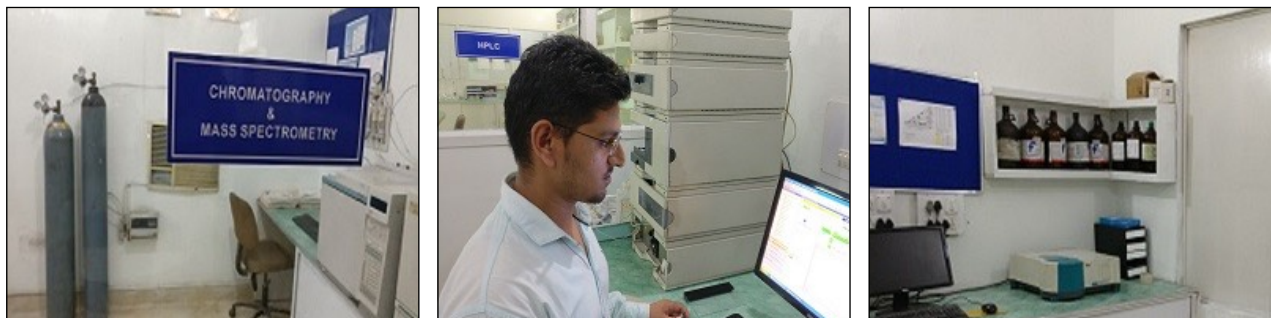


INDUSTRY READY TRAINING PROGRAMS

The overall goal of the Food Biologist training program is to provide the trainee with the skills they will need to provide appropriate food testing and management for a wide variety of food and beverage products.



EMPLOYMENT OPPURTUNITIES:

- Research & Development
- Analytical Testing lab
- Molecular Diagnostics
- Industry - Food, Pharmaceutical, Ayurveda, Cosmetics and Biotechnology
- Academic Institutions

DURATION : 250 Hours (2 - 3 Months) **Timings :** Monday - Saturday (9 A.M to 5 P.M)

IMPORTANT NOTES :

- **This training program have the potential to make you employable**
- **As a part of our training program, we may suggest your name to our clients against available vacancy**
- **This training is limited to skill development only and we do not assure you for employment or campus interview**
- **Our prime motive is “Bridging Gap Between Industry & Academia”**

NAME OF TRAINING PROGRAM	DURATION	TRAINING FEE
Advance Training in Molecular Biology Research	3 Months	Rs 25,000 / -
Advance Training For Food & Beverage Industries	3 Months	Rs 25,000 / -
Advance Training For Pharmaceutical Industry	3 Months	Rs 25,000 / -
Advance Training For Forensic Science & Law	3 Months	Rs 25,000 / -
Advance Training For Cosmetic & Perfume Industry	3 Months	Rs 25,000 / -

ADVANCE TRAINING FOR MOLECULAR BIOLOGY RESEARCH

COURSE CONTENT

UNIT I : LAB SAFETY PROCEDURES

Basics of Genetic Engineering , Lab safety and Procedures , Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents Discussion of ethical, legal, and social issues involved in molecular biotechnology.

UNIT II : EXTRACTION , QUANTIFICATION & PURIFICATION OF DNA , RNA , mRNA, cDNA

Extraction of Nucleic Acid - Both DNA & RNA Quantitative & Qualitative Analysis of Nucleic Acid - DNA & RNA Electrophoresis , Gel Docking or imaging . Quantitative analysis by spectrometer – For DNA – Measure Absorbance at 260 & 280 nm For RNA – Quantitative Analysis by Orisinol Method

mRNA Purification & cDNA

Preparation Note - You will be suggested to extract best quality nucleic acid for further use in PCR , Real Time PCR , cDNA Preparation , Sequencing , Microarray . All nucleic acid should pass strict quality check .

UNIT III : BIO INFORMATICS TOOLS & TECHNIQUES

Primer Designing, Vectors , Selection of Restriction Sites, Virtual PCR, Bioinformatics tools & Techniques , Gel Analysis Software , Vector Selection Software Real Time PCR - Primer designing Tool , Software to run Real Time PCR , Data Analysis Microarray - Microarray Instrument Control and Data Analysis Software

UNIT IV : HANDLING OF PCR AND REAL TIME PCR

PCR - Preparation of reaction mixture and its safety for cross contamination , Optimisation of PCR Reaction – Melting Point , GC Content , Concentrations and Cycles , Sample run , Data Analysis.

Real Time PCR - Reaction setup for real time PCR, selection of quantification – relative or absolute , Melting curve analysis , SYBR Green Assay , Sample run.

UNIT V : INTRODUCTION TO MICROARRAY PLATFORM

Microarray Platform - Microarray Instrument Control , cDNA Preparation , Hybridisation with used chip or array for learning and data analysis .

UNIT VI : EXPRESSION STUDIES & APPLICATIONS

Genetic Expression Studies through PCR – 16S rDNA Analysis, Conventional PCR Method , Nested PCR , PCR Multiplexing etc. mRNA Purification , cDNA Preparation , Real Time PCR assay and its different applications in molecular genetics.

UNIT VII : GENETIC TOXICOLOGY & APPLICATIONS

Bioassay Development : Basics of Chromatography : Column Chromatography , Thin Layer Chromatography , HPLC , Gas Chromatography & Mass Spectrometry

Bio separation Assays by HPLC : Sample preparation , Introduction to separation techniques , SPME Separations , Method Development for mutagenesis assay, Analysis of genetic mutagenesis assay by HPLC

DNA Methylation Studies - Bisulfites modification of DNA , Bisulfites modification in nanogram quantities of DNA , DNA Methylation specific PCR assay .

UNIT VIII : RECOMBINANT DNA TECHNOLOGY

Isolation of pUC18 plasmid from TOP10-pUC18 E coli cells , Restriction digestion of pUC 18 and λ DNA , Purifying pUC18/Hind III/ EcoR I digest by gel elution , Ligating the linearized plasmid - pUC18 and the insert λ DNA. , Preparation of competent cells , Transformation of TOP10 cells with the pUC18- λ DNA ligated product Colony PCR : To amplify the inserted λ DNA digest in pUC18 vector

UNIT IX : cDNA LIBRARY CONSTRUCTION

Extraction of RNA , Purification of mRNA through Oligo-dT Column Chromatography, cDNA Construction , Incorporation of cDNA into a vector , Cloning of cDNAs

UNIT X : IPR & BIOTECHNOLOGY REGULATORY ETHICS & GUIDELINES FOR GENETICS RESEARCH



ADVANCE TRAINING FOR FOOD INDUSTRY & RESEARCH

COURSE CONTENT

UNIT 1 : FOOD LAB SAFETY , STANDARDS , REGULATORY AND SOP'S

Law of Food Safety and Standards Food Products Regulatory Bodies Standard Operating Procedures in Food Analysis

UNIT 2 : QUALITY CONTROL AND QUALITY CHECKS IN FOOD MICROBIOLOGY

Quality Control Checks in Food Microbiology - New Methods , Comparison of Plate Counts , Duplicate Analysis , Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures Total Coliform Analysis in Food & Documentation of Coliform Data.

UNIT 3 : HANDS ON LEARNING ON MICROBIOLOGY TECHNIQUES

Aerobic Mesophilic Plate Count – Preparation of Food homogenate , Dilution , Pour Plating , Incubation , Counting Colonies , Calculation , Result Analysis. Analysis of Aciduric Flat Sour Spore Formers in Food

UNIT 4 : DETECTION OF FOOD PATHOGENS BY PCR TECHNOLOGY

Introduction to PCR , Primer Designing & Selection , PCR Optimisation & Troubleshooting , PCR Run for Reactions , Analysis of PCR Results Detection of Food Pathogens by PCR

UNIT 5 : DETECTION OF FOOD PATHOGENS BY REAL TIME PCR TECHNOLOGY

Real Time PCR Technology – Introduction to Real Time PCR , Primer Designing for Real Time PCR , Application of Real Time PCR in Food Genetics , Real Time PCR Run For Food Samples , Data Analysis

FOOD CHEMISTRY & RESEARCH

UNIT 6 : QUALITY CONTROL AND QUALITY ASSURANCE

Quality Control Checks in Water - Physical and Chemical Analysis , Initial Method Validation , On Going Method Validation , Laboratory Blanks , Duplicate Determinations , Calibrations , Q.C. Calculations , Q.C. Charts etc. Operation and Calibration of Meters : pHMeter (Hanna , Thermo) , Conductivity Meter , Dissolved Oxygen Meter , Spectrophotometer , Pipettes , Turbidity Meter etc.

UNIT 7 : LEARNING ON HPLC , GC , SPECTROSCOPY AND OTHER TECHNIQUES

Analysis of Food Samples by HPLC – Basics of HPLC - Sample Preparation , Gradient Making , Parts of HPLC , Troubleshooting and Maintenance , Operating Procedure of HPLC , Run the sample in HPLC . Data Analysis

Analysis of Food Samples by Gas Chromatography – Basics of GC - Sample Preparation , Parts of GC , Troubleshooting and Maintenance , Operating Procedure of GC , Run the sample in GC , Data Analysis

Analysis of Food Samples by Spectroscopy –

Basics of Spectroscopy - Sample Preparation , Calibration and Calibration Curve , Recovery Percentage etc. Analysis by Thin Layer Chromatography – Sample Preparation , Solvent Selection , Spray Selection , Visualisation and analysis of TLC bands.

UNIT 8: ANALYSIS OF AMINO ACIDS, VITAMINS & NUTRACEUTICALS

Analysis of Fat , Protein , Carbohydrate , Lipids , Sugars , Vitamins etc. Analysis of Amino Acids in Food Samples.

Analytical Method – HPLC , GC , Spectroscopy and other biochemical methods.

UNIT 9 : ANALYSIS OF ADULTERATION IN FOOD PRODUCTS

Analysis of adulteration in Fat & Oils Analysis of adulteration in Pulses Adulteration in Vegetables

Analytical Method – HPLC , GC , Spectroscopy and other biochemical methods.



ADVANCE TRAINING FOR PHARMACEUTICAL & HERBAL INDUSTRY

COURSE CONTENT

UNIT I : LAB SAFETY, CHEMICAL HANDLING, CALIBRATION AND RECORD MAINTENANCE

Basics of chemical lab safety and Procedures , Handling of Equipments , Preparation of Chemical & Reagents , chemical hazards and safety , calibration procedures , record maintenance and data handling . Preparation of Buffers, Acid-Base Equilibrium, pH, Buffer System, Charge, pI and pKa, Value, Quantitative determination of pharmaceuticals .

UNIT II : EXTRACTION AND SAMPLE PREPARATIONS

Introduction - What are bio actives ? , source of bio actives , pharmaceutical salts and API etc. Extraction of Bio active from Plant , Microorganism , Fruit or any biological source.

Extraction Procedures - Distillation, Soxhlet Extraction , Vacuum Rotary Evaporation , Solid Phase Micro Extraction , Centrifugation, Digestion etc.

Sample Preparation - Optimisation of sample preparation methods for sample analysis

UNIT III - BIOCHEMICAL ASSAY FOR QUALITATIVE ANALYSIS

Qualitative assay of carbohydrate: Molisch, Fehling, Benedict, Barfoed, mucic acid, Iodine, Seliwanoff, Bial, Osazone Quantitative determination of carbohydrate , Determination of disaccharide, Lactose , Sucrose , Determination of Lipids; triglycerides , Test of Fatty Acids ,

Determination of Vitamin C , Determination of Vitamin E , Determination of serum phosphate .

Assay of Alkaloids, Flavonoids, Glycosides, Free Glucose, tannins, Anthraquinone, Saponins, Phenols etc.

UNIT IV : BIO BURDEN ASSAY OF PHARMACEUTICALS AND ANTI MICROBIAL ACTIVITY IN BIO-ACTIVES

Regulatory Compliance of Microorganisms in raw materials, Risk assessment, Microorganisms in manufacturing environment, current GMP, Microbial contamination in cosmetic products. Microbial considerations in product formulation. Microbiological evaluation: **Total microbial count, Isolation and identification of microorganisms** specified in BIS guidelines from products and raw materials & Determination of Microbial Load in finished product Analysis.

Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures **Total Coliforms Analysis in Food & Documentation of Coliform Data**

Microbial Analysis for different bio-pharmaceutical Products , Biochemical Characterisation and data analysis , Microbial Detection through PCR (16S Rdna) Antimicrobial assay development for bio actives

UNIT V : INTRODUCTION TO SPECTROSCOPY AND CHROMATOGRAPHY

Introduction of Spectroscopy - Sample Preparation , Calibration , Standard Curve , Sample run and data analysis . Introduction of Chromatography - How to separate bio active ? , Preparation of Samples , Solvent selection , selection of stationary phase , selection of mobile phase , Column Chromatography , Thin Layer Chromatography

Introduction of HPLC - Introduction to chromatography and chromatographic process-four modes of chromatography - reversed-phase, normal phase, ion exchange and size exclusion, Instrument operation- each part of an HPLC instrument in detail – including the solvent delivery system, sample injection, connecting tubing and fittings, commonly used detectors .

Introduction of GC - The theory of GC, The GC System, Column types and packings, Mobile phases, the chromatogram, Familiarisation with the instrument, Basic Operation

UNIT VI - METHOD DEVELOPMENT FOR PHARMACEUTICALS AND BIO-ACTIVES

Sample solvents, Column selection, Partition coefficient, Mobile phase selection, Gradients, Effect of flow rate, Temperature effects and Sample preparation. Resolution, Efficiency, Asymmetry, Capacity factor, Selectivity, Signal to noise ratio, Precision and accuracy,

System suitability limits and manual calculation of parameters, setting up software to perform system suitability calculations.

UNIT VII - HPLC AND GC ANALYSIS OF PHARMACEUTICALS AND BIO-ACTIVES

HPLC Analysis of Tablet , Syrup and antibiotics , bio active compound - Sample preparation , sample run and data analysis as pharmacopoeia standard. GC Analysis of pharmaceuticals and bio active compound Sample preparation, sample run and data analysis as pharmacopoeia standard.

ADVANCE TRAINING FOR FORENSIC SCIENCE & LAW

COURSE CONTENT

UNIT 1: BASICS OF FORENSIC LABORATORY

Basics of Forensic Laboratory: : Evidence Collection methodology , Evidence containers , Lab safety and Procedures : Biological lab Safety , Chemistry Lab Safety , Forensic Record Maintenance : Understand the importance of the maintenance of forensic records from crime science to court , Forensic Record Formats , Documentation of Scientific evidence : Draft petition with the admission of scientific evidence , prosecution strategy ,

UNIT 2: HANDLING OF FORENSIC SAMPLES

General Procedures of Sample Handling : Types of Evidence Examined ,Planning the Examination Evidence Processing , Note Taking & Report Writing SOP for Evidence Collection : Collection of Blood , Collection of Hairs & Fibers , Seminal Fluid Collection , Collection of Body Fluids , Evidence Collection Guidelines Evidence Packaging Guidelines.

Real Time PCR Technology – Introduction to Real Time PCR , Primer Designing for Real Time PCR , Application of Real Time PCR in Food Genetics , Real Time PCR Run For Food Samples , Data Analysis

Preparation of Extract - Blood Stains , Preparation of Extract from Calcified Tissues , Preparation of Extract from Soft Tissues. Precipitin Tube Method , Double Diffusion , Cross Over Electrophoresis , Documentation of Forensic Samples

UNIT 3 : OPTIMISATION OF NUCLEIC ACIDS EXTRACTION FOR FORENSIC SAMPLES

Extraction of DNA for Forensic Analysis - DNA, RNA, Mitochondrial DNA (Any probative biological sample that has been stored dry or frozen, regardless of age, may be considered for DNA analysis Quantitative & Qualitative Analysis of Nucleic Acid - DNA Electrophoresis , Gel Docking or imaging and spectrometer. Purification of Nucleic Acids – Column Purification , Digestion etc. Forensic Sample For Analysis - Hair , Nail , Sputum , Blood , Plant , Microorganism etc.

UNIT 4 : ANALYSIS OF FORENSIC SAMPLES BY PCR AND REAL TIME PCR

Basic Bioinformatics Tools - Primer Designing, Vectors , Selection of Restriction Sites, Virtual PCR, Bioinformatics tools & Techniques , Gel Analysis Software , Vector Selection Software, Q-PCR Primer designing Tool , Software to run Real Time PCR , Data Analysis

DNA Profiling - Preparation of reaction mixture and its safety for cross contamination , Optimisation of PCR Reaction – Melting Point , GC Content , Concentrations and Cycles , Sample run , PCR analysis & DNA bar coding, Dendrogram Generation, Similarity & Dissimilarity Matrix , Data Analysis

cDNA Construction Purification of mRNA from total RNA , first strand cDNA synthesis or construction of cDNA

Real Time PCR Analysis

Introduction to Real-time PCR & Applications , Real-time PCR reaction setup , Construction of a standard curve: Bio-statistics principles; Linear regression , Standard melt curve analysis ,High resolution melt curve analysis . Analysis of SYBR Green real-time PCR results

UNIT 5: ISOLATION , PURIFICATION AND ANALYSIS OF TOXINS

Classification of Toxins - Antibiotics , Drugs , Acids , Snake Venoms , Plants Toxins , Heavy Metals ,Mineral Oils Organic Toxic Compounds – Acetaldehyde , Acetone , Benzene , Alcohol , Chloroform , Phenol etc.etc.

Extraction of Toxins - Different extraction methods for volatile , semi volatile and non volatile samples through digestion , soxhlet extraction , distillation , Vacuum Rotary Evaporator , Solid Phase Micro Extraction etc.

Chromatography Separation of Toxins - Column Chromatography , TLC , HPLC , Gas Chromatography , Solid Phase Extraction etc.

UNIT 6 : EXAMINATION OF FIRE / ARSON CASES

Extraction of Fire / Arson Forensic Analysis - Detection and identification of inflammable materials or their residues in the exhibits of fire/arson cases like ; petrol, kerosene, diesel, alcohols, thinners, solvents etc.

Sample Preparation and Gas Chromatography : Method Development for the analysis of petrol, kerosene, diesel, alcohols, thinners, solvents etc.

UNIT 7 : EXAMINATION OF CEMENT , MORTAR AND CONCRETE

Sampling Procedure - Collection procedures of forensic samples of cement , concrete & mortar

Chemical Assay : Thymolphthalein Test of cement , Determination of `Calcium` by EDTA Titration , Direct Cement % by acid titration , Testing of Mortar by Titration & EDTA

UNIT 8 : ANALYSIS OF CHEMICALS IN TRAP CASES

Detection and identification of phenolphthalein, sodium ions, carbonate ions, calcium ions, anthracene etc

Test for Phenolphthalein : Chemical Assay , Folin-Ciocalteu's reagent test , Spectroscopic Determination , Extraction and TLC of Phenolphthalein , HPLC Analysis.

Separation and purification of Anthracene : TLC , UV and HPLC Analysis of anthracene

UNIT 9 : ANALYSIS OF ALCOHOL IN LIQUOR / DRINKS

Analysis of various types of alcoholic drinks/liquor in crime exhibits. Qualitative analysis of Liquor - Iodoform Test , Dichromate Test , Chromotropic Acid Test for methanol .

Quantitative analysis of alcohols by Spectroscopy , TLC , HPLC & Gas Chromatography.

UNIT 10 : ANALYSIS OF FATS AND OILS

Analysis and characterisation of various oils and fats for adulteration Qualitative analysis of Liquor – Chemical test for different oils and fats. Quantitative analysis of alcohols by Spectroscopy , TLC , HPLC & Gas Chromatography



ADVANCE TRAINING FOR COSMETIC & PERFUME INDUSTRY

COURSE CONTENT

UNIT 1: LAB SAFETY, PROCEDURES & REGULATION

Basics of Cosmetic Laboratory : Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents. Discussion of ethical, legal, and social issues involved in Cosmetic & Perfume Industry, Cosmetic & Drug Regulations

UNIT 2 : QUALITY CONTROL AND QUALITY CHECKS IN COSMETIC MICROBIOLOGY

Quality Control Checks in Cosmetic Microbiology - New Methods , Comparison of Plate Counts , Duplicate Analysis , Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures Total Coliform Analysis in Cosmetics & Documentation of Coliform Data.

UNIT 3 : HANDS ON LEARNING ON MICROBIOLOGY TECHNIQUES

Aerobic Mesophilic Plate Count – Preparation of Food homogenate , Dilution , Pour Plating , Incubation , Counting Colonies , Calculation , Result Analysis. Analysis of Aciduric Flat Sour Spore Formers in Food

UNIT 4 : DETECTION OF COSMETIC PATHOGENS BY PCR TECHNOLOGY

Introduction to PCR , Primer Designing & Selection , PCR Optimization & Troubleshooting , PCR Run for Reactions , Analysis of PCR Results Detection of Food Pathogens by PCR

UNIT 5 : DETECTION OF COSMETIC PATHOGENS BY REAL TIME PCR TECHNOLOGY

Real Time PCR Technology – Introduction to Real Time PCR , Primer Designing for Real Time PCR , Application of Real Time PCR in Food Genetics , Real Time PCR Run For Food Samples , Data Analysis

COSMETIC CHEMISTRY & RESEARCH

UNIT – 6 : QUALITY CONTROL AND QUALITY ASSURANCE

Quality Control Checks in Cosmetics - Physical and Chemical Analysis , Initial Method Validation , On Going Method Validation , Laboratory Blanks , Duplicate Determinations , Calibrations , Q.C. Calculations , Q.C. Charts etc. Operation and Calibration of Meters : pHMeter (Hanna , Thermo) , Conductivity Meter , Dissolved Oxygen Meter , Spectrophotometer , Pipettes , Turbidity Meter etc.

Analysis and characterisation of various oils and fats for adulteration Qualitative analysis of Liquor – Chemical test for different oils and fats. Quantitative analysis of alcohols by Spectroscopy , TLC , HPLC & Gas Chromatography

UNIT 7 - LEARNING ON HPLC , GC , SPECTROSCOPY AND OTHER TECHNIQUES

Analysis of Food Samples by HPLC – Basics of HPLC - Sample Preparation , Gradient Making , Parts of HPLC , Troubleshooting and Maintenance , Operating Procedure of HPLC , Run the sample in HPLC . Data Analysis

Analysis of Food Samples by Gas Chromatography – Basics of GC - Sample Preparation , Parts of GC , Troubleshooting and Maintenance , Operating Procedure of GC , Run the sample in GC , Data Analysis

UNIT 8 : ANALYSIS OF FINISHED COSMETIC PRODUCTS

Viscosity Analysis, Refractive Index, Test of Allergens, ph analysis, moisture analysis in cosmetic products, Test of Amino Acids, Analysis of antioxidants used in cosmetic products, Determination of preservatives in cosmetics.

UNIT 9 : TOXICOLOGY OF COSMETIC PRODUCTS

Test of Benzene, Test of BHT , Test of Formaldehyde etc. in finished cosmetic product, essential oil or fine fragrances Method – Spectroscopy , HPLC , GC

UNIT 10: DEVELOPMENT & ANALYSIS OF PERFUMERY PRODUCTS

Perfume Development, Purity Analysis of Essential Oil Identification of Adulterants, Purity Analysis, Formulation & Analysis of Fragrances Fragrance creation Strategies, Fragrance creation by natural oils, fragrance creation by synthetic compound, Novel Product Strategies, Quality analysis, Packaging Strategy, Marketing of Cosmetic Product



WHO MAY JOIN ?

Indian Aspirants From Biotechnology , Microbiology , Biochemistry , Life Science , Chemistry , Pharmacy ,Forensic Science , Food Science etc.

TRAINING FEE: Rs 25,000 /- (Payable in Two Instalments)


DURATION : 250 Hours (2 - 3 Months) **Timings :** Monday - Saturday (9 A.M to 5 P.M)

HOW TO APPLY –

Details of Documents For Registration :

1. Scan copy of Any identity proof along with University / College Identity Card / Aadhar Card etc.
2. Filled **Registration form** with photograph (Given in Last Page of Brochure)
3. **Registration fee** will be Rs 1000 / - paid through on line
4. After payment send all documents with payment receipt at : allelelifesciences@gmail.com or Whatsapp - 9891179928
5. We will send confirmation within specified time through e.mail or remind us if not received at our email.

ON LINE PAYMENT METHOD :

Payment By Internet Banking	Scan PAY TM Code
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 Or Pay Through UPI Address - allelelifesciences@upi	 allelelifesciences@upi

Registration Form

Name of Training Program :

Expected Date of Joining :

Candidate Details :

Name:

Father's Name:

Address :

Contact No :

Email:

Institution :

Qualification :

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 deposited is completely non refundable.
3. The industrial training fee includes the cost of chemical , reagents and study material costs.
4. I will deposit the service charges as decided by the company at the time of joining date of training program.
5. Students have to bear their own boarding/lodging /conveyance charges. We facilitate students in finding proper paying guest arrangements.
6. The trainees will have to bring their own lab coat and wear them all the time in the campus.
7. Trainees are selected on first come first serve basis
8. Trainees will maintain adequate discipline inside the lab premises.
9. Company will not be responsible for any medical, legal issues during the internship tenure.

DECLARATION

I _____ from _____
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 norms/lab etiquette during the training

Signature

Place: _____

Date: _____

For office use only

LAB FACILITY :

Our State of art facility is located in Industrial Area of Noida (NCR) . The lab / research facility is Total : 6000 Sq Feet

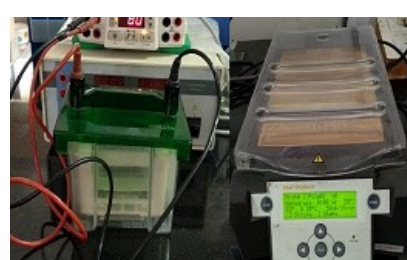
Affymatrix & Agilent Microarray Platform	Gene Expression Studies, Biomarker, Sequencing
Real Time PCR (ABI)	Gene Expression, Sequence Detection
PCR (ABI, Biorad , Eurofins) - 5 in numbers	Amplification of nucleic acids
Bioanalyser & Spectrophotometer (Thermo)	Quantification of Nucleic Acids
Gel Documentation System	Visualisation of Nucleic Acids, PCR Products etc.
Electrophoresis & Power Supply (Biorad) - 7 Sets	Separation of Nucleic Acids & Other Arrays
DNA Concentrator (Thermo Speedvac)	Nucleic Acid Extraction
Centrifuge, High Speed Centrifuge - 8 Nos	Sample Preparation
PCR Station and other accessories	

Biorad Profinia Affinity Chromatography	Affinity Chromatography - IMAC, GST, Antibody
Biorad Biologic Low Pressure Chromatography	Size Exclusion, Ion Exchange, Affinity etc.
Preparative HPLC (Thermo) , Agilent 1100	Bulk Protein Purification & Analysis
GE Amersham 2-D Electrophoresis System	Protein Characterisation
Immunoblot, SDS-PAGE , Biorad HV Powerpac	Visualisation of Nucleic Acids, PCR Products etc.
Mass Spectrometry , ELISA, Immunoassay	Protein Identification
Cryo Preservation Facility & Common Facility	Sample Storage & Preparation

Agilent HPLC System - PDA, FLD & ECD Detector	Separation and analysis of molecules
Agilent GC with FID & FPD Detectors	Separation and analysis of molecules
Thermo Prep HPLC with Dual Pump & UV-Vis	Bulk Purification & Analysis
Shimadzu GC with FID & NPD Detector	Separation and analysis of molecules
Triple Quad GC-MS System (Agilent)	Analysis of Semi Volatile & Volatile Compound
LC-MS-MS (API Sciex)	Analysis of Non Volatile Compound
Varian Carry Spectrophotometer	Analytical Tool for various purpose
Thermo Helios Spectrophotometer	Analytical Tool for various purpose
Vacuum Rotary Evaporator (Buchi)	Sample Preparation

OTHER ANALYTICAL FACILITY :

Refractometer , Flame Photometer (Toshniwal), Karl Fisher Titrator (Sistrionics), Potentiometer, Polarimeter , Tintometer ,Viscometer , Kjeldahl Distillation Unit , Kjeldahl Digestion Unit , Ion Selective for Fluoride Analysis (Thermo Orion) , Nephelometer , Soxhlet Extraction , Rotatory Vaccum Evaporator with chiller , etc.



Microbiology & Cell Culture Facility : Vertical Laminar Air Flow (4x2x2) , Horizontal Laminar Air Flow (2x2x2) B.O.D. Incubator (Julabo) , CO2 Incubator (Jauan) , Orbital Incubator Shaker, UV Chamber , Incubator, Colony Counter , Colorimeter , Muffle Furnace , Hot Air Oven , Desiccators, Binocular Microscopes and , Lypholizer

Biochemistry / Organic Synthesis Chemistry Lab :

Spectrophotometer (Thermo Heleus Alpha) , Analytical Balance (Sartorius) , Ph Meter (Thermo Orion) , Ion Selective (Thermo Orion) , Conductivity Meter (Thermo Orion) , Dissolved Oxygen Meter (Thermo Orion) , Turbidity Meter, Autoclaves, Hot Air Oven , Hot Plate , Magnetic Stirrers , Pipette Washer , Shaking Machine , Water Bath , Colorimeter , Flame Photometer , etc.

Lab Water Purification : Millipore Milli Q System

Clinical Biology Lab : Haematology Analyser , Automatic Immunoassay, Haematology HPLC Biorad Variant II



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Locate at Google Map : [Googe Map to Follow](#)