

EXPLORE OUR SHORT TERM TRAINING PROGRAM

Industry Updated 100% Hands On Learning

Our training programmes are specifically created for the career advancement of students to assist them in learning about cutting-edge technologies and enhancing their abilities for food, pharma. biotechnology. pharmaceutical industry and research.

Our Program For

- ✓ Healthcare Industry
- ✓ Biotechnology Research
- ✓ Biopharmaceuticals
- ✓ Food Industry
- ✓ Cosmetic Industry
- ✓ Forensic Science



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Information

IMPORTANT NOTES FOR SHORT TERM TRAINING

- **Minimum Four Modules** are mandatory for short term training
- **Duration of Four Modules will be 30 to 45 Days or 100 Hrs**
- **Morning - 9 AM to 01 PM & Evening- 01 PM to 5 PM**
- **Fee Structure** is given with module details
- Any person from science background may participate
- **No Stipend** is available
- **Course fee** is charge to **cover the expenses of chemicals & Reagents**
- No accommodation, food is available in the premises

OUR OBJECTIVES Human Resource Generation refers to the systematic development of skilled professionals to meet the growing demands of the Healthcare, Diagnostics, Biotech, Pharma, Biopharma, Ayurveda , Food, Cosmetics, Fragrance and Forensic Industry. With the rapid expansion of latest technologies.

GENERAL INFORMATION

- We have not included the basic experiment like; chemical preparation, normality, molarity, buffers, electrophoresis, media preparation, pH, sterilisation etc. **You will learn during hands on learning.** You will **use bioinformatics tool during your experiments.** All **basic test are automatically incorporated** in our training. You will **get certificate** after completion of training program.
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HOW TO APPLY FOR TRAINING PROGRAM

- Fill the Admission Form (Given on Web Page & End of Brochure)
- Attach necessary documents
- **Scan and send at : allelelifesciences@gmail.com or WhatsApp - 09891179928**
- We will send confirmation within working 2 days

FOR ANY DOUBT COMMUNICATE WITH WhatsApp Only - 09891179928





Research Tools For Bio-Pharmaceuticals

Module 1: In-vitro Cell Culture (Fee - INR 3,500)

Unit 1: Preparation and Sterilization of Culture Media

Unit2: Sub-culturing (Passaging) of Adherent / Suspension Cells

Unit3: Microscopic Observation of Cell Morphology & Cell Counting

Unit4: Trypsinization and cryo Preservation of cells

Module 2: Drug Screening Assays (Fee - INR 2,000)

Unit 1: Drug Cytotoxicity Analysis

Unit 2: Trypan Blue Exclusion Assay

Unit 3: LDH Release Assay

Unit 4: Catalase Assay in Cells

Module 3: Drug Analysis by Flow Cytometry (Fee - INR 4,000)

Unit 1: Basics of Flow Cytometry in drug analysis

Unit 2: Cell counting by Flow Cytometer

Unit 3: SYBR Green or Propidium Iodide (PI) Cell Staining

Unit 4: Data Analysis

Module 4: Immunofluorescence Assay For Drugs (Fee - INR 3,500)

Unit 1: Cell Preparation, Drug Treatment and Staining for IFA

Unit 2: Microscopy and Data Analysis

Unit 3: Comet Assay (Single Cell Gel Electrophoresis)

Unit 4: DNA FISH Assay

Module 5: Gene Expression by Real Time PCR (Fee - INR 3,500)

Unit 1: Total RNA Extraction & First Strand cDNA Synthesis

Unit 2: Basics of Real Time PCR, Primer Design and Software

Unit 3: Real Time PCR run for gene expression

Unit 4: Data Analysis

Module 6: Stem Cell Extraction & Pluripotency Assay (Fee - INR 2,000)

Unit 1: Isolation of Stem Cells

Unit2: Subculture of cells and maintenance

Unit3: DNA Extraction & Quality check

Unit4: Pluripotency marker analysis - Nanog gene





Production of Bio-Pharmaceuticals

Module 1: Genetic Engineering Technique (Fee - INR 3,500)

Unit 1: PCR amplification of gene of interest

Unit2: Digestion of Plasmid with restriction enzymes used for GOI

Unit3: Ligation of Plasmid Vector and Digested PCR Product

Unit4: Transformation into Competent Cells

Module 2: Microbiology and Bio-Process (Fee - INR 2,500)

Unit 1: Isolation and Culturing of Microorganisms

Unit 2: Bacterial Growth Curve & cell count

Unit 3: Production of biomass & measurement

Unit 4: Cell Harvesting & Product Recovery

Module 3: Optimization & Partial Purification (Fee - INR 2,000)

Unit 1: Fed-Batch Fermentation Simulation

Unit 2: Enzyme Activity Assay

Unit 3: Determination of Specific Growth Rate (μ) and Yield Coefficient

Unit 4: Partial Purification

Module 4: Protein Liquid Chromatography (FPLC) (Fee - INR 3,500)

Unit 1: Basics of Protein Liquid Chromatography & Buffer Preparation

Unit 2: Fast Protein Liquid Chromatography - Affinity, Ion Exchange and Size Exclusion

Unit 3: Run of Protein Sample in Protein Chromatography System

Unit 4: Data Analysis & Software handling

Module 5: Protein Analysis (Fee - INR 2,500)

Unit 1: Protein Estimation Assay

Unit 2: Analysis of Protein by SDS-PAGE

Unit 3: Zymography

Unit 4: Protein / Enzyme Activity Assay

Module 6: Analysis of Amino Acids (Fee - INR 3,000)

Unit 1: Quantitative Estimation by Ninhydrin

Unit2: Amino Acid Separation by Ion-Exchange Chromatography

Unit3: Derivatization & Sample Preparation

Unit4: High-Performance Liquid Chromatography (HPLC) of Amino Acids

Module 7: ELISA & Western Blot (Fee - INR 3,000)

Unit 1: ELISA-based binding studies

Unit 2: SDS-PAGE Electrophoresis for Western Blot

Unit 3: Transfer on PVDF or Nitrocellulose Membrane

Unit 4: Blocking, Antibodies and Detection





Quality Control of Pharma / Bio-Pharma Products

Module 1: Quality Analysis of Pharma Products by HPLC (Fee - INR 3,500)

Unit 1: Principle of HPLC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 2: Analysis by Gas Chromatography (Fee - INR 3,500)

Unit 1: Principle of GC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 3: Spectrophotometric Assays (Fee - INR 2,500)

Unit 1: Assay & Analysis of aspirin

Unit 2: To perform analysis of paracetamol

Unit 3: Analysis of Vitamin C

Unit 4: Estimation of Drug Content in Pharmaceutical Syrup

Module 4: Microbial Test for Pharma / Bio-pharma (Fee - INR 2,000)

Unit 1: Microbial Limit Test (MLT)

Unit 2: Antibiotic Assay (Microbiological Assay)

Unit 3: Sterility Testing of Pharma Product

Unit 4: Bacterial Endotoxin Test (BET) / LAL Test

Module 5: Analysis of Pharmaceuticals (Fee - INR 2,000)

Unit 1: Assay of Active Ingredient

Unit 2: Confirm API identity using TLC

Unit 3: pH & Viscosity

Unit 4: Preservative Content Determination





About Us

We aim to provide the highest quality services to our clients, considering our performance, consistency, safety, and value. To achieve this, we are continually improving processes, products, and services, meeting and exceeding customer satisfaction at all times.



Lab Services



Research



Testing



Products

Why Choose Us?

We have a dedicated team of chemists, biotechnologists, analysts, engineers, and specialists to assist in our technological solutions and product development.