

Hands-on Training Program on Basics of Bioinformatics

1st – 2nd June 2023



Registration Fee: 1200 INR

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Module 1

- Primary Sequences and Secondary structure databases and tools for DNA, RNA, and Proteins
- Tertiary Structures – Stability, folding, and misfolding, Visualization
- Sequence alignment, BLAST search, MUSCLE, Phylogenetic Tree Construction, MEGA
- PCR and Real time Primer Design and Evaluation, In-Silico PCR
- Biochemical and Metabolic pathway analysis, KEGG database, Cytoscape



Module 2

- Introduction to Computer-Aided Drug Design (CADD), Drug discovery: Target identification and validation, Lead identification and optimization, Virtual screening, IMPPAT and Dr. Duke's database
- ADMET Studies optimization, SWISS-ADME, Analysis, and Interpretation
- Introduction for Protein and Modelling concepts, Types, Homology Modelling and Ab-initio Method
- Molecular docking: Ligand optimization and Target identification, SwissTarget Prediction
- Molecular docking Software: Autodock, ClusPro web server, SwissDock

Coordinators

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