

ABT 395/399 Fall 2017 Research and Internship Presentations

Agricultural and Medical Biotechnology Program

Final Schedule

When: 12:55pm-5:45pm, Tuesday, December 5, 2017

Where: Cameron Williams Lecture Hall – Plant Science Building

- 12:55pm Welcome and Introduction Dr. Aardra Kachroo, ABT 395/399 Course Coordinator
- 1:00pm **Seth Biedenbender** Exposure to Novel Odors During Kleptobiotic Events may Confound Honey Bee Nest Mate Recognition
Mentor: Dr. Clare Rittschof, Department of Entomology, UK College of Agriculture, Food and Environment
- 1:15pm **Shankar Chaitanya Chereddy** RNAi and its Applications in *Aedes aegypti*
Mentor: Dr. Subba Reddy Palli, Department of Entomology, UK College of Agriculture, Food and Environment
- 1:30pm **Adrienne Arnold** Analysis of Pectin Degraders During Hemp Retting Process
Mentor: Dr. Luke Moe, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 1:45pm **Shanice Edwards** Is there Cross Infection by Colletotrichum species in Orchards?
Mentor: Dr. Lisa Vaillancourt, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 2:00pm **Break**
- 2:15pm **Toni Fehrenbacher** Modifying Autophagy in Cancer Cells to Increase Susceptibility to Chemotherapeutics
Mentor: Dr. Edmund Rucker, Department of Biology, UK College of Arts & Sciences
- 2:30pm **Break**
- 2:45pm **Rachel Gray** CRISPR-Cas9 mediated alteration of Calmodulin methyltransferase in *Lycopersicon esculentum*
Mentor: Dr. Robert Houtz, Department of Horticulture, UK College of Agriculture, Food and Environment
- 3:00pm **Austin Lingle** Testing Potential Antagonists of CCR1 and CCR5 with Facilitated Activation using CCL3 and CCL15
Mentor: Dr. Annette Gilchrist, Department of Pharmaceutical Sciences, College of Pharmacy, Midwestern University
- 3:15pm **Rachel Potter** The Role of cAMP in Presynaptic Vesicle Recruitment at Neuromuscular Junctions of Larval *Drosophila*
Mentor: Dr. Robin Cooper, Department of Biology, UK College of Arts & Sciences
- 3:30pm **Madison Rich** Impact of Serum Amyloid A Deficiency on Inflammatory Response to High Fat Diet
Mentor: Dr. Nancy R. Webb, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 3:45pm **Alberto Rondon** Protein Engineering For Starch Modification
Mentor: Dr. Matthew Gentry, Department of Molecular & Cellular Biochemistry, UK College of Medicine
- 4:00pm **Chase Thornton** Aging's Impact on Cognition, Vasculature, and Gastrointestinal Microbiome in Mouse Models
Mentor: Dr. Ai-Ling Lin, Department of Pharmacology and Nutritional Sciences and Sanders-Brown Center on Aging, UK College of Medicine
- 4:15pm **Connor VanMeter** Role of Human Metapneumovirus Phosphoprotein Domains in the Viral Lifecycle
Mentor: Dr. Rebecca Dutch, Department of Molecular & Cellular Biochemistry, UK College of Medicine
- 4:30pm **Break**
- 4:45pm **Matthew Zeltner** Biological and Targeted Synthetic DMARDs' Prior Authorization Time is Significantly Reduced with Pharmacy Presence in the Rheumatology Clinic
Mentor: Dr. Elizabeth Autry, Department of Pharmacy Practice and Science, UK College of Pharmacy
- 5:00pm **Drew Jennings** The Purification of Mouse Serum Amyloid A to Investigate Inflammasome Activation
Mentor: Dr. Marcielle deBeer, Department of Physiology, UK College of Medicine
- 5:15pm **Mason Walker** Bone Adaptation to Orthodontic Tooth Movement
Mentor: Dr. Sarandeep Huja, Department of Orthodontics, College of Dental Medicine, Medical University of South Carolina
- 5:30pm **Robert Boggs** Oil Extraction and Quantification
Mentor: Dr. David Hildebrand, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 5:45pm **Reception and Glenn B. Collins Research Achievement Award in ABT and Alltech Young Scientist Affiliate Nominee**

When: 1:00pm Friday, December 15, 2017

Where: Cameron Williams Lecture Hall, Plant Science Building

- 1:00pm **James Farrage, III** A Further Review of the Apicomplexan Pathogen *Neospora caninum* and Comparison of IMC3 Protein Production with CRISPR Fluorescence
Mentor: Dr. Daniel Howe, Department of Veterinary Science, UK College of Agriculture, Food and Environment