



## NTHRYS WORKSHOPS

# Practical Techniques In Soil Microbiology

### 8:45 AM - 10:15 AM: Session 1: Introduction to Soil Microbiology

Overview of soil microbiology and its importance.  
Techniques for studying soil microorganisms.  
Case studies on soil microbiology research and applications.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Soil Sampling and Analysis

Hands-on techniques for soil sampling and microbial analysis.  
Practical session on isolating and culturing soil microbes.  
Discussion on optimizing soil microbiology studies.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Molecular Techniques in Soil Microbiology

Introduction to molecular techniques in soil microbiology.

Practical demonstration of PCR and metagenomics.  
Case studies on molecular analysis of soil microbes.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Case Studies and Applications**

Review of significant case studies in soil microbiology.  
Applications in agriculture and environmental science.  
Future trends and research directions.

### **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**