

ABT 395/399 Spring 2018 Research and Internship Presentations
Agricultural and Medical Biotechnology Program
Final Schedule
Cameron Williams Lecture Hall, Plant Science Building
Wednesday, April 25, 2018

- 10:00am** Welcome and Introduction Dr. Aardra Kachroo, ABT 395/399 Course Coordinator
- 10:00am** **April Lamb** Virulence and Genetic Determinants of Resistance to Streptomycin by the Tobacco Angular Leaf Spot Bacterium, *Pseudomonas syringae* pv. Tabaci
Mentor: Dr. Emily Pfeufer, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 10:15am** **Grace Higgs** Distribution of Sodium in Bovine Brain Tissue in Relation to Diagnosing Sodium Intoxication
Mentor: Dr. Cynthia Gaskill, Department of Animal Sciences- Equine Programs, UK College of Agriculture, Food and Environment
- 10:30am** **Meredith Johnson** Protective Effects of Maternal Exercise on Male Offspring Born to Mothers Exposed to PCB126
Mentor: Dr. Kevin Pearson, Department of Pharmacology & Nutritional Sciences, UK College of Medicine
- 10:45am** **Osei Jordan** How Does an Alzheimer's Disease Associated SNP Alter Expression or Splicing of MEF2C?
Mentor: Dr. Steve Estus, Department of Physiology and Sanders-Brown Center on Aging, UK College of Medicine
- 11:00am** **Zachary Byrd** Utilization of Biomass Enzymes in Oak Additives
Mentor: Dr. Seth DeBolt, Department of Horticulture, UK College of Agriculture, Food and Environment
- 11:15am** **Breanna Shoemaker** Expression and Functional Analysis of dsRNA Binding Proteins Loq and R2D2
Mentor: Dr. Subba Reddy Palli, Department of Entomology, UK College of Agriculture, Food and Environment
- 11:30am** **Angela Wei** Immunohistochemistry of ABCC9 Proteins in Human Brain Tissue
Mentor: Dr. Peter Nelson, Department of Pathology, Division of Neuropathology and Sanders-Brown Center on Aging, UK College of Medicine
- 11:45am-12:30pm** LUNCH BREAK
- 12:30pm** **Bryce Marks** Integration of AAV8 Cap and AAV2 Rep into Cell Line 293ltv
Mentor: Dr. Michael Mendenhall, Department of Molecular & Cellular Biochemistry and the Center for Molecular Medicine – Genetic Technologies Core, UK College of Medicine
- 12:45pm** **Emily Major** Development and Characterization of a Model Post-Translationally Modified Protein Library
Mentor: Dr. Luke Bradley, Department of Neuroscience and the Department of Molecular & Cellular Biochemistry, UK College of Medicine
- 1:00pm** **Tyler Barton** Chitosan-double Stranded RNA Nanoparticle Influence on Expression of myo-3 in *Caenorhabditis elegans*
Mentor: Dr. Jason Unrine, Department of Plant and Soil Science, UK College of Agriculture, Food and Environment
- 1:15pm** **Nicole Payne** The Impact of Egg Size on *Neodiprion* Sawflies
Mentor: Dr. Catherine Linnen, Department of Biology, UK College of Arts & Sciences
- 1:30pm** **Anna Kogoy** Changes in Mineral Deposition in Foal Mane Hair from Birth through Weaning
Mentor: Dr. Mieke Brummer-Holder, Department of Animal & Food Sciences, UK College of Agriculture, Food and Environment
- 1:45pm** **Clay Chew** Transgenics and Heredity of TALEN Edited Alleles in Axolotls
Mentor: Dr. Randal Voss, Department of Biology, UK College of Arts & Sciences
- 2:00pm** **Maya Cleveland** p53 Status Profiling of T-cell Acute Lymphoblastic Cell Lines
Mentor: Dr. Jessica Blackburn, Department of Molecular & Cellular Biochemistry, UK College of Medicine
- 2:15pm** **Raegan Crossfield** The Control of FORMIN Twelve on Actin Cytoskeleton in Early Phase Endosperm Development
Mentor: Dr. Tomokazu Kawashima, Department of Plant and Soil Science, UK College of Agriculture, Food and Environment
- 2:30pm** **Katelyn Cox** Transient Transfection of Mammalian Cells with Luciferase and mCherry Reporter Genes for Gold-Based Chemotherapeutics Screening
Mentor: Dr. Samuel G. Awuah, Department of Chemistry and the Department of Pharmaceutical Sciences, UK College of Arts & Sciences and UK College of Pharmacy
- 2:45pm** **Henry Moore** Finding New Molecules to Target an Old Pathway in Cancer
Mentor: Dr. Jessica Blackburn, Department of Molecular & Cellular Biochemistry, UK College of Medicine
- 3:00pm-3:15pm** BREAK
- 3:15pm** **Josiah Liew Liq Jong** Mutant FIP1 and Alternative Polyadenylation Profiles in *Arabidopsis thaliana*
Mentor: Dr. Arthur Hunt, Department of Plant and Soil Science, UK College of Agriculture, Food and Environment
- 3:30pm** **Keaston Johnson** The Role of CagG and CagZ in the *H. pylori* cag Type IV Secretion System
Mentor: Dr. Carrie Shaffer, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 3:45pm** **Randall Brewer** Direct and Indirect Effects of Winter Warming on Wolf Spiders
Mentor: Dr. Nicholas Teets, Department of Entomology, UK College of Agriculture, Food and Environment
- 4:00pm** **Hye Ree Yoon** Further Characterization of Strains of *Colletotrichum* Causing Bitter Rot Disease of Apples in Kentucky Orchards
Mentor: Dr. Lisa Vaillancourt, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 4:15pm** **Joseph Stuart** How Does Estradiol Affect the Expression of Genes Associated with the G-protein and MAPK Pathways in Areas of the Brain that Control Drinking in Ovariectomized Female Rats?
Mentor: Dr. Jessica Santollo, Department of Biology, UK College of Arts & Sciences
- 4:30pm** **Kylie Colvin** Evaluating the Effects of Cold on *Drosophila* S2 Cells
Mentor: Dr. Nicholas Teets, Department of Entomology, UK College of Agriculture, Food and Environment