



## NTHRYS WORKSHOPS

# Advanced Techniques In Molecular Neurobiology

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

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

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

Networking and refreshments.

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

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

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Neuroinflammation and Neurodegeneration**

Hands-on session on studying neuroinflammation and neurodegeneration.  
Exploring techniques for analyzing neural damage and repair.  
Practical applications of molecular neurobiology in understanding neurodegenerative diseases.

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

Time for a stretch and informal discussions.

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

Workshop on functional neuroimaging techniques.  
Practical techniques for using neuroimaging to study brain activity.  
Case studies on the role of neuroimaging in research and clinical practice.

### **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**