

Capstone — End-to-End Proteomics & Interactomics Project — Hands-on

Bring together your proteomics and interactomics concepts in a guided capstone project. This module focuses on project scoping, experimental design planning, data processing and QC outlines, biological interpretation concepts and how to organise figures, tables and a short narrative suitable for a mini report or presentation.

Capstone — End-to-End Proteomics & Interactomics Project

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Session 1

Fee: Rs 8800 [Apply Now](#)

Project Scoping & Experimental Design

Selecting a capstone topic and framing the biological question

[hypothesis vs discovery style ideas](#) [defining outcomes and comparisons](#) [scope and feasibility thinking](#)

Conceptual experimental design for proteomics and interactomics

sample types and groups overview **replicates and batch layout ideas** **choice of DDA / DIA / targeted concept**

Planning controls, QC samples and basic power awareness

blanks and QC concept **technical vs biological variance ideas** **simple effect size thinking**

Session 2

Fee: Rs 11800 Apply Now

Data Processing, QC & Quantitative Outline

Conceptual pipeline from raw data to protein tables

peak picking and identification ideas **FDR and filtering concept** **building peptide and protein matrices**

QC and normalisation at planning level for the capstone

run level QC plots idea **missing value awareness** **normalisation and batch concepts**

Outline for differential abundance and basic statistics steps

group comparison thinking **multiple testing awareness** **volcano and heatmap summary ideas**

Session 3

Fee: Rs 14800 Apply Now

Interpretation, Networks & Multi-Omics Context

Biological interpretation of capstone protein lists (concepts)

pathway and GO enrichment ideas **PTM and subtype considerations** **linking to phenotypes and outcomes**

Interactome and network thinking for the capstone project

PPI and module overview **hubs and key complexes**

concepts **network figures for reporting**

Situating proteomics results in multi-omics and clinical context

overlay with transcript or clinical markers **agreement**
and discordance ideas **prioritising follow up**
hypotheses

Session 4

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Final Capstone Deliverables & Presentation Plan

Structuring the capstone report or mini manuscript outline

Theory + Practical (planning oriented)

Planning figures, tables and summary dashboards for the project

key plots for QC and quantitation **pathway and**
network figure concepts **checklist for reproducible**
reporting

Capstone deliverables and next steps planning (concept
focused)

summary slide deck outline **short abstract or project**
summary text **ideas for extension to real data or**
thesis work