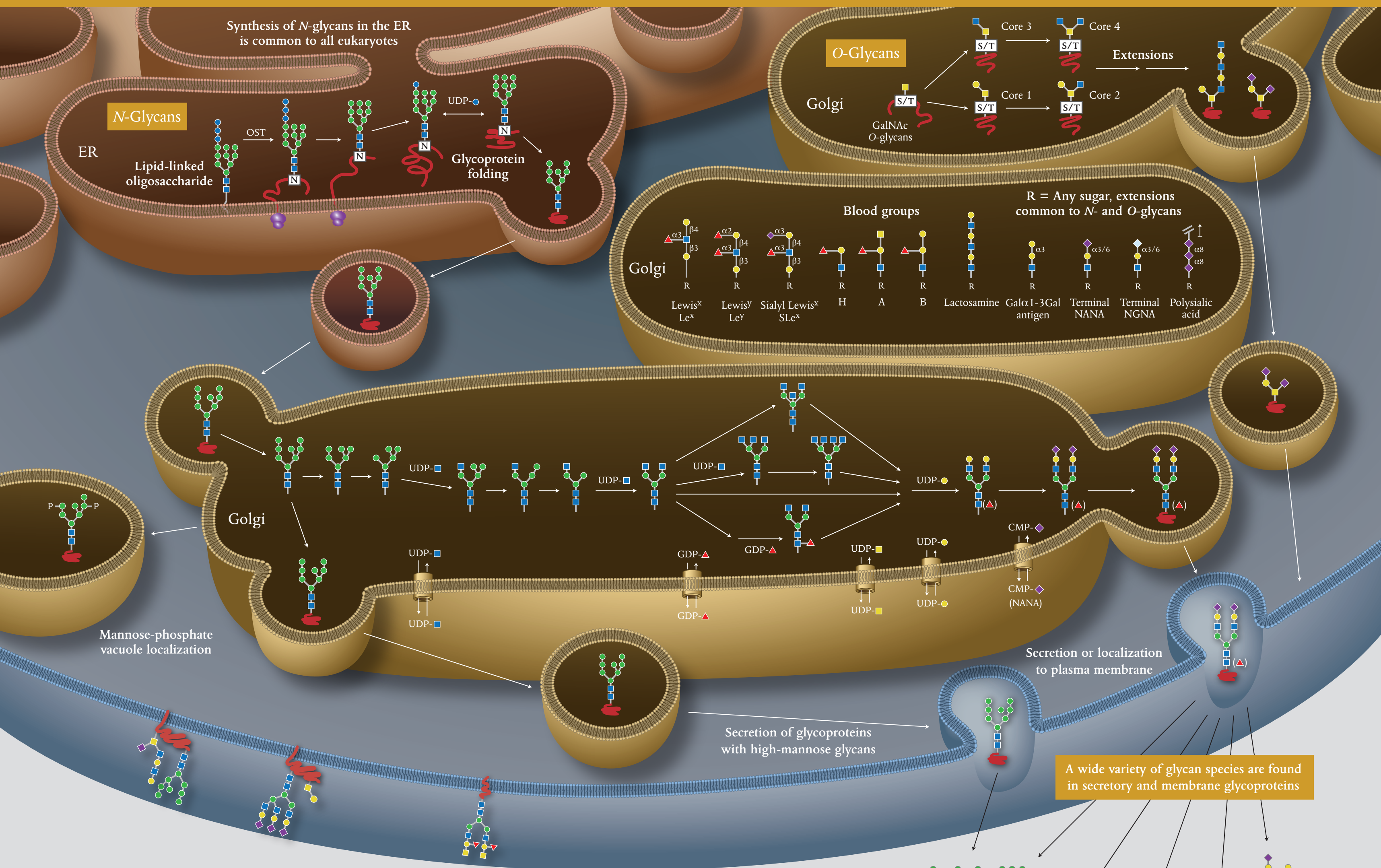


# GLYCOSYLATION

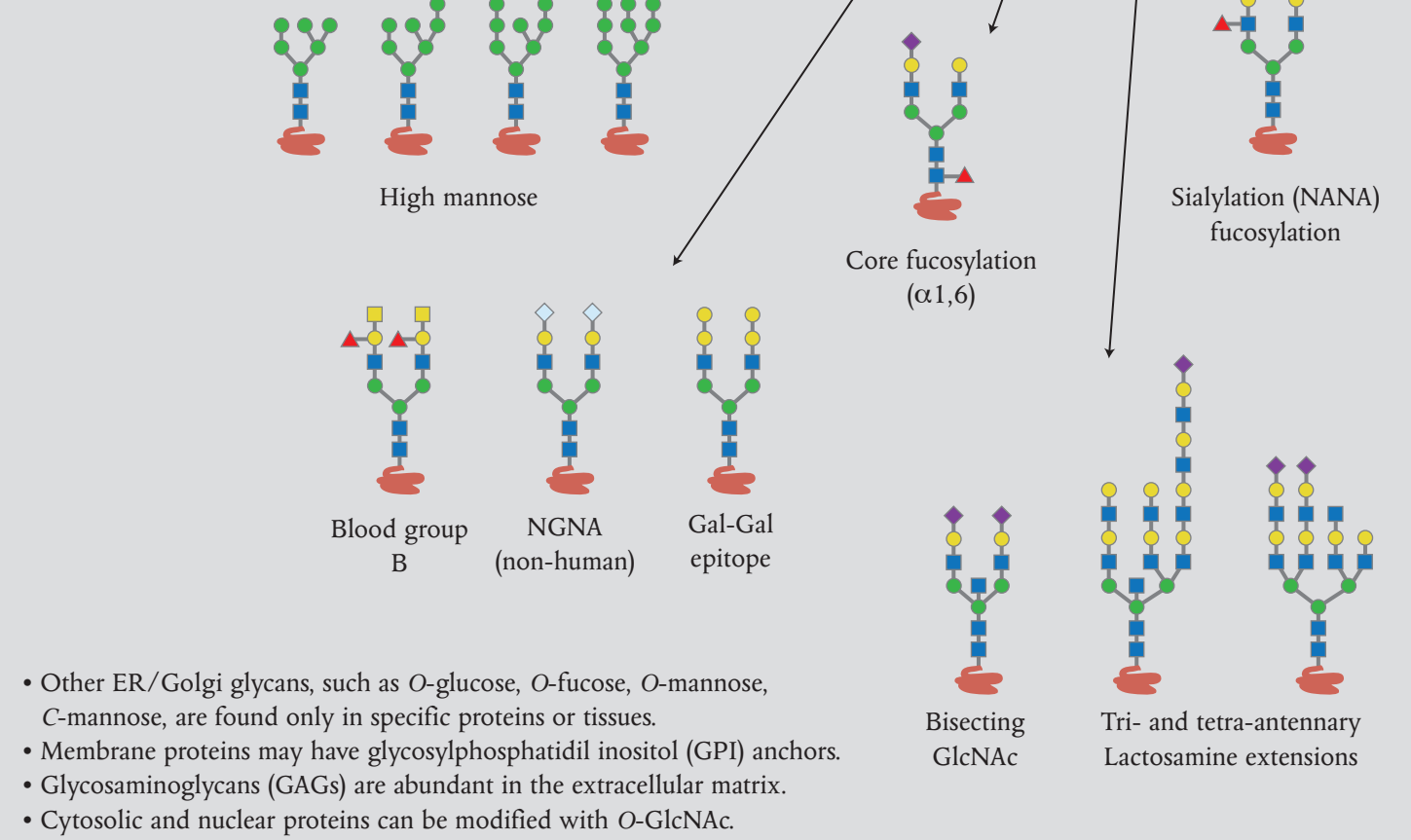
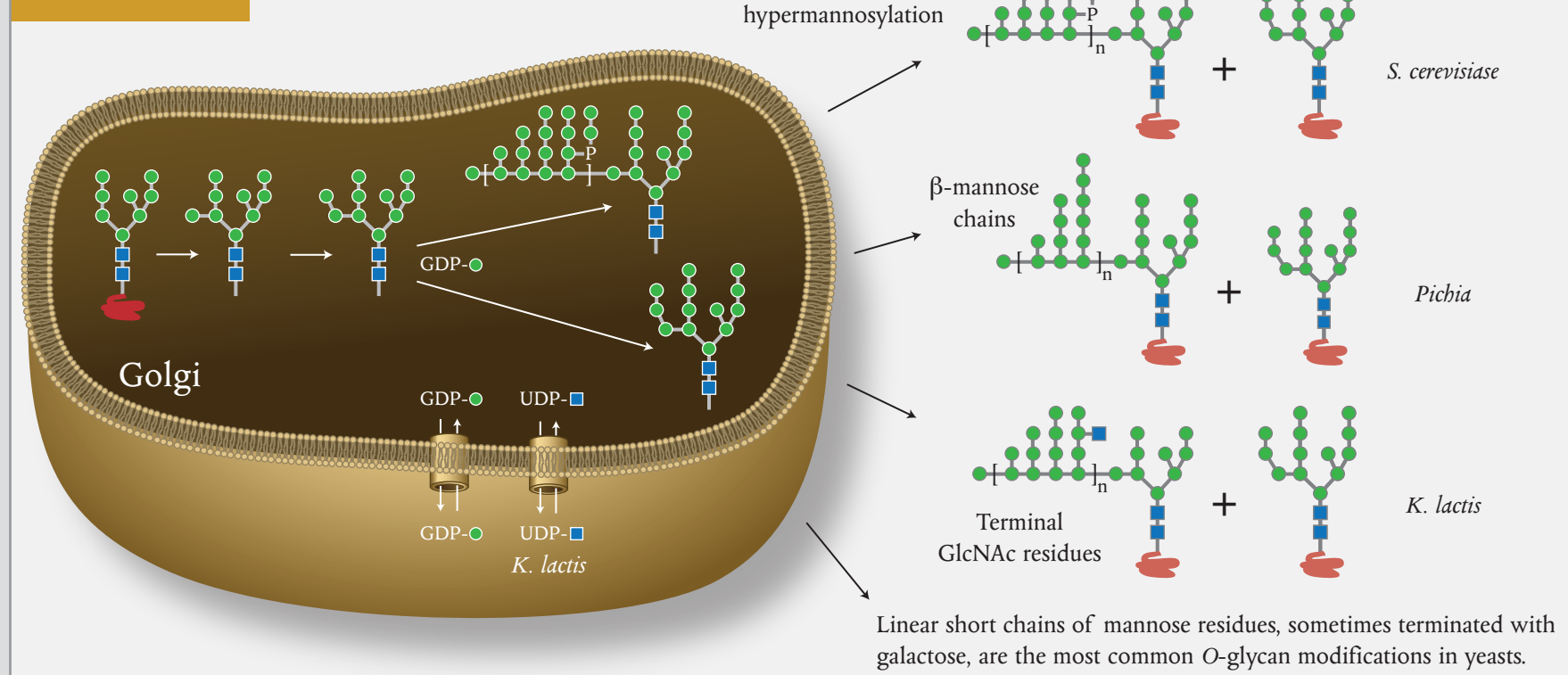
PROTEIN MODIFICATIONS IN DIFFERENT EXPRESSION SYSTEMS



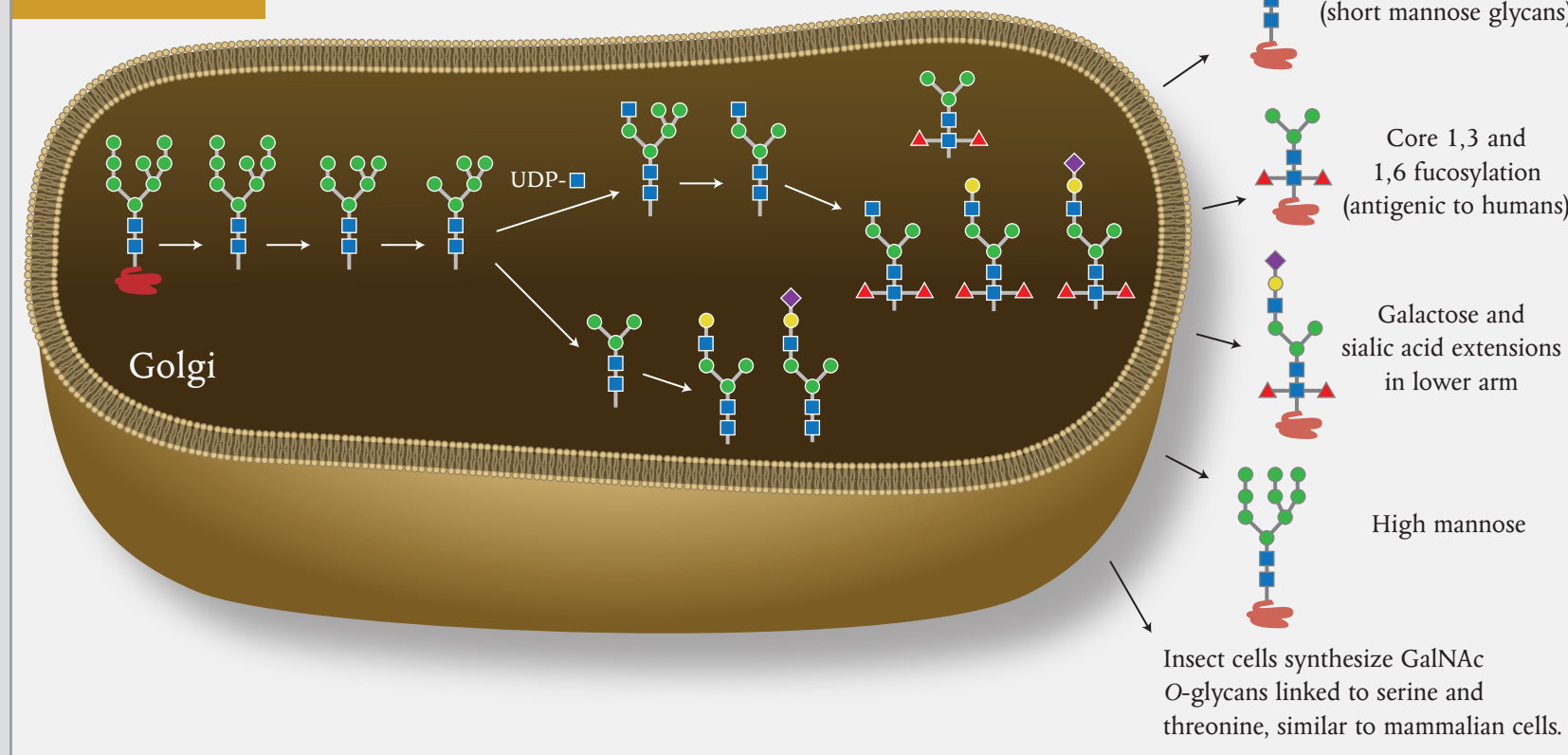
## Mammalian cells



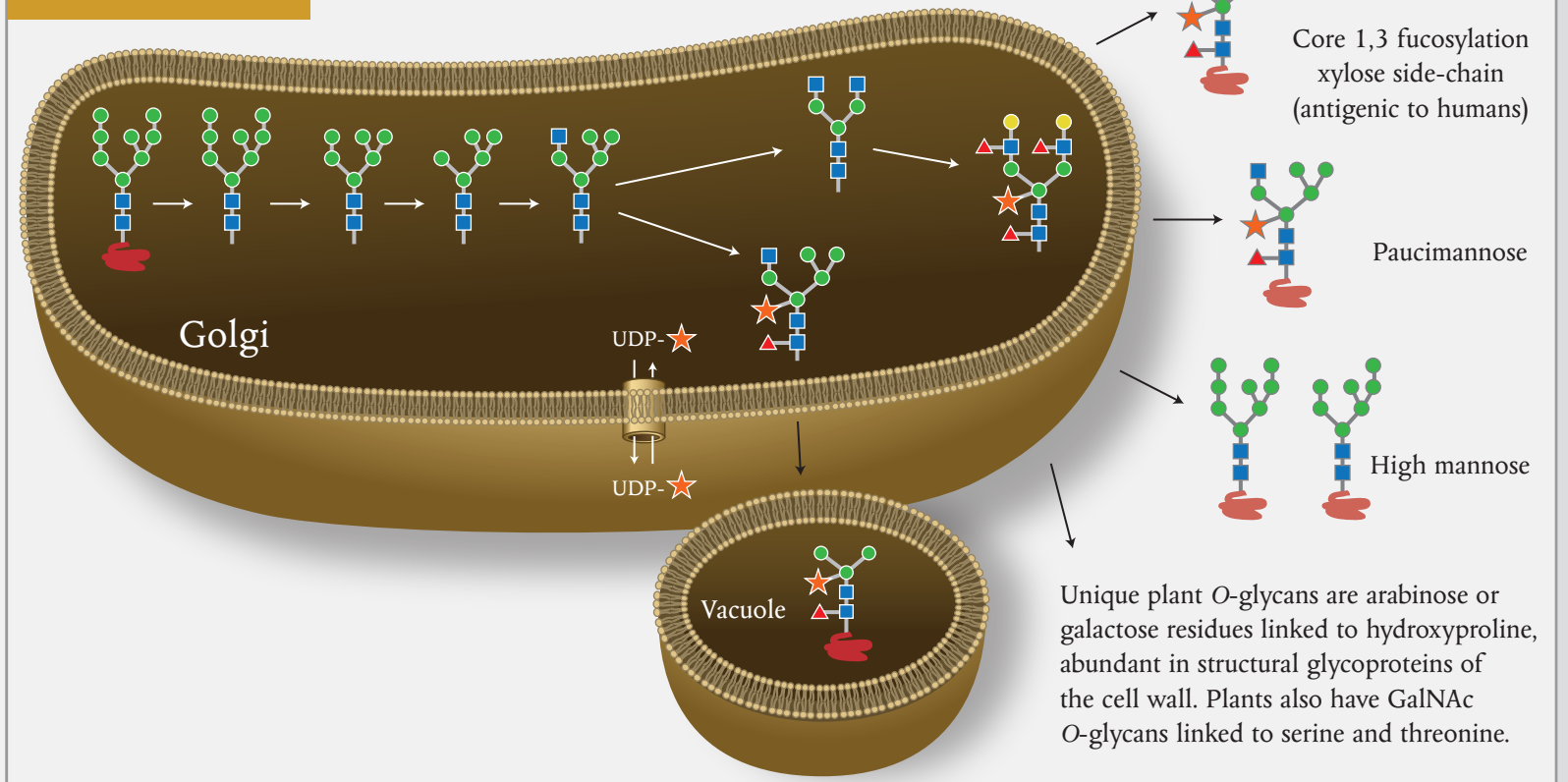
## Yeasts



## Insects



## Plants



Ref: Yarki, et al. *Essentials of Glycobiology, Second Edition*. New York: Cold Spring Harbor Laboratory Press, 2009.

P = Phosphate residue ● Gal ● Glc ● Man ● GalNAc ● GlcNAc ▲ Fuc ◆ NeuAc (NANA) ◇ NeuGc (NGNA) ★ Xyl

## PRODUCTS FROM NEW ENGLAND BIOLABS®

### Deglycosylation Enzymes

- NEW – Rapid PNGase F
- PNGase F & PNGase F (Glycerol-free)
- PNGase F & PNGase F (GF), Recombinant
- Protein Deglycosylation Mix
- Endo H & Endo H<sub>f</sub>
- O-Glycosidase
- Remove-iT® Endo S
- Remove-iT Endo D
- Remove-iT PNGase F

### Exoglycosidase Enzymes

- α-N-Acetylgalactosaminidase
- β-N-Acetylglucosaminidase
- β-N-Acetylhexosaminidase<sub>f</sub>

### Exoglycosidase Enzymes (cont'd)

- β-N-Acetylglucosaminidase S
- α-1-2 Fucosidase
- α-1-2,4,6 Fucosidase
- α-1-3,6 Galactosidase
- α-1-3,4,6 Galactosidase
- β-1-3 Galactosidase
- β-1-4 Galactosidase
- β-1-4 Galactosidase S
- α-1-2,3 Mannosidase
- α-1-6 Mannosidase
- α-2-3,6,8 Neuraminidase
- α-2-3,6,8,9 Neuraminidase A
- α-2-3 Neuraminidase
- α-2-3 Neuraminidase S

### Glycoproteomics

- Trypsin-digested BSA MS Standard (CAM Modified)
- Trypsin-ultra™, Mass Spectrometry Grade
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- Endoproteinase AspN
- Proteinase K, Molecular Biology Grade

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- *Bacteroides* Heparinase I
- *Bacteroides* Heparinase II
- *Bacteroides* Heparinase III

### Other Related Products

- *K. lactis* Expression Kit
- RNase B Standard
- Fetuin Glycoprotein Standard

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