



NTHRYS WORKSHOPS

Introduction To Exomics

8:45 AM - 10:15 AM: Session 1: Exome Sequencing Protocols

Hands-on workshop on exome sequencing.

Protocols for extracting DNA, preparing exome libraries, and running next-generation sequencing (NGS) workflows.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Exome Data Analysis Pipelines

Practical session on bioinformatics pipelines for exome data.

Protocols for variant calling, alignment, and annotation using popular tools like GATK and ANNOVAR.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Quality Control in Exome Sequencing

Hands-on training on quality control for exome sequencing data.

Protocols for assessing read quality, depth of coverage, and sequencing errors.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Functional Interpretation of Exome Variants

Practical session on interpreting exome variants.

Protocols for linking genetic variants to phenotypic outcomes using databases like ClinVar and OMIM.

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