

**Interdisciplinary Research Seminars**  
**Sponsored by Institute for Biophysical Dynamics**  
**Crerar Library Lower Level Conference Room**  
**12:00 to 1:00**

Autumn, 2003

- Oct 7 Wendy Ryan Gordon, Ph.D (U Chicago, Kent Lab)  
*The protein that wouldn't turn yellow: Adventures in chemical protein synthesis, photophysics, molecular signal transduction, etc.*
- 14 \*Taekjip Ha, Ph.D (Univ. Illinois, Urbana-Champaign)  
*Ribozymes and Helicases: Untangling Structural Dynamics & Function via Single Molecule Spectroscopy*
- 21 Dal-Hee Min (U Chicago Mrksich Lab)  
*SAMs meet MALDI ToF MS: Application of SAMDI to Enzyme Assay*
- 28 \*Carlos Bustamante, Ph.D (U California at Berkeley)  
*Recent Advances in Single Molecule Manipulation in Biophysics*  
 Note special time and place: 3:00 PM,  
 Donnelley Biological Sciences Learning Ctr. Room 109  
 924 E. 57th Street
- Nov 4 Guohui Wu (U Chicago, Lee Lab)  
*The Interaction between Poloxamer 188 and Phospholipid Membrane*
- 11 Kevin Meisner (U Chicago, Sosnick Lab)  
*Which comes first in protein folding -- helix formation or collision?*
- 18 \*Terence Strick, Ph.D (Cold Spring Harbor Lab)  
*Detection and Control of Transcription Initiation at the Single-Molecule Level*

Winter, 2004

- Jan 13 Subha Das, Ph.D. (U Chicago, Piccirilli Lab)  
*Solving the Conundrum of Kinetic Equivalence: Catalytic Strategy of the Delta Virus Ribozyme*
- 20 \*Xiaowei Zhuang, Ph.D. (Harvard)  
*Visualizing cellular entry of single viruses & folding of single enzymes*
- 27 Jason Wyman (U Chicago, Nagel Lab)  
*Microencapsulation of Islets Via Selective Withdrawal to Achieve Immunoisolation*
- Feb 3 \*Neville Kallenbach, Ph.D. (New York University)  
*The Unfolded State of Proteins: Studies on Peptide Models*
- 10 Ben Glick, Ph.D. (U Chicago, Molec. Genet. & Cell Biology)  
*Golgi Biogenesis in Living Color*
- 17 Piers Nash, Ph.D. (U Chicago, Ben May Institute for Cancer Research)  
*Modular Protein Interaction Domains in Signal Transduction*
- 24 \*Aihua Xie, Ph.D. (Oklahoma State University)  
*'See' Proteins in Action Using Infrared Light*
- Mar 2 \*Eytan Domany, Ph.D. (Weizmann Institute)  
*Introduction to Gene Expression Analysis*
- 9 \*Sarah Keller, Ph.D. (U Washington)  
*Spheres that break out in spots:  
 Immiscible phases in membranes of lipids and cholesterol*

Spring, 2004

- Apr 6 \*Lukas Tamm, Ph.D. UVirginia  
*Membrane Dynamics in Supported Bilayers: From Lipid Rafts to Membrane Fusion*
- 13 Jason Ming Zhao Scherer Lab  
*Watching the photocycle of photoactive yellow proteins - one at a time*
- 16 \*Calin Guet Princeton/Rockefeller  
*Combinatorial Synthesis of Genetic Networks*  
(Special day, time and place: Friday, 11:00 in Kent 114)
- 20 \*Steve Boxer, Ph.D. Stanford  
*Electrostatics and Dynamics in Proteins*
- 27 \*Fred Fellouse Genentech  
*Engineering Protein-Binding Surfaces by Using Minimal Sets of Amino Acids*
- 29 \*Eric Kool, Ph.D. Stanford  
*New Molecules and Pathways in DNA Replication*  
THURSDAY, Note: Special Day
- May 4 \*Michael Weiss, Ph.D. Case Western  
*Protein Un-design: Enhancing function by targeted unfolding*
- 11 \*Seminars by Steve Quake, Ph.D., CalTech in  
James Franck Institute (on 5/11 at 4:00) and in the  
Department of Biochemistry and Molecular Biology (on 5/12 at 4:00).  
No Tuesday noontime IBD seminar this week
- 18 Tony Kossiakoff, Ph.D. U. Chicago  
*The role of conformational diversity in molecular recognition*
- 25 \*Eric Brown Princeton University  
*From spikes to speed accuracy via the locus coeruleus*  
Jointly sponsored by the Center for Neural Computation and Engineering  
This seminar will be held in BSLC 205
- June 2 \*Michael Snyder, Ph.D. Yale  
*Global Analysis of Genomes and Proteomes"*  
WEDNESDAY AT 4:00 IN CLSC 101 (Seitz Lecturer)

“\*” = speaker invited from off-campus