

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

When: 2:00 – 4:00 PM, Tuesday, April 28, 2009

Where: Cameron Williams Lecture Hall – Plant Science Bldg.

Welcome and Introduction (Dr. Jamie Matthews)

2:00 PM Transformation of Primary Murine Melanocytes of Differing Melanocortin-1 Receptor Status

Leah Ditsch

Mentor: Dr. John D'Orazio, Department of Pediatric Hematology/Oncology, UK College of Medicine

2:15 PM Developing Renewable Lubricants Using Cyclopropane Fatty Acids

Alysha Lewis

Mentor: Dr. David Hildebrand, Department of Plant and Soil Sciences, UK College of Agriculture

2:30 PM Venom Analysis of Long-term Captive Pakistan Cobra (*Naja naja*) Populations

Cassie Modahl

Mentor: Professor R. Manjunatha Kini, Department of Biological Sciences, National Univ. of Singapore

2:45 PM GATA Transcription Factors of the Red Flour Beetle, *Tribolium castaneum*: Their Role in Vitellogenesis

Erica Perdan

Mentor: Dr. Reddy Palli, Department of Entomology, UK College of Agriculture

3 PM BREAK

3:15 PM Mapping the Nuclear Localization Signal of the Nucleocapsid Protein of Potato Yellow Dwarf Virus.

Robert Brooks

Mentor: Dr. Michael Goodin, Department of Plant Pathology, UK College of Agriculture

3:30 PM Surface Optimization of Microelectrode Arrays for Improved Neurotransmitter Recordings

Emerald Powell

Mentor: Dr. Greg A. Gerhardt, Department of Anatomy and Neurobiology, UK College of Medicine

STUDENT RESEARCH PRESENTATIONS
AGRICULTURAL BIOTECHNOLOGY PROGRAM
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When: 2:00 – 4:00 PM, Thursday, April 30, 2009

Where: Cameron Williams Lecture Hall – Plant Science Bldg.

Welcome and Introduction (Dr. Jamie Matthews)

2:00 PM Generation of Genetic Markers in the Recombinant Modified Live Virus Vaccine Strain of Equine Arteritis Virus for Development of Marker Vaccines

Jessica Brooke-Ann Gusler

Mentor: Udeni B.R. Balasuriya, Department of Veterinary Science, UK College of Agriculture

2:15 PM Epstein-Barr virus and Cytomegalovirus and Contribution to Periodontal Disease

William Hawks

Mentor: Dr. Craig Miller, Department of Oral Medicine, UK College of Dentistry

2:30 PM Cellular Source of Obesity-Induced SAA Expression in Adipose Tissue

Elyse Tinker

Mentor: Dr. Victoria King-McBrayer, Department of Internal Medicine, UK College of Medicine

2:45 PM Using the Eastern Tent Caterpillar as a Production System for AgipMNPV

Cody Elder

Mentor: Dr. Daniel Potter, Department of Entomology, UK College of Agriculture

3:00 PM BREAK

3:15 PM *In planta* Localization of Potato Yellow Dwarf Virus Proteins

Kristin Kopperud

Mentor: Michael M. Goodin, Department of Plant Pathology, UK College of Agriculture

3:30 PM Investigating the Ability of *Campoplex sonorensis* Polydnavirus DNA Segments to Integrate into Insect Cells

Lacey Bittel

Mentor: Dr. Bruce A. Webb, Department of Entomology, UK College of Agriculture

3:45 PM

MEK and EGFR Inhibition Activity in EGFR-dependent Non-small Cell Lung Cancer (NSCLC)

James W. Frazier

Mentor: Dr. Penni Black, Department of Pharmaceutical Sciences, UK College of Pharmacy

4 PM RECEPTION and AWARDING (Dr. Bruce Webb) of the Glenn Collins Undergraduate Research Achievement Award in Agricultural Biotechnology

Atrium of the Plant Science Building

Hosted by: The Agricultural Biotechnology Program