

FDP on “Computational Genomics: Path to Precision Medicine”

| Days | Session (PM) | Title of the Talk | Speaker |
|---------------------|--------------------------|--|--|
| Day 1 | Welcome Address | | |
| 24.03.2025 | Session 1- 7.30-8.30 | Precision Medicine in India- How far we achieved. | Dr. Maitreyee Bhattacharya, Professor and Director, Institute of Hematology and Transfusion Medicine, Medical College, Kolkata |
| | Session 2- 8.30-10.00 | Artificial Intelligence (AI), Application in Clinical Genomics and Diagnostics | Dr. Saurav Guha, Director, Molecular Diagnostics, New York Genome Center |
| Day 2 25.03.2025 | Session 1- 7.00-8.30 | Investigating the genomics and epigenomics landscape in pediatric population using novel genomic techniques. | Dr. Surajit Bhattacharya, Staff Scientist, Children's National Hospital, Washington, D.C |
| | Session 2- 8.30-10.00 | AI methods applied to DNA-shape based analysis of genomes | Dr. Shandar Ahmad, Professor JNU, DBT Coordinator |
| Day 3 26.03.2025 | Session 1- 7.00-8.30 | Pharmaco-Genomics and the AI-powered Future for Personalized Treatment | Mr. Arindam Halder, Principal Scientist, in Life Sciences R&D, TCS-Research |
| | Session 2- 8.30-10.00 | Emerging Landscapes of NGS based Molecular Diagnostics | Dr. Sameer Phalke, Director, Director Laboratory Sciences, Strand Life Sciences, Bangalore |
| Day 4 27.03.2025 | Session 1- 7.00-8.30 | Meta genomics and human health | Dr. Anirban Dutta, Principal Scientist, in Life Sciences R&D, TCS-Research, Pune |
| | Session 2 8.30-10.00 | Harnessing the power of OMICS in public health | Dr. Suman Paine, Chief Scientific Officer, PDxRL |
| Day 5 28.03.2025 | Session 1- 7.00-8.30 | Cancer Genomics: Analyzing the Role of Genetic Variations in Tumorigenesis | Dr. Nita Parekh, Associate Professor, Center for Computational Natural Sciences and Bioinformatics, IIIT, Hyderabad |
| | Session 2- 8.30-10.00 | Integrative bioinformatics for understanding variation in human cardiorespiratory fitness | Dr. Sujoy Ghosh, Professor and Director, Bioinformatics and Computational Biology Pennington Biomedical Research Center, United States |