

**SPRING 2008 STUDENT RESEARCH PRESENTATIONS  
AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395/399)**

**Thursday, April 24, 2008, 1 – 5 PM**

**Cameron Williams Lecture Hall – Plant Science Building**

**1:00 PM Welcome and Introduction** (Dr. Jamie Matthews)

**1:00 PM Influences of Surgically Transplanted Notochord on Embryonic Chick Axon Differentiation**

**John Cebak**

*Mentor: Dr. Philip Bonner, UK Department of Biology*

**1:15 PM Using PCR to Detect Endophyte in Seed**

**Samantha Horn**

*Mentor: Dr. Randy Dinkins, USDA-ARS Forage and Animal Production Research Unit, Lexington, KY*

**1:30 PM The Effect of Estrogen on the Gene Expression Profiles of Gonadotropin-Releasing Hormone (GnRH) Neurons in Female Mice**

**Nichole Frantz**

*Mentor: Dr. Lothar Jennes, UK Department of Anatomy and Neurobiology*

**1:45 PM The Effects of Hyperbaric Medicine on Equine Glucose Levels**

**Katherine Wilkie**

*Mentor: Dr. Nathan Slovis, Hagyard Equine Medical Institute (Dr. James C. Matthews, UK Department of Animal Sciences)*

**2:00 PM Developing TaqMan Gene Expression Assays for Cytokine IL-1(beta), IL-6, TNF-(alpha), and Ubiquitin for Rat Gingival Tissue**

**Alex McIlvaine**

*Mentor: Dr. Jeffrey Smiley, UK Division of Lab Animal Resources*

**2:15 PM Estrogen Treatment Effects Neuroprotection in Rat Cortical Explants Following Ischemic Injury**

**Stephanie Pyzola**

*Mentor: Dr. Melinda Wilson, UK Department of Physiology*

**2:30 PM Effect of an Androgen Receptor Antagonist on Angiotensin II – Induced Abdominal Aortic Aneurysms**

**Erika Namay**

*Mentor: Dr. Lisa Cassis, UK Graduate Center for Nutritional Sciences*

**2:45 PM BREAK**

**Continued: SPRING 2008 STUDENT RESEARCH PRESENTATIONS  
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**Thursday, April 24, 2008, 1 – 5 PM**

**Cameron Williams Lecture Hall – Plant Science Building**

**3:00 PM** Mapping the Nuclear Localization Signals of the Potato Yellow Dwarf Virus Phosphoprotein and Nucleocapsid Proteins

**John Wigginton**

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

**3:15 PM** Epithelial Cell Responses to Challenges by Planktonic and Biofilm *Actinomyces naeslundii*

**Jonathan Bott**

*Mentor: Dr. Karen Novak, UK Department of OHP Periodontics and Center for Oral Health Research*

**3:30 PM** Genetics of MoTER Transposition in *Magnaporthe oryzae*

**Jason Nehmer**

*Mentor: Dr. Mark Farman, UK Department of Plant Pathology*

**3:45 PM** The Effects of ART on Oral Epithelial Cell Differentiation

**Kathryn Buck**

*Mentor: Dr. Craig S. Miller, UK Department of Oral Health*

**4:00 PM** Tissue Expression Patterns Identify Mouse Cilia Genes

**Chad Glasser**

*Mentor: Dr. Timothy S. McClintock, UK Department of Physiology*

**4:15 PM** Crystallization of Hepatocyte Nuclear Factor 1 Beta in Complex with DNA

**Bartley Morris**

*Mentor: Dr. Mark Farman, UK Department of Plant Pathology*

**4:30 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*