

Training in Gene Expression Studies

Key Features:

- Hands on Experience on Gene Expression Techniques
- One of the latest and useful technique
- Gateway for Microarray Technology
- Introduction to PCR , Real Time PCR , Microarray , HPLC etc.

Module I: Basics of Laboratory

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

Module II: Extraction and Purification and Analysis of Nucleic Acids

- Extraction and Purification of DNA (Plant , Bacterial , Algae , Fungal , Blood)
- Extraction and Purification of RNA (Plant , Bacterial , Algae , Fungal , Blood)
- Extraction and Purification of Mitochondrial DNA
- Electrophoresis of Nucleic Acids
- Quantitative and Qualitative Analysis of DNA
- Quantitative and Qualitative Analysis of RNA

Module IV: Preparation of Nucleic Acids

- Preparation of DNA Samples
- Preparation of Target RNA

Module IV: Amplification of Nucleic Acids through PCR

- Amplification of DNA
- Amplification of RNA
- Amplification of cDNA
- Electrophoresis of PCR Products

Module V: Synthesis, Labeling and Hybridization

- Extraction of m RNA
- Synthesis of cDNA
- Labeling of DNA
- Hybridization

Module VI : Introduction to Microarray Technology

- Introduction to Gene Chip Fluidics Station
- Introduction to Microarray Scanner
- Introduction to Data Analysis

Duration: 30 Days from date of joining

Total Number of Experiments: 30

Service Charges: Rs 10,000 /-

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