

Bioinformatics

(Course duration: 30days)

COURSEWORK

Introduction to Bioinformatics and overview of Biological Research

Biological databases and database searching

Data Mining and Sequence Retrieval

Motif & Domain assignment

Proteomics

Protein threading and interaction

Pair wise and Multiple Sequence Alignment

Sequence Analysis (BLAST, FASTA, CLUSTAL W)

Phylogenetic analysis

Ab initio structure prediction

Visualization tools

Other relevant Confirmatory Tools

Research project