

## Student Research 2004-05

### Sponsored by Programs at Rhodes

- Jonathan Berger '05.** *Bamboo Energetics.* Memphis Zoo and Bio. 451 with Dr. Alan Jaslow
- Christie Champion '07.** *Pawpaw (Asimina triloba) of Overton Park: how old are they and how fast do they move?* Bio. 452 with Dr. David Kesler
- Aaron Creek '07.** *Reducing the expression of neuronal interleukin-16 in cultured hippocampal neurons using small-interfering RNA.* Bio. 451 & 452 with Dr. Cate Fenster.
- Jessica Devitt '06.** *The role of IL-16 in long term potentiation of the mouse hippocampus.* Bio 451 & 452 with Dr. Jay Blundon.
- Moss Driscoll '05.** *Internal digesta mixing in the giant panda.* Memphis Zoo and Bio. 452 with Dr. Alan Jaslow
- Emily Furlow '05.** *Research on genetics and tumor cell biology.* Bio. 452 with Dr. Linda Hendershot at St. Jude Children's Research Hospital.
- Lauren Fay '05.** *Cloning and characterization of GDP-mannosyl transferase genes in Aspergillus nidulans.* Bio. 452 with Drs. Hill, Loprete, and Jackson-Hayes.
- Valerie Hartman '06.** *The role of light and oxygen in controlling phantom midge (Chaoborus) migration.* Bio 452 with Dr. David Kesler
- Jennifer Herrold '05.** *Social behavior in bonobos.* Bio 452 with Dr. Tony Becker.
- Hennessy Howell '05.** *Determination of calcium content using atomic absorption spectroscopy in osmotically stimulated pea roots.* Bio. 451 with Dr. Chuck Stinemetz.
- Monica Huerta '07.** *Mechanisms of group B streptococcus-induced epithelial cell injury.* St. Jude Mentor: Dr. Elizabeth Adderson of St. Jude Children's Research Hospital & Dr. Gary Lindquester
- Nauzanene Jafarifard-Veyjoyeh '07.** *Immunohistology of vessel walls.* Bio 452 with Dr. K.U. Malik, at the University of Tennessee and Dr. C. Jaslow.
- Katie Jameson '05.** *High copy suppression analysis of mis-localized G1 cyclin Cln3 in S. cerevisiae.* Research Assistantship with Dr. Mary Miller
- Daniel Keedy '06.** *Isolation of genes governing wall integrity spore swelling in a mutant of Aspergillus nidulans.* Bio. 452 with Drs. Hill and Loprete.
- Justin Marlar '06.** *Protein Binding to MDM2 Splice Variants A and B: Possible Effects on Tumorigenesis.* Bio 451 & 452 with Dr. Linda Harris of St. Jude Children's Research Hospital and Dr. Mary Miller.



- Sinifunanya Nwaobi '07.** *Reducing the expression of neuronal interleukin-16 in cultured hippocampal neurons using small-interfering RNA.* Bio. 451 & 452 with Dr. Cate Fenster
- Bradley Petkovich '06.** *The role of neuronal interleukin-16 in regulating acquisition and retention of motor skills in mice.* Bio. 451 & 452 with Dr. Cate Fenster.
- Caroline Sartain '07.** *Characterization of a glycosylated membrane protein affecting cell wall integrity in *Aspergillus nidulans*.* Bio. 452 with Drs. Hill and Loprete.
- Desiree Steimer '05.** *Generation of a recombinant murine herpesvirus containing the Epstein-Barr virus interleukin 10 gene.* Bio. 452 with Dr. Gary Lindquester.
- Mark Stratton '06.** *The role of light and oxygen in controlling phantom midge (*Chaoborus*) migration.* Bio 452 with Dr. David Kesler
- Stanley Vance '05.** *Cloning and characterization of a multi-pass membrane protein affecting cell wall integrity in *Aspergillus nidulans*.* Chem. 452 with Drs. Hill and Loprete.
- Joe Vaughan '05.** *Research in nutritional additives during the rearing of endangered amphibians.* Memphis Zoo and Bio 451 with Dr. Alan Jaslow
- Joe Vaughan '05.** *Development of a giant panda fecal pH protocol.* Memphis Zoo and Bio 451 with Dr. Alan Jaslow.
- Joe Vaughan '05 and Taylor Brown '07.** *Analysis of linkage between cell wall integrity and spore swelling in several mutants of *Aspergillus nidulans*.* Bio 452 with Drs. Hill and Loprete.
- Carolyn Westfall '05.** *Live cell imaging of G1 Cyclin localization in *S. Cerevisiae*.* Bio. 451&452 with Dr. Mary Miller
- Melanie Woods '05.** *Courtship behavior in the reticulated giraffe.* Bio. 451 with Dr. Tony Becker.