

Workshop on Protein Structure, Function and Folding

(December 20 - 24, 2010)

Venue: MRC, Auditorium IISc Bangalore

Date	Theme	Timings	Speaker	Topic	
20-12-10	Registration	8:30 AM - 9:30AM			
	Welcome and Opening Remarks	9:45 AM - 10:00 AM	G. Rangarajan and Saraswathi Vishveshwara		
	Inaugural Session	10:00 AM - 11:00 AM	P. Balaram	Inaugural Talk: "Protein Sequence Variability and Enzyme Function: The Example of Triosephosphate Isomerase"	
		11:00 AM - 11:30 AM	Coffee Break		
		11:30 AM - 12:30 PM	M. Vijayan	Evolution of protein structural studies in India – A Personal Perspective	
	Protein Structure, Geometry and Topology	2:00 PM - 3:30 PM	N. Srinivasan	Protein conformation	
		3:45 PM - 5:15 PM	Vijay Natarajan	Geometry and Topology	
Hands on training session 6:00 PM - 8:00 PM K. Sekar – Protein Stereochemistry					
21-12-10	Structure Prediction and Alignment	9:30 AM - 11:00 AM	N. Srinivasan	Structure Prediction	
		11:15 AM - 12:45 PM	Nagasuma Chandra	Binding Site Prediction and Comparison	
		2:00 PM - 3:30 PM	M. R. N. Murthy	Symmetry in protein structures	
		3:45 PM - 5:15 PM	Debnath Pal	Algorithms for protein - protein docking	
Hands on training session 6:00 PM - 8:00 PM Sri Krishna – Protein modeling and fold recognition					
22-12-10	Inferring function from structure	9:30 AM - 11:00 AM	R. Sowdhamini	Inferring Protein function from Structure	
		11:15 AM - 12:45 PM	Saikat Chakrabarti	Structural studies of co-evolved sites in proteins	
		2:00 PM - 3:30 PM	Sri Krishna	Protein fold recognition	
		3:45 PM - 5:15 PM		Open Session	
Hands on training session 6:00 PM - 8:00 PM Debnath Pal – Integrated assessment of protein structure					
23-12-10	Dynamics and Simulation	9:30 AM - 11:00 AM	Prabal Maiti	Numerical Integration and Molecular Simulations	
		11:15 AM - 12:45 PM	B. Jayaram	CASP9 and Beyond: Proteins and Protein – Ligand Complexes through Bhageerath & Sanjeevani	
		2:00 PM - 3:00 PM	Saraswathi Vishveshwara	Graph theory in protein dynamics and function	
		3:15 PM - 4:15 PM	Sankar Ramakrishnan	Membrane protein modelling and simulation	
		4.15 PM – 5.15 PM	Pradipto Bandopadhyay	Modelling Biochemical Reaction mechanisms	
Hands on training session 6:00 PM - 8:00 PM Saikat Chakrabarti – Identification and characterisation of co-evolved sites in protein structures.					
24-12-10	Folding and Optimization	9:30 AM - 11:00 AM	G. K. Ananthasuresh	Optimization in Protein Design	
		11:15 AM - 12:45 PM	Pinakpani Chakrabarti	Statistical Analysis of Protein structures and Protein-Protein Interactions	
		2:00 PM - 3:30 PM	K. V. S. Prasad	Rule based modelling and Grammar	
		3:45 PM - 5:15 PM	Shachi Gosavi	Protein folding kinetics and stability	