



NTHRYS WORKSHOPS

Advanced Techniques In Biological Engineering

8:45 AM - 10:15 AM: Session 1: Genetic and Cellular Engineering

Introduction to advanced genetic and cellular engineering techniques.
Practical demonstration of CRISPR, gene editing, and stem cell technologies.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Bioinformatics and Systems Biology

Overview of bioinformatics and systems biology tools.
Hands-on workshop on modeling biological systems and analyzing large-scale biological data.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Tissue Engineering and Regenerative Medicine

Introduction to tissue engineering and regenerative medicine.

Practical session on scaffold fabrication, cell culture, and tissue regeneration techniques.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Biomechanics and Biorobotics

Discussion on biomechanics and biorobotics.

Case studies on the design and application of robotic systems in biological engineering.

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