



## NTHRYS WORKSHOPS

# Emerging Trends In Archaea Microbiology

### 8:45 AM - 10:15 AM: Session 1: Archaea in Biotechnology

Introduction to the biotechnological potential of archaea.  
Practical session on harnessing archaeal enzymes and metabolic pathways for industrial applications.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Extremophiles and Astrobiology

Overview of extremophilic archaea and their relevance to astrobiology.  
Hands-on workshop on studying extremophiles and their survival mechanisms.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Synthetic Biology and Archaea

Discussion on the applications of synthetic biology in archaea research.  
Practical exercises on designing synthetic biology experiments with archaea.

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

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Future Directions in Archaea Research**

Exploration of future trends and innovations in archaea research.  
Case studies on cutting-edge research and its applications.

**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**