

ABT 395/399 Spring 2020 Research and Internship Presentations
Agricultural and Medical Biotechnology Program
April 28, 2020
Final Schedule

8:50am	Zoom Check-in
8:55am	Welcome and Introduction Dr. Aardra Kachroo, ABT 395/399 Course Coordinator
9:00am	Cheyenne Chandler Characterization of epididymal fat in Zhx2 ⁺ Zhx2 ⁻ mice on a high-fat/high cholesterol diet <i>Mentor: Dr. Brett Spear, Department of Microbiology, Immunology & Molecular Genetics, UK College of Medicine</i>
9:15am	McKaylee Copher An investigation into sublethal doses of dicamba on <i>Amaranthus palmeri</i> : Are epigenetics involved in any response? <i>Mentor: Dr. Erin Haramoto, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment</i>
9:30am	Allison Ellis Discovering novel interacting proteins of the small subunit of Rubisco utilizing mini and BIOID systems <i>Mentor: Dr. Robert Houtz, Department of Horticulture, UK College of Agriculture, Food and Environment</i>
9:45am	Kara Tauer Design and evaluation of a high-quality protein screening library <i>Mentor: Dr. Luke Bradley, Department of Neuroscience, UK College of Medicine</i>
10:00am	Julie Hancock Effect of knockdown of isoflavone synthase on root nodulation <i>Mentor: Dr. Randy Dinkins, Forage-Animal Production Research Unit, USDA</i>
10:15am	Stevi Howard Chemerin as a biomarker of aging in mice <i>Mentor: Dr. Kevin Pearson, Department of Pharmacology and Nutritional Sciences, UK College of Medicine</i>
10:30am	Lora Boyadjieva Molecular and morphological identification of the causal agent of black root rot in Hemp (<i>Cannabis sativa</i>) in Kentucky <i>Mentor: Dr. Nicole Gauthier, Department of Plant Pathology, UK College of Agriculture, Food and Environment</i>
10:45am	Ashley Brown Mutations in the polyadenylation complex of <i>Sarcocystis neurona</i> that confer resistance to the anti-protozoal drug AN3661 <i>Mentor: Dr. Daniel Howe, Department of Veterinary Science, UK College of Agriculture, Food and Environment</i>
11:00pm-2:00pm	LUNCH BREAK
2:00pm	Kristen Bruce The cowpea aphid is a suitable food source for green lacewings <i>Mentor: Dr. Jen White, Department of Entomology, UK College of Agriculture, Food and Environment</i>
2:15pm	Jordan Corley Effect of bacterial adaptation to the environment on cellulose production, or how Covid-19 made me adapt <i>Mentor: Dr. Carlos Rodriguez Lopez, Department of Horticulture, UK College of Agriculture, Food and Environment</i>
2:30pm	Makenzie Goodness Generation and Characterization of a Demethylated Soybean Population <i>Mentor: Dr. Carlos Rodriguez Lopez, Department of Horticulture, UK College of Agriculture, Food and Environment</i>
2:45pm	Larissa Silverio-Ferrell Peeking into the unknown: Can we breed plant-microbe interactions for more sustainable crops? <i>Mentor: Dr. Carlos Rodriguez Lopez, Department of Horticulture, UK College of Agriculture, Food and Environment</i>
3:00pm	Kristoffer Childers Assessing the Accuracy and Practicality of <i>bellus3D Dental Pro</i> Mobile Application <i>Mentor: Dr. Mohamed Bazina, Department of Oral Health Science, UK College of Dentistry</i>
3:15pm	Hannah Kemplin Inhibition of hexosamine biosynthesis reduces colorectal cancer proliferation and survival <i>Mentor: Dr. Kate Zaytseva, Department of Toxicology and Cancer Biology, Markey Cancer Center, UK College of Medicine</i>
3:30pm	Elena Manauis Characterization of Novel N-Methyltransferase for the Alternative Alkylation of Nucleosides <i>Mentor: Dr. Steven Van Lanen, Department of Pharmaceutical Sciences, UK College of Pharmacy</i>
3:45pm	Erin McMahon Biotinylation of <i>Rhodococcus equi</i> Surface Proteins <i>Mentor: Dr. Carrie Shaffer, Department of Veterinary Science, UK College of Agriculture, Food and Environment</i>
4:00pm	Sydney Ott X-Clarity: See-through technology to look into the brain <i>Mentor: Dr. Bjoern Bauer, Department of Pharmaceutical Sciences, UK College of Pharmacy</i>
4:15pm	Kate Rodgers Analyzing pipercolic acid metabolism in soybean <i>Mentor: Dr. Pradeep Kachroo, Department of Plant Pathology, UK College of Agriculture, Food and Environment</i>
4:30pm	Yating Zhang Competitor intimidation in termites through behavioral tracking <i>Mentor: Dr. Xuguo Zhou, Department of Entomology, UK College of Agriculture, Food and Environment</i>