

# Glycoproteomics Quantification — Label-Free & Isobaric — Hands-on

Learn how to plan, run and interpret quantitative glycoproteomics studies using both label-free and isobaric workflows. This module walks through experimental design, LFQ and iBAQ style label-free quantification, TMT/iTRAQ based multiplexing, normalization, batch correction and data visualization for confident biological conclusions.

## Glycoproteomics Quantification — Label-Free & Isobaric

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### Session 1

**Fee: Rs 8800** [Apply Now](#)

### Quantitative Glycoproteomics Designs & Controls

Study designs for quantitative glycoproteomics

[case vs control and time course](#) [biological vs technical replicates](#) [blocking and randomization](#)

Choosing between label-free and isobaric approaches

[sample numbers and depth](#) [instrument time constraints](#) [precision vs flexibility](#)

Controls, standards and reference channels

**QC pools and references** **spike in glycoprotein standards** **bridging across batches**

### **Session 2**

**Fee: Rs 11800** Apply Now

## **Label-Free Quantification (LFQ/iBAQ)**

MS1 intensity based label-free concepts

**peak picking and integration** **feature alignment across runs** **match between runs ideas**

LFQ and iBAQ type metrics for glycopeptides

**relative vs approximate absolute** **handling charge states and isotopes** **intensity transforms (log2)**

Normalization and missing value strategies

**global vs local scaling** **median/quantile approaches** **imputation options for glyco data**

### **Session 3**

**Fee: Rs 14800** Apply Now

## **Isobaric Quantification (TMT/iTRAQ)**

Designing TMT/iTRAQ based glycoproteomics experiments

**channel layouts and multiplexing** **reference channels and bridging** **batching large cohorts**

Reporter ion based quantification and ratio compression

**reporter extraction windows** **coisolation and interference** **MS3 and SPS concepts**

Normalization and batch correction for isobaric data

**within and between run scaling** **using reference**

channels visual QC of channel performance

#### Session 4

Fee: Rs 18800 Apply Now

### Mini Capstone: Quantitative Glycoproteomics Comparison

Build a small quantitative workflow on example glyco datasets

label-free and/or TMT style data

Generate differential glycoprotein and glycoform summaries

log2 fold changes and p values volcano and heatmap plots linking results to biology or CQAs

Deliverables and documentation set

processed quant tables plots for a short report notes on normalization and batch handling