

# Poster Presenters

Adhil Ahmed	Sai Shyam
Aishwarya Murali	Shanmuga Priya B
Ajay Subbaroyan	Shradha Sharma
Ajaya Kumar Sahoo	Siddharth Betala
Kundhanathan R	Sreejith N
Manasa C	Suchetana Mitra
Muthuarunachalam S	Sudha Govindarajan
Nikhil Chivukula	Tejas Mahesh Kale
Nilesh Anantha Subramanian	Trilochanaa M
Pratyay Sengupta	Venkatesh Kamaraj
Priyotosh Sil	Vijay Suryakant Kapse
Sabenabanu Abdulkadhar	

## Funding

The organisers gratefully acknowledge funding from Department of Atomic Energy, Government of India via Apex project to The Institute of Mathematical Sciences (IMSc).

## Organisers

Areejit Samal (IMSc Chennai)  
Meiyappan Lakshmanan (IIT Madras)

## Student Volunteers

Madhumita Mondal  
Shanmuga Priya B  
Priyotosh Sil

## Partner

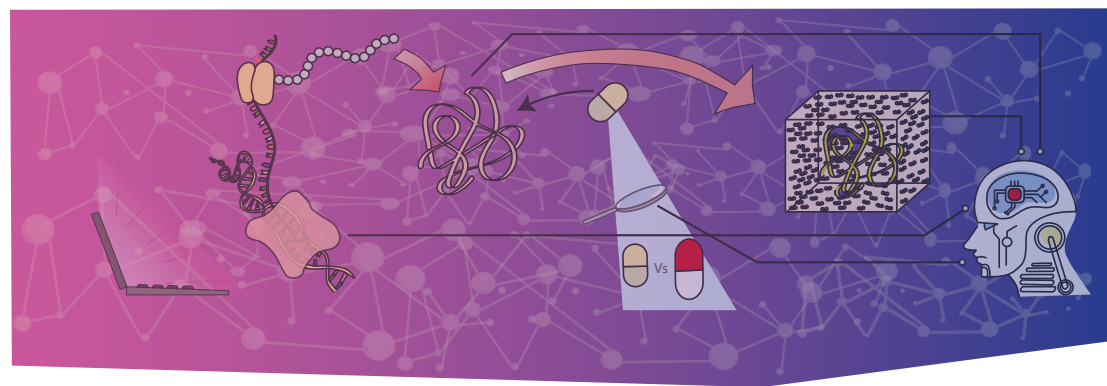


## Webpage



**The Institute of Mathematical Sciences (IMSc), Chennai**

Designed by Madhumita Mondal and Shanmuga Priya B



# Contemporary Perspectives in Computational Biology

**19 - 20 February 2024**

## Invited speakers

Sherry Bhalla (IGIB Delhi)	Bratati Kahali (IISc Bengaluru)
Sriram Chandrasekaran (Univ Michigan)	Sudip Kundu (University of Calcutta)
Sreenivas Chavali (IISER Tirupati)	Meiyappan Lakshmanan (IIT Madras)
Sandeep Choubey (IMSc Chennai)	Manikandan Narayanan (IIT Madras)
Anshuman Dixit (ILS Bhubaneswar)	Karthik Raman (IIT Madras)
Zhumur Ghosh (Bose Institute Kolkata)	Rahul Siddharthan (IMSc Chennai)
Dinesh Gupta (ICGEB Delhi)	Ashutosh Srivastava (IIT Gandhinagar)
Sanjay Jain (University of Delhi)	Pankaj Yadav (IIT Jodhpur)

## Early career speakers

Ajaya Kumar Sahoo (IMSc Chennai)  
Pavan Kumar S (IIT Madras)  
Shakti Menon (IMSc Chennai)  
Nikhil Chivukula (IMSc Chennai)  
Srijith S (IIT Madras)

## Venue

Ramanujan Auditorium  
The Institute of Mathematical Sciences (IMSc)  
Chennai, India



# Conference Schedule

19 February 2024

0930-1025	Registration / Poster Session
1025-1030	Opening Remarks
1030-1105	<b>Rahul Siddharthan</b> Modelling fetal growth and predicting birth outcomes
1105-1125	<b>Shakti Menon</b> Contact-mediated interactions can enhance boundary precision during developmental tissue patterning
1125-1150	Coffee & Poster session
1150-1225	<b>Karthik Raman</b> Algorithmic Adventures in Microbial Ecosystems: Disentangling Complexities with Metabolic Modelling
1225-1300	<b>Sherry Bhalla</b> Multi-omics integration to identify distinct genetic and clinically relevant subgroups in Multiple Myeloma Patients
1300-1400	Lunch / Poster session
1400-1435	<b>Anshuman Dixit</b> Identification of targeted leads for Oral cancer using computational biology techniques
1435-1510	<b>Sreenivas Chavali</b> Design principles underlying functionality of proteins with amino acid repeats
1510-1545	Coffee & Poster session
1545-1605	<b>Srijith S</b> Beyond solo acts: Temporal omics reveal how SNPs collectively shape a complex trait
1605-1640	<b>Meiyappan Lakshmanan</b> Systematic assessment of probiotic potentials through a computational approach
1640-1715	<b>Sudip Kundu</b> Unraveling plant leaf metabolism
1715-1845	High Tea & Poster Session
1845-1905	<b>Nikhil Chivukula</b> Beyond observations, Towards solutions: Computational Biology as a key to unravelling environmental health impacts
1905-1940	<b>Sanjay Jain</b> Understanding balanced growth and exponential trajectories of bacterial cells
1940-2100	Conference Dinner

20 February 2024

0900-0945	Coffee & Poster session
0945-1020	<b>Manikandan Narayanan</b> A method to discover non-linear causal relations among genes
1020-1055	<b>Zhumur Ghosh</b> Predictive Approaches involving Coding and the Noncoding World: Shaping modern day therapeutics
1055-1115	<b>Pavan Kumar S</b> SprintGapFiller: Efficient Gap-Filling Algorithm for Large-Scale Metabolic Networks
1115-1145	Coffee & Poster session
1145-1220	<b>Dinesh Gupta</b> Machine learning aided discovery of potential biomarkers for cancer diagnosis and prognosis
1220-1240	<b>Ajaya Kumar Sahoo</b> From Bench to Bytes: Prediction of Bacterial Type 9 Secretion System and Associated Functionalities
1240-1315	<b>Bratati Kahali</b> Genetic architecture of human cognition in diverse populations: lessons for dementia
1315-1415	Lunch / Poster session
1415-1450	<b>Ashutosh Srivastava</b> Molecular insights into mammalian circadian regulation
1450-1525	<b>Sandeep Choubey</b> Deciphering the role of DNA sequence on protein-DNA co-condensation
1525-1545	Coffee & Poster session
1545-1620	<b>Pankaj Yadav</b> Gene-Environment Interactions in Complex Diseases
1620-1655	<b>Sriram Chandrasekaran</b> Drug discovery using Systems biology and AI
1655-1700	Closing Remarks