

ABT395 Fall 2024 Presentations
Cameron Williams Auditorium
Plant Sciences Building, (next to Cooper Dr).

Monday, December 9, 2024

8:55 AM Rick Bennett Welcome & Introductions

9:00am **Johanan Abraham** Enhancing RNAi Efficiency using Nanoparticles in the Yellow Fever Mosquito
Mentor: Reddy Palli, Ph.D., Department of Entomology, M-G College of Agriculture, Food and Environment

9:15am **Violet Newhart** Developing Small Molecule Inhibitors to Block Agmatine Synthesizing Enzymes in Bacteria
Mentor: Ashfaqul Alam, Ph.D., Department of Microbiology, Immunology, and Molecular Genetics, College of Medicine

9:30am **Andric Fajardo** Endosymbionts Affecting the Sex Ratio of Offspring in *Mermessus fradeorum*
Mentor: Jen White, Ph.D., Department of Entomology, M-G College of Agriculture, Food and Environment

9:45am **Colin Haase** Finding the Rad5 Interaction with Msh2 in DNA Repair
Mentor: Eva Goellner, Ph.D., Department of Toxicology and Cancer Biology, College of Medicine

10:00am **Sydney Hall** Quantification of Arabinoxylans in Various Oat Species.
Mentor: Lauren Brzozowski, Ph.D., Department of Plant and Soil Sciences, M-G College of Agriculture, Food and Environment

10:15am **Layni Jones** Apical Sodium-Dependent Bile Acid Transporter (ASBT) Membrane Function and Expression
Mentor: Lindsey Czuba, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy

10:30-11:15AM Break

11:15am **Kailey Orr** The Hepatic Lipid Metabolic Effects of Serum Amyloid A in Mice With Acute Inflammation
Mentor: Preetha Shridas, Ph.D., Department of Internal Medicine, College of Medicine

11:30am **Paige Mallon** Development of Novel In-Vitro Model Systems to Study Equine Infectious Diseases
Mentor: Carrie Shaffer, Ph.D., Department of Veterinary Science, M-G College of Agriculture, Food and Environment

11:45am Characterizing SMP1-BT22 Interaction: Implications for mRNA Stability and Stress Response
Mentor: Bruce Downie, Ph.D., Department of Horticulture, M-G College of Agriculture, Food and Environment

12:00PM Conclude

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Tuesday December 10, 2024

9:25 AM Rick Bennett Welcome & Introductions

9:30am **Anna Turlington** Thoroughbred Catastrophic Injuries in Relation to mRNA Expression Changes Throughout Training

Mentor: Allen Page, Ph.D., Department of Veterinary Science, M-G College of Agriculture, Food and Environment

9:45am **Cheyenne Hunt** The Effect of Speed Breeding on Winter Wheat Varieties and Their Gene Retention

Mentor: David Van Sanford, Ph.D., Department of Plant and Soil Sciences, M-G College of Agriculture, Food and Environment

10:00am **Heather Hunt** Effects of Day and Time on Pasture Non-Structural Carbohydrates in Insulin in Horses with Insulin Dysregulation

Mentor: Amanda Adams, Ph.D., Department of Veterinary Science, M-G College of Agriculture, Food and Environment

10:15am **Hannah Miller** Examining Sex-Specific Angiogenesis in Rats with 7 Day Repeated Mild Blast Traumatic Brain Injury

Mentor: Brad Hubbard, Ph.D., Department of Physiology, College of Medicine

10:30am **Maxwell Chambers** Relationship between Lipid Droplets and Viral Replication

Mentor: Amelia Pinto, Ph.D., Microbiology, Immunology, and Molecular Genetics, College of Medicine

10:45am **Benjamin Lin** Optimizing the Re-Fermentation and Distillation of Sake Lees: Effects of Temperature, Concentration, Enzymatic, and Yeast-Based Parameters

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

11:00-1:00PM Lunch Break

1:00pm **Malayna Pope** Sex Differences in Alzheimer's Disease Pathology, Sleep, and Behavior with Age in APPxPS1 (KI) Mice

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

1:15pm **Ian Tarter** Developing a Mutant Library of the ZIKV Envelope Protein DIII

Mentor: James Brien, Ph.D., Department of Microbiology, Immunology, and Molecular Genetics, College of Medicine

1:30pm **Katie Christensen** The Identification and Characterization of Antibiotic Producing Bacteria from Maize Leaves

Mentor: Kendall Corbin, Ph.D., Department of Horticulture, M-G College of Agriculture, Food and Environment

1:45pm Conclude

Wednesday, December 11, 2024

10:00 AM Rick Bennett Welcome & Introductions

10:00am **Maya Mardini** Small Molecule Compounds for Heparin and Their Use in Heparin Quantitation

Mentor: Jeremy Wood, Ph.D., Department of Internal Medicine, College of Medicine