

2021 Auburn Research Student Symposium Poster Presentation Winners

- **University-Wide Undergraduate Student Winners in Science, Technology, Engineering, and Mathematics**
- 1st Place: Anna Solomonik, Drug Discovery and Development, "Evaluating the effects of chemotherapeutics on dopaminergic cells"
- 2nd Place: Madison Hogans, Veterinary Medicine, "Elucidation of canine adenovirus type 2 tropism can lead to improved cancer gene therapy"
- 3rd Place: Audrey Hall, Drug Discovery and Development, "Identification of antibacterial compounds from *Psidium guajava* extracts using LC-MS chemical fingerprinting and profiling"
- **University-Wide Graduate Student Winners in Science, Technology, Engineering, and Mathematics**
- 1st Place: Manjusha Annaji, Pharmaceutical Sciences, "Meloxicam coated 3D printed stainless steel implants to prevent implant rejections"
- 2nd Place: Kaniz Afroz Tanni, Pharmaceutical Sciences-Health Outcomes Research and Policy, "Comparative effectiveness of eribulin in metastatic breast cancer (MBC): a systematic review and meta-analysis"
- 3rd Place: Sarah Ezell, Anatomy Physiology and Pharmacology, "Genetic analysis of the cannabinoid receptor – 1 gene in three beagle dogs"
- **University-Wide Undergraduate Student Winners in Human Sciences, Social Sciences, Creative Arts, Nursing and Humanities**
- 1st Place: "Sally Ann Missildine, Interior Design, "Designing a hotel room that accommodates a large family"
- 2nd Place: Rebecca McDuffie, Nursing, "The correlation between loneliness, isolation and adverse health outcomes in the elderly population"
- 3rd Place Molly Cassidy, Kinesiology, "Electromyographic analysis of shoulder rotation strength testing positions"
- **University-Wide Graduate Student Winners in Human Sciences, Social Sciences, Creative Arts, and Humanities**
- 1st Place: Cassandra Ross, Consumer and Design Sciences, "Medicare plan decisions: what strategy do older adults use for e-healthcare decision-making and what intelligent assistance do they need?"
- 2nd Place: Rongzi Li, Nutrition, "Beneficial effects of exercise and/or genistein treatment on high-fat, high-sugar diet-induced brain damage in C57BL/6 mice"
- 3rd Place: Xiaowen Ding, Nutrition, "Role of nerve growth factor in insulin resistance amelioration and cognitive performance improvement in diabetic mouse brain"

V. College and School Awards

1. College of Agriculture

- Undergraduate Student Winner: Emily Munroe, Entomology and Plant Pathology, “Evidence of non-antagonistic interactions between yeast and bacteria on plants in the Auburn Arboretum”
- Graduate Student Winner: Marc Presume, Food Science, “Evaluation of physical characteristics of pet treats generated from chicken organ meats blends”

2. College of Architecture, Design, & Construction

- Undergraduate Student Winner: Natalie Hamlin, Environmental Design, “The role of a built environment design solution to provide multi-systemic solutions for cultural issues in Auburn, Alabama”
- Graduate Student Winner: N/a

3. Raymond J. Harbert College of Business

- Undergraduate Student Winner N/A
- Graduate Student Winner: Yeosong Yoon, Finance, “Application of difference-in-difference strategies in finance: the case of natural disasters and bank responses”

4. College of Education

- Undergraduate Student Winner: Arianna Fernandez, Kinesiology, “Self-control feedback paradigm: is engagement in error estimation behind the learning effect?”
- Graduate Student Winner: Emma Quadlander, Counselor Education, “Analysis of sleep disturbances in adult ADHD patients using CliniCom™ psychiatric assessment software”

5. Samuel Ginn College of Engineering

- Undergraduate Student Winner: Will Beattie, Civil Engineering, “CO₂ storage in geological formation: Pore network properties and permeability”
- Graduate Student Winner: Sheng Dong, Civil Engineering, “Aerobic biotransformation of 8:2 fluorotelomer alcohol in AFFF-impacted soil”

6. School of Forestry and Wildlife Sciences

- Undergraduate Student Winner: N/A
- Graduate Student Winner: Yufei Nan, Forestry and Wildlife Sciences, “Polyethylenimine functionalized TEMPO-oxidized cellulose nanofiber hydrogel as an efficient adsorbent for toxic anionic and cationic dyes removal from wastewater”

7. College of Human Sciences

- Undergraduate Student Winner: Rebekah Magnusson, Human Development and Family Studies, “Applying social indicators data to Etowah & Dallas counties”
- Graduate Student Winner: Menglin Wei, Human Development and Family Studies, “Couple and family functioning during the time of the COVID-19 pandemic”

8. College of Liberal Arts

- Undergraduate Student Winner: Amelia Hill, Spanish, “Development of declarative cloze probability sentences in Spanish for use in L2 studies”

- Graduate Student Winner: Taylor Kerr, Audiology, “Effects of dance training on the vestibular-ocular reflex (VOR)”

9. School of Nursing

- Undergraduate Student Winner: Emily Herring, Nursing, “The effects of a yoga intervention on quality of life, anxiety, and pulmonary function in a pediatric population”
- Graduate Student Winner: N/A

10. Harrison School of Pharmacy

- Victoria Jiminez, Pharmacy, “The role of FMO3 induces nonalcoholic hepatic steatosis”
- Graduate Student Winner: Austin Moore, Drug Discovery and Development, “Meta-analysis of SARS-CoV-2-induced central nervous system disorders”

11. College of Sciences and Mathematics

- Undergraduate Student Winner: Dorella Fawwal, Biological Sciences, “*Streptomyces poriferae* sp. nov., a novel *Streptomyces* species from marine sponges that produces metabolites that inhibit the growth of methicillin-resistant *Staphylococcus aureus* (MRSA)”
- Graduate Student Winner: Adam Pfeifle, Physics, “Tunable valley splitting in two-dimensional materials via external fields”

12. College of Veterinary Medicine

- Undergraduate Student Winner: Daniel Patton, Veterinary Medicine, “Production of Anti-PD1 antibody by modified Canine Adenovirus-2”
- Graduate Student Winner: Chetan Pundkar, Biomedical Sciences, “Generation and characterization of anti-IL-17A Nanobody for the treatment of HSV-1 induced corneal immunopathology”

13. Auburn University at Montgomery

- Undergraduate Student Winner: Haley Hobbs, Biology, “Does snail preference to nonnative plant species play a role in shaping plant communities in Alabama?”
- Graduate Student Winner: N/A