

Databases & Standards — GlyGen UniCarbKB & MIRAGE — Hands-on

Get fluent with the key databases, standards and reporting practices that power modern glycomics and glycoproteomics. This module focuses on GlyGen, UniCarbKB and related resources, MIRAGE guidelines, basic glyco formats and how to turn your glycan identifications and quantitation tables into FAIR, reusable datasets.

Databases & Standards — GlyGen UniCarbKB & MIRAGE

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Session 1

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Glycan Databases Landscape & Data Models

Why we need standards and curated glycan resources

[reproducibility](#) [cross study comparison](#) [FAIR principles](#)

Overview of major glyco resources

[GlyGen](#) [UniCarbKB](#) [GlyTouCan and related portals](#)

Data models and identifiers for glycans and glycoproteins

[accessions and stable IDs](#) [structure encodings](#)
[overview](#) [linking to proteins and genes](#)

Session 2

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Using GlyGen, UniCarbKB & GlyTouCan

GlyGen portal hands on

[searching glycans and glycoproteins](#) [filters and](#)
[advanced queries](#) [downloading annotation tables](#)

UniCarbKB and experimental evidence

[linking structures to MS data](#) [evidence levels](#)
[overview](#) [interpreting spectrum annotation](#)

Working with GlyTouCan IDs

[ID lookup and registration concept](#) [connecting IDs to](#)
[structures](#) [using IDs in analysis pipelines](#)

Session 3

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MIRAGE Guidelines & Metadata Standards

What MIRAGE covers in glycomics experiments

[sample preparation](#) [instrument setup](#) [data processing](#)
[and reporting](#)

Designing MIRAGE ready spreadsheets and templates

[required vs optional fields](#) [controlled vocabularies](#)
[linking to raw files and spectra](#)

Connecting MIRAGE, databases and identifiers

[using stable IDs in reports](#) [cross referencing GlyGen](#)

and UniCarbKB supporting downstream re analysis

Session 4

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Mini Capstone: FAIR Glycomics Submission Pack

Build a MIRAGE style metadata sheet for a glycomics experiment

from raw files to annotated tables

Annotate glycans with database identifiers

GlyTouCan IDs GlyGen and UniCarbKB links cross references to proteins

Deliverables: submission ready package

metadata and identification sheets database annotated glycan list short methods and data note