

The third in an annual series of symposia sponsored by the Nebraska Center for Cell Biology, Creighton University School of Medicine, the National Science Foundation, and Nebraska EPSCoR, featuring national and local speakers. The symposia are designed to bring the latest in modern optical, imaging and other biophysical techniques to Nebraska life scientists and students and to highlight original research by Nebraska researchers.

Microscopy and other vendors will be present. Exhibits open at 8:00 a.m.

The Symposium will run from 9.00 a.m. to about 3:15 p.m. Lunch will be available on-site.

The N.C.C.B. multi-photon confocal microscope will be available for viewing after the symposium. Bring your own specimens!

Open to faculty and students from Nebraska and the region.

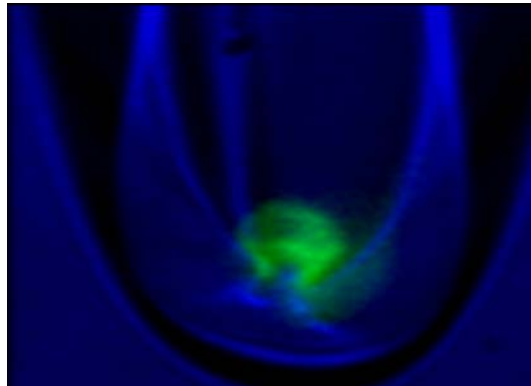
Web site:

www.biomedsci.creighton.edu/2006symposium

Registration Information

Pre-registration is free on-line. Register at the symposium web site or by email to the organizer.

On-site registration is \$5 for faculty, free for students.



Speakers and Topics

PATCH FLUORIMETRY: WATCHING ION CHANNEL MOTIONS UNDER FLUORESCENT LIGHT

Jie Zheng, Department of Physiology and Membrane Biology, University of California at Davis School of Medicine, Davis, California

MULTI-PHOTON METABOLIC IMAGING AND ITS APPLICATION

LeAnn Tiede, Department of Physics and Nebraska Center for Cell Biology, Creighton University, Omaha, Nebraska

TOTAL INTERNAL REFLECTION FLUORESCENCE MICROSCOPY (TIRFM): IMAGING NEAR-MEMBRANE CELL DYNAMICS

Angelo Demuro, Department of Neurobiology & Behavior, University of California, Irvine, California

STRUCTURE, INTERACTIONS AND DYNAMICS OF SYNAPTIC DNA-PROTEIN COMPLEXES

Yuri Lyubchenko, Department of Pharmaceutical Sciences, University of Nebraska Medical Center, Omaha, Nebraska

IMAGING APPROACHES TO STUDY CNS PLASTICITY, INJURY, AND DEGENERATION IN THE LIVING MOUSE

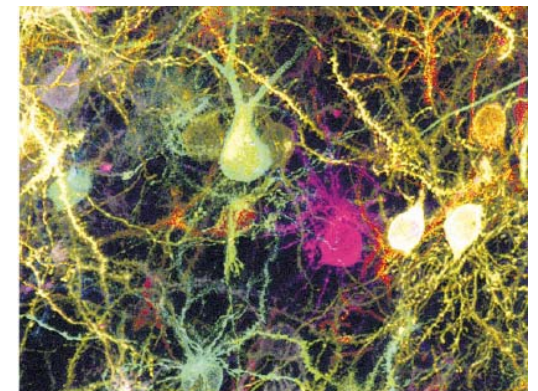
Jaime Grutzendler, Departments of Neurology and Physiology, Northwestern University School of Medicine, Chicago, Illinois

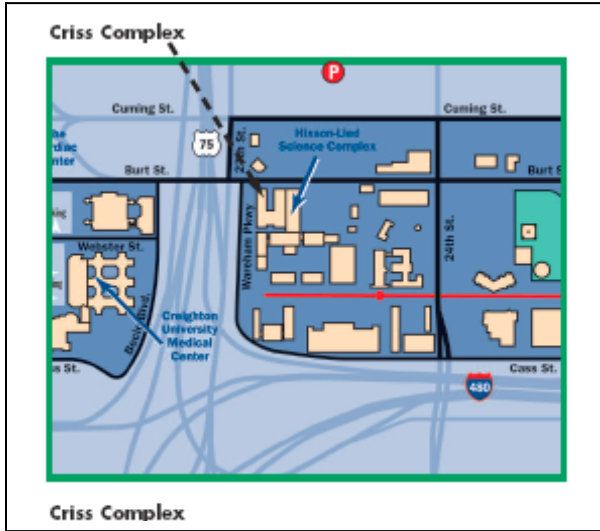
SINGLE MOLECULE STUDIES OF MOTOR PROTEINS, IN VITRO AND IN VIVO

Erdal Toprak, Department of Physics & Biophysics, University of Illinois – Urbana, Illinois

USE OF FLIM-FRET TO STUDY INTERMOLECULAR ASSOCIATIONS

Richard Hallworth, Department of Biomedical Sciences and Nebraska Center for Cell Biology, Creighton University, Omaha, Nebraska





Directions to Creighton University

Symposium Location

Criss II, Room 452

Enter via Criss Building or the Hixson-Lied Science Building

Organization

Richard Hallworth
Department of Biomedical Sciences
Creighton University
2500 California Plaza
Omaha, Nebraska 68178

Phone: 402 280-3057

FAX: 402 280-2690

Email: hallw@creighton.edu

Creighton
 UNIVERSITY
 Medical Center

Frontiers in Imaging Technologies
 for Cell Biology and Neuroscience
 Department of Biomedical Sciences
 Creighton University
 2500 California Plaza
 Omaha, NE 68178



Creighton University School
 of Medicine

Nebraska Center For Cell
 Biology

**Frontiers in
 Imaging
 Technologies for
 Cell Biology and
 Neuroscience**

Sponsored by:

- Creighton University School of Medicine
- National Science Foundation Nebraska EPSCoR
- Li-Cor
- Hirschfeld Instruments
- North Central Instruments

Saturday, October 28th, 2006
Creighton University
Omaha, Nebraska