

Advanced Imaging Methods in Cell Biology and Neuroscience

Friday, April 30th, 2010
Creighton University, Omaha, Nebraska



8.30 a.m. *Coffee, light snacks.*

9.00 a.m.: *Welcomes.* **Thomas Murray**, Associate Dean for Research, Creighton University School of Medicine; **Richard Hallworth**, Symposium organizer.

9.05 a.m.: **Single Molecule Studies of Protein Function.** **Ashok Deniz**, Department of Molecular Biology, Scripps Research Institute.

9.40 a.m.: **Real-Time Single Molecule Fluorescence Imaging of Natural and Engineered Nucleic Acid-Protein Nanomachines** **Nils G. Walter**, Department of Chemistry, University of Michigan.

10.15 a.m.: *Coffee break, view the exhibits.*

10.45 a.m.: **Single Molecule Studies of DNA Structure and Function.** **Yuri .Lyubchenko**, Department of Pharmaceutical Sciences, University of Nebraska Medical Center.

11.20 a.m.: **Molecular Studies of the Motor Protein Prestin.** **Richard Hallworth**, Department of Biomedical Sciences, Creighton University School of Medicine.

12.00 noon: *Lunch break, view the exhibits, special presentations.*

12.05 p.m.: **New Advances in Automated Microscopy: PerkinElmer's Comprehensive Solution to Cellular Imaging and Analysis.** **Aaron Risinger**, Application Scientist, PerkinElmer.

12.30 p.m.: **High Content Imaging: Taking Cell Analysis to Multiple Dimensions.** **Ting Qian**, Technical Applications Specialist, BD Cell Analysis.

12.55 p.m.: **Can Your Cells Do This? New Basics, Bells and Whistles for Imaging Research from Molecular Probes.** Daniel Beacham, Senior Staff Scientist, Research & Development, Life Technologies/Molecular Probes.

1.30 p.m.: **Intracellular Coenzymes as Natural Biomarkers for Metabolism and Mitochondrial Anomalies.** **Ahmed Heikal**, Department of Chemistry and Biochemistry, University of Minnesota-Duluth.

2.05 p.m.: **Use of Two-Photon Microscopy to Image Bacterial Infections in the Central Nervous System.** **Tammy L. Kelian**, Department of Pathology and Microbiology, University of Nebraska Medical Center.

2.40 p.m.: *Break, view the exhibits.*

2.55 p.m.: **Micro-Optics for In-Vivo Multiphoton Microscopy.** **Michael J. Levene**, Department of Biomedical Engineering, Yale University.

3.30 p.m.: **Identification of Intracellular NADH Pools by Two-Photon Fluorescence Lifetime Imaging.** **Michael G. Nichols**, Department of Physics, Creighton University.

4.00 p.m.: *Questions, final words.*