 90 Inhibitors Improve	John Streicher	1st Floor Outside
		the Therapeutic Index of Morphine		

(in alphabetical order by last name)

17	Cecilia Coloma-Roessle	Dose-Dependent Effects of TMEM184b on Neuromuscular Junction Maintenance	Martha Bhattacharya	1st Floor Outside
18	Leamon Crooms IV		Steven J Mack	1st Floor Outside
19	Lauren Cruz	Real World Goal Setting and Follow-through in Young and Older Adults	Matthew Grilli	1st Floor Outside
20	Charbel Curiel	The Renal And Cardiovascular Effects of Exercise in the DOCA-Salt Rat Hypertension Model	Christopher Banek	1st Floor Outside
21	Camille DeMarcus	Enhancing Engagement in Technology Based Mental Health Care for Cancer Patients: A Scoping Review	Karen Weihs	1st Floor Outside
22	Angela Ding	Characterization of the ZDSD Model and Treatment of Oligofructose	Frank Duca	1st Floor Outside
23	Amy Fan	Investigating a degradation mechanism of Trp398* mutant Leiomodin 2	Carol C. Gregorio	1st Floor Outside
24	Isabella Feldmann	Determining the Role of Ras Family GTPase Rap1 in Regulating mTORC2 Function in Cell Migration	Pascale Charest	1st Floor Outside
25	Sydney Field	Implications of <i>Helicobacter pylori</i> infectivity following exposures to arsenic	Marc Verhougstraete	1st Floor Outside
26	Love Foster-Malave	Measuring the Impact of MTI-101 on Integrin Subunit Localization in Prostate Cancer Cell Lines Using Immunofluorescence	Cynthia Miranti	1st Floor Outside
27	Gabriela Franca	RNAscope to Quantify Transcription of 5HT2A Receptor in Prefrontal Cortex of Rats with Spared Nerve Injury	Arthur Riegel	1st Floor Outside
28	Anna Gabrielsen	Novel T-Type Calcium Channel Modulating Compounds Reduce Depolarization Induced Calcium Influx in DRG Sensory Neurons	Rajesh Khanna	1st Floor Outside
29	Cynthia Ge	The Self-Assembled Nanostructure Of Human Keratin For The Biomimetic Coating Application	Minkyu Kim	1st Floor Outside
30	Parker Geffre	Using a Novel Sensor for Detection of Subsurface Volatile Organic Compounds	Laura Meredith	1st Floor Outside
31	Amanda Gong	How in utero and neonatal nicotine exposure (DNE) alters GABAAR-α1 expression on hypoglossal motor neurons (XIIMN)	Ralph Fregosi	1st Floor Outside
32	Karina Gonzalez	Mixing Chemistry with Nanotechnology to Rewrite the Modern Recipe for Cancer Chemotherapeutics	Jianqin Lu	1st Floor Outside
33	Justin Grigory	Distinct Growth Phenotypes Affect Nitrogen Cycling in Bioenergy Crop S	Laura Meredith	1st Floor Outside
34	Paolo Guerra	Defining Genetic Interactions Between RNA Helicases Ded1 and eIF4G1	1	1st Floor Outside
35	Joshua Hack	Predicting Disease Severity Outcome in SCN8A-DEE Patients	Michael Hammer	1st Floor Outside

36	Grace Hala'ufia	Quantifying Dementia-Relevant Behavioral Phenotypes in a Drosophila	Daniela Zarnescu	1st Floor Outside
		Model of TDP-43 Proteinopathy		
37	Anne Haskins	3 hydroxyanthranilic acid inhibits bacterial growth to increase	George Sutphin	S230
		pathogen resistance in aging Caenorhabditis elegans		
38	Giovanni Hernandez-De La Pena	The amplitude and frequency of respiratory motor output could be	Ralph Fregosi	S230
		altered by cotinine in the brainstem spinal cord preparation from		
		neonatal rats		
39	Shelby Herrick	Arsenic Represses Airway Epithelial Mucin Expression by Affecting	Yin Chen	S230
		Retinoic Acid Signaling Pathway		
41	Advait Jeevanandaam	Human Papillomavirus attenuates the innate DNA sensor cGAS to	Samuel Campos	S230
		downregulate antiviral response		
42	David Jurkowitz	Lipid Environment Effects on Metarhodopsin Equilibrium Under	Michael Brown	S230
		Osmotic Stress		
43	Elijah Keeswood	Loss of Integrin Function Blocks 3D Invasion Phenotypes	Anne E. Cress	S230
44	Dong Kyun Kim	Forming filaments with enzymes: a potential mechanism for plants to	Frans Tax	S230
		adjust to stressful environmental conditions		
45	Sun Woo Kim	How do observers divide visual attention between interacting social	Katalin Gothard	S230
		partners?		
46	Shyanne King	Determining the Role of Nuclear EGFR in Driving Metastatic Breast	Joyce Schroeder	S230
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47	Rachel Knight	Development of a Highthroughput Screening Assay for a Glyoxalse II	James Galligan	S230
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48	Heather Kwapiszeski	Immune Alterations in Choroid Plexus of ALS and other	Nadine Bakkar	S230
		Neurodegenerative Diseases		
49	Elizabeth Hanh Le	The Effects of APOE4 Genetic Polymorphism on Ischemic Stroke	Kristian Doyle	S230
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50	Brent Lee	Investigating sphingomyelinase activity of New World Sicarius	Matthew HJ Cordes	S230
		Phospholipase D (PLD) toxins		
51	Hyeon Seung Lee	CDHR3 Research on RV-C Binding for CRS Exacerbations	Eugene H. Chang	S230
52	Brianna Lent	Identification of the Site of Action of Cannabis Terpenes in Relieving	John Streicher	S230
		Neuropathic Pain		
53	Lane Lewis	A Novel CUR Decomposition Algorithm with Applications to Neural	Kevin Lin	S230
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54	Brooke Linden	VTC5 is a Novel Regulator of TORC1 in Saccharomyces cerevisiae	Andrew Capaldi	S230
55	Braden Lopez	Investigating Ryanodine Receptor 2 (RyR2) Effect on Drug Conditioned	Arthur Riegel	S230
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56	Jesus Lujan	Testing the Therapeutic Potential of Glycosylated Pituitary Adenylate Cyclase-Activating Polypeptide in the Context of Parkinson's Disease	Lalitha Madhavan	S230
57	Kyleigh Masterson	Novel compound found in Parthenium incanum reduces calcium density in sensory neurons as potential treatment for chronic pain	Rajesh Khanna	S230
58	Maile McSwain	Investigating the Effect of Di-n-butyl Phthalate on Ovarian Follicle Counts	Zelieann Craig	S230
59	Chloe Mikolajczyk	Identifying the Functions of Solute Carrier Proteins	Deepta Bhattacharya	S230
60	Bassam Mitri	PKA target motif as potential determining factor in substrate phosphorylation pattern	Andrew Capaldi	S225
61	Atley Moberly	The Role of G2L1 in Microtubule and Actin-based Insulin-Stimulated Delivery of Glucose Transporter 4 to the Plasma Membrane	Paul Langlais	S225
62	Nicholas Mortimore	Metabolism: Key Dysregulated Pathways in a Drosophila Model of ALS	Daniela Zarnescu	S225
63	Isabelle Mundo	Effects of Torin and Rapamycin on mTOR Activity in Non-Transformed Breast Epithelial Cells	Pascale Charest	S225
64	Sami Muslmani	COVID-19-Associated Cytokine Storm in Mechanical Circulatory Support: An In Vitro Study	Marvin Slepian	S225
65	Cassandra Myers	Genetic Polymorphisms in Patients with Non-Alcoholic Steatohepatitis	Nathan Cherrington	S225
66	Kris Narisawa	Evaluation of possible sleep disruption in mouse models of migraine- like pain induced by nitroglycerin or dural inflammatory mediators	Frank Porreca	S225
67	Nhat Nguyen	Studying gene-environment interactions in Parkinson's disease	Lalitha Madhavan	S225
68	Vivian Nguyen	Modeling structural adaptation and pruning of blood vessels connected in parallel: implications for control of capillary density	Timothy Secomb	S225
69	Chidinma Ogbonnaya	Acetaminophen Alters the Integrity of the Blood-Brain Barrier through Disruption of Claudin-5 at the Tight Junction	Patrick Ronaldson	S225
70	Eva Orozco	Investigating the Relationship between Age, Stress, and Stress Granule Dynamics in <i>Drosophila</i>	Daniela Zarnescu	S223
71	Kayleigh Paddock	Noise-induced sleep disruption reduces orexin, orexin 1 receptor, and heme-regulated inhibitor mRNA in female rats	Jennifer Teske	S223
72	Grace Parekh	The Effects of E-cigarette Vaping on Respiratory Function and Bone Composition in Mice	Todd Vanderah	S223
73	Chloe Park	Role of a Putative Copper Transporter Gene (TGME49_249200) in Toxoplasma gondii Encystment	Anita Koshy	S223
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75	Bhumika Phanindra	Tight Junction Proteins and Secondary Bile Acids role in Amplifying Necrotizing Enterocolitis	Melissa Halpern	S223
76	Danielle Philo	Analysis of antibody repertoire following SARS-CoV-2 infection through patient-derived monoclonal antibodies	Deepta Bhattacharya	S223
77	Collin Preszler	Automated Slice Extraction and Segmentation for Registration of Multimodal Images for Hemodynamic Analysis	Elizabeth Hutchinson	S223
80	Hannah Quick	Investigating Tc-eve enhancer function in contrasting models of segmentation	Lisa Nagy	2nd Floor Outside
40	Elizabeth Reddell	Acetaminophen Alters the Integrity of the Blood-Brain Barrier through Disruption of Claudin-5 at the Tight Junction	Patrick Ronaldson	S230
78	Kayla Reddy	Acetic Acid Protects Drosophila melanogaster From Parasitoid Wasps	Todd Schlenke	2nd Floor Outside
79	Jared Rhodes	Evaluation of cSNX1.3 peptide in EGF-dependent cancer phenotypes	Joyce Schroeder	2nd Floor Outside
81	Rudolph Rodriguez	Cancer Survivor with Chemobrain Displays Improvement in Memory after Brain Stimulation	Ying-hui Chou	2nd Floor Outside
82	Anakaren Romero-Lozano	Enhanced Cerebrospinal Fluid Transport under Dexmedetomidine in Rat is Detectable using T2 Relaxometry and Tensor-Based Morphometry	Elizabeth Hutchinson	2nd Floor Outside
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85	Andrea Savu	Ca2+ Spark Activity is Not Changed in Cerebral Artery Smooth Muscle Cells from the 5x-FAD Mouse Model of Alzheimer's Disease	Paulo W. Pires	S215
86	Hillary Schiff	Biased PAR2 antagonist C781 limits allergen-induced acute asthma response in vivo	Scott Boitano	S215
87	Zachary Schlamowitz	Can Math Cure Cancer? Mathematically Modeling Treatment of EGFR- Mutant Lung Cancer	Andrew Paek	S215
88	Siena Schoelen	An Exploration of Chunking in School-Aged Children	Mary Alt	S215
89	Caleb Seekins	Determining the Site of Analgesic Action of Terpenes from <i>Cannabis</i> sativa Using Intracerebroventricular Injection	John Streicher	S215
90	Ali Shaikh	Determining the Relation between MTA and HDAC Proteins in the NuRD Complex	Catharine L. Smith	S215
91	Hasina Shir	Feasibility of Non-Imaging Second Harmonic Generation to Identify Early Ovarian Cancer in a Murine Model	Jennifer Barton	S215

92	Ashwin Siby	Probing Ded1-Ded1 interactions in vivo using a bimolecular	Timothy Bolger	S215
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93	Vanessa Silbar	Automated robotic system expansion for monitoring Caenorhabditis	George Sutphin	S215
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97	Christopher Sterzinar	Can Rats 'Read' a Map?	Jean-Marc Fellous	2nd Floor Outside
98	Alexandra Sundman	Medically Important Phospholipase Toxins May Have Evolved from a	Matthew Cordes	2nd Floor Outside
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99	Niall Thorns	The Impact of haao-1 Knockdown Initiated at Different Stages of Life	George Sutphin	2nd Floor Outside
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100	Sayujya Timilsena	Spatial Navigation in a Dynamic Environment	Jean-Marc Fellous	2nd Floor Outside
101	Isaiah Toth	Selfing Sisters: Exploration of the Mechanism of Self-Incompatibility in	Mark Beilstein	2nd Floor Outside
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104	Esteban Ureña	Retigabine Produces Dose-Dependent Changes in the Self-	Arthur Riegel	2nd Floor Outside
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105	Carlos Urrea-De La Puerta	The Effect of Dissolved Oxygen in Recombinant Keratin Synthesis for	Minkyu Kim	2nd Floor Outside
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106	Meiven Yang	Mapping Host-Virus Interactions Important to HCMV Latency	Felicia Goodrum	2nd Floor Outside
107	Suetmui Yu	Regulation of ZIP8 by Manganese	Ningning Zhao	2nd Floor Outside