

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

When: 1:00 pm, Thursday, April 29, 2010

Where: Cameron Williams Lecture Hall – Plant Science Bldg.

Welcome and Introduction (Dr. Jamie Matthews, ABT 395 Course Coordinator)

1:00 PM Cellulose Synthase 9 Serves a Non-redundant Role in Secondary Cell Wall Synthesis in *Arabidopsis* Epidermal Testa Cells

Brian Williams

Mentor: Dr. Seth DeBolt, Department of Horticulture, UK College of Agriculture

1:15 PM Improving the Surface of Microelectrodes

Reiya Hayden

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

1:30 PM Antibody Responses to Group B *Streptococcus* and *Prevotella bivia* in Pregnant Women

Christopher Chance

Mentor: Dr. Michelle Steffen, Center for Oral Health, UK College of Dentistry

1:45 PM Creation of a Promoterless Neomycin Vector for Targeted Knockout

Alex Williams

Mentor: Dr. Edmund Rucker, Department of Biology, UK College of Arts and Sciences

2:00 PM Nanoparticle Treatment of Differentiating Embryonic Stem Cells

Anita Fletcher

Mentor: Dr. David Yurek, Department of Neurosurgery, UK College of Medicine

2:15 PM BREAK

2:30 PM The Effects of Topical Forskolin Application on Epidermal Thickness

Kevin Donohue

Mentor: Dr. John D'Orazio, Department of Pediatrics, UK College of Medicine

2:45 PM Factors Required for Viral Cell-to-Cell Movement

Max Bridges

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

3:00 PM Chronic Alcoholic Pancreatitis and Met-Enkephalin Protection

Nick Mancuso

Mentor: Dr. Karin High, Department of Physiology, UK College of Medicine

3:15 PM Genes Regulated by the MADS Protein AGL-15 During Embryogenesis, in *Arabidopsis thaliana*

Whitney Burnie

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

3:30 PM *In planta* Association of Potato Yellow Dwarf Virus Proteins

Kristin Kopperud

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

3:45 PM Development of a High Throughput Assay for Mutant *Botryococcus* Synthase Gene

Ramel Dhakal

Mentor: Dr. Joe Chappell, Department of Plant and Soil Sciences, UK College of Agriculture

4:00 PM RECEPTION (hosted by the Agricultural Biotechnology Program) and **AWARDING** of the Glenn B. Collins Undergraduate Research Achievement Award in Agricultural Biotechnology (by Dr. Dan Howe, Chair, the Agricultural Coordinating Committee) - Atrium of the Plant Science Building