

Training in Genetic Engineering

Key Features:

- Hands on Experience on Genetic Engineering techniques
- Evergreen Technique
- Wide application in Life Science Researchs
- Introduction to PCR, Real Time PCR, Microarray, HPLC, GC etc.

Module I : Basics of Laboratory

- Handling of Instruments
- Laboratory Safety Protocols
- Calibration of Instruments
- Preparation of Solutions
- Functions of chemicals & solutions

Module II: Basics of Bioinformatics

- Tools Literature and Database access
- Data Mining – Gene Bank
- BLAST & FASTA
- Sequence Alignment

Module III: Recombinant DNA Technology

- Extraction of Plasmid DNA
- Electrophoresis Of Plasmid DNA
- DNA Isolation (Gene)
- DNA Elution from Gel
- Preparation of Vector DNA and Insert DNA
- Restriction Digestion
- Ligation of Genes
- Competent Cell Preparation
- Transformation
- Screening of Transformed Cell

Module IV: Amplification through PCR

Module V: Extraction and Purification of Recombinant Protein

Module V: Western Blot Analysis of Recombinant Protein

Module VI: Project Report

Duration: 30 Days from date of joining

Eligibility : Masters or Bachelors from Life Science / Pharma (Studying or Passed out)

Total Number of Experiments : 25

Service Charges: Rs 8,000 /-

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