



Medical Microbiology Research Training Program

This program is tailored for postgraduate students and researchers aiming to work on infectious disease models, antimicrobial resistance research, and translational microbiology using molecular, genomic, and culture-based approaches.

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

Experimental Design and Method Development

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

- Designing culture-based and molecular protocols for clinical isolates
- Developing microbial gene knockout and overexpression studies
- Handling patient-derived clinical samples in research protocols
- Ethical guidelines and biosafety in clinical research

Antimicrobial Resistance (AMR) and Epidemiological Surveillance

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

- PCR screening of resistance genes (bla, mecA, vanA, etc.)
- Molecular typing: PFGE, MLST, and spa typing
- Phylogenetic analysis of hospital outbreak strains
- Molecular epidemiology tools in AMR surveillance

Infection Models and Translational Research

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

- Studying host-pathogen interactions and cytokine response
- Using animal models to study microbial virulence
- RNA-seq and transcriptomics of infected host cells

- Translational insights from IVD (in vitro diagnostics) research

Individual Protocols Under Medical Microbiology Research Training Program

1. Formulating hypotheses in microbial pathogenesis studies | **Fee: Contact for fee**
2. Designing culture-based and molecular protocols for clinical isolates | **Fee: Contact for fee**
3. Developing microbial gene knockout and overexpression studies | **Fee: Contact for fee**
4. Handling patient-derived clinical samples in research protocols | **Fee: Contact for fee**
5. Ethical guidelines and biosafety in clinical research | **Fee: Contact for fee**
6. Whole genome sequencing of resistant clinical strains | **Fee: Contact for fee**
7. PCR screening of resistance genes (bla, mecA, vanA, etc.) | **Fee: Contact for fee**
8. Molecular typing: PFGE, MLST, and spa typing | **Fee: Contact for fee**
9. Phylogenetic analysis of hospital outbreak strains | **Fee: Contact for fee**
10. Molecular epidemiology tools in AMR surveillance | **Fee: Contact for fee**
11. Establishing in vitro infection models using epithelial and macrophage lines | **Fee: Contact for fee**
12. Studying host-pathogen interactions and cytokine response | **Fee: Contact for fee**
13. Using animal models to study microbial virulence | **Fee: Contact for fee**
14. RNA-seq and transcriptomics of infected host cells | **Fee: Contact for fee**
15. Translational insights from IVD (in vitro diagnostics) research | **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