



## NTHRYS WORKSHOPS

# Advanced Techniques In Molecular Genetics

### 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**