



## NTHRYS WORKSHOPS

# Omics Technologies In System Microbiology

### 8:45 AM - 10:15 AM: Session 1: Genomics in Microbial Systems

Hands-on workshop on microbial genomics.  
Protocols for sequencing and analyzing microbial genomes to understand their roles within systems microbiology.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Transcriptomics in Microbial Communities

Practical session on transcriptomics.  
Protocols for studying gene expression in microbial communities using RNA sequencing and bioinformatics tools.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Proteomics in Microbial Systems

Hands-on training on microbial proteomics.

Protocols for analyzing microbial proteins and their functions using mass spectrometry and bioinformatics approaches.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Metabolomics and Metagenomics Integration**

Practical session on omics integration.

Protocols for integrating metabolomics and metagenomics data to understand microbial system functions.

### **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**