

**STUDENT RESEARCH PRESENTATIONS**  
**AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395/399)**  
 Final Schedule Spring 2015

**When:** 1:00 pm – 6:00 pm, Tuesday April 28, 2015

**Where:** Cameron Williams Lecture Hall – Plant Science Bldg.

- 12:50 pm** Welcome and Introduction Dr. Bruce Webb, ABT 395/399 Course Coordinator
- 1:00 pm** **Natalie Conley** Identification of the Unusual Promoting Region of Zhx2  
 Mentor: Dr. Martha Peterson, Dept. of Microbiology, Immunology and Molecular Genetics, UK College of Medicine
- 1:15pm** **Morgan Thurman** A Survey and Interpretation of the Landscape of Research Commercialization Experienced by Faculty at the University of Kentucky  
 Mentor: Dr. Nathan L. Vanderford, PhD. Markey Cancer Center, UK College of Medicine
- 1:30pm** **Bradley Blankenship** Pharmacogenomics and Understanding Transforming Growth Factor  $\beta$  in Erlotinib Resistance an the Epithelial Mesenchymal Transition  
 Mentor: Dr. Penni Black, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 1:45pm** **Samuel Janes** Histological Studies in a Mouse Model Pave the Way for Treatment of Abdominal Aortic Aneurysms in Humans  
 Mentor: Dr. Nancy Webb, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 2:00 pm** **Logan Hazelwood** Effects of Polyphenols in Gum for Inhibition of Bacteria Associated with Gingivitis  
 Mentor: Dr. Craig Miller, Department of Dentistry Oral Health Practice, UK College of Dentistry
- 2:15 pm** **Aileexandria Sandlin** Progression Pattern of Spinal Cord Injuries Using MRI Screening  
 Mentor: Dr. Alexander Rabchevsky, Ph.D. Dept. of Spinal Cord and Brain Injury Research, UK College of Medicine
- 2:30 pm** **Melanie Hurst** Morphometric analysis of ovipositor structure in three sympatric populations of the redheaded pine sawfly, *Neodiprion lecontei*  
 Mentor: Dr. Catherine Linnen, Department of Biology, UK College of Arts and Sciences
- 2:45 pm** **Ikenna Chukwudolue** Decreased Hippocampal Neurogenesis in a Mouse Model of Post-Traumatic Trigeminal Pain  
 Mentor: Dr. Karin High, Department of Physiology, College of Medicine
- 3:00 pm** **Break**
- 3:15 pm** **Shannon Woody** 17-beta Estradiol Decreases the Progression of Abdominal Aortic Aneurysms in Female Hyperlipidemic Mice  
 Mentor Dr. Lisa A. Cassis, Department of Pharmacology and Nutritional Sciences, UK College of Medicine
- 3:30 pm** **Kristen Brewer** Distribution of Two Unique Genes in Perissodactyls  
 Mentor: Dr. Teri Lear, Department of Veterinary Science, UK College of Agriculture Food and the Environment
- 3:45 pm** **Elise Garrett** Effect of Selenium Supplemental Bull Fertility  
 Mentor: Dr. Philip Bridges, Dept. of Animal and Food Sciences, UK College of Agriculture Food and Environment
- 4:00 pm** **Jordan Hampton** Porous Silica Nanoparticles in Loading and Delivering Nucleic Acids to Insect Cells  
 Mentor: Dr. Bruce Webb, Dr. Steve Rankin and Dr. Barbara Knutson, Department of Entomology and Chemical and Materials Engineering, UK College of Agriculture Food and Environment and UK College of Engineering.
- 4:15 pm** **John Sutton** Alu-RNA levels in Cardiac Tissue Compared with Presence of Atherosclerosis  
 Mentor: Dr. Bradley Gelfand, Department of Ophthalmology and Visual Science, UK College of Medicine
- 4:30 pm** **Danielle Garza** The Effects of Genetic Modification of *Valeriana officinalis* on Fish Behavior  
 Mentor: Dr. Joseph Chappell, Department of Pharmaceutical Sciences, UK College of Pharmacy
- 4:45 pm** **Kevin Hawk** Engineering Thermotolerant Fuel Ethanol Yeast Strain  
 Mentor: Dr. Joy Ghosh, Ferm Solutions, Danville, KY
- 5:00 pm** **Ryan Marion** Home Safety Survey of Elderly Patients with Cognitive Impairment  
 Mentor: Richard Murphy, Department of Neurology, College of Medicine
- 5:15 pm** Reception and Glenn B. Collins Research Achievement Award in ABT and Alltech Young Scientist Affiliate Nominee

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**When:** Thursday April 30, 1:00 PM

**Where:** Cameron Williams Lecture Hall – Plant Science Bldg.

- 1:00 pm**      **Eric Talley**    Cellulose synthesis in cellulose synthase (CesA) complexes  
*Mentor: Dr. Seth DeBolt, Department of Horticulture, UK College of Agriculture Food and Environment*
- 1:15 pm**      **Kendall Holscher**    Host Membrane Interaction and Relocalization Induced by Potato Yellow Dwarf Virus Matrix Protein  
*Mentor: Dr. Michael Goodin, Department of Plant Pathology, UK College of Agriculture Food and the Environment*
- 1:30 pm**      **James Brown**    ZHX2 Regulation of Target Genes in Normal Liver and Hepatocellular Carcinoma  
*Mentor: Dr. Brett Spear, Department of Microbiology, Immunology and Molecular Genetics, UK College of Medicine*