

**MINI-SYMPOSIUM ON
"ANALYSIS AND SIMULATION OF BIOMOLECULAR STRUCTURES"**

Date: July 08, 2011

Venue: MRC Auditorium, Materials Research Center, IISc, Bangalore

9:00 to 9:10 am: Inauguration and Welcome address

Session I

9:10 to 9:40 am:

Prof. P. Balaram, Indian Institute of Science, Bangalore

Title: Residue Conservation and Mutational Diversity in Enzyme Sequences

9:40 to 10:10 am:

Prof. Mathew, National Centre for Biological Sciences, Bangalore

Title: The moving parts of a membrane protein: How the K⁺ channel responds to electrical stimuli

10:10 to 10:40 am:

Dr. M. S. Madhusudan, Bioinformatics Institute, Singapore

Title: New biological insights from topologically independent comparisons of protein structures

10:40 to 11:00 am: Tea break

Session II

11:00 to 11:30 am:

Prof. Robert Jernigan, Iowa State University, USA

Title: Entropies for Binding Estimated from Elastic Network Models

11:30 to 12 noon:

Dr. Debasisa Mohanty, National Institute of Immunology, New Delhi

Title: MD simulations for exploring conformational transitions associated with the activation mechanism of Ser/Thr kinases

12 noon to 12: 30 pm:

Prof. Manju Bansal, Indian Institute of Science, Bangalore

Title: In silico analysis of structural properties of genomic DNA sequences and promoter prediction

12:30 to 2:00 pm: Lunch break

Session III

2:00 to 2:30 pm:

Prof. Somdatta Sinha, Centre for Cellular and Molecular Biology, Hyderabad

Title: Visualising and analysing protein structures using graph theory

2:30 to 3:00 pm:

Prof. Jayanth Banavar, Penn State University, USA

Title: Geometry and physics of proteins

3:00 to 3:20 pm: Tea Break

3:20 to 4:00 pm:

Prof. Saraswathi Vishveshwara, Indian Institute of Science, Bangalore

Title: Networking computational biology - Insights into macromolecular structure and function

4:00 to 6:00 pm:

Felicitatation function for Professor Saraswathi Vishveshwara

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