Emerging Trends In Computational Biology

8:45 AM - 10:15 AM: Session 1: Single-Cell Analysis

Introduction to single-cell analysis techniques.
Practical session on analyzing single-cell omics data and identifying cell types and states.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Artificial Intelligence in Biology

Overview of AI applications in biology.
Hands-on workshop on using AI for image analysis, genomics, and drug discovery.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Data Integration and Multi-Omics Analysis

Discussion on integrating multi-omics data and analysis methods.
Practical exercises on integrating and analyzing data from genomics, transcriptomics, and proteomics.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Future Directions in Computational Biology

Exploration of future trends and innovations in computational biology.
Case studies on using computational approaches to address complex biological questions.

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