Understand how proteomics data is structured, annotated and shared in community repositories. This module focuses on core open formats, metadata and minimal reporting ideas, PRIDE style submission concepts and FAIR data management planning so that your proteomics projects are easier to reuse, review and publish.

Proteomics Data Standards & FAIR Repositories

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Session 1
Fee: Rs 8800 Apply Now

Proteomics Data Formats & Reporting Basics

From vendor raw files to open proteomics formats (concepts)

instrument vendor raw idea mzML and mzXML overview why open formats help reuse

Identification and quantitation formats at high level

mzIdentML and pepXML concepts mzTab and tabular output ideas linking spectra to peptide and protein

level

Basic reporting elements for proteomics experiments (idea level)

instrument and method description **search engine and database details** **FDR and quality summary concepts**

Session 2
Fee: Rs 11800 Apply Now

Metadata, Annotation & Minimal Requirements

Sample, run and study level metadata concepts

sample identifiers and groups **instrument run level information** **linking metadata to data files idea**

Controlled vocabularies and annotation standards (concepts)

ontology and term usage idea **consistent naming of experiments** **advantages for search and reuse**

Minimal reporting and MIAPE style guidelines at high level

what information journals expect **essential vs nice to have fields** **checklist thinking for experiment description**

Session 3
Fee: Rs 14800 Apply Now

Repositories, FAIR Principles & Access

Conceptual overview of proteomics repositories

PRIDE and ProteomeXchange ideas **MassIVE and other resources** **accession and dataset concept**

FAIR data principles applied to proteomics (high level)

Findable and Accessible ideas **Interoperable and Reusable thinking** **persistent identifiers and licences**

Submission life cycle, embargo and reuse concepts

private, review and public states embargo and reviewer access idea how others can find and cite datasets

Session 4
Fee: Rs 18800 Apply Now

Mini Capstone: Data Management & Deposition Plan

Conceptual data management plan for a proteomics project

Theory + Practical (planning oriented)

From raw files to submission package outline (idea level)

file organisation and naming ideas simple metadata and readme structure choosing target repository and licence concept

Mini capstone deliverables (design and checklist focused)

data and metadata map outline FAIR and submission checklist draft short narrative on reuse and citation plan