



International Symposium on Protein Folding and Dynamics

October 15 – 17, 2012

Program

Monday, October 15, 2012

Time	Speaker
8.00 – 8.45 am	Registration
8.45 - 9.00 am	Welcome
Session 1	
Chair: Madan Rao, NCBS, Bangalore	
9.00 - 9.45 am	From Self-Organization Of Alkane Chains To Protein Folding And Enzyme Kinetics: A Theoretical Perspective Biman Bagchi, IISc, Bangalore
9.45 - 10.30 am	Connecting Sequence To Conformational Properties Of Intrinsically Disordered Proteins: A Charged Relationship Rohit V. Pappu, Washington University, USA
10.30 – 11.00 am	Conformational Excursions Of Intrinsically Disordered Proteins: Chain Collapse And Binding-Induced Folding Samrat Mukhopadhyay, IISER, Mohali, India
11.00 - 11.30 am	Coffee/Tea
Session 2	
Chair: Mrinalini Puranik, IISER, Pune	
11.30 - 12.15 pm	Probing The Polymeric Properties Of Unfolded And Disordered Proteins With Single-Molecule Spectroscopy Ben Schuler, University of Zurich, Switzerland

12.15 – 1.00 pm	Microsecond-Resolved Tracking Of The Unfolded State Of BdpA By A Line Confocal Detection Of Single Molecule Fluorescence Satoshi Takahashi, Tohoku University, Japan
1.00 – 2.00 pm	Lunch
2.00 – 4.00 pm	Posters
4.00 - 4.30 pm	Coffee/Tea
Session 3	
Chair: Srikanth Sastry, TIFR, Hyderabad	
4.30 - 5.15 pm	Simulations Of The Folding Unfolding Of Proteins Under Different Solvent And Confinement Condition Angel E. Garcia, Rensselaer Polytechnic, USA
5.15 – 6.00 pm	Hidden Complexity In The Isomerization Dynamics Of Holliday Junctions Changbong Hyeon, Korea Institute for Advanced Study, Seoul
6.30 – 8.00 pm	Mixer and Dinner
Session 4	
Chair: K.VijayRaghavan, NCBS, Bangalore	
8.00 – 9.00 pm	G N Ramachandran: Looking Back At The Phi-Psi Plot After Half A Century P. Balaram, Indian Institute of Sciences, India

Tuesday, October 16, 2012

Session 5	
Chair: R. Sowdhamini, NCBS, Bangalore	
9.00 - 9.45 am	Mapping Protein Folding On Organismal Fitness Eugene Shakhnovich, Harvard University, USA
9.45 - 10.30 am	Understanding The Folding-Function Tradeoff In The β -Trefol Proteins Shachi Gosavi, National Centre for Biological Sciences, India

10.30 – 11.00 am	The Unique Cysteine Knot Regulates The Pleiotropic Hormone Leptin Ellinor Haglund, The University of California at San Diego, USA
11.00 - 11.30 am	Coffee/Tea
Session 6	
Chair: Ramakrishna Vadrevu, Birla Institute of Technology & Science-Pilani, Hyderabad	
11.30 - 12.15 pm	Functional Consequences Of Intrinsic Disorder In The NF κ B/I κ B α Interaction Elizabeth A. Komives, University of California at San Diego, USA
12.15 – 1.00 pm	Global Dynamics From The Strain Of A Single Hydrogen Bond. Mikael Oliveberg, Stockholm University, Sweden
1.00 – 2.00 pm	Lunch
2.00 – 4.00 pm	Posters
4.00 - 4.30 pm	Coffee/Tea
Session 7	
Chair: Deepak.T.Nair, NCBS, Bangalore	
4.30 - 5.15 pm	Studies Of The Folding And Misfolding Of Multidomain Proteins With Tandem Homologous Repeats Jane Clarke, University of Cambridge, UK
5.15 – 6.00 pm	Beyond Two-State Model Of Protein Folding And Unfolding G. Krishnamoorthy, Tata Institute of Fundamental Research, India
6.00 - 6.30 pm	The Role Of The Conformation And Dynamics Of The Unfolded State On Protein Self-Association Studied At Single Molecule Resolution Krishnananda Chattopadhyay, Indian Institute of Chemical Biology, India
6.30 – 8.00 pm	Mixer and Dinner

Wednesday, October 17, 2012

Session 8	
Chair: M.K. Mathew, NCBS, Bangalore	
9.00 - 9.45 am	Manipulating The Protein Energy Landscape Susan Marqusee, University of California, USA
9.45 - 10.30 am	Single Molecule Mechanics Of Protein Folding And Interaction Matthias Rief, Universität München, Germany
10.30 – 11.00 am	Single-Molecule Studies On The Mechanical Unfolding Pathways Of Large Two-Domain Proteins Sri Rama Koti Ainavarapu, Tata Institute of Fundamental Research, India
11.00 - 11.30 am	Coffee/Tea
Session 9	
Chair: Sandeep Krishna, NCBS, Bangalore	
11.30 - 12.15 pm	Protein Model Discrimination And Structural Analysis Using Mutational Sensitivity Derived From Deep Sequencing Raghavan Varadarajan, Indian Institute of Science, India
12.15 – 1.00 pm	Using Translationally Symmetric Proteins To Dissect Energetics, Cooperativity, And Pathway Selection In Protein Folding Doug Barrick, Johns Hopkins University, USA
1.00 – 2.00 pm	Lunch
Session 10	
Chair: Athi N. Naganathan, IIT, Madras	
2.30 - 3.15 pm	Function Of GroEL Follows The Iterative Annealing Mechanism Devarajan Thirumalai, University of Maryland, USA
3.15 – 4.00 pm	Thermodynamics Barriers And Conformational Stabilities Of Proteins: Perspectives And Predictions From A Simple Statistical Model Athi N. Naganathan, Indian Institute of Technology Madras, India

4.00 - 4.30 pm	Coffee/Tea
Session 11 Chair: Mukund Thattai, NCBS, Bangalore	
4.30 - 5.15 pm	Understanding Protein Folding And Energy Landscape By NMR Ramakrishna V. Hosur, Tata Institute of Fundamental Research, India
5.15 – 6.00 pm	The Folding And Unfolding Of A SH3 Domain Jayant Udgaonkar, National Centre for Biological Sciences, India
6.30 - 8.15 pm	Mixer and Dinner
8.30 pm	<i>Music Concert: Hindustani Vocal by Venkatesh Kumar</i>