

Intact Glycopeptide Analysis — Site Occupancy & Microheterogeneity — Hands-on

Learn how to move from enriched glycopeptide LC MS MS data to quantitative views of site occupancy and glycan microheterogeneity. This module covers acquisition setup, intact glycopeptide searching, extracting site level abundances and summarizing glycoforms per site for biologics, serum glycoproteins and discovery studies.

Intact Glycopeptide Analysis — Site Occupancy & Microheterogeneity

[Help Desk](#) · [WhatsApp](#)

Session Index

[Session 1 — LC-MS/MS Setup for Intact Glycopeptides](#) [Session 2 — Site Occupancy Quantification Strategies](#) [Session 3 — Microheterogeneity Profiling & Visualization](#) [Session 4 — Mini Capstone: Site Occupancy & Microheterogeneity Report](#)

Session 1

Fee: Rs 8800 [Apply Now](#)

LC-MS/MS Setup for Intact Glycopeptides

Chromatography and gradient design for intact glycopeptides

[reversed phase nano LC](#) [column choices and loading](#)
[gradient lengths for coverage](#)

DDA / DIA / PRM strategies for glycopeptides

[DDA survey scans and inclusion lists](#) [DIA windows and libraries](#) [targeted PRM for key sites](#)

Fragmentation and instrument parameters for intact glyco data

HCD vs EThcD settings **resolution, AGC and max IT**
dynamic exclusion tuning

Session 2

Fee: Rs 11800 Apply Now

Site Occupancy Quantification Strategies

Relating glycopeptide and non-glycosylated peptide signals

paired glycopeptide / peptide concepts **using**
deglycosylated runs **normalization choices**

Calculating site occupancy from intensities or areas

% occupied vs unoccupied **handling multiple charge**
states **replicates and error estimates**

QC metrics for site occupancy measurements

signal to noise thresholds **missing value handling**
technical vs biological variance

Session 3

Fee: Rs 14800 Apply Now

Microheterogeneity Profiling & Visualization

Aggregating glycoforms per site from intact glycopeptide IDs

grouping by peptide and site **composition vs**
structure level **intensity vs area measures**

Summarizing microheterogeneity across samples or batches

relative abundance of glycoforms **lot comparability**
views **change detection for CQAs**

Plots and visual summaries for reports and dashboards

stacked barplots per site **heatmaps and clustering**

export ready figures

Session 4

Fee: Rs 18800 [Apply Now](#)

Mini Capstone: Site Occupancy & Microheterogeneity Report

Build a small intact glycopeptide analysis pipeline on example data

from ID table to site level summaries

Generate site occupancy and microheterogeneity summaries

per site % occupancy **glycoform distributions**
condition or batch comparisons

Deliverables and documentation set

summary tables per site **plots for a short report**
notes for MIRAGE and CQA tracking