



Medical Biotechnology Training Program

This program is designed for students and professionals seeking a foundational understanding of medical biotechnology, including hands-on training in molecular diagnostics, vaccine development, and therapeutic research.

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

For Researcher Candidates

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

- Fee: 49000/-, Duration: 30 to 45 Days
- Basic techniques in pipetting and measurement
- Preparation of standard solutions and buffers
- DNA extraction from human blood
- DNA extraction from bacteria
- Plasmid DNA Extraction
- RNA extraction from tissue
- Protein extraction and quantification
- Spectrophotometric measurement of nucleic acids
- Designing primers for PCR
- Setting up a basic PCR reaction
- Normal PCR
- Reverse Transcriptase PCR
- Agarose gel Electrophoresis
- Extraction of DNA from Agarose Gels
- Screening and Isolation of Multidrug Resistant (MDR) Strains from wound infections
- Basic light microscopy handling and imaging
- Identification of isolated MDR strains

For Diagnostics Candidates

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

- Fee: 95000/-, Duration: 30 to 45 Days
- Preparation of clinical samples for analysis
- Handling and storing diagnostic reagents
- Setting up ELISA plate assays
- Conducting a rapid antigen test
- Calibrating and using a glucometer
- Basic staining techniques (e.g., Gram staining)
- Preparation and handling of diagnostic slides
- Blood sample collection and storage protocols
- Setting up immunoassay workflows
- Preparation of reagents for lateral flow assays
- Microscopic identification of pathogens
- Setting up qPCR reactions for diagnostics
- Basic protocols for flow cytometry sample preparation
- Loading and analyzing clinical samples on a microarray
- Maintenance of diagnostic lab equipment

For Therapeutics Sector

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

- Fee: 175000/-, Duration: 30 to 45 Days
- Preparation of sterile drug formulations
- Handling and administration of monoclonal antibodies
- Basic cell transfection protocols
- Preparation and sterilization of scaffolds for regenerative medicine
- Maintenance of viral vector stocks
- Setup and operation of bioreactors for cell therapy
- Preparation of lipid nanoparticles for mRNA delivery
- Handling and culturing of CAR-T cells
- Conducting a cytotoxicity assay
- In vitro drug efficacy testing protocols
- Collection and freezing of patient-derived cells
- Preparation of RNA for vaccine development
- Basic safety protocols for handling biologics
- Labeling and tracking of therapeutic samples
- Protocols for quality control of biologics

For Healthcare Providers

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

- Fee: 175000/-, Duration: 30 to 45 Days
- Basic protocols for sample collection
- Preparation and administration of injectable drugs
- Using and calibrating diagnostic devices
- Sterile techniques for wound dressing
- Basic ECG monitoring setup
- Blood pressure measurement techniques
- Operation of basic lab instruments (e.g., centrifuge)
- Preparation of sterile surgical kits
- Handling of biohazard materials
- Basic aseptic techniques in clinical settings
- Patient data entry and management in EMR systems
- Vaccination protocols for healthcare workers
- Emergency sample transport protocols
- Collection and handling of nasopharyngeal swabs
- Maintaining sterile environments in healthcare facilities

For Industry Professionals

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

- Fee: 125000/-, Duration: 30 to 45 Days
- Preparation of batch records for biologics
- Cleaning and maintenance of GMP equipment
- Calibration of analytical instruments
- Standard operating procedures for quality control labs
- Basic bioprocess scaling up methods
- Preparation of sterile samples for QC
- Labeling and packaging protocols for medical products
- Sampling methods for raw materials
- Basic documentation for regulatory submissions
- Setup of stability studies for biotech products
- Handling sterile fermentation units
- Preparation and autoclaving of fermentation media
- Basic sterilization protocols for industrial labs
- Standard methods for contamination checks
- Tracking and storage of GMP materials

For Academic Candidates

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

- Fee: 25000/-, Duration: 30 to 45 Days
- Preparation of teaching materials for lab classes
- Basic lab safety protocols
- Handling and disposal of lab waste
- Preparation of chemical solutions for student experiments
- Calibration and use of pipettes
- Setting up simple DNA extraction experiments
- Preparation and visualization of gel electrophoresis
- Setting up basic microscopy training sessions
- Conducting simple bacterial culture experiments
- Preparation of agar plates for culturing
- Writing lab reports and analyzing data
- Introduction to molecular modeling tools
- Basic introduction to bioinformatics workflows
- Preparation of reagents for protein assays
- Facilitating workshops on data analysis software

For Policy and Regulation Professionals

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

- Preparation of risk assessment forms
- Basic biosafety protocols in labs
- Conducting audits for regulatory compliance
- Designing forms for clinical trial data
- Standard methods for document validation
- Drafting protocols for ethical committees
- Regulatory submission requirements overview
- Preparation of biosafety reports
- Management of patient consent forms
- Tracking compliance using digital tools
- Training on Good Laboratory Practices (GLP)
- Maintaining records for inspection audits
- Development of workflow charts for approval
- Basics of patent application drafting

Individual Protocols Under Medical Biotechnology Training Program

1. Overview of medical biotechnology and its applications | **Fee: Contact for fee**
2. Role of biotechnology in diagnostics and therapeutics | **Fee: Contact for fee**
3. Basics of molecular biology techniques in medical research | **Fee: Contact for fee**

4. Applications of recombinant DNA technology in medicine | **Fee: Contact for fee**
5. Ethical considerations in medical biotechnology research | **Fee: Contact for fee**
6. Introduction to PCR-based diagnostics | **Fee: Contact for fee**
7. ELISA for disease detection and quantification | **Fee: Contact for fee**
8. Basic concepts of CRISPR for medical diagnostics | **Fee: Contact for fee**
9. RNA-based diagnostic approaches for infectious diseases | **Fee: Contact for fee**
10. Techniques for studying genetic mutations linked to diseases | **Fee: Contact for fee**
11. Understanding monoclonal antibody production | **Fee: Contact for fee**
12. Basics of vaccine development and production workflows | **Fee: Contact for fee**
13. Studying microbial pathogens for therapeutic targets | **Fee: Contact for fee**
14. Role of biopharmaceuticals in treating chronic diseases | **Fee: Contact for fee**
15. Gene therapy basics: potential and challenges | **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