

## UROP Symposium 2023 Oral and Poster Presentation Winners

Oral Presentation First Place Winners		
Theme	Name	Project Title
Insights	Anabel Chen	Chemical imaging of collagen
Innovations	Redford Hudson	Assessing Efficiency of Anteaters Express Battery-Electric Bus Fleet
Inspiration	Giovanni Longino	The Acute Consequences of Not Caring Enough: Patterns of Aggression in Youth with Callous-Unemotional Traits

Oral Presentation Chancellor's Award Winners		
Theme	Name	Project Title
Insights	Sidra Ali	Effects of Health Related Social Control on Medication Adherence in Latinx Patients with Hypertension
	Angela Boatwright	A Socioeconomic Analysis of Individuals' Experience Within the Punk Mosh Pit
	Valerie Boutros	Beyond Democratization: The Arab Spring Uprisings in Participants' Own Words
	Colette Helou	Structural Analysis of E. cloacae Type VI Secretion System (T6SS) toxin lipase effector (Tle)
	Ethan Smith	The role of shame in predicting psychopathology among Child Protective Service workers exposed to potentially morally injurious events
	Kaustubh Simha	Doping Quantum Materials to make Transistors
	Eeron Wilson II	To Protect or Serve: Identifying Shifts in Trust Towards Law Enforcement in Communities of Color
	Yae Eun Yoon	Effects of Time and Homeowner Management on Microbial Communities in Urban Soils
Innovations	Meenakshi Chandrasekaran	Environmental Enrichment Can Alleviate Memory Deficits Caused by Early-life Adversity
	Ashwin Damodaran	Using Polyacrylamide Hydrogel for Stiffness Study on Mammalian Cell Culture
	Zhengran Ji	Electron Energy Loss Spectroscopy Database Synthesis and Automation of Core-loss Edge Recognition by Deep-learning Neural Networks
	Nicole Lav	Rapidly assessing the cellular composition of neural stem and progenitor cell populations using qRT-PCR
	Gerald Lee	XACT: 3D X-Ray Absorption Imaging from Single View
	Neha Muvvala, Varu Vummidi, Wendy Pham, Christopher Tran	Novel Uterine Compression Suture Technique for Treating Postpartum Hemorrhage
	Matthew Lacey Samantha Turner, Hana Kuiper, Matthew Lo, Derek Nutz	Plug Device for Reducing Paravalvular Leak Post-TAVR
	Jessica Sotelo & Letsy Cahue-Flores	Designing Socio-technical Systems for Adolescent and Young Adult Childhood Cancer Survivors (AYA CCS)
	Kiku Yoneda	Identifying Key Residues of WW Domain of IQGAP1 Necessary for Binding Between IQGAP1 and P110a
Inspirations	Hali Boyce	Parenting after the NICU: Attachment Style as a Moderator of NICU Experience on Parenting Stress and Perceived Competence
	Derek Chang	Evaluation for Efficacy of Field Point-of-Care Malaria Diagnostic Methods in Ethiopia
	Gabriella Djuarna	Detection of Plasmodium falciparum Histidine-rich Protein 2/3 (pfrp2/3) Gene Deletion: How Prevalent are Malaria Parasites Resistant to Rapid Diagnostic Test in Ethiopia?
	Angela Huh	Social Media's Impact on Asian Americans During the COVID-19 Pandemic
	Jacob Liu	Investigation of Voltage-Gated Proton Channel Interaction with Cytoskeletal Motor Protein in Model of Male Infertility
	Flynn McGrath	Trauma, Mental Health, and the Legal System: A Tale of Many Perspectives
	Brian McNeely	Effects of Single Nucleotide Polymorphisms in the Cardinal Target Site of a Cas9-mediated Gene-drive System for the African Malaria Vector Anopheles gambiae
	Arielle Perrochon	Impact of Collagen on the Uptake and Activity of Antisense Oligonucleotides (ASOs)
	Tianqi Wang	Associations of Oxidative Stress and Inflammatory Biomarkers With E-cigarettes – A Feasibility Study

<b>Poster Presentation Chancellor Award Winners</b>			
<b>Theme</b>	<b>Place</b>	<b>Presenter Name(s)</b>	<b>Project Title</b>
Child/Adolescent Development	1st Place	Jessica Sotelo & Letsy Cahue-Flores	Designing Socio-technical Systems for Adolescent and Young Adult Childhood Cancer Survivors (AYA CCS)
Child/Adolescent Development	2nd Place	Taryn Liu	Modeling Congenital Limb Malformations in a Murine Model Using CRISPR-Cas9 Genome Editing
Child/Adolescent Development	3rd Place	Meenakshi Chandrasekaran	Environmental Enrichment Can Alleviate Memory Deficits Caused by Early Life Adversity
Diversity Equity and Inclusion	1st Place	Brisa Bernal & Laura Moreno	The Impact of Familismo and Academic Self-Efficacy of Latinx Students on their College Adjustment
Diversity Equity and Inclusion	2nd Place	Faith Coutts	Understanding First-Generation College Transfer Students' Post-Transition Well-Being
Diversity Equity and Inclusion	3rd Place	Kayla Atkinson & Alexandra Martinez	Code-Switching in the Classroom: Black Female College Students and Well-being: A Psychosociocultural Perspective
Earth and Beyond	1st Place	Antony Rozic	Determining if Proxima Centauri Has a Transiting Exoplanet
Earth and Beyond	2nd Place	Courtne Kom	Synthesis of Non-Canonical Cofactors
Earth and Beyond	3rd Place	Sofia Stirone	Optical Properties of Biomass Burning Organic Aerosol (BBOA) on Collection Substrates
Engineering and Technology	1st Place	Thomas Westenhofer	The Linear Detonation Facility at X Energy Laboratory
Engineering and Technology	2nd Place	Redford Hudson	Assessing Efficiency of Anteater Express Battery-Electric Bus Fleet
Engineering and Technology	3rd Place	Rong Mu	Security of the Perception in Autonomous Driving under Physical-World Adversarial Attacks
Global Perspectives	1st Place	Lily Fletcher	You Deserve That! The Role of Perceived Grievance in Moral Judgement
Global Perspectives	2nd Place	Anahit Baghshetsyan	Psychological Poverty Traps: A new way to address poverty
Global Perspectives	3rd Place	Jira Trinetkamol	Decentralizing Development in Thailand: Identifying Alternative Economic Poles to Drive Regional Growth
Health under the Microscope	1st Place	Vicky Lam	Knockdown of IP3 Receptors Does Not Inhibit Calcium-Mediated Dendrite Injury Detection and Repair In-Vivo
Health under the Microscope	2nd Place	Kiku Yoneda	Identifying Key Residues of WW Domain of IQGAP1 Necessary For Binding Between IQGAP1 and P110a
Health under the Microscope	3rd Place	Aya Fattah	Vascularized Micro - Tumor (VMT): An Accurate Model for Tumor Progression and Treatment of Peritoneal Carcinomatosis
Human Experience and Expression	1st Place	David Choung and Justin Kim	Exploring Scarless Wound Healing and Hair Neogenesis in the Nevus Skin
Human Experience and Expression	2nd Place	Tina Soroudi	Voices of Family Medicine: Increasing Patient Education and Comfortability with Family Medicine Services Through Photo-Narratives
Human Experience and Expression	3rd Place	Hussein Arian	Acceptability of Pre-Recorded Male Contraception Presentations for Arab American Males

<b>Poster Presentation Chancellor Award Winners</b>			
<b>Theme</b>	<b>Place</b>	<b>Presenter Name(s)</b>	<b>Project Title</b>
Innovations in Medicine	1st Place	Aya Salem	High resolution characterization of an enhanced cortical organoid method for studying human neurodevelopment and disease
Innovations in Medicine	2nd Place	Ekaterina Deynega	Identifying Brain Region Activation In Neuropathic Pain Mice After Early Life Adversity
Innovations in Medicine	3rd Place	Chantelle Languyen	Tracing GFAP and S100B Biomarkers in Response to Traumatic Brain Injury in Porcine Tissue
Memory Mind and Learning	1st Place	Kyrie Varieur	Sex differences in sleep apnea-related hypoxemia during non-rapid eye movement sleep contribute to worse overnight memory retention in older adults
Memory Mind and Learning	2nd Place	Cristabel Portillo and Jinjutha Cheepluesak	Early-Life Adversity Impairs Behavioral Flexibility in Appropriate Action Selection in a Sex-Specific Manner
Memory Mind and Learning	3rd Place	Jiexiao Wu and Luis Parada Ramirez	Reframing Bilingualism and Investigating Cognitive Performance in Relation to Linguistic Distance
Mental Health	1st Place	Carli Chiodo	Differentially Expressed Genes in Post-Mortem Brains of Individuals with Major Depressive Disorder with and Without Depression at the time of Death
Mental Health	2nd Place	Sakura Kate Ishiyama	The Impact of the Mental Health of Immigrant Parents on the Academic and Professional Experiences of their Children
Mental Health	3rd Place	Brinda Devireddy and Saibrinda Kotthru	Blocking estrogen receptors in mice protects memory from traumatic stress
Public Health	1st Place	Sarai Ochoa	Monomeric H5 hemagglutinin is as effective as Trimeric H5 hemagglutinin at protecting against the H5N1 influenza virus
Public Health	2nd Place	Olivia Kellogg and Chun-Kai Shih	Detection and persistence of Anopheles stephensi and Anopheles gambiae mosquitoes using environmental DNA (eDNA)
Public Health	3rd Place	Christian Hong and Sarah Dang	Investigating the Limitations and Challenges of Implementing the ImpACT Tool for Safe Discharge in Hospital Settings