

**NATIONAL SEMINAR ON “Recent Trends in Structural Bioinformatics &
Computational Biology”
September 16-18, 2009**

PROGRAMME

Wednesday, September 16, 2009

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|------------|---|------------|--|
| 9:30 A.M. | - | 10:00 A.M. | Registration |
| 10:00 A.M. | - | 10:40 A.M. | Inaugural Session |
| 10:40 A.M. | - | 11:30 A.M. | Clinical Proteomics
Keynote Address - Prof. K. Dharmalingam
<i>Senior Professor</i>
<i>Department of Genetic Engineering</i>
<i>Madurai Kamaraj University, Madurai.</i> |
| 11:30 A.M. | - | 11:45 A.M. | Tea Break |
| SESSION-I | | | |
| 11:45 A.M. | - | 12:30 P.M. | Structure, Function analysis of Xylanases Stable in Poly-Extreme Conditions
Prof. S. Ramakumar
<i>Department of Physics</i>
<i>Indian Institute of Science (IISc), Bangalore.</i> |
| 12:30 PM | - | 1:15 P.M. | Hydrophobic Forces and Protein Folding
Prof. N. Gautham
<i>Department of Crystallography and Biophysics</i>
<i>University of Madras, Chennai.</i> |
| 1:15 P.M. | - | 2:15 P.M. | Lunch Break |
| SESSION-II | | | |
| 2:15 P.M. | - | 3:00 P.M. | Internet computing for structural bioinformatics
Prof. K. Sekar
<i>Principal Research Scientist, Bioinformatics Centre</i>
<i>Indian Institute of Science (IISc), Bangalore.</i> |
| 3:00 P.M. | - | 3:45 P.M. | Molecular Dynamics Simulation of Lipases
Prof. P. Gautam
<i>Chairman, Faculty of Technology,</i>
<i>Department of Biotechnology</i>
<i>Anna University, Chennai.</i> |
| 3:45 P.M. | - | 4:00 P.M. | Tea Break |

4:00 P.M. - 4:45 P.M. **Pharmacophoric Prediction and Theoretical Screening of HIV-I Integrase Inhibitors**
Dr. Sanjeev Kumar
Department of Bioinformatics
Alagappa University, Karaikudi.

4:45 P.M. - 6:00 P.M. **LAB SESSION**
Molecular Docking using Autodock

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SESSION-III

10:00 A.M. - 11:00 A.M. **Protein crystallography has come of age**
Prof. M.R.N. Murthy
Molecular Biophysics Unit
Indian Institute of Science (IISc), Bangalore.

11:00 A.M. - 11:15 A.M. Tea Break

11:15 A.M. - 12:15 P.M. **Brownian Dynamics Simulation of Proteins**
Dr. V. Subramanian
Scientist EI
Central Leather Research Institute (CLRI)
Chennai.

12:15 P.M. - 1:15 P.M. **Assessment of protein structures**
Prof. M.R.N. Murthy
Molecular Biophysics Unit
Indian Institute of Science (IISc), Bangalore.

1:15 P.M. - 2:15 P.M. Lunch Break

SESSION - IV

2:15 P.M. - 3:15 P.M. **Towards Better Identification of Targets for Diagnostics, Therapeutics and Prognostics: The role of Microarray Technology**
Dr. Kshitish Acharya
Scientist,
Institute of Bioinformatics & Applied Biotechnology
Bangalore

3.15 P.M - 4.15 P.M. **Paper Presentation**

4:15 P.M. - 4:30 P.M. Tea Break

4:30 P.M. - 5:45 P.M. **Frontiers in Structure Based Drug Design**
Mr. Sudheer Karanam
Scientist, VLife, Pune.

5:45 P.M. - 6:30 P.M. **LAB SESSION**
Homology Modeling using Modeller

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Friday, September 18, 2009

SESSION-V

9:45 A.M. - 10:30 A.M. **In silico identification of novel secondary metabolites by genome mining**
Dr. Debasisa Mohanty
Scientist
National Institute of Immunology, New Delhi.

10:30 A.M. - 11:15 A.M.
Dr. T. Madhan Mohan
Adviser, Apex Bioinformatics Centre
Department of Biotechnology
Ministry of Science and Technology
New Delhi.

11:15 A.M. - 11:30 A.M. Tea Break

11:30 A.M. - 12:15 P.M. **Data Resources as Discovery Tools for Systems Biology**
Dr. T. S. Keshava Prasad
Research Scientist, Institute of Bioinformatics
Bangalore.

12:15 PM. - 1:00 P.M. **Allosteric Drugs & Structural Biology**
Dr. S. Shriram
Director, Research Integration,
Evolva Biotech Private Limited, Hyderabad.

1:00 P.M. - 2:00 P.M. Lunch Break

SESSION-VI

2:00 P.M. - 2:45 P.M. **Role of computational biology in analyzing proteomic data**
Mr. Shreeharsha Gowda
Research Scientist,
Institute of Bioinformatics, Bangalore.

2:45 P.M. - 3:30 P.M. Industry - Participant Interaction

3:30 P.M. - 4:15 P.M. Valedictory Session and Certificate distribution
Feedback from participants