

TRAINING IN BIOINFORMATICS

Module I. Basic Introduction of Bioinformatics

- Similarity & Homology
- BLAST and FASTA
- Protein Functional Analysis
- Sequence Analysis
- Structural Analysis
- Gene and SNP Analysis
- Web Services
- Tools Miscellaneous

Module II-Exploration of Database and Application

- Biochemical Nomenclature Database
- Carbohydrate Databases
- Enzyme Databases
- Genome Databases
- Genome Databases - Plant
- Genome Databases – Prokaryotic
- Lipid Databases
- Metabolic Pathway Database
- Mutation Databases
- Organelle (mitochondria and chloroplasts) Databases
- Plant Species Databases
- Plasmid Databases
- Protein Databases
- Protein Structure Databases
- RNA Databases
- Sequence Databases
- Species Databases

Module II- Application Online tool and software

- Sequence converter
- Reverse complement
- Sequence Assembly
- Translate DNA
- Restriction Analysis
- Oligo Analysis
- PCR Primer Design
- Predict Protein Mw/PI
- Codon usage analysis
- Protein Motif Scan and Blast Alignment
- ClustalW multiple DNA/Protein Alignment
- BLASTn, BLASTp, BLASTx, tBLASTn, tBLASTx

Duration : 30 Days

Service Charges : Rs 8,000/-