

ABT395 Spring 2025 Presentations  
Cameron Williams Auditorium  
Plant Sciences Building, (next to Cooper Dr).

**Monday, April 28, 2025**

8:55 AM Rick Bennett Welcome & Introductions

9:00-9:15am **Kate Wilson** Development of a Gestational Epigenetic Clock in Sheep.

*Mentor: Carlos Rodriguez Lopez, Ph.D., Department of Horticulture, M-G College of Agriculture, Food and Environment*

9:15-9:30am **Madison Argue** HepG2 Gene Expression in Response to Ethanol and Fatty Acids

*Mentor: Lindsay Czuba, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy*

9:30-9:45am **Allie Doucet** Interactive Effects of Light Intensity and Nutrient Supply on Morphological Development of Tomato Seedlings (*Solanum lycopersicum*)

*Mentor: Qinglu Ying, Ph.D., Department of Horticulture, M-G College of Agriculture, Food and Environment*

9:45-10:00am **Erin Lusk** Maximizing Sugar Yields from Pressed Fruit: Optimization Strategies for Enhanced Fermentation and Product Quality

*Mentor: Jeffery Wheeler, Ph.D., Department of Horticulture, M-G College of Agriculture, Food and Environment*

10:00-10:15am **Olivia Taylor** The Impact of Cochlear Implantation on Physical Activity and Quality of Life

*Mentor: Matthew L. Bush, Ph.D., Department of Otolaryngology, College of Medicine*

10:15-10:30am **Jackson Vital** Comparative Analysis of Differential Poly(A) Site Usage During Nodulation in *Medicago truncatula*

*Mentor: Arthur Hunt, Ph.D., Department of Plant and Soil Sciences, M-G College of Agriculture, Food and Environment*

**10:30-11:15am Break**

11:15-11:30am **Ava Kruse** Do Lignin-Derived Antimicrobials Decrease the Population of Bacteria Responsible for Contamination in Fuel Ethanol Fermentation?

*Mentor: Jian Shi, Ph.D., Department of Biosystems and Agricultural Engineering, M-G Gatton College of Agriculture, Food and Environment*

11:30-11:45am **Colin Williams** Identifying Novel Radiosensitizers for Pediatric Brain Tumors Using p53-Deficient Zebrafish Model

*Mentor: Jessica Blackburn, Ph.D., Department of Molecular and Cellular Biochemistry, College of Medicine*

11:45-12:00pm **Madeline Angel** Amyloid Precursor Protein and Its Relationship to Sleep, Sex, and Alzheimer's Disease

*Mentor: Michael Murphy, Ph.D., Department of Molecular and Cellular Biochemistry, College of Medicine*

12:00PM Conclude

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**Tuesday April 29, 2025**

9:25 AM Rick Bennett Welcome & Introductions

9:30-9:45am **Sophia Havard** Resource Competition? Assessing Honey Bee and Wild Bee Interactions in Agroecosystems

*Mentor: Clare Rittschof, Ph.D., Department of Entomology, M-G College of Agriculture, Food and Environment*

**9:45-10:00am Break**

10:00-10:15am **Evy Yates** Microbial Dynamics in Non-Alcoholic Beer: Assessing the Implications of Spoilage Bacteria from Retail Draft Lines

*Mentor: Tyler Barzee, Ph.D., Department of Biosystems and Agricultural Engineering, M-G College of Agriculture, Food and Environment*

10:15-10:30am **Anaya Ali** Ephemeral Reward Task: Under What Conditions Do Pigeons Learn it?

*Mentor: Thomas Zentall, Ph.D., Department of Psychology, College of Arts and Sciences*

10:30-10:45am **Lauren Hill** Does TSP1 Down Regulate Brown Adipocyte Endocrine Function Through a CD47 Dependent Pathway?

*Mentor: Shuxia Wang, Ph.D., Department of Pharmacology and Nutritional Sciences, College of Medicine*

10:45-11:00am **Brandon Akers** Production of Ethyl Carbamate in Various Malt Varieties Through Benchtop Distillation

*Mentor: Harmonie Bettenhausen, James B. Beam Institute for Kentucky Spirits, M-G College of Agriculture, Food and Environment*

11:15-11:30am **Lucy Thomas** Overexpression of Serum Amyloid A (SAA) in the Liver Promotes the Development of Atherosclerosis in Apolipoprotein E-Deficient Mice Lacking SAA

*Mentor: Preetha Shridas, Ph.D., Internal Medicine & Divisions - Endocrinology, Saha Cardiovascular Research Center, College of Medicine*

12:00pm Conclude