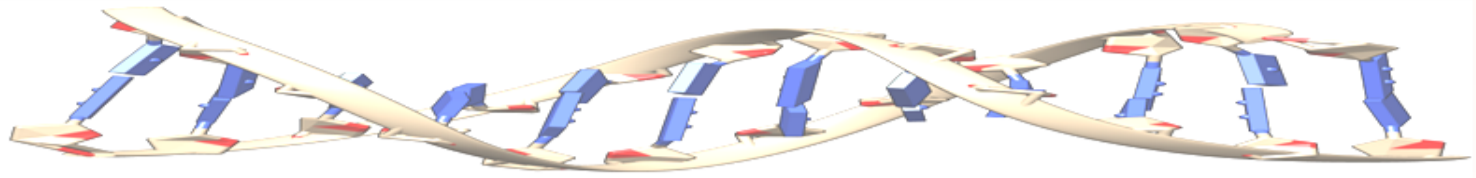




BREAKING BARRIERS THROUGH BIOINFORMATICS & COMPUTATIONAL BIOLOGY



31st July-1st August, 2017
Venue: Seminar Hall, IIT Delhi

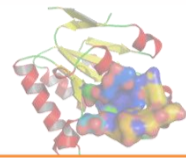
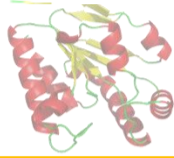
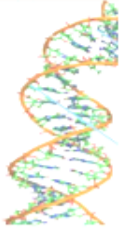


Important dates

Registration starts: 15th May, 2017

Last date for registration: 20th July, 2017

Last date for abstract submission: 15th July, 2017



Aim: The big data in biology is creating an opportunity for both hypothesis and observation driven new science and new technologies. The conference brings together experts both young and senior, from diverse areas to share their vision on emerging dimensions of Bioinformatics and Computational Biology while taking stock of the various softwares, tools and databases developed in the country. The conference will also focus *inter alia* on how to leverage current strengths of the research community to seek answers to some fundamental questions in biology, to generate new technologies and employment opportunities and to identify what it takes the country to become a leading contributor to the field of Bioinformatics & Computational Biology.

SCFBio @ A Glance: The Supercomputing Facility for Bioinformatics and Computational Biology (SCFBio), IIT Delhi was created with funding from the Department of Biotechnology under the guidance of Principal Investigator, Prof. B. Jayaram with a vision to develop novel scientific methods and new softwares for genome analysis, protein structure prediction and *in silico* drug design and for human resource training. The facility was inaugurated by Honourable Minister of Science and Technology and Human Resource Development Shri Murli Manohar Joshi on 31st July, 2002. The facility was converted into a CoE of BTIS network of DBT in Dec., 2013.

Recently *Chemgenome* was able to fingerprint 7.2 million RNA (mRNA, tRNA, rRNA, miRNA etc.) genes encoded in 9282 prokaryotic and eukaryotic genomes based on physico-chemical properties (*Nucl. Acids Res.*, 2016) in a first of its kind. *Bhageerath* is seen to be among the best web-servers globally in generating low-resolution models of protein tertiary structures (http://www.scfbio-iitd.res.in/Bhag+_CASP12.pdf). *Sanjeevini*, a complete drug design software suite, the only freely accessible server, has recently led to nanomolar antimalarials and a publication in *Nature*, 2016. The genome to drug assembly line, *Dhanvantari*, which combines the above three software suites is operational with possible entry at any point along the pipeline (Genome → Gene → Protein → Potential candidate drug molecules).

The facility receives over 20,000 hits per day for its resources from users from more than 30 countries. So far, the facility trained over 840 students through its short-term and long-term training programmes in Bioinformatics and produced 14 PhDs.

Two start-up companies (LeadInvent & Novo Informatics) evolved out of the facility.

List of Speakers

Prof. Alok Bhattacharya, JNU, New Delhi	Prof. P. Gautam, Anna Univ., Chennai
Prof. Arnab Mukherjee, IISER, Pune	Prof. Prasad Bharatam, NIPER, Mohali
Dr. A. R. Rao, IARI, New Delhi	Prof. P. V. Balaji, IITB, Mumbai
Prof. Asad U. Khan, AMU, Aligarh	Prof. P. Biswas, DU, New Delhi
Prof. B. Gopal, IISc., Bengaluru	Prof. P. Satpati, IITG, Guwahti
Dr. Binay Panda, GANIT Labs, Bengaluru	Prof. P. Chakrabarti, Bose Institute, Kolkata
Dr. Debasisa Mohanty, NII, New Delhi	Prof. Pradipta Bandyopadhyay, JNU, New Delhi
Dr. Dinesh Gupta, ICGEB, New Delhi	Dr. Rajendra Joshi, CDAC, Pune
Prof. Deepti D. Deobagkar, Savitribai Phule Pune University, Pune	Prof. R. Bahadur, IITKgp, Kharagpur
Prof. G. P. S. Raghava, IIITD, New Delhi	Prof. Sanjib Senapati, IITM, Chennai
Prof. G. Reddy, IISc., Bengaluru	Prof. Sankara Ramakrishnan, IITK, Kanpur
Dr. Gulshan Wadhwa, DBT, New Delhi	Dr. Suman Malik, CDRI, Lucknow
Prof. Indira Ghosh, JNU, New Delhi	Dr. Sharmila Mande, TCS, Pune
Prof. M. Gromiha, IITM, Chennai	Prof. N. Sowdhamini, NCBS, Bengaluru
Dr. N. Latha, SVC, DU, New Delhi	Dr. Soma Marla, ICAR, New Delhi
Dr. T. Madhan Mohan, DBT, New Delhi	Dr. Uddhvesh Sonawane, CDAC, Pune
Prof. Manju Bansal, IISc., Bengaluru	Prof. Vibha Tandon, JNU, New Delhi

Organizing Committee

- Prof. B. Jayaram, Department of Chemistry, IIT Delhi
- Prof. James Gomes, Kusuma School of Biological Sciences, IIT Delhi
- Prof. Aditya Mittal, Kusuma School of Biological Sciences, IIT Delhi
- Prof. D. Sundar, DBEB, IIT Delhi
- Prof. Hemant Kashyap, Department of Chemistry, IIT Delhi
- Mr. Shashank Shekhar, SCFBio, IIT Delhi

Target Audience : All students, faculty and researchers who are working or have interest in Bioinformatics/Computational Biology/ Drug Design.

How to register: visit <http://www.scfbio-iitd.res.in/conference>

Technical Programme: 9:00AM - 7:00PM, July 31st and Aug. 1st, 2017, comprising oral and poster presentations.

Abstract Submission: All accepted abstracts will be published in the September special issue of Journal of Proteins and Proteomics (NAAS rating 4.5) and abstracts will be provided with a Digital Object Identifier.

Accommodation: Limited accommodation for student participants is available on first come first serve basis at a nominal charge of Rs. 300/day.

Organized by

Supercomputing Facility for Bioinformatics & Computational Biology, IIT Delhi

Under the auspices of Kusuma School of Biological Sciences, IIT Delhi

Email: conference2017@scfbio-iitd.res.in

Website: www.scfbio-iitd.res.in

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