



Please send submissions to: Katie Gallagher at galla134@msu.edu or 302B Biochemistry (mailbox on 2nd floor)

Vol.39, No. 24, June 12-16, 2006

Calendar

Monday, June 12

Tuesday, June 13

Microbiology and Molecular Genetics Seminar: Advances in structural immunoinformatics. Dr. Victor Tong Joo Chuan, University of Singapore. 12:00 Noon, 1425 Biomedical & Physical Sciences.

Wednesday, June 14

Chemistry Seminar: Trans-effect and direction of photoisomerization of d6-octahedral complexes. Alexei Iretski, Lake Superior State University, 3:00 p.m., 136 Chemistry.

College of Veterinary Medicine and National Food Safety and Toxicology Center Seminar: Riding the wave: health, agriculture and globalization. Kevin Walker, 2006 Robert Leader Endowed Lecture Series Guest Lecturer, 4:00 p.m., University Club.

Thursday, June 15

Friday, June 16

Transcription Journal Club: No meeting this week.

Announcements

BMB 961-001 Concepts in Protein Structure Analysis and Modeling will be offered this fall and will be taught every other fall semester. General information for the course is given below. For more information and permission to enroll in this course, please e-mail Kaillathe (Pappan) Padmanabhan at padmanab@msu.edu.

Biochemistry & Molecular Biology 961, Section 1, 2 credits, Fall 2006
Concepts in Protein Structure Analysis and Modeling

Participating Faculty: Dr. Michael Feig, Dr. Michael Garavito, Dr. Robert Halgren, Dr. Leslie Kuhn, Dr. Kaillathe (Pappan) Padmanabhan, Dr. Honggao Yan, and Dr. Bill Wedemeyer

Coordinator: Dr. Kaillathe (Pappan) Padmanabhan

Description: This is a hands-on course dealing with several aspects of protein structure analysis and modeling. We will go through UNIX basics, databases of three-dimensional structures of small molecules and proteins, and some of the most commonly used graphics software packages for visualizing and manipulating macromolecule structures. We will also learn the basics of BLAST and multiple sequence alignment and move on to methods of three-dimensional structure determination using X-ray diffraction and NMR and learn to analyze some of the structures determined by these methods. Finally for a protein sequence with unknown structure, the secondary structure will be predicted, and a three-dimensional homology model of the protein will be built and analyzed using some of the tools available on the Web with an emphasis on identifying structure-function relationships. The Accelrys suite of InsightII software package for analysis and modeling of protein structures will also be introduced. Lectures will cover the theory and demonstrate the computer methods used; lab hours will provide hands-on experience.

Position Vacancy Notice

A **Research Assistant Professor** position is available in the Department of Biochemistry and Molecular Biology at **Louisiana State University Health Sciences Center - Shreveport**. The Feist-Weiller Cancer Center (FWCC) seeks a research-track faculty member with broad expertise in mass spectrometry and proteomics research. The successful candidate will have laboratory and office space in the Research Core Facility (RCF) and will be expected to operate the mass spectrometry component of the RCF. Applicants should have a doctoral degree, postdoctoral research experience in mass spectrometry and/or proteomics, and a commitment to excellence in research. For more information on the position and how to apply, please visit the FWCC and departmental websites at <http://www.fwcconline.org/> and <http://www.shrevebiochem.com>. Review of applications will begin in June 2006, with interviews to be held in July 2006.

Spotlight



Jaroslaw Blaszczyk, Research Assistant Professor, is currently researching in Honggao Yan's lab. He has been with Yan's group for two years, however, he was a long-time collaborator of Yan's lab when he was Research Fellow at the National Cancer Institute. He is currently conducting a crystallographic study of DHNA, a dihydroneopterin aldolase, and structural mutagenesis of HPPK, a 6-hydroxymethyl-7, 8-dihydropterin pyrophospholase.

Jaroslaw is originally from Lodz, Poland. He enjoys the Michigan weather and hiking. He moved from Maryland where he spent his free time hiking the beautiful Virginia Shenandoah National Park, or driving along the coast of the Atlantic Ocean and Chesapeake Bay. He enjoys watching movies, particularly old westerns such as High Noon or Mackenna's Gold. Jaroslaw also enjoys a wide variety of music from classical artists Grieg, Schubert, Mozart and Strauss to 80's Italo Disco Style music.

Quote for the Week

And in the end, it's not the years in your life that count. It's the life in your years. *—Abraham Lincoln*
