

NTHRYS WORKSHOPS

Viral Phylodynamics And Epidemiology

8:45 AM - 10:15 AM: Session 1: Phylodynamics of Viral Pathogens

Hands-on workshop on viral phylodynamics.

Protocols for analyzing the evolution and spread of viral pathogens, including influenza, HIV, and SARS-CoV-2, using phylodynamic approaches.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Phylodynamics and Epidemiological Data Integration

Practical session on data integration.

Protocols for integrating epidemiological data (e.g., incidence rates, geographic data) with phylogenetic information to model disease spread.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Estimating Reproductive Numbers Using Phylodynamics

Hands-on training on reproductive number estimation.

Protocols for using phylodynamic models to estimate key epidemiological parameters like the basic reproductive number (R0).

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Real-Time Phylodynamics for Outbreak Surveillance

Practical session on real-time analysis.

Protocols for implementing real-time phylodynamic methods for outbreak tracking and forecasting in rapidly evolving viral epidemics.

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