

**Spring 2017 Student Research and Internship Presentations (ABT 395/399)
Agricultural and Medical Biotechnology Program**

When: 12:20 pm – 5:00 pm, Tuesday April 25, 2017

Where: Cameron Williams Lecture Hall – Plant Science Bldg

- 12:20 pm** Welcome and Introduction Dr. Dan Howe, ABT 395/399 Course Coordinator
- 12:30 pm** **Megan Bennett** Investigation of the Genetic Basis for a Novel Coat Color Change in Horses
Mentor: Dr. Kathy Graves, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 12:45 pm** **Juliana Kisha Jeremiah** Manipulation of a gateway Baculovirus expression vector system (BEVS) which enables enhanced budded virus production and/or recombinant protein expression
Mentor: Dr. Kathleen Franklin, ParaTechs Corporation
- 1:00 pm** **Bobbie Deaton** Developmental Role of the MADS-domain Transcription AGL-15: A study of Somatic Embryogenesis
Mentor: Dr. Sharyn Perry, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 1:15pm** **Kati Carter** Melanocortin 1 receptor signaling axis accelerates repair of cisplatin-induced DNA damage
Mentor: Dr. John D'Orazio, Department of Pediatrics, UK College of Medicine
- 1:30pm** **Sandhya Paudel** The use of IgG(T) as a diagnostic tool in foals with *Rhodococcus equi* Pneumonia
Mentor: Dr. David Horohov, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 1:45pm** **Meagan Prince** Gene expression/repression controlled by Protein-Protein Interaction between the MADS domain protein AGL15 and the histone deacetylase HDA19 in *Arabidopsis*
Mentor: Dr. Sharyn Perry, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 2:00 pm** **Shea Woods** How Mutations in MeCP2 Affect Binding to Methylated DNA
Mentor: Dr. Yvonne Fondufe-Mittendorf, Molecular and Cellular Biochemistry, UK College of Medicine
- 2:15 pm** **Joshua Ohde** Nutrient-dependent O-GlcNAc cycling in pituitary endocrine development
Mentor: Dr. Stephanie Olivier-Van Stichelen, Laboratory of Cellular and Molecular Biology, National Institutes of Health
- 2:30 pm** **Rowan Calkins** Inorganic Arsenic-Induced Methylation Changes in the Development of Lung Cancer
Mentor: Dr. Yvonne Fondufe-Mittendorf, Molecular and Cellular Biochemistry, UK College of Medicine
- 2:45 pm** **Break**
- 3:00 pm** **Andrew Simpson** The Life Cycle Stages of *Pneumocystis murina* Provoke Opposing Immune Responses
Mentor: Dr. Beth Garvy, Dept. of Microbiology, Immunology, and Molecular Genetics, UK College of Medicine
- 3:15 pm** **Emma Brennan** Equine Inflammatory Cytokine Response to Stress as a Result of Transportation
Mentor: Dr. Amanda Adams, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 3:30 pm** **Rebekah Eleazer** Changes in DNA Methylation and Gene Expression of NCAM2 During Arsenic Mediated EMT *Mentor: Dr. Yvonne Fondufe-Mittendorf, Molecular and Cellular Biochemistry, UK College of Medicine*
- 3:45 pm** **Fabian Leon** Determination of X Protein Interactions to complete Localization Map of the sanguinolenta strain of Potato Yellow Dwarf Virus
Mentor: Dr. Michael Goodin, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 4:00 pm** **Darcie Meiman** Does the Expression of Genes Responsible for Glutathione Metabolism Differ in Growing Angus vs. Angus x Wagyu Cross Steers?
Mentor: Dr. James Matthews, Department of Animal and Food Sciences, UK College of Agriculture, Food and Environment
- 4:15 pm** **Chase Tucker** Susceptibility of equine peripheral blood mononuclear cells to equine arteritis virus field strains
Mentor: Dr. Udeni Balasuriya, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 4:30 pm** **Alex McCartney** Up-Regulation of Heat-Shock Proteins in *Scenedesmus quadricaudus* Through Acclimation
Mentor: Dr. Czar Crofcheck, Biosystems and Agricultural Engineering, UK College of Agriculture, Food and Environment
- 4:45 pm** **Evan Young** Using Functional Assessment to Identify Athletes at Increased Risk for Ankle Injury
Mentor: Dr. Philip Gribble, Department of Rehabilitation Sciences, College of Health Sciences
- 5:00 pm** **Reception and Glenn B. Collins Research Achievement Award in ABT and Alltech Young Scientist Affiliate Nominee**