**Intersections: SOURCE Presentation Award Winners**

**April, 2022**

**Arts and Humanities**

1st

**Engineering**

1st
Maria Ong. *Rockwell Automation x Great Lakes Science Center: Augmented Reality Interactive Exhibit*. Faculty Mentor: Marzell Brown, Rockwell Automation.

2nd Tied

2nd Tied

2nd Tied
Liam Matthews, Tatiana Pavlides, Enio Kuvliev, Ally Anderson, and Hoa Le. *Wearable Biopotential Measurement System for Epilepsy Monitoring*. Faculty Mentors: Matthew Williams, Colin Drummond, Cristian Berrara, Department of Biomedical Engineering.

2nd Tied

**Life Sciences**

1st Tied
Megan Gregory. *Too close for comfort: Role of fibronectin matrix in maintaining the space between the expanding calvaria*. Faculty Mentor: Radhika Atit, Department of Biology.

1st Tied
Nathanael Lee. *Natural Cast of the Endocranial Cavity of an Early Miocene Sloth from Southern Chile*. Faculty Mentor: Darin Croft, Departments of Anatomy and Biology.

1st Tied
Ishani Nautiyal. *Novel Therapeutic Strategies for Bone Marrow Failure Syndromes with Chromosome 7 Abnormalities*. Faculty Mentors: Valeria Visconte, Translational Hematology and Oncology Research, Taussig Cancer Institute, Cleveland Clinic; Drew Meyer, Department of Chemistry.

1st Tied
Pratheek Makineni. *Single-dose radiation increases thrombin production in glioma stem cells by upregulation of the intrinsic and extrinsic coagulation cascades*. Project Mentor: Dr. Andrew E. Sloan, Department of Neurological Surgery; Faculty Mentor: David Friel, Department of Neurosciences.

2nd Tied
Nisha Busch. *Examining the Neurodevelopmental Effects of Perinatal Cannabidiol (CBD) Exposure in Sprague-Dawley Rats*. Faculty Mentor: Timothy Flanigan, National Center for Toxicological Research Division of Neurotoxicology.
2nd Tied  Melissa Phung. *Cell movement in the developing skull: how a disrupted Wnt signaling pathway can lead to congenital cranial disease.* Faculty Mentor: Radhika Atit, Department of Biology.

2nd Tied  Victor Sanchez-Franco. *Altered sodium channel inactivation status in a Drosophila model of Alzheimer’s disease.* Faculty Mentor: Masashi Tabuchi, Department of Neurosciences.

2nd Tied  Shreya Satish. *Neuron activity in barrel cortex of developing mice under controlled whisker stimulation.* Faculty Mentors: Daehoon Lee, Ashley Nemes, Wen-Cheng Xiong, Department Neurosciences.

2nd Tied  Samantha Tsang. *Generating Isogenic Lines Using Primary Microcephaly with Simplified Gyral Pattern, Epilepsy, and Permanent Neonatal Diabetes Syndrome (MEDS) Patient-Derived iPSCs.* Faculty Mentor: Ashleigh Schaffer, Department of Genetics and Genome Sciences.

Physical Sciences
1st  Jarrell Imamura. *Identification of Drivers of Neuroendocrine Transdifferentiation in Bladder Cancer.* Faculty Mentors: Omar Mian, PhD, Translational Hematology and Oncology, Lerner Research Institute, Cleveland Clinic; Gary Chottiner, Department of Physics.

2nd  Zachary Ziccardi. *Characterization of the West Nile Virus 5’ UTR Stem Loop A by piecewise in silico and Multidimensional NMR Modeling.* Faculty Mentor: Blanton Tolbert, Department of Chemistry.

Social Sciences
1st Tied  C. J. Hill. *Social Impacts of Sickle Cell Disease in Children.* Faculty Mentor: Yolanda Fortenberry, Department of Biology.

2nd Tied  Lelia Durand. *Local Governments Hinder Beijing from Achieving Climate Commitments.* Kelly McMann, Department of Political Science.

2nd Tied  Ramona Johnson. *Geoengineering Governance and Applications for Microbial Biotechnology.* Faculty Mentor: Matthew Hodgetts, Department of Political Science.

2nd Tied  Anna Lindrose and Anurithi Senthil. *How Did the Minimum Wage Increase in Ohio Affect High School Completion Rates?* Faculty Mentor: Jenny Hawkins, Department of Economics.