

Reporting Standards, Visualization & FAIR Data in Glycomics — Hands-on

Learn how to make glycomics and glycoproteomics results publication ready, reusable and compliant with community standards. This module covers MIRAGE and related guidelines, metadata design, file formats, repository submission and visualization workflows so that your glycan data, spectra and quantitative tables can be shared, reanalyzed and trusted.

Reporting Standards, Visualization & FAIR Data in Glycomics

[Help Desk · WhatsApp](#)

Session Index

[Session 1 — MIRAGE Guidelines & FAIR Foundations](#) [Session 2 — File Formats, Metadata & Repositories](#) [Session 3 — Visualization, Dashboards & Summaries](#) [Session 4 — Mini Capstone: FAIR Glycomics Report Package](#)

Session 1

Fee: Rs 8800 [Apply Now](#)

MIRAGE Guidelines & FAIR Foundations

Why standards? Reproducibility and reuse in glycomics

FAIR principles (Findable Accessible Interoperable Reusable) **role of metadata and ontology terms** **journal and reviewer expectations**

MIRAGE guidelines for glycomics and MS experiments

sample prep and derivatization details **instrument**

setup and acquisition parameters **data processing,**
FDR and identification criteria

Connecting MIRAGE to lab workflows and notebooks

checklists and templates for experiments **capturing**
key fields during acquisition **bridging ELN / LIMS to**
reporting packages

Session 2

Fee: Rs 11800 [Apply Now](#)

File Formats, Metadata & Repositories

Core file formats and encodings in glycomics

raw vendor formats and mzML **glycan encodings**
(GlycoCT, WURCS, SNFG strings) **identification /**
quant tables and exports

Designing metadata tables for experiments and samples

sample, run and file level descriptors **controlled**
vocabularies and IDs **linking spectra, glycans and**
quant data

Repositories and submission workflows

GlyGen, UniCarbKB, GlyTouCan concepts **PRIDE /**
MassIVE style submissions **checklists before upload**
and accessioning

Session 3

Fee: Rs 14800 [Apply Now](#)

Visualization, Dashboards & Summaries

Visualizing glycan structures and compositions

SNFG diagrams and motif views **composition barplots**
and profiles **site occupancy and microheterogeneity**
plots

Quantitative summaries and QC views for reports

technical replicate consistency **batch and run level checks** **simple normalization and scaling displays**

Dashboards and exportable figures for manuscripts

spreadsheet, R/Python based dashboards **PDF/PNG ready charts and tables** **linking static figures to underlying data files**

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: FAIR Glycomics Report Package

Assemble a MIRAGE and FAIR compliant mini dataset

from raw files and tables to metadata sheets

Prepare repository ready folders and documentation

file and directory organization plan **README and methods summary** **checklist against standards**

Deliverables: report bundle, figures and submission notes

data and metadata spreadsheets **exportable plots and tables** **short narrative on reuse and limitations**