

ABT395/399 Fall 2021 Presentation Schedule
Tuesday, November 30 and Thursday, December 2 2021
Cameron Williams Lecture Hall, Plant Science Building

Tuesday, November 30

9:25 AM **Aadra Kachroo** Introductions

9:30 AM **Grace Adkins** Bisphenol A: a trigger of neurovascular dysfunction and cognitive decline in Alzheimer's disease

Mentor: Anika Hartz, Department of Pharmacology and Nutritional Science, College of Medicine

9:45 AM **Chelsea Avery** Efficacy of pest control and pollination management in organic cucurbit production with row covers

Mentor: David Gonthier, Department of Entomology, College of Agriculture, Food, & Environment

10:00 AM **Goldie Blackson** Literature review and comparison of heat hardening treatments in *Drosophila melanogaster*

Mentor: Nicholas Teets, Department of Entomology, College of Agriculture, Food, & Environment

10:15 AM **Bridget Bolt** Molecular characterization of the soil bacterial communities in soybean demethylated populations

Mentor: Carlos Rodriguez Lopez, Department of Horticulture, College of Agriculture, Food, & Environment

10:30 AM **Keeley Justice** The influence of stress, anxiety, and depression on dental caries

Mentor: Luciana M. Shaddox, Division of Periodontology, College of Dentistry

10:45 AM **Samantha Melendez** Rhabdoviridae infecting *Nicotiana benthamiana* and relocalizing the plant cell's proteins

Mentor: Carlos Rodriguez Lopez, Department of Horticulture, College of Agriculture, Food, & Environment

11:00 AM **Peyton Wilson** GPRC6A signaling in vitro as understood by western blotting

Mentor: Daniel Lee, Department of Neuroscience, College of Medicine

11:15 AM **Chloe DeGiorgio** Analysis of glycogen pathway gene expression over time in suckling pig hepatic tissue

Mentor: James C. Matthews, Department of Animal and Food Sciences, College of Agriculture, Food, & Environment

11:30 AM **Julie Mudd** Is Zinplava an appropriate second line of therapy for recurrent *Clostridium Difficile*?

Mentor: Jenny Ross, Lexington Infectious Disease Consultants

11:45 AM **Gabby Hammers** The effect of mice sex on T-cell frequency after spinal cord injury

Mentor: John Gensel, Department of Physiology, College of Medicine

Noon- 3:25 PM LUNCH/BREAK

3:30 PM **Hanna Lefevers** Comparing the effects of global DNA methylation on soybean epimutants and dem mutant tomatoes

Mentor: Carlos Rodriguez Lopez, Department of Horticulture, College of Agriculture, Food, & Environment

3:45 PM **Annabelle Wilson** A computational approach to thermal tolerance measurements using motion detection

Mentor: Nicholas Teets, Department of Entomology, College of Agriculture, Food, & Environment

4:00 PM **Shi'anne Wilson** SHP2 inhibits CD274(PDL1) gene expression in lung cancer cells regardless of constitutive activation

Mentor: Penni Black, Department of Pharmaceutical Sciences, College of Pharmacy

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Thursday, December 2

9:25 AM **Aardra Kachroo** Introductions

9:30 AM **Taylor Peterson** The effects of soil organic matter on leaf diseases of cucumbers in eastern Kentucky
Mentor: Nicole Gauthier, Department of Plant Pathology, College of Agriculture, Food, & Environment

9:45 AM **Annie Nichols** Enhancing quadriceps muscle recovery following anterior cruciate ligament rupture
Mentor: Chris Fry, Department of Athletic Training and Clinical Nutrition, College of Health Sciences

10:00 AM **Sarah Fields** Mineralization in osteoblasts: exploration of growth and expression in the human condition
Mentor: Evangelia Kalaitzoglou, Department of Pediatrics, College of Medicine

10:15 AM **Allie Guy** Fungicide seed treatments' effectiveness on preventing *Fusarium graminearum's* ability to develop Gibberella stalk rot in corn
Mentor: Lindsay Sprangler, Corteva Agriscience

10:30 AM **Jon Meredith** U.S. military veterans with poor social/familial satisfaction and the APOE4 allele report poor cognitive functioning
Mentor: Tom Adams, Department of Psychology, College of Arts and Sciences

10:45 AM **Avery Patrick** Suppression of serum amyloid A limits progression of established abdominal aortic aneurysms in angiotensin II-infused obese mice
Mentor: Preetha Shridas, Division of Endocrinology, College of Medicine

11:00 AM **Trinity Marlar** The effects of management adaptations on soybean quality and yield in Kentucky
Mentor: Montserrat Salmeron, Department of Plant and Soil Sciences, College of Agriculture, Food, & Environment

11:15 AM **Ila Iniyavan** The correlation between honeybee aggression and health outcomes
Mentor: Clare Rittschof, Department of Entomology, College of Agriculture, Food, & Environment

11:30 AM **Thomas Sanders** DNA methylation and MeCP2 mutants that drive Rett syndrome
Mentor: Yvonne Fondufe-Mittendorf, Department of Molecular and Cellular Biochemistry, College of Medicine

11:45 AM **Nicole Anderson** Microbial populations of cigars
Mentor: Ruth McNees, Kentucky Tobacco Research and Development Center, College of Agriculture, Food, & Environment