

ABT395/399  
Research and Internship Presentation Schedule  
Agricultural & Medical Biotechnology Program  
Spring 2021  
Tuesday, April 27 & Thursday, April 29, 2021

**Tuesday, April 27**

- 9:25 AM **Aardra Kachroo** Introductions  
9:30 AM **Aaron Harris** Effects of mycotoxins Fumonisin and Doxynivalenol  
*Mentor: Dr. Robert Hirsch, Department of Plant Pathology, College of Agriculture, Food, & Environment*  
9:45 AM **Kaitlin Cox** Salivary flow and intensity of pain in patients with burning mouth disorder  
*Mentor: Dr. Craig Miller, Division of Oral Diagnosis, Oral Medicine and Maxillofacial Radiology, College of Dentistry*  
10:00 AM **Angelica Garza** Genetic components of male-female interactions of transgenic insects carrying a conditional dominant lethal gene  
*Mentor: Dr. Nicholas Teets, Department of Entomology, College of Agriculture, Food & Environment*  
10:15 AM - 10:45 AM Break  
10:45 AM **Sydney Rogers** Measuring the over-wintering success in both latent and virulent strains of HzNV-2  
*Mentor: Dr. Bruce Webb, Department of Entomology, College of Agriculture, Food & Environment*  
11:00 AM **Cessna Langford** *Megasphaera elsdenii* supplementation effects on performance measures of crossbred Holstein X Angus calves  
*Mentor: Dr. Joao Costa, Department of Animal & Food Sciences, College of Agriculture, Food & Environment*  
11:15 AM **Allison Snyder** Azithromycin's impact on the inflammatory properties of neutrophils  
*Mentor: Dr. David Feola, Pharmacy Practice & Science Department, College of Pharmacy*  
11:30AM – 1:55 PM LUNCH  
2:30 PM **Henry Smith** Identification and characterization of *Fusarium* spp. affecting Kentucky hemp  
*Mentor: Dr. Nicole Gauthier, Department of Plant Pathology, College of Agriculture, Food & Environment*  
2:45 PM **Rebecca Martinez** Mitochondrial OXPHOS signaling regulates Wnt pathway in colon cancer  
*Mentor: Dr. Tianyan Gao, Department of Molecular & Cellular Biochemistry, College of Medicine*  
3:00 PM **Elizabeth Yates** Comparing Physical and Chemical Methods to Enhance Hemp Seed Germination  
*Mentor: Dr. Luke Moe, Department of Plant and Soil Sciences, College of Agriculture, Food & Environment*

**Thursday, April 29**

- 10:40 AM **Aardra Kachroo** Introductions  
10:45 AM **Tristan Donovan** Physiological limits in the use of channel opsins with *Drosophila melanogaster*: Body wall muscle and motor neurons  
*Mentor: Dr. Robin Cooper, Department of Biology, College of Arts & Sciences*  
11:00 AM **Jaxon Boley** Survival of bluegrass hardwood tree seedlings under varying conditions  
*Mentor: Dr. John Cox, Department of Forestry and Natural Resources, College of Agriculture, Food & Environment*  
11:15 AM **Alexi Linneman** The mechanisms of the protective immunity against *Toxoplasma gondii*  
*Mentor: Dr. Yasuhiro Suzuki, Department of Microbiology, Immunology, & Molecular Genetics, College of Medicine*  
11:30 AM **Hayden Bouren** Characterization of the Australian cane toad blood microbiome  
*Mentor: Dr. Carlos Rodriguez-Lopez, Department of Horticulture, College of Agriculture, Food & Environment*  
11:45 AM **Kylie Bickler** Dose Response of RNAi in Multiple Insect Species  
*Mentor: Dr. Lynne Rieske-Kinney, Department of Entomology, College of Agriculture, Food & Environment*  
12:00—12:55 PM Lunch  
1:00 PM **Rebecca Caldbeck** Feeding a growing population: Leghemoglobin as a visual marker for developing cisgenic plants  
*Mentor: Dr. Pradeep Kachroo, Department of Plant Pathology, College of Agriculture, Food & Environment*  
1:15 PM **Hanna Fischer** Characterizing SATB2 circular RNAs in arsenic-mediated carcinogenesis  
*Mentor: Dr. Yvonne Fondufe-Mittendorf, Department of Molecular & Cellular Biochemistry, College of Medicine*  
1:30 PM **James Campbell** The potential of CASC3 as a LEAP client protein  
*Mentor: Dr. Bruce Downie, Department of Horticulture, College of Agriculture, Food & Environment*  
1:45 PM **Alexandria Pete** Investigating the role of myosin XI-G in synergid cells for *Arabidopsis thaliana*  
*Mentor: Dr. Tomokazu Kawashima, Department of Plant and Soil Sciences, College of Agriculture, Food & Environment*  
2:00 PM **Taylor La Mantia** Virtual authentic learning experiences in molecular biology using data sonification  
*Mentor: Dr. Luke Bradley, Department of Neuroscience, College of Medicine*  
2:15 PM **Rachael Klueppel** Small molecule inhibitors of bacterial type IV secretion systems  
*Mentor: Dr. Carrie Shaffer, Department of Veterinary Science, College of Agriculture, Food & Environment*  
2:30 PM **Morgan Erwin** Transmission of the *Helicoverpa zea* nudivirus by sterile males  
*Mentor: Dr. Bruce Webb, Department of Entomology, College of Agriculture, Food & Environment*