BioAi Omics Workshop: Foundation & Practice

भारतीय संस्कृतिक विज्ञान संस्थ हैदराबाद
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Online workshop on biological big data Analysis and ML applications
Monthly Workshop Series: Saturdays & Sundays, November 8–30, 2025

TOPICS

SPEAKERS

- **Statistics for biologists:** Descriptive statistics, Visualization, Correlation, Regression
- **R Programming:** Basic data structures, plotting functions, data extraction
- **Systems Biology and Biological Network Analysis:** Biological network types, topology analysis, Introduction to igraph and Cytoscape
- **ML foundation algorithms:** Supervised and unsupervised clustering, classification and regression algorithms
- **Genomics and transcriptomics data analysis:** Data pre-processing, sequence alignment, mutation calling, differential gene expression, pathway enrichment analysis
- **Clinical AI/ML applications in Neurotechnology:** EEG analysis, MRI enhancement, TMS optimization, clinical impact
- **AI / ML applications in physiology and sensors**

Dr. Sayantee Jana
Mathematics

Dr. Abhishek Subramanian
Biotechnology

Dr. Rahul Kumar
Biotechnology

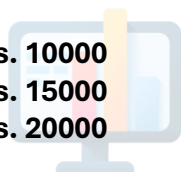**Dr. Nagarajan Ganapathy**
Biomedical Engineering

Dr. Neeraj Kumar
Liberal Arts

REGISTRATION FEES

STUDENTS :	Rs. 10000
FACULTY & POSTDOC FELLOW:	Rs. 15000
INDUSTRY PROFESSIONAL :	Rs. 20000

TO REGISTER

ORGANIZERS
Dr. Abhishek Subramanian,
Dr. Rahul Kumar
Department of Biotechnology,
IIT Hyderabad

SUPPORTED BY:
CCE, IITH

LAST DATE – October 31st ,2025

CONTACT US:
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