

Biophysics Pashchim Meeting 2024 (BPPXIVI)

Participating Institutes: IIT Bombay, IISER-Pune, TIFR-Mumbai, NCL-Pune, ACTREC-Navi Mumbai

Venue: VMCC Lecture Hall No. 21 (Second Floor), IIT Bombay

Schedule

Time	Events
08:00-09:00 am	Registration and Breakfast
09:00-09:30 am	Welcome and Brief Introduction
Session I (09:30 am-11:20 am) Session Chair: Dr. Ambarish Kunwar, IIT Bombay	
09:30-10:15 am	Dr. A. S. R. Koti (TIFR-Mumbai) Phase Separation of Folded Proteins and Prediction of Biomolecular Condensates Using AI Methods
10:15-10:35 am	Mr. Mitradi Das (TIFR-Mumbai) Development of Unsupervised Machine Learning to identify Reaction Coordinates from out-of-equilibrium biomolecular simulations
10:35-11:20 pm	Dr. Amit Sethi (IIT Bombay) Towards Precision Oncology using Machine Learning on Medical Images
11:20-11:40 am	Tea break + Group Photograph
Session II (11:20 am-01:05 pm) Session Chair: Dr. Sudipta Maiti, TIFR-Mumbai	
11:40-12:25 pm	Dr. Kshitiz Jadhav (IIT Bombay) Data Efficiency for AI ML in Healthcare
12:25-12:45 pm	Mr. Dhruv Khatri (IISER Pune) Deep learning for cell stage classification of first embryonic division across diverse nematodes
12:45-01:05 pm	Mr. Hrushikesh Malshikare (NCL Pune) Analysing Antimicrobial Peptide Activity by Machine Learning Approaches
01:05-02:45 pm	Lunch and Poster Session
Session III (02:45 pm-04:30 pm) Session Chair: Dr. Chaitanya Athale, IISER Pune	
02:45-03:30 pm	Dr. Manjesh Hanawal (IIT Bombay) Statistical Techniques for Comparing Biosimilar Drugs
03:30-03:50 pm	Ms. Atreyi Chakraborty (IISER Pune) Reading Genomes
03:50-04:10 pm	Mr. Shubhankar Dutta (ACTREC) Enhancing Cancer Therapeutics through Machine Learning-Driven Structure-Based Drug Design

04:10-04:30 pm	Mr. Neeraj Gaur (NCL-Pune) Applied machine learning algorithms as virtual filters for miniproteins, employing data patterns in efficient design of targeted therapeutics
Session IV (04:30 pm-05:30 pm) Session Chair: Dr. Ravi Venkatramani, TIFR-Mumbai	
04:30-05:15 pm	Dr. Tripti Bameta (ACTREC) AI Bias Mitigation in Indian Oncology: Building Cancer Imaging Biobank and Streamlining Labeling with PathCaptcha
05:15-05:30 pm	Concluding remarks and discussion for next meeting
05:30-06:00 pm	Tea/Snacks and Departure