

Symposium on
Cell and Molecular Biology (SCMB-2023)
Programme Schedule

Feb
16, 2023

Day 1

Biological Data Analytics

Venue:

**Tiered classroom,
Homi J Bhabha block**

09.30 AM - 10.00 AM (Inauguration)

10.00 AM - 10.45 AM

Dr Gaurav Ahuja, IIIT-Delhi, India

“Sex, Suicide or Survival – A decision modulated by Endogenous Metabolites

10.45 AM - 11.30 AM

Dr Vipin Singh, Vipin's e-classroom

“Code to Decode Life – Drawing parallels between a computational code and the biological code and touching upon common themes”

11.30 AM - 11.45 AM (Tea Break)

11.45 AM - 12.30 PM

Dr Vipin Singh, Vipin's e-classroom

“Data analytics in NGS applications

12.30 PM - 01.00 PM

Dr Anshu Bharadwaj, CSIR-IMTECH, India

“Genotype - Phenotype correlation in complex diseases”

01.00 PM - 02.30 PM (Lunch)

02.30 PM - 04.30 PM

Dr Gaurav Ahuja & Aayushi Mittal, IIIT-Delhi, India

Hands-on session

- Building Machine Learning models leveraging biological datasets in R-programming
- Using AutoML techniques for building classification and regression models (Biological datasets)
- Case study with Metabokiller Python Package (Mittal et al. 2022, Nature Chemical Biology).

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Day 2
Cells and Regulatory
Molecules

Venue:
Tiered classroom,
Homi J Bhabha block

09.30 AM - 10.10 AM

Prof. Orna Amster-Choder,
Hebrew University of Jerusalem, Israel

“Novel concepts in our understanding of bacterial cell organization and gene expression”

10.15 AM - 10.45 AM

Prof. Anirban Chakraborty, NITTE University, India

“Unraveling the role of ribosome assembly factors in development and disease: An integrated approach”

10.45 AM - 11.15 AM

Dr Amit Mishra, IIT-Jodhpur, India

“How Protein Quality Control Mechanism Regulates Proteostasis: Neurodegeneration Challenges & Therapeutic Opportunities”

11.15 AM - 11.30 AM (Tea Break)

11.30 AM - 12.00 PM

Dr Aditya Arya,
ICMR-National Institute of Malaria Research, India

“Era of NGS and harnessing potentials of halophiles”

12.00 PM - 12.30 PM

Prof. Motti Choder, Technion-Israel Institute of Technology

“Gene expression is circular”

12.30 PM - 01.15 PM

Dr Amit Baidya, Indian Institute of Sciences, India

“Bacterial nanotubes: Conduits for intercellular interactions”

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Day 2

**Cells and Regulatory
Molecules**

Venue:

**Tiered classroom,
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01.15 PM - 02.30 PM (Lunch)

02.30 PM - 03.00 PM

Prof. K. Balamurugan, Alagappa University, Tamil Nadu, India
“Caenorhabditis elegans - a model for host pathogen interaction”

03.00 PM - 03.30 PM

Dr. Maarten von Dongen, AMR Insights, The Netherlands
“Fighting Antimicrobial resistance: one of the
biggest threats of human health”

03.30 PM - 03.45 PM (Tea Break)

03.45 PM - 04.15 PM

Dr. Bálint Csörgő, Biological Research Centre, Hungary
“Development of CRISPR-Cas3 systems for large-scale
genome manipulation and gene discovery”

04.15 PM - 04.45 PM

Dr. Shanmugha Rajan, Weizmann Institute of Science, Israel
“Pseudouridine RNA modification: towards
specialised translation”

04.45 PM - 05.00 PM (Valedictory)