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| 8:30 - 9:15 a.m.   | <b>Registration, Breakfast &amp; Poster Set-Up</b>  | 12:05- 1:35 p.m. | <b>Lunch, Posters</b>   |
| 9:15 - 9:20 a.m.   | <b>Introduction</b><br>Mark Dumont, BSB Cluster Director  | 1:35 – 1:55 p.m. | <b>Alan Grossfield, Ph.D.</b><br>Department of Biochemistry and Biophysics<br><i>Beta-2-Adrenergic Receptor: Insight from Molecular Dynamics Simulation</i>   |
| 9:20 – 9:40 a.m.   | <b>Todd Krauss, Ph.D.</b><br>Department of Chemistry<br><i>Studies of Cytochrome c Unfolding by Fluorescence Resonance Energy Transfer</i>  | 2:00 –2:20 p.m.  | <b>John Gentile</b> (M. King, Advisor)<br>Department of Biochemistry and Biophysics<br><i>Microscale Impinging Flow as a Model for Atherosclerosis</i>  |
| 9:45 – 10:05 a.m.  | <b>Pramodh Seneviratne</b> (A.Smrcka, Advisor)<br>Department of Pharmacology and Physiology<br><i>Direct Binding Evidence for Gβγ Binding Small Molecules by Surface Plasmon Resonance</i>            | 2:25 – 2:45 p.m. | <b>Liz Mathew, Ph.D.</b><br>Department of Biochemistry and Biophysics<br><i>A Fluorescence-Based Approach for Identification of Regions of G Protein Coupled Receptors that Interact with Ligands</i> |
| 10:10 – 10:30 a.m. | <b>Jessica Snyder</b> (J. McGrath, Advisor)<br>Department of Biochemistry and Biophysics<br><i>Porous Nanocrystalline Silicon Membranes: An Enabling Technology for Biological Applications</i>       | 2:45 – 3:15 p.m. | <b>Ice Cream Break</b><br><b>BSB Trio</b>   |
| 10:35 – 10:50 a.m. | <b>Break</b>  | 3:15 – 3:35 p.m. | <b>Prakash Palde</b> (B. Miller, Advisor)<br>Department of Biochemistry and Biophysics<br><i>Synthesis and Binding Characteristics of Ligands Targeting Ribosomal Frameshifting in HIV-1</i>          |
| 10:50 – 11:10 a.m. | <b>Lewis Rothberg, Ph.D.</b><br>Department of Chemistry<br><i>Hybridization Assays Based on Differential Absorption onto Gold Nanoparticles</i>   | 3:40 – 4:25 p.m. | <b>Keynote Speaker</b><br><b>Eaton Lattman, Ph.D.</b><br>Hauptman-Woodward Medical Research Institute<br><i>Single-Molecule X-ray Diffraction</i>   |
| 11:15 – 11:35 a.m. | <b>Min Sun Park</b> (H. Stern, Advisor)<br>Department of Biochemistry and Biophysics<br><i>Prediction of Ligand Binding Affinity on Protein Receptor using Various Protonation States and Docking</i> | 4:30 – 4:35 p.m. | <b>Closing Remarks</b><br>Mark Dumont, BSB Cluster Director   |
| 11:40 – 12:00 p.m. | <b>Ankit Gupta</b> (C. Kielkopf, Advisor)<br>Department of Biochemistry and Biophysics<br><i>Structural Features of 3' Splice Site Recognition by Pre-mRNA Splicing Factors</i>                       | 4:40 – 5:00 p.m. | Planetarium Show  |

**University of Rochester**

**Biophysics and**

**Structural Biology**

**Cluster Retreat**

Organizer: Clara Kielkopf  
Co-organizers: John Gentile  
Dan Letzring

Monday, January 12, 2009  
RMSC Planetarium  
657 East Avenue  
Rochester, New York 14607