



NTHRYS WORKSHOPS

Introduction To Phylodynamics

8:45 AM - 10:15 AM: Session 1: Fundamentals of Phylodynamics

Hands-on workshop on the basics of phylodynamics.
Protocols for understanding the integration of phylogenetics with population dynamics to study the evolution of pathogens and organisms.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Molecular Evolution and Transmission Dynamics

Practical session on molecular evolution.
Protocols for analyzing the molecular evolution of pathogens and their transmission patterns using phylodynamic models.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Phylogenetic Tree Construction

Hands-on training on building phylogenetic trees.

Protocols for generating phylogenetic trees from sequence data using popular tools like BEAST, MrBayes, and RAxML.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Introduction to Coalescent Theory in Phylodynamics

Practical session on coalescent theory.

Protocols for applying coalescent theory to infer demographic history and population size changes over time using genetic data.

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