

Training in Proteomics

Key Features:

- Development of skills for protein based research
- Hands on Experience
- Job Orientation Learning

Module I: Introduction to the techniques of Protein Study

- Isolation of Protein from various biological Samples
- Purification of Protein Through Gel Filtration Chromatography
- Estimation of Protein by Lowry's Method
- Determination of Protein by Bradford's Method
- Determination of Protein by Lowry's Method
- Determination of Protein by BCA Method
- Characterization of Protein through SDS- PAGE
- Western Blotting
- Silver Staining
- 2D Gel Electrophoresis

Module II: Chromatography Techniques

- Gel Filtration Chromatography
- Ion Exchange Chromatography
- Affinity Chromatography
- Thin Layer Chromatography
- High Performance Liquid Chromatography
- Gas Chromatography

Module III: Recombinant Protein Study

- Isolation of Target Gene
- Amplification of DNA (PCR Based)
- Transformation into suitable strain for High Copy Number
- Restriction Digestion & Construction of Suitable Vector
- Target Specific expression of Protein
- Separation of Protein through GFC
- Characterization of Protein through SDS - PAGE

- Western blot for detection of protein of interest in a mixture of proteins

Module IV: Purification of Protein through HPLC

- Analytical Method Validation of HPLC
- Volumetric Solution Preparation For HPLC
- Detection and Analysis of assay from HPLC
- Purity and Impurity Analysis from HPLC

Module IV: Protein Modifications

- Synthesis of Protein / Peptides
- Modification in Protein / Peptide
- Labeling of Protein / Peptide
- Conjugation of Protein / Peptide

Module V: Project Work

Duration: 3 Months from date of joining

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

Service Charge: Rs 20,000/-

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