



NTHRYS WORKSHOPS

Practical Techniques In Synthetic Biological Circuit Design

8:45 AM - 10:15 AM: Session 1: Introduction to Synthetic Biological Circuits

Overview of synthetic biological circuits and their applications.
Techniques for designing and constructing biological circuits.
Case studies on synthetic biological circuits.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Gene Circuit Design

Hands-on techniques for designing gene circuits.
Practical session on using software tools for circuit design.
Discussion on optimizing gene circuit functionality.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Synthetic Promoters and Regulatory Elements

Introduction to synthetic promoters and regulatory elements.
Practical demonstration of constructing synthetic promoters.
Case studies on regulatory elements in synthetic circuits.

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 synthetic biological circuits.
Applications in biotechnology and medicine.
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