

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

**Thursday, April 26, 2012**  
**Cameron Williams Lecture Hall – Plant Science Building**

**2:00 PM** Welcome and Introduction (Dr. Bruce Webb)

**2:00 PM** Knocking out Hypoxanthine-xanthine-guanine Phosphoribosyl Transferase Gene in *Sarcocystis neurona*

**Zijing Zhang**

*Mentor Dr. Daniel Howe, UK Department of Veterinary Sciences, College of Agriculture*

**2:15 PM** Molecular Fingerprinting of the Gastrointestinal Bacteria of Horses, Co-located Ruminants, and Geographically Distant Hindgut-fermenters

**Tatijana Fisher**

*Mentor: Dr. Laurie Lawrence, UK Department of Animal and Food Sciences, College of Agriculture*

**2:30 PM** The Effects of Varying Temperature on Beetle Development and its Corresponding Effect on Seed Growth

**Renu Ramesh**

*Mentor: Dr. Chuck Fox, UK Department of Entomology, College of Agriculture*

**2:45 PM** Cross-linked Nanoassemblies for pH-Controlled Drug Delivery to Tumors

**Thomas Hanna**

*Mentor: Dr. Younsoo Bae, UK Department of Pharmaceutical Sciences, College of Pharmacy*

**3:00 PM** **BREAK**

**3:15PM** The Safety and Efficiency of VV-PISH Circuit in Induction of Systemic Hyperthermia

**Abby Rowland**

*Mentor: Dr. Cherry Croft, UK Department of Surgery, College of Medicine*

**3:30 PM** Function of SpoVG in *Staphylococcus aureus*

**Christi Rowland**

*Mentor: Dr. Brian Stevenson, UK Department of Microbiology, Immunology and Molecular Genetics, College of Medicine*

**3:45 PM** Characterization of Orofacial Pain in Rats: Comparison of Thermal and Mechanical Sensitivities

**Macy Brown**

*Mentor: Dr. Craig Miller, Department of Oral Health Practice, UK College of Dentistry*

**4:00 PM** Target Gene Identification of Arabidopsis MADS Domain Protein AGAMOUS-Like 15 and Their Affects on Somatic Embryogenesis

**Kory Brinker**

*Mentor: Dr. Sharyn Perry, UK Department of Plant and Soil Sciences, College of Agriculture*

**4:15 PM** Design and Construction of High-Quality Phage Display Screening System

**Sean Riddle**

*Mentor: Dr. Luke Bradley, UK Department of Anatomy and Neurobiology, UK College of Medicine*

**4:15 PM** **RECEPTION** and **AWARDING** of The Glenn Collins Undergraduate Research and Presentation Award – Atrium of the Plant Science Building

*Hosted by: The Agricultural Biotechnology Program*