



## NTHRYS WORKSHOPS

# Advanced Techniques In Soil Microbiology

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

Advanced molecular techniques for studying soil microbes.  
Practical session on next-generation sequencing and bioinformatics.  
Troubleshooting and optimizing molecular analyses.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Soil Microbial Ecology

Overview of soil microbial ecology.  
Practical session on studying microbial interactions in soil.  
Case studies on soil microbial communities.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Biogeochemical Cycles

Using soil microbiology to study biogeochemical cycles.

Practical session on nitrogen and carbon cycling.  
Case studies on microbial roles in biogeochemical processes.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Biotechnology in Soil Microbiology**

Strategies for integrating biotechnology in soil microbiology.  
Case studies on biotechnological applications.  
Future trends and challenges in the field.

### **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**