



Celebration of Science Poster Session

Thursday, October 19, 2023 5pm-7pm Lobby SRC

Presenter	Division	Poster #	Mentor	Title
Diane Mendoza, Hannah Thomas	Psychology	1	Dr. Elisa Na	The effects of chronic mild stress on traumatic brain injury recovery in adult mice
Daniela Leyva-Zaldivar	Biology	2	Dr. Dayna Averitt	Sensory Neurons and Glial Cells of the Trigeminal Ganglia are Comparable Between Male and Female Rats During Stress-Exacerbated Orofacial Pain
Breanna Welty	Biology	3	Drs. Laura Hanson and Michael Bergel	Studies on chromatin compaction in response to cell stress signals
Youjin Kim	Chemistry	4	Dr. Shiru Lin	Computational Chemistry on Investigating Copper, Carbon-doped Graphene Catalyst for CO2 Reduction Reactions
Damon Brown	Chemistry	5	Dr. John Beatty	Understanding the behavior chlorhexidine breakdown: Reducing the impact on health and the environment
Adaeze Ahanotu	Biology	6	Dr. DiAnna Hynds	Contribution of Infection with Cytomegalovirus (CMV) to the Production of Amyloid Precursor Protein (APP) and Alzheimer's Disease-associated Beta Amyloid
Peace Olaoluwa	Biology	7	Drs. Dayna Averitt and Camelia Maier	Euphorbia bicolor phytochemicals reduces oxidative stress, inflammatory mediators and pain signaling in a rat model of burn injury
Melisa Mapula	Chemistry	8	Dr. Shiru Lin	Organic Pollutants Absorptions in Synthesized Metal-Organic Frameworks (MOF): Computational Investigation
Mandy Morgan	Nutrition	9	Dr. Shane Broughton	Plant Protein Isolation and Preparation for use in Drinks

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Mafia Mahabub Rumpa	Biology	10	Dr. Camelia Maier	TRPV1-dependent antiproliferative activity of dioecious <i>Maclura pomifera</i> extract in ER-positive breast cancer cell lines
Megan Morse	Biology	11	Dr. Sushmita Sinha	The upregulation of pTyr-394p56-Ick following SIRP γ knock down leads to enhanced proinflammatory responses from naive human T cells
Nadine Yasin	Biology	12	Dr. Zane Lybrand	Characterizing CRYAB expression dynamics of cerebral organoids following a mild repetitive blast injury
Erica Garcia	Biology	13	Dr. Juliet Spencer	Human Cytomegalovirus Infection Induces Downregulation of the Estrogen Receptor- α (ER α) and the Progesterone Receptor (PR) in Human Breast Cancer Cells
Kiran Tajuddin	Biology	14	Dr. Juliet Spencer	Effect of cmvIL-10 on alternative ligand binding CXCR4
Natalie Smith	Biology	15	Dr. Zane Lybrand	Development of a living brain phantom model using cerebral organoids
Myles Gladen	Biology	16	Dr. Zane Lybrand	Building cortical grafts from induced pluripotent derived stem cells for traumatic brain injuries
Gage Connors	Biology	17	Dr. Juliet Spencer	Deciphering the Role of US27 in HCMV Infection Endocytic Trafficking, Recycling, and Gi Protein Sequestration
Catherine Campen	Biology	18	Dr. DiAnna Hynds	Role of cholesterol in the production of Alzheimer's disease associated beta-amyloid from amyloid precursor protein
Chelsea Kelly, Tahree Ladell, Sandra Ruiz	Biology	19	Dr. Michael Bergel	Anti-cancer efficacy of a novel bisamidoxime, JJMB9, alone and in combination with cisplatin against human breast cancer in nude mice



Celebration of Science Poster Session

Friday, October 20, 2023 8:30am-10:30am Lobby ASSC

Presenter	Division	Poster #	Mentor	Title
Elena De Leon	Computer Science	1	Dr. Shiru Lin	Detecting the properties of 2D materials using deep learning
Karissa Coker and Citlatly Torres	Chemistry	2	Dr. John Beatty	Interaction of Cisplatin with Isolated Guanine
Anjola Ifagbayi-Adeniran and Mabelita Parada	Biology	3	Dr. Camelia Maier	Antiproliferative activities of <i>Euphorbia dentata</i> and <i>Euphorbia maculata</i> in T47D and MDA-MB-231 cell lines
Kelsey Marvin	Biology	4	Dr. Laura Hanson	Analysis of antiherpesvirus activity of lithium chloride
Craig Bateman	Chemistry	5	Dr. John Beatty	PARTIAL PRESSURES AND THEIR EFFECTS ON SPINACH CROP YIELD: Methodology for growth models in extra-planar environments
Tessa Nester	Biology	6	Dr. Sushmita Sinha	Role of BATF3 in regulating effector responses from human T cells
Winnie Lokuso	Biology	7	Dr. Chris Brower	Assessing Neurotoxicity: An evaluation of the impact of protein fragments in Neurodegenerative Diseases
Kanchan Budhathoki	Biology	8	Dr. Chris Brower	Characterization of Liat1 knock-out in cells
Jessica Hernandez	Chemistry	9	Dr. Nasrin Mirsaleh-Kohan	HPLC Analysis to Assess Efficacy of Cisplatin, Nedaplatin, and Oxaliplatin





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Hudson Randel	Psychology	10	Dr. Elisa Na	POMC-specific knockdown of MeCP2 leads to adverse phenotypes in mice chronically exposed to high fat diet
Lucas Dollar	Chemistry	11	Drs. Mary Anderson and Heather Conrad-Webb	Role of the H-Loop in Glutathione Synthetase
Alice McNeill	Chemistry	12	Dr. John Beatty	NO ₂ CAPTURE FROM A CO ₂ / N ₂ NON-THERMAL ATMOSPHERIC PLASMA
Regina Newman	Nutrition	13	Dr. Helen B Everts	Deletions of retinol dehydrogenases Sdr16c5 and Sdr16c6 alter the hair cycle and HFSC marker, CD34, in mice
Liliana Driver	Chemistry	14	Dr. Gustavo Salazar	Removal, isolation, analysis, and characterization of microplastics found in urban and rural soil; scrutinizing the Fenton reagent process
Chelsea Kelly, Tahree Ladell, Sandra Ruiz	Biology	15	Dr. Michael Bergel	Anti-cancer efficacy of a novel bisamidoxime, JJMB9, alone and in combination with cisplatin against human breast cancer in nude mice
Daisy Woodring	Chemistry	16	Dr. Nasrin Mirsaleh-Kohan	Characterization of Carbon Nanotubes and their Exposure to Carbon Dioxide and Solvents
Derek Aguilar	Chemistry	17	Dr. Richard Sheardy	The Novel Interactions of a DNA Quadruplex with a Gemini Surfactant

