



Biotechnology Training Program

This Biotechnology Training Program offers a comprehensive introduction to key biotechnology concepts and hands-on experience in laboratory techniques. The program is designed to help participants understand the principles of biotechnology and its real-world applications.

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

10 Days

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

- DNA Extraction from blood
- Basic PCR Setup, Optimization and Troubleshooting
- PCR
- Amylase or Protease Enzyme Activity Assay
- Bacterial Screening, Isolation and Cultivation
- Agarose Gel Electrophoresis

20 Days

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

- Advanced PCR Techniques (Multiplex and Nested PCR)
- Restriction Digestion
- DNA Ligation
- Protein Purification Using Precipitation
- Transformation of Competent Cells - DH5 Alpha Cells

30 Days

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

- Advanced Gene Expression Analysis from E.coli
- SDS-PAGE for Protein Analysis
- Western Blotting
- Quantitative Real-Time PCR (qPCR)
- Introduction to CRISPR Gene Editing

45 Days

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

- CRISPR/Cas9 Genome Editing
- Bioinformatics for Sequence Analysis
- Cell Culture Techniques
- Flow Cytometry for Cell Analysis
- Protein Crystallization and X-ray Diffraction

Individual Protocols Under Biotechnology Training Program

1. DNA Extraction from plant and animal tissues | **Fee: 8000 (Rupees Eight Thousand)**
2. PCR Setup and troubleshooting techniques | **Fee: 8000 (Rupees Eight Thousand)**
3. Assaying enzyme activity using spectrophotometry | **Fee: 4000 (Rupees Four Thousand)**
4. Culturing and isolating bacteria using nutrient media | **Fee: 3000 (Rupees Three Thousand)**
5. Separating DNA fragments by gel electrophoresis | **Fee: 2000 (Rupees Two Thousand)**
6. Conducting advanced PCR methods like Reverse Transcriptase PCR | **Fee: 6000 (Rupees Six Thousand)**
7. Digesting DNA with restriction enzymes and ligating DNA fragments | **Fee: 5000 (Rupees Five Thousand)**
8. Purifying proteins using chromatographic techniques | **Fee: 15000 (Rupees Fifteen Thousand)**
9. Transforming cells using heat shock or electroporation | **Fee: 18000 (Rupees Eighteen Thousand)**
10. Culturing microbes using advanced fermentation techniques | **Fee: 25000 (Rupees Twenty Five Thousand)**
11. Analyzing gene expression using qPCR | **Fee: 15000 (Rupees Fifteen Thousand)**
12. Separating and analyzing proteins using SDS-PAGE | **Fee: 8000 (Rupees Eight Thousand)**
13. Detecting proteins using Western blotting technique | **Fee: 12000 (Rupees Twelve Thousand)**
14. Editing genes using the CRISPR/Cas9 system | **Fee: 150000 (Rupees One Lakh Fifty Thousand)**
15. Analyzing DNA sequences using bioinformatics tools | **Fee: 3000 (Rupees Three Thousand)**

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Thousand)

16. Culturing mammalian cells under sterile conditions | **Fee: 55000 (Rupees Fifty Five Thousand)**
17. Analyzing cell components using flow cytometry | **Fee: 75000 (Rupees Seventy Five Thousand)**

Please contact on +91-8977624748 for more details

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