



## NTHRYS WORKSHOPS

# Innovations In Molecular Genetics

### 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**