



NTHRYS WORKSHOPS

Introduction To Molecular Phylogenetics

8:45 AM - 10:15 AM: Session 1: Basics of Molecular Phylogenetics

Overview of molecular phylogenetics principles and applications.
Hands-on session on studying evolutionary relationships using molecular data.
Introduction to the importance of molecular phylogenetics in understanding the tree of life.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Techniques in Molecular Phylogenetics

Interactive session on techniques used in molecular phylogenetics.
Workshop on using DNA sequencing, multiple sequence alignment, and phylogenetic tree construction.
Practical demonstration of molecular phylogenetics techniques.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Evolutionary Models and Tree Inference

Exploring evolutionary models and tree inference methods.

Hands-on training on selecting and applying models of sequence evolution.

Case studies on the role of molecular phylogenetics in inferring evolutionary relationships.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Molecular Clock and Divergence Time Estimation

Workshop on molecular clocks and divergence time estimation.

Practical techniques for estimating the timing of evolutionary events.

Case studies on the applications of molecular phylogenetics in understanding the tempo of evolution.

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