

8:30 - 9:00 a.m.	Registration, Breakfast & Poster Set-Up	1:45 – 2:20 p.m.	Dmitri Ermolenko, Ph.D. Department of Biochemistry & Biophysics <i>Structural Dynamics of the Ribosome During Protein Synthesis</i>
9:00 - 9:05 a.m.	Introduction Alan Grossfield, BSCB Retreat Organizer	2:25 – 2:45 p.m.	Wenhua Wang (C. Kielkopf, Advisor) Department of Biochemistry & Biophysics <i>Phosphorylation-Dependent Conformational Changes in a Key Splicing Factor Complex Determined by Small-Angle X-ray Scattering</i>
9:05 – 9:20 a.m.	Paul La Celle, M.D. Department of Pharmacology & Physiology <i>The History of Biophysics in the School of Medicine and Dentistry</i>	2:50 – 3:30 p.m.	Afternoon Break/Poster Session
9:25 – 10:00 a.m.	Blanton Tolbert, Ph.D. (D. Turner '06) Miami University, Oxford, OH Assistant Professor of Chemistry & Biochemistry <i>Probing the Molecular Determinants of HIV Alternative Splicing: NMR and Thermodynamic Studies of UPI/ESS3</i>	3:35 – 3:55 p.m.	Kathy Clark, Ph.D. Department of Biochemistry & Biophysics <i>Improving the Pipeline for Membrane Protein Structure Determination</i>
10:05 – 10:25 a.m.	Paul Black (W. Bernhard, Advisor) Department of Biochemistry & Biophysics <i>A Radiation Chemistry Model for Radiation Damage in X-ray Crystallography</i>	4:00 – 4:20 p.m.	Matthew Seetin (D. Mathews, Advisor) Department of Biochemistry & Biophysics <i>TurboKnot: Rapid Prediction of Conserved RNA Secondary Structures Including Pseudoknots</i>
10:30 – 11:10 a.m.	Morning Break/Poster Session	4:25 – 5:00 p.m.	Nathan T. Ross, Ph.D. (B. Miller '08) Novartis Institutes for BioMedical Research, Inc. Investigator II, High Throughput Biology Developmental & Molecular Pathways <i>Multiple Approaches to Rational Design: Applications in Cancer, Schizophrenia, and Heart Disease</i>
11:15 – 11:35 a.m.	Tod D. Romo, Ph.D. Department of Biochemistry & Biophysics <i>Multiscale Modeling of GPCRs Using Molecular Dynamics and Elastic Network Models</i>	5:05 p.m.	Closing Remarks Mark Dumont, BSCB Program Director
11:40 – 12:25 p.m.	Career Panel Discussion		
12:30 - 1:40 p.m.	Lunch, Tour Art Gallery		

University of Rochester

**Biophysics, Structural and
Computational Biology**

Program Retreat

Dedicated to the Memory of Dr. Leon Miller

Monday, October 11, 2010

Memorial Art Gallery

500 University Avenue

Rochester, New York 14607

Organizers: Alan Grossfield, Ben Miller and Mark Dumont
Student Organizers: Paul Black and Nicholas Leioatts

**The Biophysics Retreat is partially funded by the
Dr. William F. Neuman Educational Endowment**