

ABT 395/399 Fall 2019 Research and Internship Presentation Schedule
Agricultural and Medical Biotechnology Program
Cameron Williams Lecture Hall, PSB
December 3, 2019

- 10:00am Welcome and Introduction Dr. Aardra Kachroo, ABT 395/399 Course Coordinator
- 10:00am **Trent Marshall** Relationship between sex, age, BMI and comorbidity on cognitive and emotional health in survivors of critical illness
Mentor: Dr. Kirby Mayer, Department of Rehabilitation Sciences, UK College of Health Sciences
- 10:15am **Katie Sandford** An investigation into *Habronema muscae*
Mentor: Dr. Martin Nielsen, Department of Veterinary Science, UK College of Agriculture, Food and Environment
- 10:30am **Brandon Goble** Leading causes of bacterial keratitis not so far from home for contact wearers
Mentor: Dr. Martha E. Grady, Department of Mechanical Engineering, UK College of Engineering
- 10:45am **Chi Zhang** Differential undertaking behavioral responses to corpse from different castes in eastern subterranean termite
Mentor: Dr. Xuguo Zhou, Department of Entomology, UK College of Agriculture, Food and Environment
- 11:00am **Sirui Huang** The influence of different causes of death on termite chemical profile
Mentor: Dr. Xuguo Zhou, Department of Entomology, UK College of Agriculture, Food and Environment
- 11:15-1:30pm Lunch Break** Lunch provided by the Agricultural and Medical Biotechnology Program
- 1:30pm **Samantha De Jesus** Neuropeptide Y (NPY) receptor deletion in adipocytes blunts fat-derived aldosterone production in female mice exposed to chronic stress
Mentor: Dr. Analia Loria, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 1:45pm **Bailee Taylor** Examining toxicity of phosphorene nanomaterials and their ability to remove organic contaminants from drinking water
Mentor: Dr. Olga Tsyusko-Unrine, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 2:00pm **Break**
- 2:15pm **Adam Farman** Role of serum amyloid A in obesity accelerated and cholesterol-induced atherosclerosis
Mentor: Dr. Nancy R. Webb, Department of Pharmacology & Nutritional Sciences, UK College of Medicine
- 2:30pm **Sam Hacker** Robust computational nuclei detection in microscopy of developing Arabidopsis endosperm
Mentor: Dr. Tomokazu Kawashima, Department of Plant & Soil Sciences, UK College of Agriculture, Food and Environment
- 2:45pm **Evan Hall** Effects of environmental stresses on polyadenylation in red clover
Mentor: Dr. Arthur Hunt, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 3:00pm **Donny Hyman** The genetic modification of *Catharanthus roseus* to produce anti-cancer drugs
Mentor: Dr. Ling Yuan, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 3:15pm **Cierra Isom** Evaluation of the effects of synthetic lipid anchors on apolipoprotein A-I responses
Mentor: Dr. Vincent Venditto, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 3:30pm **Nicholas Jacobs** Genetic architecture of critical thermal maximum in *Drosophila melanogaster*
Mentor: Dr. Nicholas Teets, Department of Entomology, UK College of Agriculture, Food and Environment