

ABT 395/399 Fall 2018 Research and Internship Presentations
Agricultural and Medical Biotechnology Program
Final Schedule

- 10:00am Welcome and Introduction Dr. Aardra Kachroo, ABT 395/399 Course Coordinator
- 10:00am **Cassie Adams** Liposomally-delivered Itaconic Acid and Alternative Macrophage Activation
Mentor: Dr. Vincent Venditto, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 10:15am **Isabella Usenza** Effects of Reduced Height Genes on a Wheat Breeding Program
Mentor: Dr. David Van Sanford, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 10:30am **Kristin O'Leary** Importance of PRL Subcellular Localization During the Cell Cycle
Mentor: Dr. Jessica Blackburn, Department of Molecular and Cellular Biochemistry, UK College of Medicine
- 10:45am **Tucker Jones** Early Life Stress-induced Increases in Adiposity in Mice are Prevented by the Adipose Tissue-specific Abrogation of Neuropeptide Y Receptor 2
Mentor: Dr. Analia Loria, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 11:00am **Rachel Guess** Characterization of Genotypes Impaired in Biosynthesis/Catabolism of Nonprotein Amino Acid PIPecolic Acid
Mentor: Pradeep Kachroo, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 11:15am **Jesse Neal** The Effect of Bovine Herpes Virus-1 on Mononuclear Dendritic Cell
Mentor: Dr. Michelle Blaha, RTI LLC. and Dr. Christopher Chase, South Dakota State University
- 11:30am **Jessica Belcher** Plant Response to Selenium Supplementation and other Alltech Crop Science Applications
Mentor: Jana Norton, Crop Science Department, Alltech
- 11:45am-12:30pm **LUNCH BREAK**
- 12:30pm **Joseph Steinhauer** Determination of Colocalization of L-type Calcium Channels and Rad Protein
Mentor: Dr. Jonathan Satin, Department of Physiology, SAHA Cardiovascular Research Center, UK College of Medicine
- 12:45pm **Bradley Nightengale** Soft Red Winter Wheat Breeding: Rhizosphere Warming + Plant Response
Mentor: Dr. David Van Sanford, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 1:00pm **Brittney Rivers** Antibody Responses in Mice Toward Apolipoprotein A-I
Mentor: Dr. Vincent Venditto, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 1:15pm **Amy R. Sessions** Fishing for Data: the Examination of Collagen IV's Effect on Developing Zebrafish Retinas
Mentor: Dr. Jakub Famulski, Department of Biology, UK College of Arts and Sciences
- 1:30pm **Hanna Carr** Investigating Relationships Between Aggression and Immune Function in Honey Bees
Mentor: Dr. Clare Rittschof, Department of Entomology, UK College of Agriculture, Food and Environment
- 1:45pm **Jason Spaude** Synthesis and Characterization of a Novel Class of Triazine-based Lipids for Gene Delivery
Mentor: Dr. Vincent Venditto, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 2:00pm **Melhem Zakharia** Changes in Muscle Fiber Size in Response to Atrophy and Recovery from Atrophy
Mentor: Dr. Esther Dupont-Versteegden, Department of Rehabilitation Sciences, College of Health Sciences
- 2:15pm **Chandler Albright** Determining the Quantity of JC Virus in Various Urine Samples
Mentor: Dr. Craig Miller, Department of Oral Medicine, UK College of Dentistry
- 2:30pm **Ashley Allen** The Efficiency in Treatment Time for Plantar Fasciitis using PRP Injections
Mentor: Dr. Bryan Harmon, Lexington Foot and Ankle Center
- 2:45pm **Trevor N. Farmer** Analysis of Erbin as a Tumor Suppressor in Colorectal Cancer (CRC) by Negatively Regulating Cell Motility
Mentor: Dr. Tianyan Gao, Department of Molecular and Cellular Biochemistry, UK College of Medicine
- 3:00pm-3:15pm **BREAK**
- 3:15pm **Kai Davis** Effects of Vitamin C, Vitamin E, and Zinc on in vitro Lymphocyte Cytokine Release in the Face of Inflamm-aging
Mentor: Dr. Amanda Adams, Department of Veterinary Science, UK College of Agriculture, Food and Environment

- 3:30pm **Devin Montgomery** Implications of Social Pressure on Smoking Behavior Among Cervical Cancer Survivors
Mentor: Dr. Jessica Burris, Department of Psychology, UK College of Arts and Sciences
- 3:45pm **Jay Philips** Differential Undertaking Response of a Lower Termite to the Corpse of Different Castes
Mentor: Dr. Xuguo Zhou, Department of Entomology, UK College of Agriculture, Food and Environment
- 4:00pm **Katherine Bernardo** Variations in Expression of Lipid Metabolizing Enzymes in Cases of Hepatocellular Carcinoma (HCC) in Mice
Mentor: Dr. Brett Spear, Department of Microbiology, Immunology and Molecular Genetics, UK College of Medicine
- 4:15pm Reception and Awarding of the Glenn B. Collins Agricultural Biotechnology Undergraduate Research Achievement Award