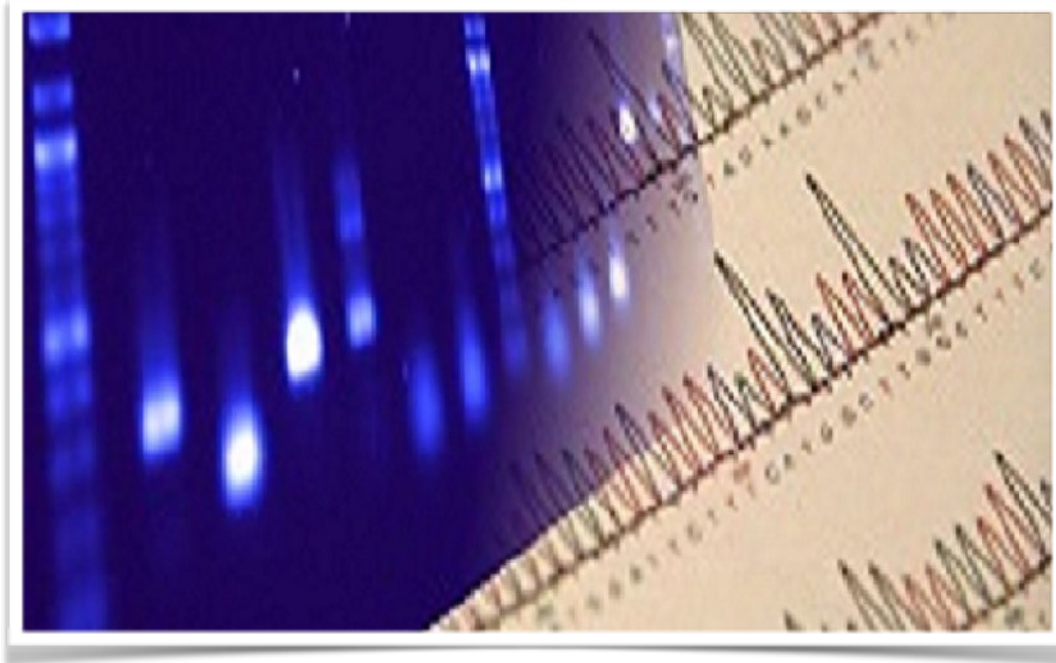


Internship In Microbiology & Microbial Technology

Bridging Gap Between Industry & Academia



Meta genomics & Microbial Technology is a rapidly growing field of research that had a dramatic effect on the the way we view and study the microbial world. Meta genomics has the potential to substantially impact industrial production.

It has proven to be rich and comprehensive and is making important contributions in many areas including Environmental Biotechnology, Industrial Bio-Products, Plant Biotechnology, Bioremediation, Natural Products and Medicine.

OBJECTIVES :

- To develop the skill with latest technologies used in Microbiology Research
- Lab facility with dedicated scientific advisory and research assistants
- Documentation of all experimental work
- Data Handling and interpretation

1

MICROBIOLOGY

Important tool and technique for quality analysis

2

METAGENOMICS

Identification of Microbes with latest technology

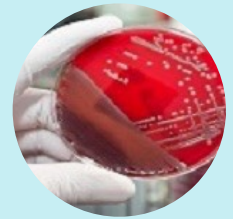
3

RESEARCH

Research tool for the identification of new strains in microbiology

Meta Genomics

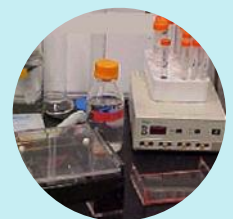
16S rRNA Analysis



Q-PCR Analysis



PCR Analysis



Healthcare

Microbial Research

Strain Identification

Industrial Microbio

UNITS TO BE COVERED : - All Units are compulsory For Training in Genomics & Molecular Biology

Unit I - Lab safety and Procedures :

Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents. Discussion of ethical, legal, and social issues involved in genomics study and research.

Unit II - Isolation & Enumeration of Microorganism

Microbial Growth- Isolation & Plating Techniques, Single colony isolation, Determination of microbial count, Growth Curve Analysis

Unit IV - Bio-Chemical Characterisation For Preliminary Screening

Basic biochemical testing; IMVIC, Reducing Sugar, Gram Staining, Morphology, Triple Sugar Iron Agar , Starch Hydrolysis, Lipid Hydrolysis, Casein Hydrolysis and many more , **In-silico studies of the positive or negative data for microbial identification**

Unit III - Meta-Genomics & NGS Data Analysis

Next Generation Sequence Data Analysis (amplicon based), Amplicon Target Population Structure, Meta-genome Shotgun Processing, Q.C of meta-genomics Sequence Data, **Real Time PCR Primer Design**, Q-PCR Data Handling,

Unit V - 16S / 23S / 28S rRNA Analysis

DNA Extraction & Quantitation for Metagenomic Analysis, PCR and its Optimisation, Thermostable DNA Polymerases; PCR Melting Curve Analysis , Amplification of Genomic DNA, PCR Multiplexing , Elution of PCR amplicon , Purification of PCR Product for Sequencing

Unit VI - Functional Meta-genomics

Quantitative or Real Time PCR can be coupled with 16S rRNA species specific primers to assess species population

PROJECT WORK :

We will provide a project work of your interested area, our assigned projects will be on product development, basic research and novel idea . **We do respect and welcome all feasible ideas** suggested by you for technology development in life science research.

TECHNIQUES COVERED IN THIS PROGRAM :

Nucleic Acid Extraction ,Optimisation, Electrophoresis, Imaging and Data Analysis, DIN/RIN Quantitative Analysis , Advance Bioinformatics tools and softwares, PCR & Real Time PCR Assay Development and Data Analysis, rDNA Technology, cDNA Construction, Sequencing & Next Generation Sequencing Data Analysis

BENEFITS OF THE TRAINING PROGRAM :

1. Research & Development in Microbiology
2. Microbiology with latest tools & Techniques
3. Industry oriented learning (Meta-genomic approach save time in analysis of microbes)
4. Bridging Gap in Academic Program
5. Boost your confidence

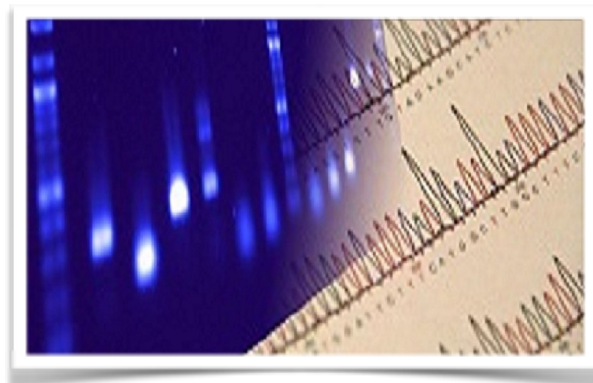
INFORMATION TO APPLY FOR THE PROGRAM

WHO MAY JOIN :-

Any enthusiast and dedicated learner from life science, biotechnology, chemistry or applied sciences

SELECTION CRITERIA:-

First come first serve basis



TRAINING FEE :

Rs 10,000 / - For 30 Days Training & Rs 12,000 /-For 45 Days (Training + Project Work)

HOW TO APPLY –

Details of Documents :

1. Any identity proof along with University / College Identity Card
2. Filled **Registration form** with photograph (Given in Brochure)
2. Registration fee will be Rs 1000 / - paid through cheque or on line payment

How to pay Registration Fee :

1. Cheque will be in favour of **Allele Life Sciences Private Limited**
2. **For on line payment detail send request at : allelelifesciences@gmail.com**

How to send document :

Those who pay through cheque send all documents at following address :

Allele Life Sciences Pvt. Ltd.

C - 59 , Sector - 10 , Noida
Uttar Pradesh - 201301 , IN
Ph.No : + 91-9891179928

Those who opt on Line registration send scan copy of all documents and receipt of online payment at : allelelifesciences@gmail.com

Note : We will send confirmation within specified time. If not received send a reminder mail.

For Any other query mail at : allelelifesciences@gmail.com or WhatsApp - 9891179928

Registration Form is Given at nest page



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.

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