



Industry Ready Training Food Science

Our Benefit :



Get Certificate



On Time Training



**100 % Hands on
learning**



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 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 for Food Science & Technology.



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 their domain. This training will help you to qualify for Food Certified Analyst Exam.

WHO WILL BE BENEFITED

- Career opportunities in Food Lab
- Certified Food Analyst Exam (FAE & JAE)
- You may consider as Pre Ph.D. Program

DURATION & FEE :

- 3 Months
- INR 25,000

HANDS ON EXPERIENCE ON MAJOR TOOL & TECHNIQUES:

- Food Laws & Regulations, Documentation, Basic Microbiology, Identification of food pathogens, Advance Microbial Techniques.
- Nucleic Acid Extraction Techniques, PCR & Real Time PCR Analysis, ELISA, PCR Multiplexing and Identification by advance techniques.
- Food Analytical Procedures; Moisture, Crude Fat, Total Protein, Carbohydrate, Peroxidase etc.
- HPLC - PDA Analysis , TLC Analysis and other Food Analytical Procedures
- Gas Chromatography Analysis of volatile or semi volatile compounds of forensic samples.

Basics of Microbiology

- Day 1: Food Laws and Standards of India and International Food Laws - Phase I
- Day 2: Food Laws and Standards of India and International Food Laws - Phase II
- Day 3: Planning Organization and setting up of Food Analysis Laboratory including NABL / ISO / IEC-17025: 2017 and laboratory safety
- Day 4: Principles of Food Preservation, Processing and Packaging
- Day 5: Food Analytical Procedures , Chemical & Reagent Preparation



Proximate analysis of a food sample

- Day 1: Determination of Total protein in Protein Rich sample
- Day 2: Determination of Moisture in Food Sample
- Day 3: Determination of Total Fat or Lipid
- Day 4: Determination of Total Solids or Ash
- Day 5: Determination of Crude fibre



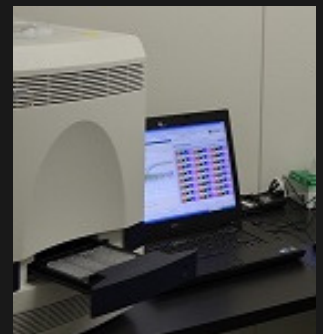
Determination of chemical constituents of foods

- Day 1: Estimation of titrable acidity
- Day 2: Estimation of mineral content
- Day 3: Determination of soluble protein content by Lowry method
- Day 4: Estimation of Total phenolic compounds
- Day 5: Determination of peroxide value



Determination of chemical constituents of foods

- Day 1: Determination of Ascorbic Acid in food sample
- Day 2: Determination of Total Titratable Acidity
- Day 3: Determination of Gluten
- Day 4: Determination of Reducing Sugar
- Day 5: Determination of Non Reducing Sugar



Microbial Analysis in Food Sample

- Day 1: Microbial Standards Food Regulations Act 1984 & Media, Sterilization and Disinfectants
- Day 2: Preparation of Media, Dilution, Plating, Incubation & Colony Counting
- Day 3: Most Probable Number Method (MPN) & Counting
- Day 4: Detection, Determination and Confirmation of Coliforms, Faecal coliforms and Escherichia coli in Foods and Beverages
- Day 5: Direct Microscopic Count of yeast , mold, spores & bacteria



Bio-Chemical Assay For Microbial Screening

Day 1: Enumeration of microorganism in Food Sample

Day 2: Gram Staining & Microscopy of microbes

Day 3: Triple Sugar Iron Agar & Starch Hydrolysis

Day 4: Lipid Hydrolysis & Casein Hydrolysis

Day 5: In-silico studies of the positive or negative data for microbial identification



Bio-Chemical Assay For Microbial Screening

Day 1: Detection and Confirmation of Shigella species

Day 2: Detection, Determination and Confirmation of Staphylococcus aureus

Day 3: Detection and Confirmation of Sulfide Spoilage Spore

Day 4: Detection and Determination of Thermophilic Flat Sour Sporeformers

Day 5: Estimation of Yeasts and Molds in Foods and Beverages



Metagenomics & Microbial Technology

Day 1: PCR Multiplexing Analysis of Food Sample

Day 2: Characterisation of microbes through 16s rDNA - Phase I

Day 3: Characterisation of microbes through 16s rDNA - Phase II

Day 4: Characterisation of microbes through 16s rDNA - Phase III

Day 5: Data Q.C & Manipulation, Mapping, Metagenomic Analysis, Genome Diversity & Phenotype Association



Microbial DNA, PCR & Q-PCR Analysis

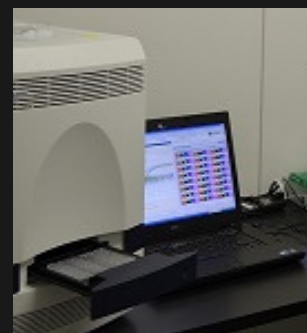
Day 1: Extraction, Purification and optimisation of both food microbial DNA

Day 2: Qualitative analysis by electrophoresis, gel Docking and quantitative analysis

Day 3: PCR Technology for Meta-genomic Study

Day 4: Real Time PCR Analysis of microbes

Day 5: Data Analysis



Metagenomics & Microbial Technology

Day 1: PCR Multiplexing Analysis of Food Sample

Day 2: Characterisation of microbes through 16s rDNA - Phase I

Day 3: Characterisation of microbes through 16s rDNA - Phase II

Day 4: Characterisation of microbes through 16s rDNA - Phase III

Day 5: Data Q.C & Manipulation, Mapping, Metagenomic Analysis, Genome Diversity & Phenotype Association



Ist Week - Basics of Food Analysis Lab & Analytical Procedures

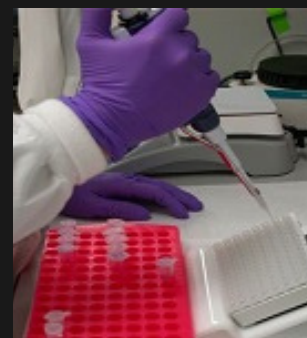
Day 1: Lab safety and Forensic Procedures , Chemical & Reagent Preparation

Day 2: Amount of crude protein in food sample

Day 3: Total carbohydrates in food sample

Day 4: Amount of crude fiber in food sample

Day 5: Cut out test for Canned Products



IIInd Week - Sensory Evaluation & Other Analysis

Day 1: Moisture Content analysis in Food Sample

Day 2: Total ash analysis in food sample

Day 3: Acesulfame saccharin and cyclamate Detection and Determination in Sweets

Day 4: Sensory Evaluation - Taste Identification Tests

Day 5: Sensory Evaluation - Taste Intensity Test



IIIrd Week - Estimation of Food Additives & Preservatives

Day 1: Analysis of Benzoic & Sorbic Acid in Food Sample

Day 2: Estimation of Benzoic acid in the presence of saccharin

Day 3: Analysis of Hydroxy Benzoates (Parabens) in Food sample

Day 4: Analysis of Cyclamate in food sample

Day 5: Aspartame analysis in sample



IVth Week - Food Sample Analysis by HPLC & Gas Chromatography

Day 1: Data Analysis of Real Time PCR for SNP Analysis

Day 2: SNP analysis by HPLC (PCR Product)

Day 3: BHT analysis by High Performance Liquid Chromatography

Day 4: Organochlorine Pesticides analysis by Gas Chromatographic (GC) Method

Day 5: Data Analysis of GC & HPLC



Cost of Training : INR 25,000 / -

Duration : Three Months



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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



allelelifesciences@upi

THANK YOU FOR REGISTRATION

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

Trainee Signature

More Information :

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

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OUR SERVICES

GENOMICS SERVICES

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- 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