

8th Workshop on Bioinformatics and Molecular Modeling in Drug Design

March 15-17, 2018

Venue: Seminar Hall, ACBR, University of Delhi

Detailed Programme

DAY 1 Thursday, March 15, 2018

08:45 – 09:15 a.m. Registration

Session I

09:15 – 09:20 a.m. *Welcome Address and Inauguration*
Prof. Daman Saluja, Director ACBR

09:20 – 10:20 a.m. *Introduction to speakers: Prof. K. Natarajan (Chairperson)*
Dr. Dinesh Gupta, ICGEB, New Delhi;
Inaugural Address

"A novel identification approach for discovery of 5-HydroxyTryptamine 2A antagonists: combination of 2D/3D similarity screening, molecular docking and molecular dynamics"

10:20 – 11:20 a.m. **Dr. Anshu Bharadwaj**, IMTECH, Chandigarh
"Innovative drug---repurposing approaches to identify new anti---tuberculosis candidates"

11.20 – 11.35a.m. High Tea

Session II

11:35 – 12:30 p.m. *Chairperson Dr. K. Natarajan*
Dr. Samrat Chatterjee, THSTI, Haryana
*Studying host-pathogen interaction under the influence of *Mycobacterium tuberculosis* through mathematical models*

12:30 – 01.30 p.m. **Prof. Shandar Ahmad**, SCIS, JNU, New Delhi
"Novel insights into Genomic and Transcriptomic dynamics using multi-scale data driven biology"

01.30 – 2.15 p.m. LUNCH

Session III

02:15 – 03:00 p.m. **Dr. Madhu Chopra**, ACBR
"Basics of Molecular Modeling and Drug Design"

03:00 – 03.45 p.m. *Hands on session -demonstration by Dr. Madhu Chopra*

03.45 – 04.00 p.m. TEA

Session IV

04.00 – 05:00 p.m. Hands –on –Training session on DS4.0

DAY 2 Friday, March 16, 2018

Session I

09:15 – 10:45 a.m.	Prof. Vani Brahmachari & Dr. Ankita Narang , ACBR "Understanding Genomic imprinting through genomics"
10:45 – 11:00 a.m.	TEA
Session II	
11.00 – 12.00 noon	Chairperson, Prof. Vani Brahmachari, ACBR Dr. Debasisa Mohanty , NII, New Delhi "Bioinformatics methods for identification of novel natural products by genome mining"
12.00 – 1.00 p.m.	Dr. Shubhra Chaturvedi , INMAS, Delhi "Application of molecular modeling in the development of radiopharmaceuticals with special emphasis for neuro-tracers"
01:00 – 02:00 p.m.	LUNCH
02:00 – 03:00 p.m.	Dr. Madhu Chopra "Protein Homology Modeling and Structure based drug design" Lecture & Demonstration
03.00 – 03:20 p.m.	TEA
Session III & IV	
03.20 – 04.10 p.m.	"Introduction to Computer Aided Drug design/ <i>Sanjeevini</i> <i>Sanjeevini</i> android application for CADD* (Hands On)" Resource Person: Mr. Abhilash Jayaraj * <i>Sanjeevini</i> android application for CADD (Basics and Hands On) (https://play.google.com/store/apps/details?id=com.sanjeevini&hl=en) Note: Students can download the <i>Sanjeevini</i> application from Google play store.
04.10 – 05.00 p.m.	" <i>Dhanvantari</i> (Genome to Drug suite) for CADD***" Resource Person: Ms. Ruchika Bhat ** <i>Dhanvantari</i> for CADD <i>Dhanvantari</i> (http://www.scfbio-iitd.res.in/software/dhanvantari_new/Home.html) Note: Students are encouraged to browse through the <i>Dhanvantari</i> webpage.
DAY 3	
Saturday, March 17, 2018	
Session I	
09:45 – 10:30 a.m.	Prof. K. Dharmalingam , Arvind Eye Hospital, Madurai
Dr. Vivekanandan Perumal	

	School of Biological Sciences, Indian Institute of Technology, Delhi "A decade of Next Generation Technologies"
10:30 – 11:00 a.m.	TEA
Session II	
11:00 – 12:00noon	Dr. Madhu Chopra "Ligand Based Drug Design Strategies Using Computational Methods"
12.00 – 12.45 p.m.	Dr. Lubna Wasim , ACBR, Currently at AIIMS, New Delhi "Protein-Protein Interaction Networks"
12:45 – 1.30 p.m.	Dr. Uma Chaudhary , BCAS, New Delhi
01:30 – 02:30 p.m.	LUNCH
Session III	
02:30 – 3:30 p.m.	Chairperson, <i>Dr. Balram Pani</i> , Principle, BCAS Prof. Punit Kaur , AIIMS New Delhi, Valedictory Address
03.30 – 04.00 p.m.	Distribution of Certificates and Vote of Thanks
04:00 – 04:30 p.m.	TEA