



## NTHRYS WORKSHOPS

# Advanced Techniques In Synthetic Biological Circuit Design

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

Advanced techniques for designing synthetic biological circuits.  
Practical session on using advanced design software.  
Troubleshooting and optimizing circuit designs.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Circuit Integration and Testing

Overview of circuit integration and testing methods.  
Practical session on integrating circuits into host organisms.  
Case studies on testing and validation of synthetic circuits.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Dynamic and Responsive Circuits**

Using synthetic biology to create dynamic and responsive circuits.  
Practical session on designing and testing responsive circuits.  
Case studies on applications of dynamic circuits.

### **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 Synthetic Circuit Design**

Strategies for integrating biotechnology in synthetic circuit design.  
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**