

ABT 395 Student Presentations  
Fall 2023  
Cameron Williams Lecture Hall  
Plant Science Building  
Tuesday, November 28, 2023

**8:55am** Rick Bennett, Ph.D., Course Instructor Welcome & Introductions

**9:00-9:15am** **Luke Meredith** The Role of Serum Amyloid A in Acute Lung Inflammation During Sepsis  
*Mentor: Preetha Shridas, Ph.D., Saha Cardiovascular Research Center, College of Medicine*

**9:15-9:30am** **Ellen Williams** Warmer Temperatures Disrupt Fermentation by Endosymbionts in *Mermessus fradeorum*.  
*Mentor: Jen White, Ph.D., Department of Entomology, College of Agriculture, Food and Environment*

**9:30-9:45am** **Autumn Knight** Dissecting the Role of SHP2 in Response to Immune Checkpoint Inhibitors in Cancer Cell Model Systems  
*Mentor: Penni Black, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy*

**9:45-10:00am** **Tyler Moehrke** Methods to Differentiate Novel Fungal Endophyte Strains from Common Toxic Endophytes in Tall Fescue.  
*Mentor: Tim Phillips, Ph.D., Department of Plant and Soil Sciences, College of Agriculture, Food and Environment*

**10:00-10:15am** **Rami Musa** Identification and Evaluation of Novel Small Molecules for the Control of R. Equi Infections in Foals  
*Mentor: Yosra Helmy, Ph.D., Department of Veterinary Science, College of Agriculture, Food and Environment*

**10:15-10:30am** **Kathan Devaraj** Psychosocial Factor Severity in Equestrian Athletes and Chronic Pain  
*Mentor: Kimberly Tumlin, Ph.D., Department of Athletic Training and Clinical Nutrition, Sports Medicine Research Institute, Equestrian Athlete Initiative, College of Health Sciences*

**10:15-11:15 Break**

**11:15-11:30am** **Wendy Melgar** Understanding the Molecular Mechanism of the Rictor Gene in Tumor Metastasis in the Lungs  
*Mentor: Hsin-Sheng Yang, Ph.D., Department of Toxicology and Cancer Biology, College of Medicine*

**11:30-11:45am** **Cassidy Bauer** Solving the Mystery of the Unknown Bleeding Disorder  
*Mentor: Jeremy Wood, Ph.D., Saha Cardiovascular Research Center, College of Medicine*

**11:45-12:00am** **Ty Cheatham** Discovering Potential Drug Inhibitors for Phosphatase of Regenerating Liver-3  
*Mentor: Jessica Blackburn, Ph.D., Department of Molecular and Cellular Biochemistry, College of Medicine*

**12:00PM Conclude**

ABT 395 Student Presentations  
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Friday, December 1, 2023

**9:25am** Rick Bennett Ph.D., Course Instructor Welcome & Introductions

**9:30-9:45am** **Nolan Marcum** Identifying a Relationship of Oxidative Stress and Immune Infiltration in Human Prostate Cancer Using Tumor Microarrays

*Mentor: Luksana Chaiswing, Ph.D., Department of Toxicology and Cancer Biology, College of Medicine*

**9:45-10:00am** **Caroline Harper** Ovulatory Prostaglandin Levels are Decreased by an Environmentally Relevant Phthalate Metabolite Mixture

*Mentor: Patrick Hannon, Ph.D., Department of Obstetrics and Gynecology, College of Medicine*

**10:00-10:15am** **Rachel Poston** An Analysis of Equine Biomarkers to Assess the Necessity of Corticosteroid Treatment

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

**10:15-10:30am** **Rhys Talbot** Biochemical and Molecular Genetic Evaluation of New High Omega-3 Soybeans

*Mentor: Pradeep Kachroo, Ph.D., Department of Plant Pathology, College of Agriculture, Food and Environment*

**10:30-10:45am** **Maggie Gillum** The Effect of *Fusarium* Head blight Resistance on Agronomic and Post-Harvest Qualities of Winter Wheat

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

**10:45-11:00am** **Sam Cecconi** Energetic Responses to Freezing, Nutrition, and Recovery in the Antarctic Midge, *Belgica antarctica*

*Mentor: Nicholas Teets, Ph.D., Department of Entomology, College of Agriculture, Food and Environment*

**11:00-1:00pm** Lunch Break

**1:00-1:15pm** **Tayla Holt** Investigating the Relationship Between Dental Pain and Pathologies with Inflammation in Senior Horses

*Mentor: Amanda Adams, Ph.D., Department of Veterinary Science, College of Agriculture Food & Environment*

**1:15-1:30pm** **Erin Marshall** Determining the Role for Muscle Stem Cells on Recovery of Muscle Size Following an ACL Injury

*Mentor: Chris Fry, Ph.D., Department of Athletic Training and Clinical Nutrition, Center for Muscle Biology and Clinical Nutrition, College of Health Sciences*

**1:30-1:45pm** **Simon Aaronson** Characterization of Early Blight (*Alternaria linariae*) on Tomatoes in Kentucky

*Mentor: Nicole Gauthier, Ph.D., Department of Plant Pathology, College of Agriculture Food & Environment*

**1:45-2:00pm** **Will Kelley** Triazine Lipids as an Immunomodulatory Vaccine Platform

*Mentor: Vincent Venditto, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy*

**2:00pm** Conclude