

Oral Presentation Winners

I. University-Wide Undergraduate Student Winners in Science, Technology, Engineering, and Mathematics

- 1st Place: Catherine Walls, Poultry Science, “Textural characteristics of dehydrated pet treats generated using broiler wing tips and a structure forming agent”
- 2nd Place: Nicole Anthony, Biological Sciences, “Characterizing the structure-to-function relationship of an antisense long non-coding RNA associated with the β -myosin heavy chain gene of skeletal and cardiac muscle”
- 3rd Place: Madison Hogans, Pathobiology, “Elucidation of canine adenovirus type two tropism can lead to improved gene therapy”

II. University-Wide Graduate Student Winners in Science, Technology, Engineering, and Mathematics

- 1st Place: Claudia Rutland, Crop, Soil, and Environmental Sciences, “Amplicon sequencing as a method for single nucleotide polymorphism detection and subgenome identification in polyploid species”
- 2nd Place: Andresa Bezerra, Chemistry and Biochemistry, “Cleaving DNA strands with UV light to give a simplified method of protein detection at room temperature in less than twenty minutes”
- 3rd Place: Julia Salamat, Anatomy, Physiology and Pharmacology, “Sotorasib, a recently FDA-approved KRAS-G12C inhibitor, induces CYP3A4 and MDR1 gene expression by activating human PXR”

III. University-Wide Undergraduate Student Winners in Human Sciences, Social Sciences, Creative Arts, Nursing and Humanities

- 1st Place: Jordan Windham, Political Science, “The politics of perception: How the White House manipulates national crisis narratives”
- 2nd Place: N/A
- 3rd Place: N/A

IV. University-Wide Graduate Student Winners in Human Sciences, Social Sciences, Creative Arts, and Humanities

- 1st Place: Priyadarshni Patel, Nutrition, Dietetics, and Hospitality Management, “Racial variability in methylation of NRF1 and FTO gene in childhood obesity”
- 2nd Place: Paulo Mesquita, Kinesiology, “Effects of aging and long-term aerobic exercise on mitochondrial dynamics in the brain of rats”
- 3rd Place: Wenting Jiang, Business Analytics, “Using AI techniques to understand the dynamic nature of COVID-19 related news topics”

V. College and School Awards

1. College of Agriculture

- Undergraduate Student Winner: John Rogers, Poultry Science, "Evaluation of textural characteristics of pet treats generated from pressure cooked broiler wing tips with increasing inclusions of a structure forming component"

- Graduate Student Winner (tie—print two separate certificates—one for Brule and one for Banegas):

John Brule, Fisheries, Aquaculture and Aquatic Sciences, "First record of an ectoparasite, *Dactylogyrus cf. skrjabini* (Monogeneoidea: Dactylogyridae), infecting silver carp, *Hypophthalmichthys molitrix* (Valenciennes, 1844) (Cypriniformes: Cyprinidae) in North America"

Jorge Banegas, Poultry Science, "Textural characteristics of raw pet treats generated from mixtures of broiler liver and heart"

2. College of Architecture, Design & Construction

- Undergraduate Student Winner: N/A
- Graduate Student Winner: N/A

3. Raymond J. Harbert College of Business

- Undergraduate Student Winner: N/A
- Graduate Student Winner (print two identical certificates for each person): Alexander Hamrick & Sana Zafar, Management, "Don't observe me, interact with me! How stress appraisals of remote monitoring influence employees' voice and silence behaviors"

4. College of Education

- Undergraduate Student Winner: N/A
- Graduate Student Winner (print two separate certificates, one for Jones and one for Cabral):

Chloe Jones, Kinesiology, "Comparing the ring-fit adventure versus a sprint-interval + resistance training intervention on body composition"

Daniel Cabral, Kinesiology, "Does learning a skill with the expectation of teaching it impair the skill's execution under psychological pressure if the skill is learned with analogy instruction"

5. Samuel Ginn College of Engineering

- Undergraduate Student Winner: Mason Jeffers, Mechanical Engineering, "Vertical axis water turbine"
- Graduate Student Winner (print two separate certificates, one for Amiri and one for Hinkle):

Farshad Amiri, Chemical Engineering, "Sorting of presenescent cells from heterogeneous populations using microfluidics"

John Hinkle, Chemical Engineering, "Nickel hydroxide growth on activated lignin-based carbon fiber to improve specific capacitance retention"

6. College of Forestry and Wildlife Sciences

- Undergraduate Student Winner: Brieanne Dickson, Microbiology, “Nanocellulose-based antimicrobial systems for mitigating *E.coli* outbreaks in water bodies”
- Graduate Student Winner: Sydney Brake, Sustainable Biomaterials and Packaging, “Surface interactions of common insecticide systems on model films using quartz crystal microbalance with dissipation monitoring (QCM-D) and surface plasmon resonance (SPR)”

7. College of Human Sciences

- Undergraduate Student Winner: N/A
- Graduate Student Winner: Emily Brigham, Human Development and Family Studies, “A longitudinal assessment of the contribution of peer victimization and peer beliefs to a dependent teacher-student relationship”

8. College of Liberal Arts

- Undergraduate Student Winner: N/A
- Graduate Student Winner: Nathan Moore, History, “When E.T. encounters ‘psychohistory’: Radio astronomy, C/SETI, and deep space biosignatures – from pulp fiction to reality”

9. College of Nursing

- Undergraduate Student Winner: N/A
- Graduate Student Winner: N/A

10. Harrison College of Pharmacy

- Undergraduate Student Winner: Dylan Bowen, Drug Discovery and Development, “New psychoactive substances: A threat to the current and future society”
- Graduate Student Winner: Olasubomi Akintola, Drug Discovery and Development, “The role of small nucleolar RNAs in the response of multiple myeloma to treatment with proteasome inhibitors”

11. College of Sciences and Mathematics

- Undergraduate Student Winner: Chloe Moore, Biological Sciences, “Honey, turn out the lights! The effects of constant light at night on the beak color of zebra finches”
- Graduate Student Winner: Victoria Spencer, Biological Sciences, “Ant biodiversity and potential response to a dominant competitor in pine-hardwood forests of Central Alabama”

12. College of Veterinary Medicine

- Undergraduate Student Winner: Elizabeth Ledbetter, Anatomy, Physiology, and Pharmacology, “Screening of novel KRAS-G12C inhibitors for their potential to induce MDR1 gene expression in LS180 human colon cancer cells”
- Graduate Student Winner: Hailey Quercia, Pathobiology, “Patterns of morbidity and mortality in Alabama broiler chickens”

13. Auburn University at Montgomery

- Undergraduate Student Winner: Alexandra Jackson, Chemistry, "Suppression of ROS by beverages"
- Graduate Student Winner: N/A