

Basic Recombinant DNA Technology And Bioinformatics Module

(Course duration: 30days)

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, CLUSTAL W)

Motif and Domain Assignments

Introduction to Recombinant DNA Technology

Isolation of DNA from soft tissue

Basics of DNA Extraction procedures

Isolation of DNA from Animal source

DNA extraction from plant tissue

Purification of DNA

Isolation of Genomic DNA from Prokaryotes

Agarose gel electrophoresis (Theory & Practical)

Internal Assignment (1)

Industrial Project (1)