

# TRAINING IN PROTEIN BIOLOGY

## Ist Week - Basics of Protein Lab & Protein Extraction

Day 1: Lab safety and Procedures , Chemical & Reagent Preparation

Day 2: Protein Extraction from Mushroom

Day 3: Quantification of Mushroom Protein

Day 4: SDS-PAGE Analysis of mushroom protein ( 2 Days protocol )

Day 5: Data Analysis of crude mushroom protein



## IIInd Week - Basics of Protein Purification

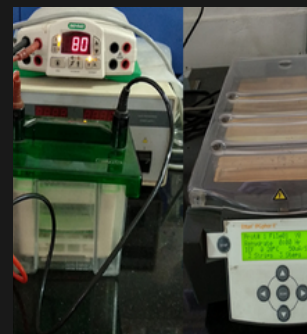
Day 1: Acid Base Equilibrium, pH, Buffer System, Charge, pI and pKa Value,  
Quantitative determination of biomolecule

Day 2: Ammonium sulfate precipitation

Day 3: Estimation of Protein after Ammonium sulfate precipitation

Day 4: Dialysis or Desalting of Protein Sample

Day 5: Preparation for Protein Purification Strategies ( DEAE Sepharose / SP  
Sepharose / CM Sepharose )



## IIIrd Week - Advance Protein Purification Techniques

Day 1: Protein Purification by Ion Exchange Chromatography

Day 2: Protein Purification by Size Exclusion Chromatography

Day 3: Estimation of Protein in Fractions

Day 4: SDS-PAGE of Protein Fractions

Day 5: Western Blot Analysis



## IVth Week - Amino Acid Analysis

Day 1: Sample Preparation For Amino Acid Analysis

Day 2: Hydrolysis and Derivatisation of Amino Acid

Day 3: Preparation of Amino Acid Standards for Quantification

Day 4: Separation & Detection of Amino Acids by HPLC

Day 5: Amino Acid Quantification Data Analysis



## Vth Week - Project Work

We will share our ideas and decide for small piece of research in limited time frame.

**Cost of Training :** Training Only -INR 10,000 / -  
Training + Project - INR 12,000/-

**Duration :** 80 to 100 Hrs or 4 to 6 Weeks



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