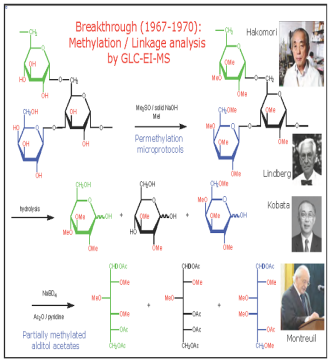
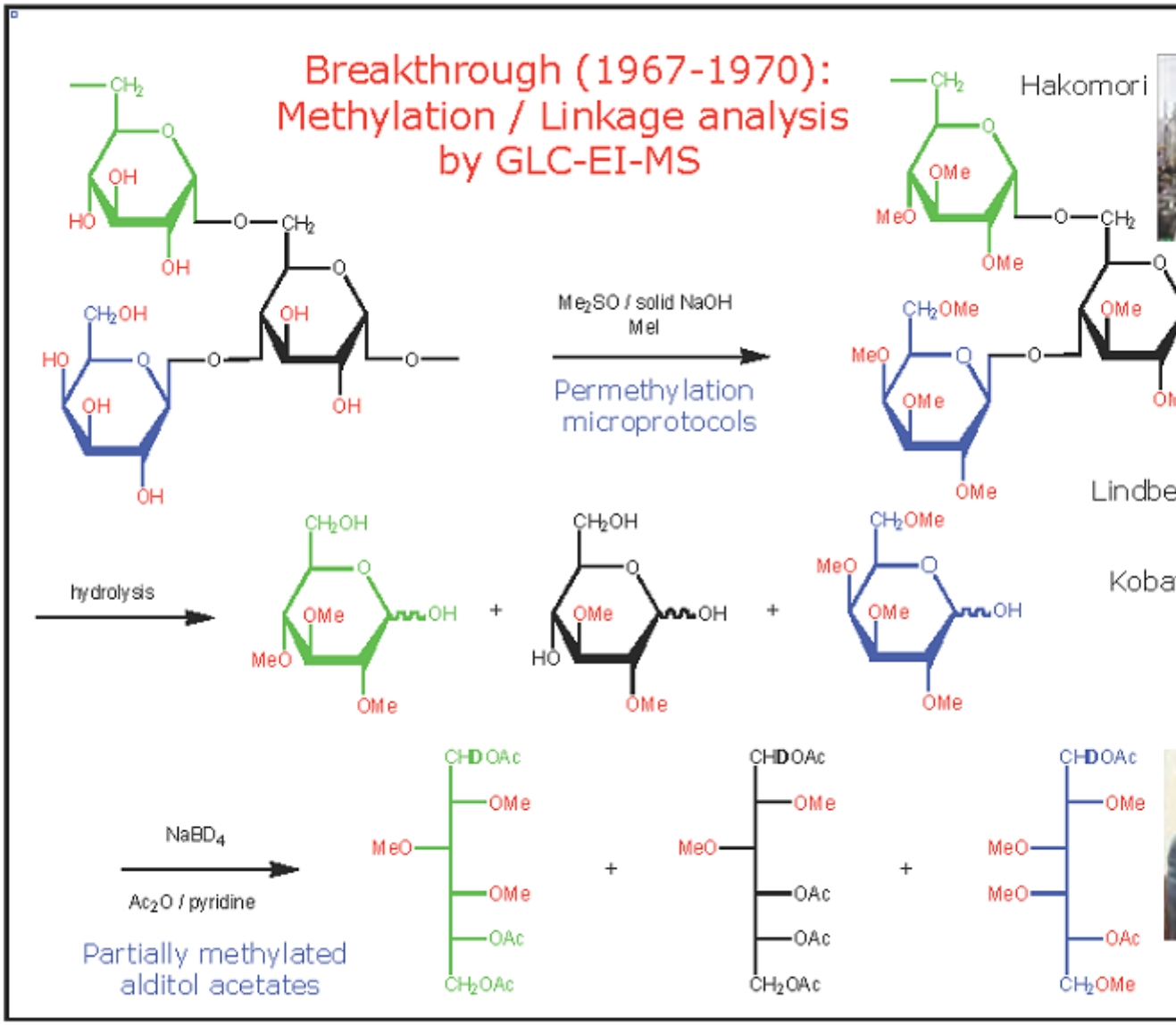


Glycosidic Linkage Analysis

Description

Methylation – Glycan -Polysaccharides



= Gal = Glc = GlcNAc = GalNAc
= Man = Fuc = Neu5Ac

O-glycans

Glycoprotein glycan analysis at Utrecht University

protein

360 MHz ^{1}H NMR spectroscopy. First instrument in Europe / National facility.
1974

N-glycans

Development of 1D ^{1}H structural-reporter-gro concept (library), base typical chemical shifts the bulk proton region

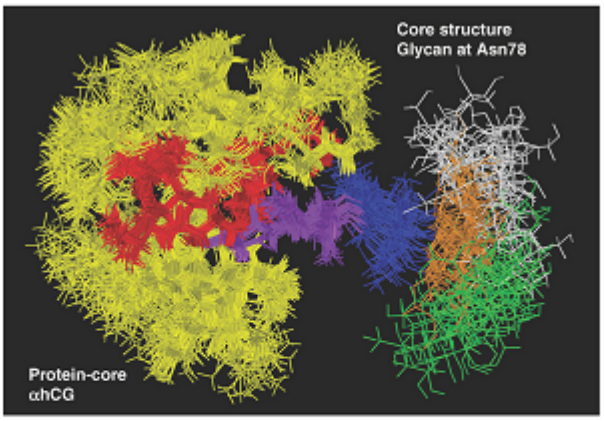
(International) collabo

A time of structure revisions and finding new elements

Glycoproteins from physiological body fluids and plants.

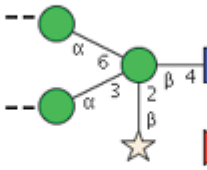
Rec. therapeutic glycoproteins (e.g. EPO, antibodies, FSH, α-glucosidase).

Urinary oligosaccharides from patients with lysosomal diseases. First sialidosis patient in Netherlands.

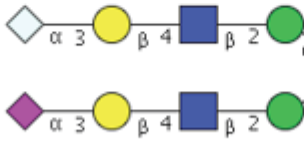


NMR of intact glycoproteins, e.g. structure of α-hCG

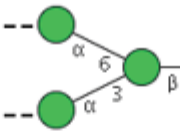
Plant GPs and hemocyanins

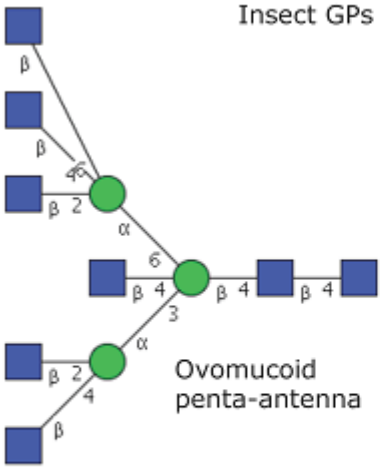


Rec. GPs Neu5Gc

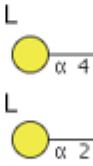


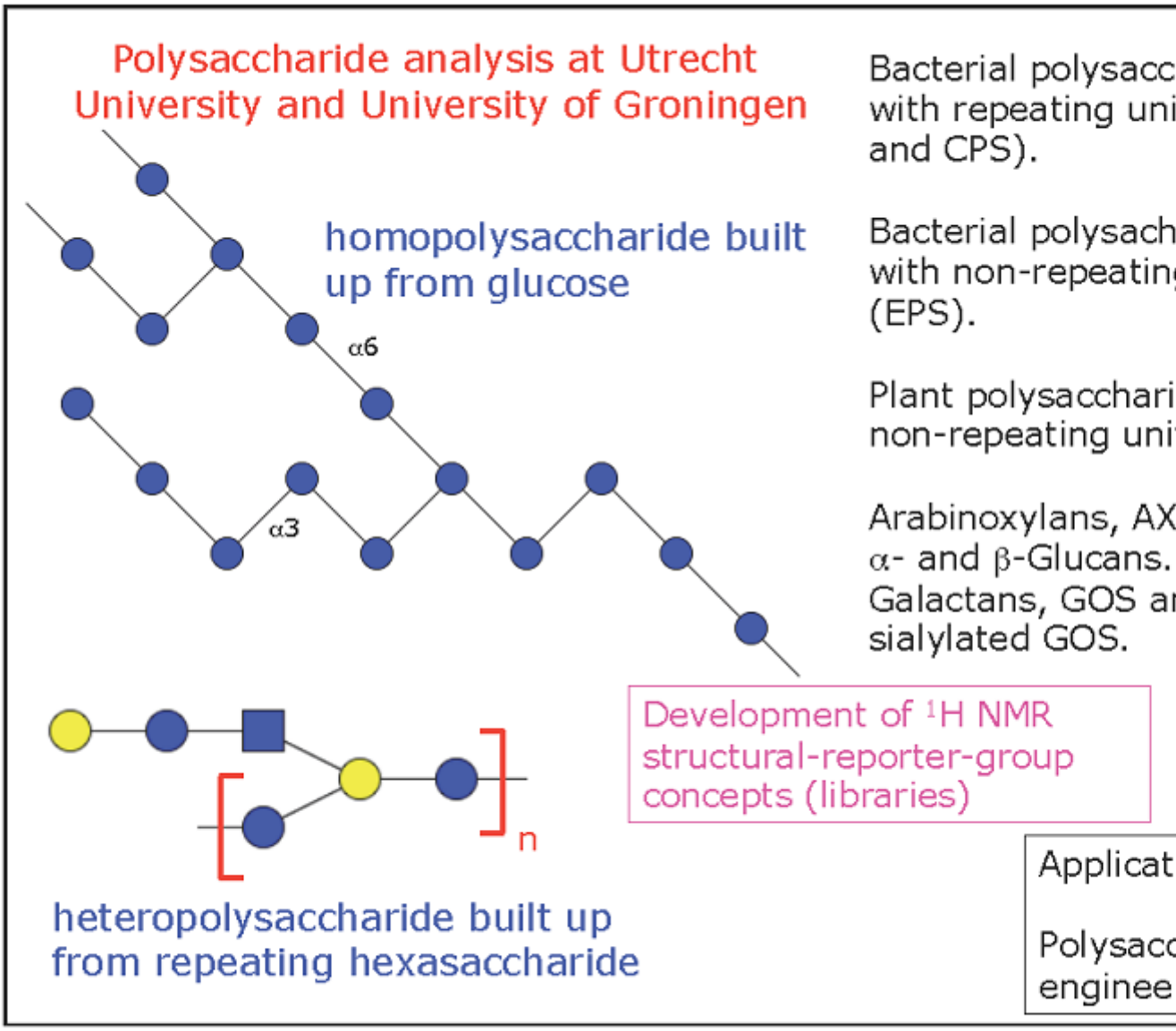
Insect GPs





Ovomucoid penta-antenna





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1. News