

STUDENT RESEARCH PRESENTATIONS
AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395/399)
Final Schedule

When: 1:00 pm – 5:00pm, Tuesday, December 9, 2014 **Where:** Cameron Williams Lecture Hall – Plant Science Bldg.

When: 1:00pm-- Thursday, December 11, 2014 **Where:** S-201 Agricultural Science Center North

- 12:50 pm** Welcome and Introduction Dr. Bruce Webb, ABT 395/399 Course Coordinator
- 1:00 pm** **Allison Young** Identification of surface antigens in the llama and alpaca parasite *Sarcocystis aucheniae*
Mentor: Dr. Dan Howe, Department of Veterinary Sciences, UK College of Agriculture, Food and Environment
- 1:15pm** **Jesse Matherly** Electrochemiluminescent Enzyme-linked Immunosorbent Assay for Accurate and Consistent Quantification of Synaptophysin in Mouse Brain Tissue
Mentor: Dr. Linda Van Eldik, Sanders Brown Aging Center, UK College of Medicine
- 1:30pm** **Jessica Lowe** The Effect of Alley Floor Scraping Frequency on Environmental Mastitis-causing Pathogen Counts
Mentor: Dr. Jeff Bewley, Department of Animal Sciences, UK College of Agriculture, Food and Environment
- 1:45pm** **Mallory Shoffner** Behavioral Effects of Conspecific and Congeneric Cuticular Hydrocarbons on Undertaking Response in *Reticulitermes flavipes*
Mentor: Dr. Xuguo Zhou, Department Entomology, UK College of Agriculture Food and the Environment
- 2:00pm** **Rebecca Wentz** Regulation of *Catharanthus roseus* Terpene Indole Alkaloids by the Phytohormone Auxin
Mentor: Dr. Craig M. Schuttenhoffer and Dr. Ling Yuan, Department of Plant and Soil Sciences and the Kentucky tobacco Research and Development Center, UK College of Agriculture Food and Environment
- 2:15pm** **Rafaelo Prado** Development of Transgenic Rice Plants Expressing Fluorescent Protein Markers in Different Cellular Compartments
Mentor: Dr. Mark Farman, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 2:30pm** **Katlyn McNeill** Racemization of D-Arginine in *Pseudomonas putida* KT2440
Mentor: Dr. Luke Moe, Department of Plant and Soil Sciences, UK College of Agriculture, Food and Environment
- 2:45pm** **Katlyn Mulhall** Alterations in High Density Lipoproteins in Individuals with Metabolic Syndrome
Mentor: Dr. Nancy Webb, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 3:00 BREAK**
- 3:15pm** **Mackenzie Crite** Identification of Residues on the Human Metapneumovirus Fusion Protein Critical for Heparin Sulfate Interactions
Mentor: Dr. Becky Dutch, Department of Biochemistry and Molecular Biology, UK College of Medicine
- 3:30pm** **James Perry** Preliminary Insight: Discovering Pale Yellow Gene Metabolic Function in *Nicotiana tabacum*
Mentor: Dr. Colin Fisher and Dr. Ling Yuan, Department of Plant and Soil Sciences and Kentucky Tobacco Research and Development Center, UK College of Agriculture, Food and Environment
- 3:45pm** **Cody Manning** Study of QTc Variance in Transgenic Mouse Model of Long QT Syndrome Type 3: Implications for Concealed LQTS
Mentor: Dr. Brian Delisle, Department of Physiology, UK College of Medicine
- 4:00pm** **Jessica Gambrel** Identification of GAPDH Binding Targets using Phage Display
Mentor: Dr. Luke Bradley, Department of Anatomy and Neurobiology, UK College of Medicine
- 4:15pm** **Natalie Jo Senn** Circadian Rhythms; Changes Associated with Varying Health Parameters
Mentor: Dr. Elizabeth Stumpf, Department of Physiology, UK College of Medicine
- 4:30pm** **Layne Ellen Duff** Pathology and Distribution of Tobacco Ringspot Virus in Brazil
Mentor: Dr. Michael Goodin, Department of Plant Pathology, UK College of Agriculture, Food and Environment
- 4:45 pm** Reception and awarding of the Glenn B. Collins Undergraduate Research Achievement Award in Agricultural Biotechnology and Alltech Young Scientist Affiliate Nomination
- When:** 1:00pm--Thursday, December 11, 2014 **Where:** S-201 Agricultural Science Center North
- Griff Motes** Posttranslational modifications in a synthetic protein library for use in biotechnology
Mentor: Dr. Luke Bradley, Department of Anatomy and Neurobiology, UK College of Medicine