



## NTHRYS WORKSHOPS

# Advanced Techniques In Experimental Biotechnology

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

Introduction to advanced molecular biology techniques.  
Hands-on session on CRISPR and gene editing.  
Practical demonstration of RNA interference and gene silencing.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: High-Throughput Screening

Exploring high-throughput screening methods.  
Workshop on using automation and robotics in experiments.  
Case studies on applications of high-throughput technologies.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Bioinformatics and Computational Biology**

Hands-on session on bioinformatics tools for data analysis.  
Exploring computational approaches for experimental design.  
Practical applications of bioinformatics in biotechnology research.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Advanced Imaging Techniques**

Workshop on advanced imaging methods in biotechnology.  
Practical techniques for confocal microscopy and live-cell imaging.  
Case studies on the use of imaging in experimental 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**