



## NTHRYS WORKSHOPS

# Advanced Techniques In Metabolomics

### 8:45 AM - 10:15 AM: Session 1: Advanced Analytical Methods

Introduction to advanced analytical methods in metabolomics.  
Hands-on session on high-resolution mass spectrometry and other techniques.  
Practical demonstration of advanced metabolite analysis.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Targeted and Untargeted Metabolomics

Exploring targeted and untargeted approaches in metabolomics.  
Workshop on designing and conducting targeted metabolomics studies.  
Case studies on the applications of untargeted metabolomics in discovery research.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Metabolomics in Systems Biology

Hands-on session on integrating metabolomics with systems biology.

Exploring techniques for studying metabolic networks and interactions.  
Practical applications of systems biology in understanding metabolic regulation.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Biomarker Discovery in Metabolomics**

Workshop on the discovery and validation of metabolic biomarkers.  
Practical techniques for identifying and validating biomarkers.  
Case studies on the role of metabolomics in clinical diagnostics.

### **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**