

DEPARTMENT OF BIOLOGICAL SCIENCES & HEALTH SCIENCES
SEMINAR SCHEDULE - SPRING 2008
BROWN HALL ROOM 304
WEDNESDAYS, 4:30 PM (Refreshments 4:15 pm)

Jan 30

David L. Dilcher, Florida Museum of Natural History, University of Florida Basic Steps in Flower Evolution and its Importance for Humans

Feb 6

Grant S. Boardman, Graduate Student, Biological Sciences, Vertebral Morphology in Polymorphs of *Ambystoma tigrinum*: Use of Population Composition in Interpreting Paleoenvironments

Bill Wright, Graduate Student, Health Sciences, Identification of Genes Involved in Schizokinen Transport in *Rhizobium leguminosarum* IARI 917

Feb 13

Chase W. Beck, Graduate Student, Biological Sciences, Fossil Analysis on the Cumberland Plateau: Vegetational History From Archaeological Sites

Fade Gong, Graduate Student, Biological Sciences, Quantitative Reconstruction of Palaeoclimate from the Latest Miocene to Earliest Pliocene Plant Fossil Assemblages at the Gray Fossil Site

Jeremy B. Stout, Graduate Student, Biological Sciences, Skeletal Morphology and Systematics of Late Pliocene *Alligator* sp

Feb 20

Andrea A. Edge, Graduate Student, Biological Sciences, Reproductive Biology of Two Dioecious Shrubs, *Buckleya distichophylla* and *Pyrularia pubera* (Santalaceae)"

Jala Daniel, Graduate Student, Biomedical Sciences, Determining Putative Secondary Product Glucosyltransferase Expression During *Citrus paradisi* Growth and Development

Venkata Mallampalli, Graduate Student, Biological Sciences, Heterologous Expression and Elucidation of Biochemical Function of Two Putative Flavonoid Glucosyltransferase Clones (PGT2 and PGT3) from *Citrus paradisi*

Feb 27

Kevin M. Potter, Department of Forestry and Environmental Sciences, North Carolina State University, USDA-FS Forest Health Monitoring Program, Population Genetics and Gene Conservation of Southern Appalachian Hemlocks and Firs

Mar 12

C. Neal Stewart, Jr, Department of Plant Sciences, University of Tennessee, Knoxville, Weed Wars: Transgenic vs Evolved Resistance

Mar 19

Patricia J. Cross, Graduate Student, Health Sciences, Ca²⁺-selective Cation Channels and Breast Cancer: Finding a Common Link

Lok Raj Pokhrel, Graduate Student, Biological Sciences, Mapping the Skin Pattern of Spotted Salamanders, *Ambystoma maculatum*

Hope Sheets, Graduate Student, Biological Sciences, Mio-Pliocene Anurans From the Gray Fossil Site, Washington County, TN, and Pipe Creek Sinkhole, Grant County, IN

Mar 26

Dale Ledford, Graduate Student, Biological Sciences, Tracking Summer Movements and Home Range Fidelity of the Spotted Salamander *Ambystoma maculatum*

Beth Presswood, Graduate Student, Health Sciences, Siderophores in Methicillin-Resistant *Staphylococcus aureus*

Byron N. Van Nest, Graduate Student, Biological Sciences, Persistent and Retentive Foraging Strategies in a Honeybee Colony

Apr 2

Raymond Rogers, Geology Department, Macalester College, Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem

Apr 9

Jennifer N. Johnson, Graduate Student, Biological Sciences, Temporal Behavioral Patterns in the Honeybee Queen

Ashley Mathieson, Graduate Student, Biological Sciences, Timing of Expression and Localization of Calbindin in the Uterus: A Comparison of Viviparous and Oviparous Lizards

Josh Rudd, Graduate Student, Biological Sciences, Phylogeographic Structure of Yonahlossee Salamander Populations in East Tennessee

Apr 16

Sam Boyd, Graduate Student, Biological Sciences, An Investigation Into the Nectar Rhythm in Squash Plants (*Cucurbita pepo*): Its Affect on Honey bee (*Apis mellifera*) Foraging Behavior

Alexander Eddo, Graduate Student, Biological Sciences, Characterization of the Pathway Leading to the Synthesis of Salicylic Acid in Plants Resisting Pathogen Infection

Ken McDonald, Graduate Student, Biological Sciences, Phenotype and Gene Expression Response to Selection in *Drosophila melanogaster*

Apr 23

Jordan Baker, Graduate Student, Biological Sciences, A Seed Morphology-Based Phylogenetic Analysis of Species Relationships in Hemlock, Genus *Tsuga* (Pinaceae)

Katie Brown, Graduate Student, Biological Sciences, Cytotoxic Effects of Ruthenium Compounds on Human Cancer Cell Lines

David Hammond, Graduate Student, Health Sciences, Initial Identification of the Genes Involved in the Biosynthesis and Transport of Schizokinen, a Dihydroxamate Type Siderophore Produced by *Rhizobium leguminosarum* IARI 917

DEPARTMENTS OF BIOLOGICAL SCIENCES & HEALTH SCIENCES
SEMINAR SCHEDULE - FALL 2007
BROWN HALL ROOM 304
WEDNESDAYS, 4:30 PM (Refreshments 4:15 pm)

Sept 19

Yuri I. Wolf, National Center for Biotechnology Information/National Library of Medicine/National Institutes of Health
Interpandemic Evolution of Influenza A Virus

Sept 26

Feng C. Chen, Department of Plant Sciences, University of Tennessee, Knoxville
Metabolic, Genomic, and Biochemical Analyses Identify Novel Genes Involved in Attracting Natural Enemies of Rice Herbivores

Oct 3

Jae Park, Department of Biochemistry & Cellular and Molecular Biology, University of Tennessee, Knoxville
Neuropeptides: Sex and Death

Oct 10

Terry E. Lancaster, Department of Health Sciences, ETSU
Walking with the Whales: My Search for Body Mass in the Eocene Cetaceans

Oct 17

Katrina Schweiker, Department of Biochemistry & Molecular Biology, Pennsylvania State University, College of Medicine
Engineering Proteins for Enhanced Stability: Optimization of Surface Charge-Charge Interactions

Oct 24

Jianhua Li, Harvard University Herbaria
Maple Phylogeny and Biogeography: Implications for Eastern Asian - North American Disjunction

Oct 31

Sanjay K. Shukla, Molecular Microbiology Laboratory, Marshfield Clinic Research Foundation
Community-Associated Methicillin Resistant *Staphylococcus aureus*: Changing Epidemiology and Genomics

Nov 7

Antonio E. Rusiñol, Biochemistry and Molecular Biology, James H. Quillen College of Medicine
Protein Prenylation: Molecular Mechanisms and Functional Consequences

Nov 14

Michele Glass, Graduate Student, Biological Sciences
Evidence of Ecological Speciation in *Phacelia*
Caleb Paquette, Graduate Student, Biological Sciences
Ontogeny of Aggressive Behavior in Flesh Flies (*Sarcophaga crassipalpis*)

Nov 28

Puja Karki, Graduate Student, Biological Sciences
Cloning and Identifying the Candidate Genes and Determining the Temporal Expression of the Diapause- Regulated Genes from the Flesh Fly, *Sarcophaga crassipalpis*

Bonnie Parks, Graduate Student, Biological Sciences
Construction of a Science Curriculum for the Natural History Museum