The Second International Symposium on Protein Folding and Dynamics

November 05-07, 2014

Program

Wednesday, November 5, 2014

8.00 - 8.50 am	Registration	
8.50 - 9.00 am	Welcome	
	Devarajan Thirumalai, University of Maryland, USA	
Session 1 Chair: Biman Bagchi, Indian Institute of Science, India		
9.00-9.40 am	Hydrodynamic radii and internal friction in end states across the folding equilibrium	
	Abani K Bhuyan, University of Hyderabad, India	
	Topology-dependent internal friction in protein folding	
9.40-10.20 am	Robert Best, National Institutes of Health, USA	
	Searching for transition paths	
10.20-11.00 am	Henri Orland, CEA, France	
11.00 - 11.30 am	Coffee/Tea	
	Session 2	
Chair	: Athi Naganathan, Indian Institute of Technology, Madras, India	
11.20. 12.10 pm	Protein folding transition paths: single molecule experiments, theory and simulations	
11.30 -12.10 pm	William A Eaton, National Institutes of Health, USA	
	Dry molten globular states and the mechanism of solvent denaturation of	
12.10 - 12.40 pm	proteins	
	Santosh Kumar Jha, National Chemical Laboratory, India	
12.40 - 1.00 pm	Characterization of protein unfolding under native-like conditions	
	Pooja Malhotra, National Centre for Biological Sciences, India	
1.00-2.00 pm	Lunch	
2.00 - 4.00 pm	Poster Session	
3.30 - 4.00 pm	Coffee/Tea	

Session 3 Chair: Shachi Gosavi, National Centre for Biological Sciences, India		
4.00 - 4.40 pm	Probing free energy surfaces and conformational motions in fast-folding proteins by single molecule fluorescence Victor Muñoz, CNB, Spain	
4.40 - 5.20 pm	Determinants of fast folding, super slow unfolding and function in the symmetric β-trefoil superfold Elizebeth Meiering, University of Waterloo, Canada	
5.20 – 5:40 pm	Protein and RNA structure prediction by integration of co-evolutionary contact information into molecular simulation Alexander Schug, Karlsruhe Institute for Technology, Germany	
6.30 - 8.00 pm	Mixer and Dinner	

Session 4 Chair: R. Mahalakshmi, IISER Bhopal, India		
9.00-9.40 am	Cooperativity, non-native interactions, desolvation effects and barriers in protein folding	
	Hue-Sun Chan, University of Toronto, Canada	
0.40.10.20	Parallel tuning of activation and repression in disorder- mediated allostery	
9.40-10.20 am	Vincent J Hilser, Johns Hopkins University, USA	
	New sequence motifs that stabilize the cis – conformation of peptidyl – prolyl bonds	
10.20-11.00 am	Gautam Basu, Bose Institute, India	
11.00 - 11.30 am	Coffee/Tea	
Session 5 Chair: ASR Koti, Tata Institute of Fundamental Research, India		
	Manipulating protein stability by modifications	
11.30 -12.10 pm	Yaakov Koby Levy, Weizmann Institute of Science,Israel	
12.1012.10	Thermodynamics of ubiquitin folding	
12.10 - 12.40 pm	Govardhan Reddy, Indian Institute of Science, India	
	Mechanistic insight into surfactant-mediated amyloid induction in diverse classes of proteins: unveiling the role of charge and hydrophobicity of	
12.40 - 1.00 pm	surfactants on amyloid induction	
	Rizwan Hasan Khan, Aligarh Muslim University, India	
1.00 - 2.00 pm	Lunch	
2.00-4.00 pm	Poster Session	
3.30-4.00 pm	Coffee/Tea	

Session 6 Chair: Samrat Mukhopadhyay, IISER, Mohali, India		
4.00-4.40 pm	The problem of protein folding and its relationship to bioscience Kunihiro Kuwajima, CPIS, Japan	
4.40-5.20 pm	José Onuchic, Rice University, USA	
5.20-5.40 pm	Delineating a non-native ensemble of an obligate GroEL substrate Lipi Thukral, Institute of Genomics and Integrative Biology, India	
5.40-6.00 pm	Domain insertion promotes cooperative folding while accommodating function at domain interfaces Hemanth Giri Rao, National Centre for Biological Sciences, India	
6.30-8.00 pm	Mixer and Dinner	

	Seggion 7		
Session 7 Chair: Patrick D'Silva, Indian Institute of Science, India			
9.00-9.40 am	Optimizing protein folding with a parallel processing, iterative annealing machine George Lorimer, University of Maryland, USA		
9.40-10.20 am	Mechanism of the Hsp70 chaperone network in protein disaggregation Bernd Bukau, University of Heidelberg, Germany		
10.20-11.00 am	Some mechanisms for optimizing multi-domain protein folding Amnon Horovitz, Weizmann Institute, Israel		
11.00 - 11.30 am	Coffee/Tea		
Session 8 Chair: Kanchan Garai, Tata Institute of Fundamental Research, India			
11.30 -12.10 pm	NMR investigations of protein folding on the ribosome John Christodoulou, University College London, UK		
12.10 - 12.40 pm	Chemical chaperones and their mechanism of action KausikChakraborty, Institute of Genomics and Integrative Biology, India		
12.40 - 1.00 pm	How chaperone GroEL modulate the folding process of aggregation prone proteins? Tapan K Chaudhuri, Indian Institute of Technology Delhi, India		
1.00 - 2.00 pm	Lunch		
2.00-4.00 pm	Poster Session		
3.30-4.00 pm	Coffee/Tea		
Session 9 Chair: Krishnananda Chattopadhyay, Indian Institute of Chemical Biology, India			
4.00-4.20 pm	Folding-oligomerization of fibritin using all atom simulations Meher Kiran Prakash, J Nehru Centre for Advanced Scientific Research, India		

4.20-4.40 pm	Local stiffness and damping coefficient measurements on a single unfolding protein using small-amplitude atomic force microscopy Shivprasad Patil, IISER Pune, India
4.40 -5.00 pm	Rational stabilization of helix 2 of the prion protein prevents its misfolding Jogender Singh, National Centre for Biological Sciences, India
5.00-5.05 pm	Farewell Jayant Udgaonkar, National Centre for Biological Sciences, India
6.30-8.00 pm	Mixer and Dinner