

Advance Bioinformatics with Drug Design, Immunoinformaics and Clinical Research

(Course duration: 180 days)

COURSEWORK

Introductory Bioinformatics& overview of Biological Research with Bioinformatics
Molecular Biology concepts, Biological databases & Database Searching
Bioinformatics & Functional Proteomics
Bioinformatics & Structural Proteomics
Bioinformatics & Expression proteomics
Pairwise and Multiple Sequence analysis (BLAST, FASTA and CLUSTAL W)
Motif and Domain Assignments
Introductory Computational Genomics
Phylogenetic Analysis in Bioinformatics
Homology Modeling
Threading
Protein Interactions
Structural Bioinformatics
Ab Initio Structure Prediction
Applied computational Genomics
Protein Modeling and Impact on Protein physical Properties
Introductory Rational Drug Design
Visualization Tools
Modelling and Threading
Drug Targeting & Design
Simulation studies
Organellar Proteomics and Genomics
Reverse Vaccinology
Antigenicity and Immunogenicity
SAS Proteomics
SAS Genomics
SAS Clinical Trials
Online Lectures
Industrial Project (3)

Research project

Note: Applicants not interested for SAS Modules may exchange with any Dry lab module of 30 Days