

**SHAKH-50 SYMPOSIUM PROGRAM DEC 8, 2007**  
Pfizer Lecture Hall, 12 Oxford St., Cambridge, MA 02138

9:00 - 9:30 a.m.	Coffee/Tea/Registration	Outside of Pfizer Lecture Hall
9:30 -11:20 a.m. Folding and theory	Arup Chakraborty <i>MIT</i> Nikolay Dokolyan <i>UNC Chapel Hill</i> Estelle Pitard <i>CNRS, Montpellier, France</i> Phillip Geissler <i>UC Berkeley</i>	Understanding Adaptive Immunity: A crossroad of the physical and life sciences Dynamics in Computational Protein Engineering  Thermodynamics of histories for models of glassy dynamics  Dynamics of organization, and disorganization, at the nanometer scale
11:20 -1:40 a.m.	Coffee Break	Outside of Pfizer Lecture Hall
11:40 a.m. -1 p.m. Folding and drug design	William Eaton <i>NIH</i> Guido Tiana <i>University of Milano, Italy</i> Jun Shimada, <i>NYU</i> and Alexey Ishchenko, <i>Vitae Pharmaceuticals</i>	Single molecule FRET studies of protein folding  Breaking the toy: folding inhibition of lysozyme  Some Keys to Building Bridges between Theory and Experiment in Drug Discovery
1:00 - 2:00 p.m.	Lunch	Chemistry Department Center, 12 Oxford St., 2 <sup>nd</sup> Floor Mallinckrodt
2:00 - 3:15 p.m. Molecular and cellular biophysics	Eric Deeds <i>Harvard Medical School</i> Leonid Mirny <i>MIT</i> Boris Shakhnovich <i>Harvard University</i>	Coupling signal responses through shared components  Cooperation among transcription factors: united they stand  TATA box is not enough: function and conservation of TBP bound promoters
3:15 - 3:45 p.m.	Coffee Break/Discussions	Outside of Pfizer Lecture Hall
3:45 - 5:30 p.m. Evolution	Edo Kussell <i>NYU</i> Konstantin Zeldovich <i>Harvard University</i> Emmanuel Tannenbaum <i>GeorgiaTech &amp; Ben-Gurion Univ., Israel</i> Igor Berezovsky <i>University of Bergen, Norway</i>	How to tell if a bacterium is sensing (without doing genetics.)  Evolution, protein stability, and bacterial competition assays.  A comparison of various asexual and sexual replication strategies  On the uniqueness of viral proteins.
5:30 - 6:00 p.m.	Closing remarks	