Microbiology Course Finishers Training Program

The Microbiology Course Finishers Training Program is designed for those who have completed basic microbiology training, providing advanced, hands-on review and specialization in areas like molecular biology, bioprocessing, clinical diagnostics, and quality control.

Note: Below modules are designed keeping high end industrial professionals into consideration. Please refer individual protocols below for affordable prices.

Advanced Molecular Microbiology Techniques

Kindly review the fees outlined for the individual protocols listed in this module.

- Gene cloning and plasmid vector construction
- CRISPR-Cas gene editing for advanced applications
- Protein expression and purification in microbes
- Gene expression analysis and regulatory studies

Industrial Microbiology and Quality Control

Kindly review the fees outlined for the individual protocols listed in this module.

- In-depth quality control for microbial bioprocesses
- Bioreactor operation and environmental monitoring
- Downstream processing and product purification
- Microbial assays for bioproduct quality assurance

Clinical Microbiology and Pathogen Detection

Kindly review the fees outlined for the individual protocols listed in this module.

- Molecular diagnostics for infectious diseases
- Antimicrobial resistance profiling methods
- Immunoassays and ELISA techniques in diagnostics

- Advanced biochemical assays for clinical pathogens

Environmental Microbiology and Ecological Impact

Kindly review the fees outlined for the individual protocols listed in this module.

- Microbial assessment in soil and water ecosystems
- Heavy metal resistance and detoxification techniques
- Microbial biofilm analysis in contaminated environments
- Environmental DNA (eDNA) analysis for ecosystem health

Food and Agricultural Microbiology

Kindly review the fees outlined for the individual protocols listed in this module.

- Application of HACCP in food microbiology labs
- Microbial quality control in food production
- Biofertilizer and biopesticide applications
- Soil microbial analysis for agricultural sustainability

Genomics and Bioinformatics in Microbiology

Kindly review the fees outlined for the individual protocols listed in this module.

- Bioinformatics for genomic data analysis
- 16S rRNA sequencing for microbial classification
- Genetic diversity and population analysis
- Annotation of microbial genomes and functional studies

Immunological Methods in Microbial Research

Kindly review the fees outlined for the individual protocols listed in this module.

- Western blotting for protein analysis
- Flow cytometry applications in microbiology
- Production of antibodies against microbial antigens
- Immunofluorescence for visualizing microbial structures

Analytical Techniques and Instrumentation

Kindly review the fees outlined for the individual protocols listed in this module.

- High-Performance Liquid Chromatography (HPLC)
- Gas Chromatography (GC) for microbial metabolites
- Spectrophotometry for concentration and purity analysis
- Microscopy and imaging techniques for microbial studies

Biochemical and Metabolic Profiling

Kindly review the fees outlined for the individual protocols listed in this module.

- Metabolomic analysis in microbial samples
- Protein extraction, purification, and quantification
- Metabolic pathway analysis in microorganisms
- Chromatographic techniques for biochemical profiling

Lab Management and Compliance

Kindly review the fees outlined for the individual protocols listed in this module.

- Standard Operating Procedures (SOP) for labs
- Instrument calibration and maintenance protocols
- Lab safety and biosafety protocols
- Quality assurance and regulatory compliance in microbiology

Individual Protocols Under Microbiology Course Finishers Training Program

1. Review of PCR, qPCR, and DNA sequencing | **Fee: Contact for fee**
2. Gene cloning and plasmid vector construction | **Fee: Contact for fee**
3. CRISPR-Cas gene editing for advanced applications | **Fee: Contact for fee**
4. Protein expression and purification in microbes | **Fee: Contact for fee**
5. Gene expression analysis and regulatory studies | **Fee: Contact for fee**
6. Fermentation optimization and scale-up | **Fee: Contact for fee**
7. In-depth quality control for microbial bioprocesses | **Fee: Contact for fee**
8. Bioreactor operation and environmental monitoring | **Fee: Contact for fee**

9. Downstream processing and product purification | **Fee: Contact for fee**
10. Microbial assays for bioproduct quality assurance | **Fee: Contact for fee**
11. Advanced pathogen identification techniques | **Fee: Contact for fee**
12. Molecular diagnostics for infectious diseases | **Fee: Contact for fee**
13. Antimicrobial resistance profiling methods | **Fee: Contact for fee**
14. Immunoassays and ELISA techniques in diagnostics | **Fee: Contact for fee**
15. Advanced biochemical assays for clinical pathogens | **Fee: Contact for fee**
16. Advanced biodegradation and bioremediation studies | **Fee: Contact for fee**
17. Microbial assessment in soil and water ecosystems | **Fee: Contact for fee**
18. Heavy metal resistance and detoxification techniques | **Fee: Contact for fee**
19. Microbial biofilm analysis in contaminated environments | **Fee: Contact for fee**
20. Environmental DNA (eDNA) analysis for ecosystem health | **Fee: Contact for fee**
21. Food pathogen detection and spoilage analysis | **Fee: Contact for fee**
22. Application of HACCP in food microbiology labs | **Fee: Contact for fee**
23. Microbial quality control in food production | **Fee: Contact for fee**
24. Biofertilizer and biopesticide applications | **Fee: Contact for fee**
25. Soil microbial analysis for agricultural sustainability | **Fee: Contact for fee**
26. Whole-genome sequencing for microbial studies | **Fee: Contact for fee**
27. Bioinformatics for genomic data analysis | **Fee: Contact for fee**
28. 16S rRNA sequencing for microbial classification | **Fee: Contact for fee**
29. Genetic diversity and population analysis | **Fee: Contact for fee**
30. Annotation of microbial genomes and functional studies | **Fee: Contact for fee**
31. ELISA and immunoassays for microbial detection | **Fee: Contact for fee**
32. Western blotting for protein analysis | **Fee: Contact for fee**
33. Flow cytometry applications in microbiology | **Fee: Contact for fee**
34. Production of antibodies against microbial antigens | **Fee: Contact for fee**
35. Immunofluorescence for visualizing microbial structures | **Fee: Contact for fee**
36. Advanced mass spectrometry in microbial analysis | **Fee: Contact for fee**
37. High-Performance Liquid Chromatography (HPLC) | **Fee: Contact for fee**
38. Gas Chromatography (GC) for microbial metabolites | **Fee: Contact for fee**
39. Spectrophotometry for concentration and purity analysis | **Fee: Contact for fee**
40. Microscopy and imaging techniques for microbial studies | **Fee: Contact for fee**
41. Enzyme kinetics and activity assays | **Fee: Contact for fee**
42. Metabolomic analysis in microbial samples | **Fee: Contact for fee**
43. Protein extraction, purification, and quantification | **Fee: Contact for fee**
44. Metabolic pathway analysis in microorganisms | **Fee: Contact for fee**
45. Chromatographic techniques for biochemical profiling | **Fee: Contact for fee**
46. Good Laboratory Practice (GLP) and data integrity | **Fee: Contact for fee**
47. Standard Operating Procedures (SOP) for labs | **Fee: Contact for fee**
48. Instrument calibration and maintenance protocols | **Fee: Contact for fee**
49. Lab safety and biosafety protocols | **Fee: Contact for fee**
50. Quality assurance and regulatory compliance in microbiology | **Fee: Contact for fee**

Please contact on +91-8977624748 for more details

Cant Come to Hyderabad? No Problem, You can do it in Virtual / Online Mode