

Interdisciplinary Research Seminar Series, 2006-2007  
 Sponsored by the Institute for Biophysical Dynamics  
 Gordon Center for Integrative Research, W301, 12-1:00 pm

2006

- Oct 2 **Calin Guet** Ph.D. (Yen Fellow, Institute for Biophysical Dynamics, UChicago) "Promoter-Encoded Logic in Bacteria"
- 9 **Dennis Dougherty** Ph.D. (CalTech) "Chemical-Scale Studies of Neuroreceptors and Ion Channels"
- 16 **\*Luis Cuello** Ph.D. (Perozo Lab, UChicago) "Molecular basis of the conformational coupling between K<sup>+</sup> channel activation and inactivation gates"
- 23 **Violeta Marin** Ph.D. & **Steve Patrie** Ph.D. (Mrksich Group, Department of Chemistry, UChicago, "Label-Free Detection of Protein-Protein Interactions: from Systems Biology to Clinical Diagnostics"
- 30 **Cory Gerdts** (UChicago, Ismagilov Lab), "Protein Crystallization in Plug-Based Microfluidics"
- Nov 6 **Murugappan Muthukumar** Ph.D (UMass, Amherst) "Menagerie of Viruses: Diverse Chemical Sequences or Simple Electrostatics"
- 13 **\*Hernando Sosa** Ph.D (Albert Einstein College of Medicine) "Structure and dynamics of kinesins on microtubules"
- 20 **\*Satinder Singh** Ph.D. (Vollum Institute, Oregon Health and Science University, Portland, OR) "Insights into Na<sup>+</sup>/Cl<sup>-</sup> dependent neurotransmitter transporters from structure/function studies of a bacterial homologue"
- 27 **Sui Huang** M.D.,Ph.D. (Harvard Medical School) "Dynamics of Fate Decisions in Mammalian Cells"

2007

- Jan 8 **+Tony Maggs, Ph.D., (ESPCI)** "Simulating the Ether: Local Monte Carlo algorithms for electrostatics"
- 16 **Haw Yang** Ph.D. (UC Berkeley) "Visualizing Enzyme Structure-Function Dynamics and a New Method to do Spectroscopy on a Single Nanoparticle Freely Moving in 3D"
- 18 **+David R. Nelson** Ph.D., (Physics, Harvard University) "Neutral Mutations and Gene Surfing in Microorganisms"
- 23 **\*Robert Best** Ph. D. (Chem Physics, NIDDK, NIH) "Insights into protein folding from single molecule experiment and molecular simulations"
- 30 **Dorothy Erie** Ph.D. (Chemistry, UNC) "AFM and Single-Molecule Fluorescence Studies of MutS-DNA Interactions Reveal the Mechanism of Mismatch Recognition"
- Feb 6 **Tong Zhao** Ph.D. (Dinner Lab, UChicago) "Integrin trafficking promotes focal adhesion localization"
- 20 **Steve White** Ph.D. (UCIrvine) "Folding Proteins at Membrane Interfaces."
- 27 **\*Min-Yi Shen** Ph.D. (UCSF) "Statistical potentials for comparative modeling and structural genomics"
- Apr 3 **Ken Prehoda** Ph.D. (U Oregon) "Signaling mechanisms that link cortical polarity and spindle orientation in asymmetrically dividing stem cells"
- 10 **\*Joao Cabral** Ph.D. (Yale) "Regulation of ion transport"
- 17 **James Barber**, Ph.D. (Imperial College, London) "The Discovery of a New Type of Photosynthetic Light Harvesting System" (Note special location: BSLC109)
- 24 **\*\* ^Alla Karpova**. Ph.D. (JFRC) "DeMISTifying the brain: dissecting the function of complex neural circuits"
- May 1 **\*Claudio Grosman** Ph.D. (UIUC) "Acid-base Chemistry and the Structure and Electrostatics of the Nicotinic-receptor Ion-channel Pore"
- 8 **\*Michael Sanguinetti**, Ph.D, (Utah) "Molecular Determinants of Cardiac K Channel Block"
- 15 **Erin Adams** Ph.D. (BMB, UChicago) "How does the immune system discriminate self vs. non-self? Molecular studies of immune receptor rules of engagement"
- 22 **Michel M. Maharbiz**, Ph.D. (EECS, Michigan) "Can we hack morphogenesis? Integrated Microsystems for Interfacing With the Developing Organism"
- 30 **Carolyn Bertozzi**, Ph.D. (UCBerkeley, Seitz Lecturer) "Chemistry in Living Systems: Shedding Light on Glycans" (Note special location: BSLC109)

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