Protein Modelling And Docking

8:45 AM - 10:15 AM: Session 1: Homology Modelling of Proteins

Hands-on workshop on building protein models through homology modelling.
Protocols for generating 3D models of proteins based on homologous templates using software like MODELLER.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Protein-Ligand Docking Techniques

Practical session on molecular docking of ligands to protein targets.
Protocols for using docking software like AutoDock and analyzing binding poses and affinities.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Virtual Screening of Small Molecules

Hands-on training on virtual screening techniques.
Protocols for performing high-throughput virtual screening of compound libraries to identify

potential drug candidates.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Protein-Protein Docking and Complex Modelling

Practical session on modelling protein-protein interactions.
Protocols for docking proteins together and analyzing protein complexes using molecular modelling software.

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