



## Molecular Microbiology Workshops

# Molecular Microbiology Workshops

NTHRYS BIOTECH LABS provides a diverse array of workshops in the realm of Molecular Microbiology. Explore our comprehensive offerings below

[Molecular Microbiology Workshops Application Process](#)

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## Navigate the Molecular Microbiology Landscape: Workshop Options Ahead!

1. [Workshop in Introduction to Molecular MicrobiologyPDF](#)
2. [Workshop in Advanced Techniques in Molecular MicrobiologyPDF](#)
3. [Workshop in Molecular Microbiology in Biomedical ResearchPDF](#)
4. [Workshop in Innovations in Molecular MicrobiologyPDF](#)
5. [Workshop in Ethical and Regulatory Perspectives in Molecular MicrobiologyPDF](#)

### 1. Workshop in Introduction to Molecular Microbiology

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Basics of Molecular Microbiology**

Overview of molecular microbiology principles and applications.

Hands-on session on studying microbial genetics and physiology.

Introduction to the importance of molecular microbiology in understanding microbes.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Techniques in Molecular Microbiology**

Interactive session on techniques used in molecular microbiology.

Workshop on using PCR, sequencing, and other methods.

Practical demonstration of molecular microbiology techniques.

**12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: Microbial Genomics**

Exploring microbial genomics.

Hands-on training on studying microbial genomes.

Case studies on the role of microbial genomics in understanding microbial diversity.

**2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Microbial Pathogenesis**

Workshop on microbial pathogenesis.

Practical techniques for studying the mechanisms of microbial diseases.  
Case studies on the applications of molecular microbiology in understanding pathogenesis.

**4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

**4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

Certificate Issue

**5:30 PM: Workshop Concludes**

## **2. Workshop in Advanced Techniques in Molecular Microbiology**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.  
Brief overview of today's focus.

### **8:45 AM - 10:15 AM: Session 1: Advanced Molecular Techniques**

Introduction to advanced techniques in molecular microbiology.  
Hands-on session on using CRISPR, metagenomics, and other methods.  
Practical demonstration of advanced molecular microbiology applications.

### **10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Microbial Metabolomics**

Exploring microbial metabolomics approaches.  
Workshop on using metabolomics to study microbial metabolism.  
Case studies on the applications of metabolomics in understanding microbial function.

### **12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Microbial Ecology and Interactions**

Hands-on session on studying microbial ecology.  
Exploring techniques for analyzing microbial interactions and communities.  
Practical applications of molecular microbiology in understanding microbial ecology.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Industrial Microbiology**

Workshop on industrial applications of molecular microbiology.  
Practical techniques for using microbes in biotechnology and industry.  
Case studies on the role of molecular microbiology in industrial applications.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

Certificate Issue

**5:30 PM: Workshop Concludes**

### **3. Workshop in Molecular Microbiology in Biomedical Research**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Role of Molecular Microbiology in Disease Research**

Overview of the importance of molecular microbiology in disease research.

Hands-on session on studying microbial mechanisms of diseases.

Case studies on the impact of molecular microbiology in biomedical research.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Microbiome and Health**

Exploring the role of the microbiome in health and disease.  
Workshop on using molecular techniques to study the microbiome.  
Case studies on the applications of microbiome research in health and disease.

### **12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Antimicrobial Resistance**

Hands-on session on studying antimicrobial resistance.  
Exploring techniques for identifying and combating resistant microbes.  
Practical applications of molecular microbiology in addressing antimicrobial resistance.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Clinical Applications of Molecular Microbiology**

Workshop on translating microbiology research into clinical practice.  
Practical techniques for using microbial data in clinical settings.  
Case studies on the impact of molecular microbiology on medical treatments.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

**Certificate Issue**

### **5:30 PM: Workshop Concludes**

## 4. Workshop in Innovations in Molecular Microbiology

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

### **8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

### **8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

### **8:45 AM - 10:15 AM: Session 1: Emerging Technologies in Molecular Microbiology**

Introduction to emerging technologies in molecular microbiology.

Hands-on session on using advanced tools and techniques in microbial research.

Case studies on innovative applications of new technologies in molecular microbiology.

### **10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: AI and Machine Learning in Microbiology**

Exploring the role of AI and machine learning in microbial research.

Workshop on developing predictive models using AI and ML.

Case studies on the applications of AI in enhancing molecular microbiology research.

### **12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Integrative Omics in Microbiology**

Hands-on session on integrating multi-omics data in microbial research.  
Exploring techniques for combining genomics, proteomics, and metabolomics.  
Practical applications of integrative omics in molecular microbiology research.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Future Directions in Molecular Microbiology**

Discussion on emerging trends and future directions in molecular microbiology.  
Workshop on integrating new technologies in microbial research.  
Case studies on the potential impact of future innovations in molecular microbiology.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

**Certificate Issue**

### **5:30 PM: Workshop Concludes**

## **5. Workshop in Ethical and Regulatory Perspectives in Molecular Microbiology**

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**Date:** Pre Selected Date



**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Ethical Considerations in Microbiology Research**

Overview of ethical issues in molecular microbiology research.

Case studies on ethical dilemmas in studying and manipulating microbes.

Workshop on addressing ethical considerations in microbiology research.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Regulatory Frameworks for Microbiology Research**

Exploring regulatory guidelines and requirements for microbiology research.

Case studies on navigating regulatory challenges.

Workshop on understanding international regulatory frameworks.

**12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: Public Perception and Communication**

Workshop on improving public understanding of microbiology research.

Techniques for effective science communication.

Case studies on public engagement and education initiatives.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Policy and Planning for Microbiology Research**

Discussion on policy and planning for sustainable microbiology research.

Case studies on effective policies and planning strategies.

Workshop on integrating ethical and social considerations in microbiology research.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

### **5:30 PM: Workshop Concludes**

Note: NTHRYS Management reserves the right to modify the workshop module at any time without prior notice. Registered or enrolled candidates will receive the module that is current on the day of enrollment.

## **NTHRYS Workshops Department**

**M: +91-7993084748**

**Email: workshops ( a t ) nthrys [ d0t ] com**

## **Molecular Microbiology Workshops Application Process**

1. Select a workshop from the list.

## NTHRYS OPC PVT LTD Molecular Microbiology Workshops

2. Contact via whatsapp on the number present above to request fee details and dates suitable for joining. Alternatively, you can send an email to workshops ( a t ) nthrys [ d 0 t ] com.
3. Our Workshop department will contact you promptly to provide further assistance.