



## Molecular Genetics Workshops

# Molecular Genetics Workshops

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

[Molecular Genetics Workshops Application Process](#)

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## Molecular Genetics Exploration Zone: Pick Your Workshop Passion!

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

### 1. Workshop in Introduction to Molecular Genetics

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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 Genetics**

Overview of molecular genetics principles and applications.

Hands-on session on studying the structure and function of genes.

Introduction to the importance of molecular genetics in understanding heredity and variation.

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

Networking and refreshments.

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

Interactive session on techniques used in molecular genetics.

Workshop on using PCR, gel electrophoresis, and sequencing.

Practical demonstration of molecular genetics methods.

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

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: Gene Expression and Regulation**

Exploring gene expression and regulation.

Hands-on training on studying transcription and translation.

Case studies on the role of molecular genetics in understanding gene function.

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

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Genetic Mutations and Disease**

Workshop on genetic mutations and their role in disease.

Practical techniques for studying mutations and their effects.

Case studies on the applications of molecular genetics in disease 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**

## 2. Workshop in Advanced Techniques in Molecular Genetics

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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 genetics.

Hands-on session on using CRISPR, RNAi, and other methods.  
Practical demonstration of advanced molecular genetics applications.

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

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Genomics and Transcriptomics**

Exploring genomics and transcriptomics approaches.  
Workshop on sequencing technologies and data analysis.  
Case studies on the applications of genomics and transcriptomics in research.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Epigenetics and Gene Regulation**

Hands-on session on studying epigenetic modifications.  
Exploring techniques for analyzing DNA methylation and histone modification.  
Practical applications of epigenetics in understanding gene regulation.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Functional Genomics**

Workshop on functional genomics techniques.  
Practical techniques for studying gene function and interaction.  
Case studies on the role of functional genomics in 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**

### **3. Workshop in Molecular Genetics 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 Genetics in Disease Research**

Overview of the importance of molecular genetics in disease research.

Hands-on session on studying genetic mechanisms of diseases.

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

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

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Cancer Genetics**

Exploring the role of molecular genetics in cancer research.

Workshop on using genetic techniques to study and treat cancer.

Case studies on the applications of molecular genetics in cancer therapy.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Genetics of Infectious Diseases**

Hands-on session on the use of molecular genetics in studying infectious diseases.  
Exploring techniques for identifying pathogens and studying host-pathogen interactions.  
Practical applications of molecular genetics in developing treatments for infectious diseases.

### **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 Genetics**

Workshop on translating genetic research into clinical practice.  
Practical techniques for using genetic data in clinical settings.  
Case studies on the impact of molecular genetics 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 Genetics**

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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 Genetics**

Introduction to emerging technologies in molecular genetics.

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

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

**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 Genetics**

Exploring the role of AI and machine learning in molecular genetics.

Workshop on developing predictive models using AI and ML.

Case studies on the applications of AI in enhancing genetic 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 Genetics**

Hands-on session on integrating multi-omics data in genetic research.

Exploring techniques for combining genomics, proteomics, and metabolomics.

Practical applications of integrative omics in molecular genetics 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 Genetics**

Discussion on emerging trends and future directions in molecular genetics.

Workshop on integrating new technologies in genetic research.

Case studies on the potential impact of future innovations in molecular genetics.

### **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 Genetics**

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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 Genetic Research**

Overview of ethical issues in molecular genetics research.

Case studies on ethical dilemmas in genetic studies and applications.

Workshop on addressing ethical considerations in genetic 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 Genetic Research**

Exploring regulatory guidelines and requirements for genetic 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 genetic 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 Genetic**

## Research

Discussion on policy and planning for sustainable genetic research.  
Case studies on effective policies and planning strategies.  
Workshop on integrating ethical and social considerations in genetic 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**

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

## **Molecular Genetics Workshops Application Process**

1. Select a workshop from the list.
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.