

Soil Microbiology Advanced Training Program

The Soil Microbiology Advanced Training Program is designed for those with foundational knowledge in microbiology who want to gain expertise in advanced soil microbial techniques, bioremediation, and soil health management through a research-focused approach.

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

Advanced Microbial Analysis Techniques

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

- Quantitative PCR for soil microbial diversity studies
- Metagenomic analysis of soil samples
- High-throughput techniques for soil microbial identification
- Advanced microscopy for soil fungal and bacterial interactions

Bioremediation and Soil Contamination

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

- Selection and optimization of microbes for soil remediation
- Bioaugmentation and biostimulation for contaminated soils
- Monitoring and assessing microbial activity in polluted soils
- Case studies on successful soil bioremediation projects

Microbial Enzymology and Soil Health

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

- Enzyme activity assays for soil health monitoring
- Understanding enzymatic pathways in nutrient cycling
- Applications of enzymes in sustainable agriculture

- Correlating enzyme activities with microbial diversity

Soil Microbial Genomics

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

- 16S rRNA sequencing for bacterial community profiling
- Whole-genome sequencing for functional gene analysis
- Genome annotation and comparative genomic studies
- Applications of microbial genomics in soil health improvement

Applied Soil Microbiology in Agriculture

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

- Developing microbial consortia for pest control
- Applications of phosphate-solubilizing bacteria in agriculture
- Role of arbuscular mycorrhizal fungi in plant health
- Case studies on microbial solutions for soil fertility

Individual Protocols Under Soil Microbiology Advanced Training Program

1. Next-generation sequencing (NGS) for soil microbial communities | **Fee: Contact for fee**
2. Quantitative PCR for soil microbial diversity studies | **Fee: Contact for fee**
3. Metagenomic analysis of soil samples | **Fee: Contact for fee**
4. High-throughput techniques for soil microbial identification | **Fee: Contact for fee**
5. Advanced microscopy for soil fungal and bacterial interactions | **Fee: Contact for fee**
6. Microbial degradation of hydrocarbons and pesticides | **Fee: Contact for fee**
7. Selection and optimization of microbes for soil remediation | **Fee: Contact for fee**
8. Bioaugmentation and biostimulation for contaminated soils | **Fee: Contact for fee**
9. Monitoring and assessing microbial activity in polluted soils | **Fee: Contact for fee**
10. Case studies on successful soil bioremediation projects | **Fee: Contact for fee**
11. Advanced profiling of soil enzymes (urease, oxidoreductases) | **Fee: Contact for fee**
12. Enzyme activity assays for soil health monitoring | **Fee: Contact for fee**
13. Understanding enzymatic pathways in nutrient cycling | **Fee: Contact for fee**
14. Applications of enzymes in sustainable agriculture | **Fee: Contact for fee**
15. Correlating enzyme activities with microbial diversity | **Fee: Contact for fee**
16. Extraction and preparation of soil microbial DNA for genomics | **Fee: Contact for fee**

17. 16S rRNA sequencing for bacterial community profiling | **Fee: Contact for fee**
18. Whole-genome sequencing for functional gene analysis | **Fee: Contact for fee**
19. Genome annotation and comparative genomic studies | **Fee: Contact for fee**
20. Applications of microbial genomics in soil health improvement | **Fee: Contact for fee**
21. Using biofertilizers to enhance crop productivity | **Fee: Contact for fee**
22. Developing microbial consortia for pest control | **Fee: Contact for fee**
23. Applications of phosphate-solubilizing bacteria in agriculture | **Fee: Contact for fee**
24. Role of arbuscular mycorrhizal fungi in plant health | **Fee: Contact for fee**
25. Case studies on microbial solutions for soil fertility | **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