



Symposium on “Accelerating Biology 2016: Decoding the Deluge”

January 19-21, 2016

Venue: Yashada Auditorium, Baner Road, Pune

Day 1: January 19, 2016

Time	Title	Speaker
08:00-08:45	Breakfast	
08.00-09.00	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: Emerging Challenges in Computational Biology Session Chair: Prof. Deepti Deobagkar, SP Pune University, Pune	
11:45-12:30	Identifying Drivers in Cancer Genomes: Computational and Statistical Challenges	Prof. Partha Majumder, NIBMG, Kolkata
12:30-13:15	Genome informatics: Challenges in pattern finding using large scale genome analysis	Prof. Alok Bhattacharya, JNU, Delhi
13:15-14:15	Lunch Break	
14:15-15:00	An Big Data HPC Architecture for Personalised Medicine	Prof.R.K.Shyamsundar, IIT, Bombay
	Session III: Computational Genomics and Proteomics: Methods to Applications Session Chair: Dr. Sanjeev Tambe, NCL, Pune	
15:00-15:30	Transmembrane Domain Lengths as Signatures of Organismal Complexity	Dr. Aditya Mittal, IIT Delhi
15.30-16.00	Reproducible Computing in Bioinformatics: Lessons from the Past and Future Perspectives	Dr. Jan Kim, Pirbright Institute, UK
16:00-16:30	Understanding Human Cell Signalling Pathways and Identification of Drug Targets: Application towards	Dr. Ramrup Sarkar, NCL, Pune

	Pharmaceutical Research	
16:30-16:45	Tea Break	
16:45– 17:15	A multi-omics approach for genome assembly and annotation	Dr. Harsha Gowda, IOB, Bangalore
17:15-17:45	Who is triumphant, Biology or Data? A Case Study from Head & Neck Cancer.	Dr. Binay Panda, GANIT Labs, Bangalore
17:45- 19:00	Poster Session II	
19:00 – 20:00 20:00 – 21:00	Visit to BRAF and PARAM YuvaII Dinner at C-DAC Rooftop canteen	

Day 2: January 20, 2016

08:00-09:00	Breakfast	
Session IV: Next Generation Sequencing: Technologies and Analysis Session Chair: Dr.Ameeta Ravi Kumar, SP Pune University, Pune		
09:00- 09:30	Genomic Imperfections: Diagnosing the Causes of Rare Disease	Dr. Ramesh Hariharan, Strand Genomics, Bangalore
09:30- 10:00	Targeted sequencing and Analysis of HNSCC samples	Dr. Ravi Gupta, SciGenome Labs, Bangalore
10:00– 10:30	From Next Generation Sequencing to Systems Biology: the strength of computational approaches	Dr. Kshitish Acharya, Shodhaka Life Sciences, Bangalore
10:30- 10:45	Tea Break	
10:45- 11:15	Genomics of Traditional Medicine	Dr. Malali Gowda, C-CAMP, Bangalore
11:15- 13:00	Poster Session III	

13:00-14:00	<i>Lunch</i>	
Session V: Molecular Simulations and Drug Design Session Chair: Dr.Urmila Kulkarni Kale, SP Pune University, Pune		
14:00-14:30	From Ramachandran maps to tertiary structures of proteins	Prof. B.Jayaram, IIT Delhi
14:30-15:00	Structural Insights into Porphobilinogen Deaminase during Synthesis and Exit of 1-Hydroxymethylbilane: an MD study	Dr. B.Gopalakrishnan, IIIT Hyderabad
15:00-15:30	Role of Entropy & Flexibility of Protein in Docking simulations for Free energy of binding calculations	Prof. Indira Ghosh, JNU, Delhi
15:30-16:00	Acceleration of rare events: A free energy landscape view of Prion misfolding	Dr. Suman Chakravarty, NCL, Pune
16:00-16:15	<i>Tea Break</i>	
16:15-16:45	Ligand based and Structure based computational strategies for design of small molecule inhibitors of PDE4	Dr. Umesh Prasad Singh, IICB, Kolkata
16:45-17:15	RNA Binding To Potential Anticancer And Antibacterial Compounds	Dr. Swapan Jain, Bard College, NY, USA
17:15-17:45	<i>Presentation by Bioinformatics Group of C-DAC</i>	
17:45-19:00	<i>Poster Session IV</i>	
20:00	<i>Dinner at Pancard Clubs</i>	

Day 3: January 21, 2016

08:00-09:00	<i>Breakfast</i>	
Session VI: <i>BRAF</i> Users: Case Studies Session Chair: Dr.Sangeeta Sawant, SP Pune University, Pune		
09:00-09:30	Understanding complex biological processes with computer simulation: Hemoglobin and E. coli cytoplasm	Dr. Pradipta Bandyopadhyay, JNU, Delhi
09:30-10:00	Structure and Pharmacology of the Anaphylatoxin Receptor	Dr. Soumendra Rana, IIT Bhubaneswar
10:00-10:30	Role of ELA region in auto-activation of mutant KIT receptor: an in silico insight	Dr. Rituraj Purohit, IHBT, HP
10:30-10:45	<i>Tea Break</i>	
Session VII: <i>High Performance Computing and BIGDATA Analytics</i> Session Chair: Dr.V.C.V.Rao, C-DAC, Pune		
10:45-11:15	TBR	Prof. Virendra Bhavsar, Canada
11:15-11:45	Seeing Medicine Through the Lens of Big Data	Dr.Anurag Agarwal, IGIB, New Delhi
11:45-12:15	A Data-driven Integrative Approach To Bio-security	Dr.Saumyadipta Pyne, Indian Institute of Public Health, Hyderabad
12:15-12:45	Hardware + Biology implies Accelerated Biology	Mr.Yogindra Abhyankar, C-DAC, Pune
12:45-13:45	Lunch Break	
13:45-15:00	Session VIII: Young Speakers Programme Chairs: Dr.Chetan Gadgil, NCL, Pune and Dr.V.K. Jayaraman, Shiv Nadar University, UP	
15:00-16:00	Session IX: Valedictory Session and Poster Awards Dr.Kishore M. Paknikar, Director, Agharkar Research Institute, Pune Chair: Dr. Rajendra Joshi, Associate Director and HoD, Bioinformatics Group, C-DAC, Pune	



16:00-16:15



Tea and Goodbye

