



2021 AAAS Student E-poster Competition Winners

The AAAS Student E-poster Competition recognizes the individual efforts of students who are actively working toward an undergraduate, graduate or doctoral-level degree. The winners' presentations displayed originality and understanding that set them apart from their peers.

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Graduate Student First Place: Christina Roman, University of Chicago, *Structures of Viral RNA Elements Solved with Chaperone Assisted RNA Crystallography*

Graduate Student Second Place: Anirudh Gaur, University of California, Davis, *Effects of Natural Genetic Variations in Incretin Receptors on Glucose Homeostasis*

Graduate Student Third Place: Collin Jugler, Arizona State University, *Plant-Made Immunotherapeutics; A Potential Treatment for Severe Covid-19*

Undergraduate First Place: Simon Ng, University of California, Los Angeles, *Engineering Carbonic Anhydrase for Spacecraft CO₂ Removal Using Machine Learning*

Undergraduate Second Place: Kimberly Hane, Cedar Crest College, *qPCR and Microbe Identification for Forensic Blood Pattern Analysis*

Undergraduate Third Place: Zhela Sabir, Arizona State University, *Vitamin D Impacts Nrf-2 and Antioxidation Pathways that Modulate Cellular Aging*

BRAIN AND BEHAVIOR

Graduate Student First Place: Faheem Handoo, Indiana University School of Medicine, *Phenotyping Obstructive Sleep Apnea and Heart Failure*

Graduate Student Second Place: Divyesh Doddapaneni, FAU College of Medicine, *Characterization of a Novel Inhibitory Cell Cluster within the Amygdala*

Undergraduate First Place: Joshua Martinez, University of California,

Irvine, *In Vivo Imaging of 2-AG Induced Xenopus Laevis Retinal Ganglion Cell Development*

Undergraduate Second Place: Rosa Serrano, University of California, Irvine, *Focal Deletion of BAF53b in the Adult Brain is Sufficient to Impair Long Term Memory*

Undergraduate Third Place: Marina Edward, University of California, Irvine, *Upregulated 2-AG and AEA Affect Synaptic Plasticity In Xenopus Laevis Visual Circuit*

CELL BIOLOGY

Graduate Student First Place: DeQuantarius Speed, University of Chicago, *The Role and Regulation of Plastid Targeting of the Systemic Defense Signal AZI1*

Graduate Student Second Place: Austin E.Y.T. Lefebvre, University of California, Irvine, *Tracking Mitochondria Reveals Metabolic and Dynamic Heterogeneity in Breast Cancers*

Graduate Student Third Place: Aya Hanzawa, Iwate University, *Actin Isovariant ACT8 Regulates the Cold Response in Arabidopsis Root*

Undergraduate First Place: Nafis Eghrari, Arizona State University, *Ozanimod Preserves Contractile Human Brain VSM Phenotype Against Ischemic Insult*

Undergraduate Second Place: Casadora Boone, University of California, Irvine, *Multidrug Resistance Conjugative Plasmid in an Environmental Escherichia Coli*

Undergraduate Third Place: Christian Checkinco, University of California, Irvine, *Assessment of Possible Metabolic Disrupting Compounds through Optimized Protocol*

DEVELOPMENTAL BIOLOGY GENETICS AND IMMUNOLOGY

Graduate Student First Place: Luz Milbeth Cumba Garcia, Mayo Clinic Graduate School of Biomedical Sciences, *Identifying Glioblastoma or Monocytic Cells Extracellular Vesicles via Flow Cytometry*

Graduate Student Second Place: Kenji Sugita, Iwate University, *RIC2 and RIC4 Act Redundantly to Regulate the Actin Mediated Developmental Process*

Graduate Student Third Place: Amanda Wacker, University of California, San Diego, *Uncovering Patterns of Methylation in Microbial Astronauts*

Undergraduate First Place: Lucy Moore, Saint Mary's College of California, *Differentiation of Human and Rat Stem Cells to Neuroglial Support Cells*

Undergraduate Second Place: Angelique Cortez, University of California, Irvine, *Studying the Chromatin States in Alzheimer's Disease Derived Microglia*

Undergraduate Third Place: Rachell Quarles, Morgan State University, *Potential Genetic Biomarkers Located in Preeclampsia Patients*

ENVIRONMENT AND ECOLOGY

Graduate Student First Place: Wenjuan Liu, Arizona State University, *Li Mining-Community-Aquifer Interactions in Salar De Atacama: An Agent-Based Model*

Graduate Student Second Place: Kimberly Colgan, University of Minnesota, *Mitigating Food System Emissions Could Impede Achieving Sustainable Development Goals*

Graduate Student Third Place: Lydyia Leino, University of Turku, *Potential Effect of The*

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