

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

Tuesday, April 29, 2014

Cameron Williams Lecture Hall – Plant Science Building

1:15 PM Welcome and Introduction (Dr. Bruce Webb)

1:30 PM Gavin Hall Visualization of Tcf/Lef function using Wnt/ β -catenin Reporting Transgenic Axolotls.

Mentor: Dr. Ashley Seifert, Department of Biology, College of Arts & Sciences

1:45 PM Stephanie Carey The Effects of ORaMD on Oral Pathogens.

Mentor: Dr. Dolph Dawson, Department of Dentistry Oral Health Practice, College of Dentistry

2:00 PM Lauren Cartwright An Interaction of the Effects of Ischemia and Estrogen in Astrocytes.

Mentor: Dr. Melinda Wilson, Department of Physiology, UK College of Medicine

2:15 PM BREAK

2:30 PM Heather Hoppe The Effect of Glycogen Storage in the Liver in Mice Deficient of Skeletal Muscle BMAL1.

Mentor: Dr. Karyn Esser, Department of Physiology, College of Medicine

2:45 PM Andrea Eastes Human Metapneumovirus Matrix Protein Localization and Protein Interactions.

Mentor: Dr. Becky Dutch, Department of Molecular and Cellular Biochemistry in the College of Medicine.

3:00 PM Toria Fischer Maternal Exercise During Pregnancy Delays Tumor Formation in Mouse Offspring: A Mechanistic Approach.

Mentor: Dr. Kevin Pearson, Department of Pharmacology and Nutritional Sciences, College of Pharmacy

3:15 PM Maci Stephens Transabdominal Ultrasonography and a Novel Scoring System as a Tool for Diagnosing *P. equorum* Infection and the Risk of Impaction in Foals.

Mentor: Dr. Martin Nielsen, Department of Veterinary Science, College of Agriculture Food and the Environment

NOTE: The second session of the ABT 395/399 Student Research Presentations will be held on Wednesday 4-26-07 in the Cameron Williams Auditorium of the Plant Science Building. Afterwards, a reception for students and their mentors (hosted by the Agricultural Biotechnology Committee) will be held, and presentation of The Glenn Collins Undergraduate Research and Presentation Awards made (one for each Session I and II), in the atrium of the Plant Science Building.

STUDENT RESEARCH PRESENTATIONS – SESSION II
AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395/399)

Wednesday, April 30, 2014
Cameron Williams Lecture Hall – Plant Science Building

1:00 PM Welcome and Introduction (Dr. Bruce Webb)

1:15 PM Donavyn Coffey Analysis of Curcumin Polymer for the Treatment of Oral Mucositis.
Mentor: Drs. J. Zach Hilt and Tom Dziubla Department of Chemical and Materials Engineering, College of Engineering

1:30 PM Claci Ayers The Effects of the Melanocortin 1 Receptor (MC1R) Signaling Pathway on the Mitochondria Metabolism.
Mentor: Dr. John D'Orazio, Department of Pediatric Hematology/Oncology, College of Medicine

1:45 PM Olivia Mueller The Structural Characterization of *Borrelia burgdorferi*.
Mentor: Dr. Brian Stevenson, Department of Microbiology, Immunology and Molecular Genetics, College of Medicine

2:00 PM Karah Brown Transcriptional Regulation of CSPZ Binding Protein.
Mentor: Dr. Brian Stevenson, Department of Microbiology, Immunology and Molecular Genetics, College of Medicine

2:15 PM BREAK

2:30 PM Matthew Testa Function and Expression of Nuclear Receptors in Bed Bugs.
Mentor: Dr. Reddy Palli, Department of Entomology, College of Agriculture Food and the Environment

2:45 PM Margaret Schilch Identification and Localization of the *Sarcocystis neurona* Rhopty Protein SnROP9.
Mentor: Dr. Daniel Howe, Department of Veterinary Science, College of Agriculture Food and the Environment

3:00 PM Brooke Nemec Investigating Sequences of Exon 1 of the CXCL16 Candidate Gene for Equine Arteritis Virus Resistance Among Equidae, Rhinocerotidae, and Tapiridae.
Mentor: Dr. Ernie Bailey, Department of Veterinary Science, College of Agriculture Food and the Environment

3:15 PM Lindsay Jarrell Measuring Fracture Energy of Bond Between Acrylic Polymer and Bovine Dentin.
Mentor: Dr. Richard Mitchell, Department of Dentistry Oral Health Practice, College of Dentistry

3:30 PM Alexander Wilk Development of a Percutaneous Right Ventricular Assist Device.
Mentor: Dr. Cherry Croft, Department of Cardiothoracic Surgery, College of Medicine

3:45 Alex Belt Polyadenylation during Heat Shock in Arabidopsis.
Mentor: Dr. Arthur Hunt, Department of Plant and Soil Sciences, College of Agriculture, Food and the Environment

4:00 PM RECEPTION and AWARDING of The Glenn Collins Undergraduate Research and Presentation Awards – Atrium of the Plant Science Building
Hosted by: The Agricultural Biotechnology Program