

Industry Ready Training Bio Pharmaceutical Science

Our Benefit:



Get Certificate



On Time Training



100 % Hands on learning







- +91-9891179928 (WhatsApp Only)
- allelelifesciences@gmail.com
 - www.allelelifesciences.com





OUR PEDAGOGY

Our training programs are specially designed for the betterment of students career to help them capture knowledge on emerging technologies and to improve skills in Bio Pharmaceutical Research.



WHY TRAINING?

One of the main reasons why freshers find it difficult to get employment in the industry is the lack of hands-on experience. Our mission to get students industry-ready in Bio Pharma Sector.

WHO WILL BE BENEFITED

- · Looking to get admission in Ph.D. from foreign university
- Career opportunities in Bio **Pharmaceutical Research**
- · You my consider as Pre Ph.D. Program

DURATION & FEE:

- 3 Months
- INR 30,000

HANDS ON EXPERIENCE ON **MAJOR TOOL & TECHNIQUES:**

- · Animal Cell Biology Culture, Inverted Microscopy, Fluorescence Microscopy & Image Analysis, Apoptosis, Cytotoxicity
- Nucleic Acid Extraction Techniques, PCR & Real Time PCR Analysis, Methylation & rDNA Technology
- by FPLC, Ion Protein Purification Exchange, Affinity Chromatography, Microplate Assay, ELISA, Immuno Fluorescence Assay, SDS-PAGE & BLOT Techniques. Analysis of AAA by HPLC, Fluorescence Detection by HPLC-FLD
- · Microbial Techniques, Enzyme Production & Analysis
- Gas Chromatography, **Bio-Separation** Techniques, Nano Particle Synthesis, Analysis, Botanical Secondary Metabolite Extraction, Drug Analysis.

Basics Bio-Pharma Analysis Lab & Analytical Procedures

Unit 1: Lab safety and Analytical Procedures, Chemical & Reagent Preparation

Unit 2: Soxhlet Extraction, Drying the solvent by Vacuum Rotary Evaporator

Unit 3: Qualitative assay of Herbals - Assay of Alkaloids, Flavonoids, Terpines, Glycosides, Free Glucose, tannins, Anthraquinone, Saponins, Phenols etc

Unit 4: Quantitative assay of Total Phenolics

Unit 5: Quantitative assay of Total Flavonoids



Cell based Assay, MIC & Anti Microbial Assay

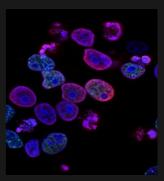
Unit 6: Cell Culture Lab Safety, Microscopy, Basics of Cell Culture

Unit 7: Culture of a Continuously Growing Cell Line

Unit 8: MTT Assay for cytotoxicity analysis

Unit 9: Determination of minimum inhibitory concentration

Unit 10: Anti-Microbial assay of extracted crude extract (ELISA based)



Antioxidant / Oxidative Stress Assay

Unit 11: Inhibition Concentration (IC50) of Antioxidant activity

Unit 12: In vitro radical scavenging assay & data analysis

Unit 13: Reducing Power assay of herbal extract

Unit 14: Analysis of Catalase test in herbal sample

Unit 15: superoxide dismutase (SOD) activity



Chromatography Separation & Analysis

Unit 16: Purification of herbal extract by column chromatography

Unit 17: Analysis of fractions by TLC

Unit 18: Spectrophotometric analysis of crude fraction

Unit 19: Basics of High Performance Liquid Chromatography

Unit 20: Sample Analysis & Data Analysis of HPLC



Ist Week - Basics of Pharma Biotech Lab & Microbiology

Unit 21: Lab safety and Procedures, Chemical & Reagent Preparation

Unit 22: Simple & Serial Dilution, Moles and Molar Solutions

Unit 23: Growth Curve Analysis of Microbial Culture

Unit 24: Enumeration of Microbes & Colony Counting

Unit 25: Colony Morphology & Survival Analysis



Lab Safety & Nucleic Acids

Unit 26: Genetics Lab safety and Procedures , Chemical & Reagent Preparation

Unit 27: DNA Extraction & Optimization of Protocol

Unit 28: Quantitative & Qualitative Analysis of DNA

Unit 29: Lab Safety for RNA, Total RNA Extraction & Optimization

Unit 30: Quantitative & Qualitative Analysis of RNA

Bioinformatics, cDNA Synthesis & PCR Run

Unit 31: Bioinformatics: Primer Designing, Vectors, Selection of Restriction Sites, Virtual PCR, other Bioinformatics tools & Techniques

Unit 32: mRNA Purification & First Strand cDNA Synthesis

Unit 33: Optimisation of PCR Reaction – Melting Point, GC Content, Concentrations and Cycles, Sample Preparation For PCR Analysis, PCR sample Run

Unit 34: Analysis of PCR sample

Unit 35: Qualitative RT- PCR sample run & Analysis

rDNA Technology

Unit 36: Isolation of pUC18 plasmid from TOP10-pUC18 E coli cells

Unit 37: Restriction digestion of pUC 18 and λ DNA & Purifying pUC18/Hind III/ EcoR I digest by gel elution

Unit 38: Ligating the linearized plasmid -pUC18 and the insert -λDNA

Unit 39: Preparation of competent cells

Unit 40: Transformation of TOP10 cells with the pUC18-λDNA ligated Product & Confirmation by PCR

Lab Scale Up Stream processing

Unit 41: Microbial Selection & Preparation for Protein Production

Unit 42: Medium Optimization by Plackett and Burman Design

Unit 43: Effect of pH on enzyme activity

Unit 44: Effect of temperature on enzyme activity

Unit 45: Batch Growth Kinetics of Microbe

Lab Scale Down Stream processing

Unit 46: Extraction of Protein from microbial culture

Unit 47: Ammonium sulfate precipitation & Estimation

Unit 48: Dialysis or Desalting of Protein Sample

Unit 49: Preparation for Protein Purification Strategies

Unit 50: Molecular Weight determination by SDS-PAGE











Pharmaceutical Analysis Lab & Analytical Procedures

Unit 51: Lab safety and Chemistry Lab Procedures , Chemical & Reagent Preparation

Unit 52: Calibration of balance, pH Meter and apparatus, Acid-base titration

Unit 53: Moisture content analysis, Dissolved Oxygen Analysis, TDS, Nitrogen Potentiometric Analysis, Refractive Index determination.

Unit 54: Chromatography Procedures - Column Chromatography, TLC, HPLC & GC

Unit 55: Spectrophotometric Analysis

Qualitative Analysis of Pharmaceutical Drugs

Unit 56: Determination of % purity of ammonium chloride

Unit 57: Partition Coefficient of Benzoic acid between benzene & water

Unit 58: Assay & Analysis of aspirin

Unit 59: To perform analysis of paracetamol

Unit 60: To carry out the Assay of furosemide tablets.

Analysis of Pharmaceutical Finished Products

Unit 61: Analysis of Erythromycin tablet

Unit 62: Pharmaceutical Analysis of Ethambutol Tablets

Unit 63: Pharmaceutical Analysis of Ethosuximide Syrup

Unit 64: Analysis of Metronidazole Injection

Unit 65: Atropine Eye Ointment Analysis

Food Sample Analysis by HPLC & Gas Chromatography

Unit 66: Basics of High Performance Liquid Chromatography & Gas Chromatography

Unit 67: Software, application in HPLC and Data Analysis

Unit 68: Software & Its application in Gas Chromatography

Unit 69: Sample, Standard and Solvent Preparation for HPLC

Unit 70: Sample Run & Data Analysis

Cost of Training: INR 30,000 / -

Duration: Three Months













Registration Form |

Address Office:

A: C-59, Sector-10, Industrial Area, Noida, Uttar Pradesh, India - 201301

P: +91-9891179928

E: info@allelelifesciences.com



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 saftey inside the lab premises.
- 6. Company will not be responsible for any medical, legal issues during the internship tenure.

Declaration

	nereby declare that all statement/information given in the application
form are true to the best of my kn	owledge 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



allelelifesciences@upi

Trainee Signature

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

THANK YOU FOR REGISTRATION

More Information:



CONTACT US -

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OUR SERVICES

GENOMICS SERVICES

- Sequencing Services
- PCR & Real Time PCR Services
- · Gene Cloning
- · Genotyping Services
- Epigenetic Analysis
- Microbiome Analysis
- Nutrigenomics Analysis
- Plant Genomics

PROTEIN CHEMISTRY

- Protein Purification
- Protein Analysis
- Peptide Synthesis
- Peptide Modification
- Peptide Labelling
- Antibody Purification
- Enzyme Production
- Enzyme Analysis

BIOLOGICAL ASSAY

- In-Vitro Cell Assay
- Microbial Assay
- Antioxidant Assay
- Oxidative Stress Assay
- Toxicity Assay
- Nanotechnology Assay
- Bio-Chemical Assay
- Immunology Assay

ANALYTICAL SERVICES

- HPLC Analysis
- GC Analysis
- Mass Spectrometry Analysis
- Vitamin Analysis
- GMO Analysis
- Amino Acid Analysis
- Allergen Analysis
- Trace Analysis

OUR PRODUCTS

- Molecular Biology Reagents
- Biochemical Analysis
- Protein Analysis Reagents
- Cell Culture Products
- Plant Research Products
- Lab Equipment