



NTHRYS WORKSHOPS

Advanced Techniques In Enzymology

8:45 AM - 10:15 AM: Session 1: Enzyme Engineering and Design

Introduction to techniques for enzyme engineering.
Hands-on session on directed evolution and rational design.
Practical demonstration of creating and testing engineered enzymes.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Enzyme Structure Determination

Exploring methods for determining enzyme structures.
Workshop on X-ray crystallography and NMR spectroscopy.
Case studies on the structural analysis of enzymes.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Enzyme Kinetics and Mechanisms

Hands-on session on advanced enzyme kinetics.

Exploring pre-steady-state and steady-state kinetics.
Practical applications of enzyme kinetic models in research.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Computational Enzymology

Workshop on computational approaches in enzymology.
Practical use of molecular dynamics and docking studies.
Case studies on computational enzyme design and analysis.

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