

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



Diagnostics & Healthcare Industry

Module 1: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis (Fee - INR 1,500)

Unit 1: DNA Extraction

Unit2: Quantitative & Qualitative Analysis of DNA Qualitative Analysis of DNA

Unit3: RNA Extraction

Unit4: RNA Quantification and Purity Check

Module 2: PCR For Disease Diagnosis (Fee - INR 2,000)

Unit 1: RNA Extraction & mRNA Purification

Unit 2: First Strand cDNA Synthesis

Unit 3: Qualitative RT-PCR

Unit 4: Nested PCR for Molecular Diagnostics

Module 3: Real Time PCR & Molecular Diagnostics (Fee - INR 3,500)

Unit 1: Total RNA Extraction & First Standard cDNA Synthesis

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

Unit 3: Real Time PCR Sample Run for molecular diagnosis

Unit 4: Data Analysis and Reporting

Module 4: ELISA & Diagnostics (Fee - INR 2,000)

Unit 1: Understand principles of ELISA and immunodiagnosics

Unit 2: Plate coating, blocking, washing, sample loading

Unit 3: Reading absorbance using ELISA reader

Unit 4: Plotting standard curve, interpreting OD values

Module 5: Flow Cytometry in Diagnosis (Fee - INR 4,000)

Unit 1: Basics of Flow Cytometry & its application in clinical diagnostics

Unit 2: Sample Preparation for BD Flow Cytometer

Unit 3: Sample run for detection

Unit 4: Analyse data with Flow Cytometer Software

Module 6: Immunofluorescence Assay For Diagnosis (Fee - INR 3,500)

Unit 1: Basics and Calibration of FL-Microscopy

Unit2: SYBR® Green Staining for Microscopy

Unit3: Immunofluorescence Characterization

Unit4: Olympus FluoView FV1000 software

Module 7: Microbial Diagnosis (Fee - INR 2,000)

Unit 1: Direct Microscopic Examination

Unit2: Streaking & Plate Count

Unit3: Enumeration of Microbes & Colony Counting

Unit4: Detection and confirmation species





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





Training For Food Science & Industry

Module 1: Food Microbial Analysis (Fee - INR 2,500)

Unit 1: Direct Microscopic Examination of Food Products

Unit2: Aerobic Mesophilic Plate count- Streaking & Plate Count

Unit3: Enumeration of Food Microbes & Colony Counting

Unit4: Detection and confirmation of Salmonella species in Food Sample

Module 2: PCR Multiplexing in Food Samples (Fee - INR 2,000)

Unit 1: Extraction, Purification and optimisation of both Food Microbial DNA

Unit 2: Qualitative and Quantitative Analysis of DNA

Unit 3: Primer Design and Optimisation of Annealing Temperature

Unit 4: PCR Multiplexing analysis for Meat Adulteration

Module 3: Food Allergen Screening by Real Time PCR (Fee - INR 3,500)

Unit 1: Sample Preparation & DNA Extraction

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

Unit 3: Real Time PCR Reaction Setup

Unit 4: Data Analysis and Reporting

Module 4: Food Preservative Analysis by HPLC (Fee - INR 3,500)

Unit 1: Sample Preparation Example (Benzoic/Sorbic Acid in Juice)

Unit 2: Mobile Phase & Standard Preparation

Unit 3: Basics of HPLC, Software & Sample Run

Unit 4: Data Analysis & Reporting

Module 5: Toxins Analysis & Gas Chromatography (Fee - INR 3,500)

Unit 1: Analysis of Hydroxy Benzoates (Parabens) in Food sample

Unit2: Analysis of Cyclamate in Food Sample

Unit3: Basics of Gas Chromatography & Sample Preparation

Unit4: Data Analysis & Reporting

Module 6: Nutrient Analysis of Food Products (Fee - INR 2,000)

Unit 1: Amount of crude protein

Unit 2: Total carbohydrates Analysis

Unit 3: Amount of crude Fibre

Unit 4: Total Fat / Lipid Analysis





Training For Cosmetics Industry

Module 1: Microbial Evaluation of Cosmetics (Fee - INR 2,500) Unit 1: Total

Aerobic Microbial Count (TAMC)

Unit2: Determination of Microbial Load in Cosmetics

Unit3: Preservative Efficacy Test

Unit4: Pathogen Detection in Cosmetics

Module 2: Cell Viability & Regeneration Assays (Fee - INR 3,500)

Unit 1: Culture of dermal cell for assays

Unit 2: Cytotoxicity of cosmetic ingredients

Unit 3: Scratch Wound Healing Assay

Unit 4: β -galactosidase staining in cells & analysis

Module 3: Antioxidant, Anti-Aging & SPF Activity Testing (Fee - INR 3,500)

Unit 1: ABTS Radical Cation Decolorization Assay

Unit 2: Collagen ELISA in Anti-Aging Cosmetics

Unit 3: SPF (Sun Protection Factor) Testing

Unit 4: Total Phenolic Content (TPC) Assay

Module 4: Genotoxicity of Cosmetic Product (Fee - INR 3,500)

Unit 1: Revival and Culture of Cryopreserved Cells

Unit 2: In Vitro Micronucleus Assay

Unit 3: Comet Assay (Alkaline Version)

Unit 4: Ames Test (Bacterial Reverse Mutation Test)

Module 5: Analysis of Toxins in Cosmetics (Fee - INR 3,500)

Unit 1: Cosmetic Sample Preparation for Toxins

Unit 2: Method Validation for Toxin Analysis with HPLC

Unit 3: HPLC Sample Run

Unit 4: Data Analysis & Reporting

Module 6: Distillation & Analysis of Fragrance Oil (Fee - INR 2,500)

Unit 1: Raw Material Identification & Evaluation

Unit2: Extract Fragrance oils using Steam Distillation

Unit3: Collection of Oil & Solvent Distillate

Unit4: Analytical Techniques for Fragrance

Module 7: Analysis of Finished Cosmetic Products(Fee - INR 1,500)

Unit 1: pH & Viscosity analysis

Unit 2: Water Activity (aw) Test

Unit 3: Sensory Evaluation & Hedonic Scoring of Perfume Blends

Unit 4: Refractive Index Analysis





Training For Forensic Science Lab

Module 1: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis (Fee - INR 1,500)

Unit 1: DNA Extraction

Unit2: Quantitative & Qualitative Analysis of DNA Qualitative Analysis of DNA

Unit3: RNA Extraction

Unit4: RNA Quantification and Purity Check

Module 2: STR Analysis (Fee - INR 3,000)

Unit 1: DNA Extraction, Quantitative & Qualitative Analysis of DNA

Unit 2: PCR Amplification of Y-STR Loci

Unit 3: PAGE Setup

Unit 4: Visualization in Gel Documentation System & Analysis

Module 3: SNP Typing Using Real-Time PCR (Fee - INR 3,500)

Unit 1: Mitochondrial DNA Extraction & Analysis

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

Unit 3: Allele-Specific Real Time PCR Run

Unit 4: Data Analysis and Reporting

Module 4: Analysis of Forensic Toxicology Samples (Fee - INR 3,500)

Unit 1: Solid Phase Extraction of Drugs from Urine

Unit 2: Clean-up using Alumina and Silica Column

Unit 3: Analysis of toxic compound in Gastric Lavage by HPLC

Unit 4: Data Analysis & Report Preparation

Module 5: Analysis of Toxic Anions by Ion Exchange Chromatography (Fee - INR 3,500)

Unit 1: Protein Precipitation or Extraction of sample

Unit 2: Dialysis of Forensic analysis

Unit 3: Selective Chemical Treatment and Microdiffusion of Forensic analysis

Unit 4: Instrument Setup, Run and Detection:

Module 6: Toxins Analysis by Gas Chromatography (Fee - INR 3,500)

Unit 1: Sample Preparation - Solid-phase extraction (SPE) for blood, urine, or food

Unit2: Derivatization for thermolabile or non-volatile toxins

Unit3: Basics of Gas Chromatography & Sample Run

Unit4: Qualitative and Quantitative Identification of Toxins

Module 7: Sample Collection & Preservation (Fee - INR 2,000)

Unit 1: Collection of Biological Evidence

Unit 2: Buccal Swab Collection and Documentation

Unit 3: Packaging, Labeling & Chain-of-Custody Form Preparation

Unit 4: Preservation of DNA Samples under Different Conditions



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PERSONAL INFORMATION

Full Name :

Address :

Nationality :

Institution (If Any)

Phone :

Email :

Name of Training :

Terms & Conditions

1. The admission to training / internship programs will be confirmed after the payment of registration fee along with documents.
2. The registration fee Rs 1000/- deposited is completely non refundable.
3. I will deposit the service charges as decided by the company in brochure at the time of joining date of training program.
4. Students have to bear their own boarding/lodging /conveyance charges.
5. Trainees will maintain adequate discipline & lab safety inside the lab premises.
6. Company will not be responsible for any medical, legal issues during the internship tenure.

Declaration

I hereby declare that all statement/information given in the application form are true to the best of my knowledge and belief . I will strictly abide by the terms & conditions, norms, lab etiquette during the training .

Pay Registration Fee for confirmation of seat for training program.

Send the copy of the form, payment detail and any identity proof at :
info@allelelifesciences.com

Beneficiary Name - Allele Life Sciences Private Limited
Account Number - 61071508494
IFSC Code - SBIN0031811
Bank Name - State Bank of India
Bank Address - SBI, 14/15, Sector-18, Noida, UP - 201301

Trainee Signature

THANK YOU FOR REGISTRATION

We will send your training confirmation letter at your
Email ID given in the registration form

More Information :

If you do not receive confirmation letter kindly WhatsApp your details at:

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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.