## ABT 395/399 Spring 2022 Presentations Tuesday, April 19, 2022 Cameron Williams Lecture Hall, Plant Science Building

9:10am Aardra Kachroo Welcome & Introductions

9:15-9:30 AM Ryan Dodds Leghemoglobin: A visual marker

Mentor: David Hildebrand, Ph.D., Department of Plant and Soil Sciences, College of Agriculture, Food and Environment

**9:30-9:45 AM** Benjamin Clements Epigenetic and phenotypic variability in second generation soybean epimutants *Mentor: Carlos Rodriguez-López, Ph.D., Department of Horticulture, College of Agriculture, Food and Environment* 

**9:45-10:00 AM** Ava Vilardo Insulin signaling effects on ApoA1 retention *Mentor: Gregory Graf, Ph.D., Department of Physiology, College of Medicine* 

**10:00-10:15 AM** Dianna Burgess Characterization of antibiotic allergy labeling in pediatric patients and impact on antibiotic prescribing practices at a single institution

Mentor: Elizabeth Autry, PharmD, Kentucky Children's Hospital & the Department of Pharmacy Practice and Science, College of Pharmacy

**10:15-10:30 AM** Nick Krommer Measuring cyanide precursors in grains used for Bourbon production *Mentor: Jarrad Gollihue, Ph.D., James Beam Institute for Kentucky Spirits, College of Agriculture, Food and Environment* 

**10:30-10:45 AM** Abigail Vetter Relationship between environmental conditions and strongylid parasite diversity *Mentor: Martin Nielsen, Ph.D., Department of Veterinary Science, College of Agriculture, Food and Environment* 

## 10:45 AM-2:10 PM Break

**2:10 PM** Begin afternoon session

**2:15-2:30 PM** Kelly Whitmore Using serological testing to detect antibodies against *Neospora hughesi* in blood samples of Brazilian *Equus caballus* affected by Equine Protozoal Myeloencephalitis (EPM)

Mentor: Daniel Howe, Ph.D., Department of Veterinary Science, College of Agriculture, Food and Environment

**2:30-2:45 PM** Francisco Beltran Investigating Colletotrichum's antibacterial potential Mentors: Steven Van Lanen, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy & Lisa Vaillancourt, Ph.D., Department of Plant Pathology, College of Agriculture, Food and Environment

**2:45-3:00 PM** Logan Bechanan Regional variation of metabolites and phenols in *Quercus alba Mentor: Seth DeBolt, Ph.D., Department of Horticulture, College of Agriculture, Food and Environment* 

**3:00-3:15 PM** Robert Screen Thermal tolerance of *Drosophila melanogaster* carrying conditionally lethal transgenes for pest control

Mentor: Nick Teets, Ph.D., Department of Entomology, College of Agriculture, Food and Environment

## ABT 395/399 Spring Presentations Thursday, April 21, 2022 Cameron Williams Lecture Hall, Plant Science Building

9:10am Aardra Kachroo Welcome & Introductions

**9:15-9:30 AM** Rielee Phelps Development of a high throughput assay for RNA dependent RNA polymerase *Mentor: Steven Van Lanen, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy* 

**9:30-9:45 AM** Amy Joubert Cannabidiol, inflammation, and blood brain barrier leakage in animal models of *Status epilepticus* 

Mentor: Bjoern Bauer, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy

**9:45-10:00 AM** Rikke Sveigaard Nielsen Spatially resolved central carbon labelling in a mouse model of AD *Mentor: Ramon Sun, Ph.D., Department of Neuroscience, College of Medicine* 

**10:00-10:15 AM** Taylor Ann Lucas Alternate approaches to TRPM8 and TRPA1 activation of the cardiovascular system *Mentor: Thad Wilson, Ph.D., Department of Physiology, College of Medicine* 

**10:15-10:30 AM** Anna-Blake Langley Seasonal variation in disinfection byproducts in Kentucky's drinking water *Mentor: Jason Unrine, Ph.D., Department of Plant and Soil Sciences, College of Agriculture, Food and Environment* 

**10:30-10:45 AM** Joseph Ison Isolation and identification of auxin producing bacteria *Mentor: Luke Moe, Ph.D., Department of Plant and Soil Sciences, College of Agriculture, Food and Environment* 

**10:45-11:00 AM** Alex Stewart Hybrid assembly of cane toad gut microbiomes from invasive and non-invasive Australian populations

Mentor: Carlos Rodríquez López, Ph.D., Department of Horticulture, College of Agriculture, Food and Environment

## 11:00 AM-1:55 PM Break

**1:55 PM** Begin afternoon session

**2:00-2:15 PM** Tyra Gilbert Identifying metabolic processes of L-proline synthesized from D-ornithine *Mentor: Luke Moe, Ph.D., Department of Plant and Soil Sciences, College of Agriculture, Food and Environment* 

**2:15-2:30 PM** Emmie Sellers Evaluating MMP9 as a potential mechanism for hyperhomocysteinemia induced cerebrovascular pathology

Mentor: Donna Wilcock, Ph.D., Department of Physiology, College of Medicine

**2:30-2:45 PM** Zach Hyatt The effects of cholesterol loading on macrophage protease production *Mentor: Scott Gordon, Ph.D., The Saha Cardiovascular Research Center, College of Medicine*