

**Interdisciplinary Research Seminar Series, 2007-2008**  
**Sponsored by the Institute for Biophysical Dynamics**  
 Gordon Center for Integrative Research, W301/303, 12-1:00 pm

Autumn, 2007

Oct 2 \*Sean Eddy, Ph.D., Janelia Farms Research Campus, Howard Hughes Medical Institute,  
 "Computational genomics of structural RNAs"

30 Shelli Frey, Department of Chemistry, Wabash College and University of Chicago,  
 "Ganglioside induced condensation of cell membrane structure"

Nov 6 Jeffrey Friedman, Ph.D., Howard Hughes Medical Institute, Rockefeller University,  
 "Leptin, Behavior and Metabolism: Balancing the Energy Equation In vivo"

20 Emina Stojkovic, Ph.D., Department of Biochemistry & Molecular Biology, University of  
 Chicago, "Crystal structure of an unusual bacteriophytochrome reveals residues that modulate  
 photoconversion"

Winter, 2008

22 \*Harald Hess, Ph.D., Janelia Farms Research Campus, Howard Hughes Medical  
 Institute, "Intracellular Fluorescence Imaging at Nanometer Resolution"

23 Jan Skotheim, Rockefeller, Feedback and Modularity in Cell Cycle Control (with JFI)

24 David Biron, Harvard and Brandeis, "Understanding a Small Neural Circuit (Piece by  
 Piece)" (with JFI)

Feb 4 ^Uri Alon Ph.D. Depts. Molecular Cell Biology & Physics of Complex Systems, Weizmann  
 Institute of Science, Evolution, Optimality and Biological Design

5 ^Uri Alon Ph.D. Depts. Molecular Cell Biology & Physics of Complex Systems, Weizmann  
 Institute of Science "Design Principles of Biological Circuits"

6 ^Uri Alon Ph.D. Depts. Molecular Cell Biology & Physics of Complex Systems, Weizmann  
 Institute of Science On the Speed of Evolution

Mar 4 Bertrand Garcia-Moreno, Ph.D., Department of Biophysics, Johns Hopkins University,  
 "The unusual & essential properties of internal ionizable groups in protein"

Spring, 2008

15 Kerwyn Casey Huang, Ph.D., Department of Molecular Biology, Princeton University,  
 "Getting Centered: The Role of Min-Protein Oscillations in Bacterial Cell Division Site Selection"

29 Adrian Elcock, Ph.D., Department of Biochemistry, University of Iowa, "Molecular  
 Simulations of Macromolecular Behavior in Physiological Conditions"

May 6 Larry Helseth, Ph.D., Chicago Biomedical Consortium, Research Resource Center,  
 University of Illinois at Chicago, "CBC/RRC Proteomics & Informatics Services Facility"

20 Chi Wu, Ph.D. Department of Chemistry, The Chinese University of Hong Kong  
 "Viscoelastic effect on aggregation of macromolecules in solutions– a point of view different from  
 thermodynamics"

Jun 4 Frederick Seitz Lecture: John R. Kuriyan, Ph.D., Departments of Molecular & Cell Biology  
 and of Chemistry, Howard Hughes Medical Institute, University of California, Berkeley, "Allosteric  
 Mechanisms in the Regulation of the Ras and the EGF Receptor"

\* co-sponsored with Interdisciplinary Science Training Program

\*\* co-sponsored with Department of Biochemistry

^ co-sponsored with James Franck Institute, Materials Sciences Research and Engineering  
 Center and Computations in Science Series