

Glycobiology Foundations and Nomenclature — Hands-on

Gain a working command of glycobiology fundamentals and glycan naming. This module introduces monosaccharides, linkages, glycoconjugates and the major nomenclature and symbol systems used to describe complex carbohydrates in research and biopharma.

Glycobiology Foundations and Nomenclature

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Session 1

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Glycobiology Essentials and Monosaccharides

Glycobiology scope and biological roles of glycans

[cell communication](#) [immune modulation](#) [pathogen interaction](#)

Monosaccharides, stereochemistry and ring forms

[aldo and keto sugars](#) [anomers and epimers](#) [Fischer and Haworth views](#)

Glycosidic bonds and basic disaccharides

[alpha and beta linkages](#) [reducing and non reducing conformation basics](#)

Session 2

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Oligosaccharides, Linkages and 3D Features

Oligosaccharide architecture and branching patterns

linear versus branched **core motifs** **termini and internal units**

Nomenclature systems for glycans

IUPAC naming **short and extended codes** **handling of branching and substituents**

Symbolic representations and SNFG

SNFG symbols **cartooning rules** **software templates**

Session 3

Fee: Rs 14800 Apply Now

Glycoconjugates, Biosynthesis and Functions

Glycoconjugate classes and examples

glycoproteins **glycolipids** **proteoglycans**

Overview of glycan biosynthesis

glycosyltransferases **glycosidases** **ER and Golgi pathways**

Functional themes and case studies

developmental roles **immunity and infection** **cancer associated patterns**

Session 4

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Mini Capstone: Glycan Nomenclature and Annotation

Problem framing and concept map for glycans

Theory plus Practical

Hand annotation of structures and names

simple and branched examples **IUPAC and short forms** **SNFG style diagrams**

Deliverables: mini report and reference cheatsheet

PDF or HTML summary **glycan glossary** **practice exercises**