

Hands-on Training Program on Basics of Bioinformatics

9th – 10th January 2025

Registration Fee: 1000 INR

Module 1

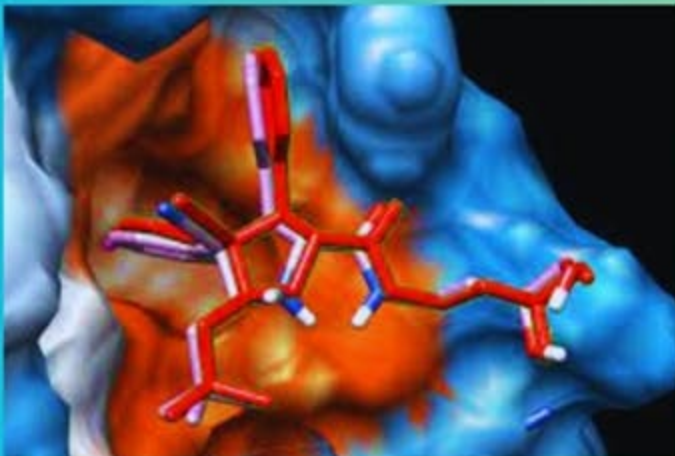
- Primary Sequences and Secondary structure databases and tools for DNA, RNA, and Proteins
- Tertiary Structures – Stability, folding, and misfolding, Visualization
- Sequence alignment, BLAST search, MUSCLE, Phylogenetic Tree Construction, MEGA
- PCR and Real time Primer Design and Evaluation, In-Silico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



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Module 2

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



Coordinators

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