Seminar Series: Spring 2006

January

**January 9** - Tim I. Musch, Ph.D.
Departments of Kinesiology, Anatomy and Physiology
College of Veterinary Medicine
Kansas State University
*Muscle Microcirculatory Oxygen Exchange in Chronic Heart Failure*

**January 23** - **Faculty Candidate**
Brent M. Bany, Ph.D.
Department of Physiology
School of Medicine
Southern Illinois University
*Post-Implantation Mouse Conceptuses Produce Paracrine Signals that Regulate the uterine Endometrium Undergoing Decidualization*

**January 30** - **Faculty Candidate**
Andrei B. Belousov, Ph.D.
Department of Cell & Molecular Biology
Tulane University
New Orleans, Louisiana
*Glutamate-Dependent Neuronal Plasticity in the Central Nervous System: Chemical and Electrical Synapses*

February

**February 6** - **Faculty Candidate**
Rafal Butowt, Ph.D.
Department Of Physiology
University of Nevada
*Neuronal Trafficking of Trophic Factors in the Developing Visual System*

**February 13** – Leslie L. Heckert, Ph.D.
Molecular & Integrative Physiology
KUMC
*Partial Rescue of SF-1 Null Mice Reveals its Role in Leydig Cell Development*

**February 20** – **Faculty Candidate**
Michael M. Francis, Ph.D.
Department of Biology
University of Utah
*Molecular Regulation Neurotransmitter Receptors at C. Elegans Synapses*
February 27 – Craig A. Harms, Ph.D.
Department of Kinesiology
Kansas State University
*Exercise-Induced Arterial Hypoxemia: Mechanisms and Consequences*

March

March 6 – Rong Li, Ph.D.
Stowers Institute For Medical Research
Kansas City, Missouri
*A Budding Problem: The Design Principles in the Control of Cell Polarization*

March 13 - Nanduri R. Prabhakar, Ph.D.
Department of Physiology & Biophysics
Case Western Reserve University
*Oxygen Sensing in Health and Disease*

March 16 - **Faculty Candidate**
Kyle E. Orwig, Ph.D.
Pittsburgh Development Center of the Magee-Women's Research Institute
University of Pittsburgh
*Spermatogonial Stem Cells and Regenerative Medicine*

March 20 - Sam Enna, Ph.D.
Molecular & Integrative Physiology
KUMC
*Molecular and Pharmacological Properties of GABA-B Receptors*

March 27 - Juan L. Bruses, Ph.D.
Department of Anatomy & Cell Biology
KUMC
*The N-Cadherin Complex in Synapse Formation and Neuronal Physiology*

March 29 - **Dissertation Defense**
Alfred Casillan
Molecular & Integrative Physiology
KUMC
*Microvascular Acclimatization to Systemic Hypoxia*

April

April 3 - Erik J. Plautz, Ph.D.
Molecular & Integrative Physiology
KUMC
*Functional Plasticity and Therapeutic Interventions Following Cortical Injury*
April 10 - Jack D. Keene, Ph.D.
Center for RNA Biology and
Duke Comprehensive Cancer Center
Duke University
*Regulation of Gene Expression by Eukaryotic RNA Operons*

April 17 - Michael W. Wolfe, Ph.D.
Molecular & Integrative Physiology
KUMC
*Egr1 - A Critical Player Within the Reproductive Axis*

April 24 - Thomas A. Pressley, Ph.D.
Department of Physiology
Texas Tech University Health Sciences Center
*Structural and Regulatory Diversity in the Na,K-Pump*

May

May 1 - Irina V. Smirnova, Ph.D.
Department of Physical Therapy & Rehabilitation Science
KUMC
*Unraveling the Molecular Mechanisms of Exercise Benefits in the Diabetic Heart*

May 17 - **Thesis Defense**
Ann M. Stowe
Molecular & Integrative Physiology
KUMC
*Early Molecular Events in Remote Neurons Following and Infarct in Primary Motor Cortex*

May 22 - Peter G. Smith, Ph.D.
Molecular & Integrative Physiology
KUMC
*Two Faces of Estrogen: Why Peripheral Axons Wax and Wane*

June

June 5 - **Thesis Defense**
Teresa A. Orth
M.D./Ph.D. Student
Molecular & Integrative Physiology
KUMC
*Exercise Training Prevents the Inflammatory Response to Hypoxia in Locomotory and Nonlocomotory Skeletal Muscle Venules*