University of Rochester

Biophysics, Structural and Computational Biology

Program Retreat

Monday, October 10, 2011
Memorial Art Gallery
500 University Avenue
Rochester, New York 14607

Organizers: Alan Grossfield and Dmitri Ermolenko
Student Organizers: Anant Agrawal and Nicholas Leioatts
Staff Organizer: Melissa Vera

The Biophysics Retreat is partially funded by the Dr. William F. Neuman Educational Endowment
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<th>Time</th>
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<th>Speaker/Details</th>
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<td>8:30 – 9:00 a.m.</td>
<td><strong>Registration, Breakfast &amp; Poster Set-Up</strong></td>
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<td>9:00 – 9:05 a.m.</td>
<td><strong>Introduction</strong></td>
<td>Alan Grossfield, BSCB Retreat Organizer</td>
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| 9:10 – 9:30 a.m. | **Jason Salter, Ph.D.**                                             | Department of Biochemistry & Biophysics  
Characterization of the HIV-1 Vif Protein |
| 9:35 – 9:55 a.m. | **Amrita Yadav (B. Miller, Advisor)**                               | Department of Physics & Astronomy  
Aqueous Arrayed Imaging Reflectometry with RNA Microarrays: A Medium Throughput Method to Study RNA-Protein Interaction Kinetics |
| 10:00 – 10:20 a.m. | **Amir Taslimi (M. Dumont, Advisor)**                              | Department of Biochemistry & Biophysics  
Conformational Changes Associated with Activation of the Yeast α-factor Receptor |
| 10:25 – 10:40 a.m. | **Morning Break**                                                   |                                                                                |
| 10:45 – 11:05 a.m. | **James Seckler, Ph.D.**                                           | Department of Biostatistics & Computational Biology  
The Interplay of Structure and Dynamics in the Function of HIV-1 Reverse Transcriptase |
| 11:10 – 12:10 p.m. | **Career Panel Discussion**                                       | Dr. Jack Daiss, Dr. Thomas Gaborski and Dr. Lea Michel |
| 12:10 – 1:30 p.m. | **Lunch, Tour Art Gallery**                                        |                                                                                |
| 1:30 – 2:30 p.m. | **Poster Session**                                                  |                                                                                |
| 2:35 – 2:55 p.m. | **Aleksandar Spasic, Ph.D.**                                       | Department of Biochemistry & Biophysics  
Assessing the Accuracy of Molecular Mechanics Force Fields by Comparison with the Optical Melting Experiments and Nearest Neighbor Parameters |
| 3:00 – 3:20 p.m. | **Anant A. Agrawal (C. Kielkopf, Advisor)**                         | Department of Biochemistry & Biophysics  
Little Giants of Spliceosome Assembly |
| 3:25 – 3:40 p.m. | **Afternoon Break**                                                 |                                                                                |
| 3:45 – 4:05 p.m. | **Prahnesh Akshayalingam Venkataraman (M. Dumont, Advisor)**        | Department of Biochemistry & Biophysics  
Biophysical Approaches, Including Single Molecule Fluorescence, for Studying Folding and Unfolding of a Transmembrane Transporter |
| 4:10 – 4:45 p.m. | **Thomas Gunter, Ph.D.**                                           | Department of Biochemistry & Biophysics  
A History of Biophysics at the University of Rochester |
| 4:50 p.m. | **Closing Remarks**                                                 | Dave Mathews, BSCB Program Director |