

## **GLYCOMICS PROFILING**

### GLYCOMICS ANALYSIS BY MASS SPECTROMETRY

#### INTRODUCTION OF GLYCANS

Glycomics is the study of glycans that focuses on the the structure and function of carbohydrates. Glycoform distributions at the cellular, tissue, organ and organism levels are also studied. Three aspects of glycomics are usually explored, including structural characterization of glycans, research of glycan-protein interactions, and the study of *in vitro* and *in vivo* systems for the determination of the function of specific glycans.

## **01** Glycans Classfication

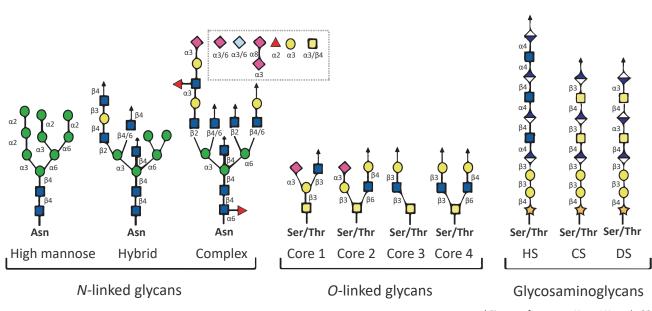


The majority of the linear sugars are glycosaminoglycans (GAGs) that consist of repeating disaccharide units.

The units are 0-linked to a core protein, forming a proteoglycan aggregate.

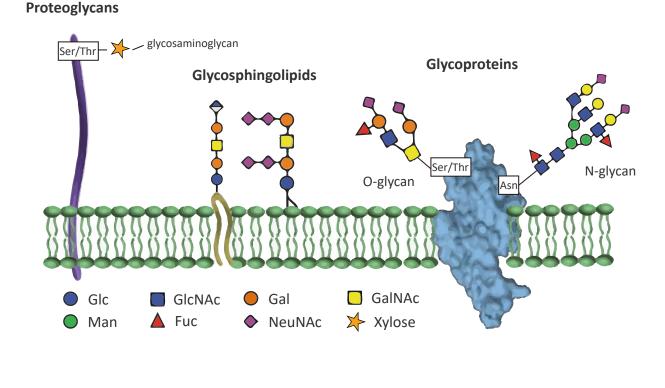
Branched glycans are present as N-linked and O-linked glycosylation on glycoproteins or on glycolipids.



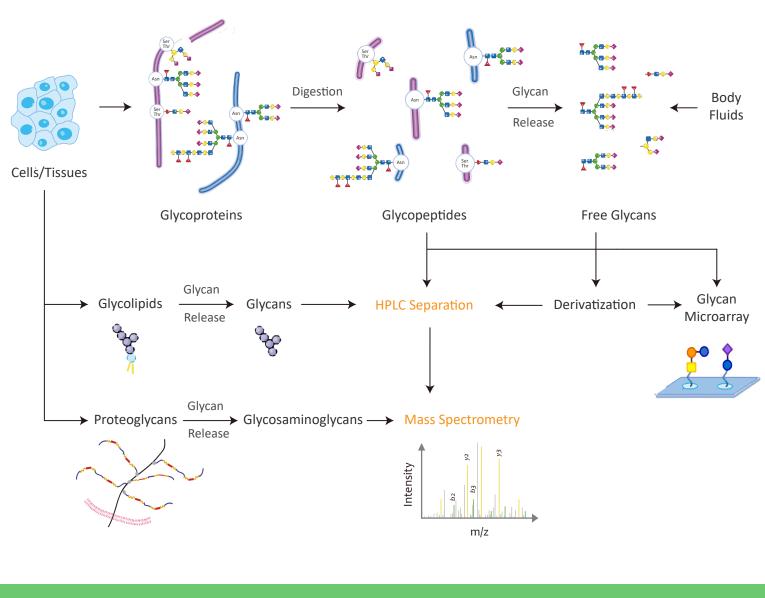


( Figure reference to Hyun J Y. et al., 2017)

# Major Classes of Glycans



**GENERAL GLYCOMICS STRATEGIES** 



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SERVICES AND ADVANTAGES



Best After-sale Service

Poysaccharide Analysis

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