



## NTHRYS WORKSHOPS

# Emerging Technologies In Synthetic Genomics

### 8:45 AM - 10:15 AM: Session 1: AI and Machine Learning in Synthetic Genomics

Introduction to AI and machine learning applications in synthetic genomics.  
Techniques for using AI in genome design and analysis.  
Hands-on session with AI tools.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: High-Throughput Screening

Using high-throughput screening in synthetic genomics.  
Practical session on setting up and running screening assays.  
Troubleshooting and optimizing screening processes.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Integrative Approaches**

Combining synthetic genomics with other biological data.  
Case studies on integrative approaches.  
Practical session on multi-omics data integration.

### **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**

Emerging trends and technologies in synthetic genomics.  
Discussion on potential breakthroughs and innovations.  
Networking session for collaborative research opportunities.

### **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**