Molecular Modelling Of Nucleic Acids

8:45 AM - 10:15 AM: Session 1: Modelling DNA and RNA Structures

Hands-on workshop on modelling nucleic acid structures.
Protocols for building 3D models of DNA and RNA and simulating their behavior using molecular modelling tools.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Protein-Nucleic Acid Docking

Practical session on docking proteins with nucleic acids.
Protocols for studying how proteins bind to DNA or RNA using molecular docking techniques.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Molecular Dynamics of Nucleic Acids

Hands-on training on molecular dynamics simulations of nucleic acids.
Protocols for simulating the dynamics of DNA and RNA in different environments.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: RNA Structure Prediction and Modelling

Practical session on RNA structure prediction.
Protocols for predicting RNA secondary and tertiary structures and simulating their folding pathways.

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