



## NTHRYS WORKSHOPS

# Advanced Techniques In Fungal Biotechnology

### 8:45 AM - 10:15 AM: Session 1: Genetic Engineering of Fungi

Introduction to genetic engineering techniques for fungi.  
Hands-on session on transforming fungi with foreign genes.  
Practical demonstration of CRISPR and other gene editing tools.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Fungal Omics

Exploring omics approaches in fungal biotechnology.  
Workshop on using genomics, proteomics, and metabolomics in fungal research.  
Case studies on the applications of omics technologies in studying fungi.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Fungal Enzymes and Biofuels**

Hands-on session on producing fungal enzymes for biofuel production.  
Exploring techniques for optimizing enzyme activity.  
Practical applications of fungal enzymes in biofuel industry.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Fungal Biotechnology in Medicine**

Workshop on the use of fungi in medical biotechnology.  
Practical techniques for developing fungal-based drugs and therapies.  
Case studies on the impact of fungi on medical research and treatments.

### **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**