



Symposium on “Accelerating Biology 2017: Delivering Precision”

January 17-19, 2017

Venue: Yashada Auditorium, Baner Road, Pune

Day 1: January 17, 2017

Time	Title	Speaker
08:00-08:45	Breakfast	
08.30-09.00	Registration	
09:00-10:45	Session I: Inaugural Function	
10:45-11:45	Inauguration of the poster session and Poster Session-I (along with High Tea)	
	Session II: Advances in Computational Biology Session Chair: Shri. Anil Srivastava, OHSL, USA	
11:45-12:15	Analysis of antibody structures towards understanding evolution of specificity	Dr. Dinakar Salunke, ICGEB, New Delhi
12:15-12:45	Role of Statistics in the Era of BIGDATA	Prof. Rajeeva Karandikar, Chennai Mathematical Institute, Chennai
12:45-13:15	Using parallel sequencing of transposon mutant libraries to understand the pathogenesis of <i>Mycobacterium tuberculosis</i>	Prof. Graham Stewart, University of Surrey, UK
13:15-14:15	Lunch Break	
	Session III: Next Generation Sequencing: Disease Implications Session Chair: Prof. Deepti Deobagkar, S.P.Pune University, Pune	
14:15-15:00	Fetal Programming of diabetes and related conditions	Dr. C. S. Yajnik, KEM Hospital, Pune
15:00-15:45	Effect of Surgical Manipulation and Excision on Gene Expression in Breast Cancer	Dr. Sudeep Gupta, TMH, Mumbai
15:45-16:30	Whither data integration in cancer?	Dr. Binay Panda, GANIT LABS, Bengaluru
16:30-16:45	Tea Break	
16:45-17:30	Understanding Information in Biological Systems	Dr. Jan Kim, Pirbright Institute, UK
17:30-18:15	Personal Genomes to Precision Medicine	Dr. Vinod Scaria, IGIB, New Delhi
18:15-18:30	Understanding host parasite interaction in amoebiasis: Gut microbiome and its influence on invasive disease	Dr. Vivek Thakur, ICRISAT, Hyderabad
18:30-18:45	Biotechnology Sector of Gujarat and Government Initiatives	Dr. Jayashankar Das, GSBTM, Gandhinagar
18:45-19:30	Session IV: Poster Session II	
19:30-20:00	Visit to BRAF and PARAM YuvaII	
20:00-21:00	Dinner at C-DAC Rooftop canteen	

Day 2: January 18, 2017

08:00-09:00	Breakfast	
Session V: Simulations: Witnessing rare events Session Chair: Dr. Suman Chakrabarty, NCL, Pune		
09:00-09:45	Mechanism of Drug Resistance and Unhindered Activity of HIV-1 Protease Mutants: Insights from MD Simulations and Network Analysis	Dr. Sanjib Senapati, IIT, Chennai
09:45-10:30	Atomistic simulations on RNA-protein complexes for deciphering structural basis of miRNA biogenesis and target recognition	Prof. Debasisa Mohanty, NII, Delhi
10:30-10:45	Tea Break	
10:45-11:30	Novel method for designing compounds for Multiple targets	Prof. Indira Ghosh, JNU, Delhi
11:30-12:15	Protein collapse and folding	Dr. Govardhan Reddy, IISc, Bengaluru
12:15-13:00	Designing Carbon Nanotubes for Therapeutic Applications using Molecular Dynamics and Density Functional Methods	Prof. Ramesh Deka, Tezpur University, Assam
Session VI: Emerging Challenges in Drug Design Session Chair: Dr. Kalpana Joshi, Sinhgad College, Pune		
13:00-14:00	Lunch	
14:00-14:45	<i>Dhanvantari</i> —An Automated pipeline from Genomes to Hit molecules	Prof. B. Jayaram, IIT, Delhi
14:45-15:30	Ligand Engineering, Design and Selection: Computational and Experimental Strategies	Prof. B. Gopal, IISc, Bengaluru
15:30-16:15	Precision in Prediction – A Quest for the Holy Grail in Drug Design	Dr. Samiron Phukan, Lupin, Pune
16:15-16:30	Tea Break	
16:30-18:15	Session VII: Poster Session III	
18:15-18:45	Presentation by Bioinformatics Group of C-DAC	
18:45-18:50	Announcement of posters selected for oral presentation	
20:00	Dinner at Sayaji Hotel, Pune	

Day 3: January 19, 2017

08:00-09:00	<i>Breakfast</i>	
	Session VIII: <i>BRAF</i> Users: Case Studies Session Chair: Prof. Ameeta Ravi Kumar, IBB, Pune	
09:00-09:45	Developing force field parameters for RNA modifications	Dr. Ansuman Lahiri, University of Calcutta, Kolkata
09:45-10:30	Understanding Intrinsic Disorder in Proteins	Prof. Parbati Biswas, University of Delhi, Delhi
10:30-10:45	<i>Tea Break</i>	
	Session IX: <i>BIGDATA</i> driven Biology Session Chair: Dr. Virendrakumar C. Bhavsar, University of New Brunswick, Canada	
10:45-11:30	Inferring connections among drugs, genes, and diseases using Big Data Analytics	Prof. Saumyadipta Pyne, IIPH, Hyderabad
11:30-12:15	Scalable Processing and Querying over Large Graphs	Dr. Yogesh Simmhan, IISc, Bengaluru
12:15-13:00	High Performance Big Data Computing – Deep Learning Algorithms –Application Perspective	Dr. V.C.V Rao, C-DAC, Bengaluru
13:00-14:00	Lunch Break	
14:00-15:00	Session X: Young Speakers Programme Chairs: Dr.Chetan Gadgil, Dr.V.K.Jayaraman and Dr.Jan Kim	
15:00-16:00	Session XI: Valedictory Session and Poster Awards Dr. L. S. Shashidhara, IISER, Pune Chair: Dr. Rajendra Joshi, Associate Director and HoD, HPC-M&BA Group, C-DAC, Pune	
16:00-16:15	<i>Tea and Goodbye</i>	