

Disciplina: SLC0673

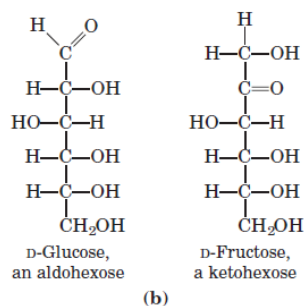
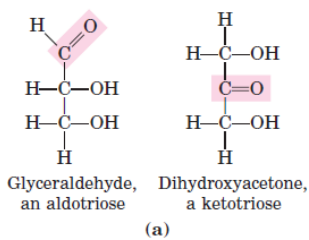
Carboidratos

Prof. Dr. Andrei Leitão

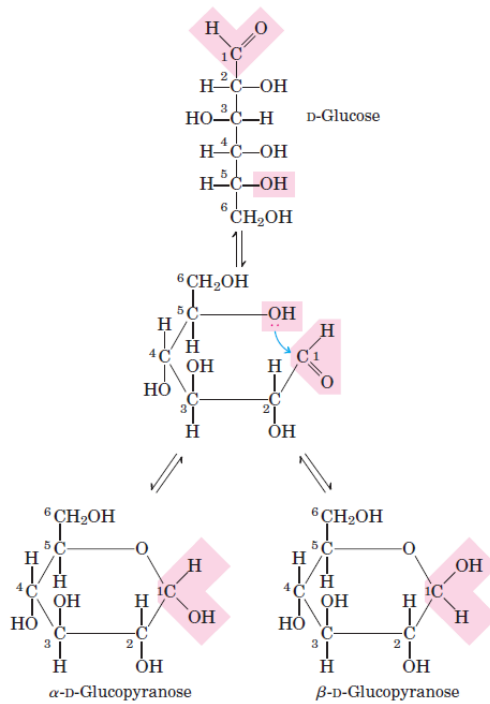
Carbohydrates

Two Families of Monosaccharides

Aldoses and Ketoses

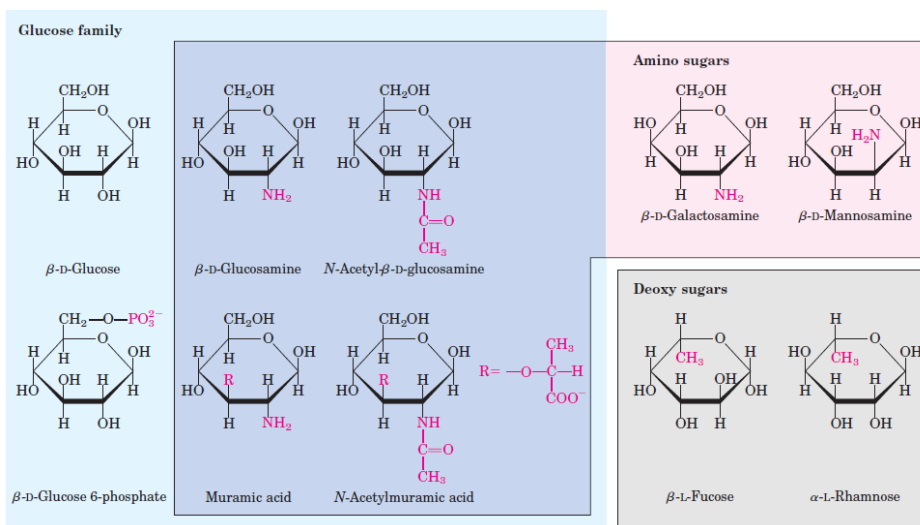


Stereoisomerism



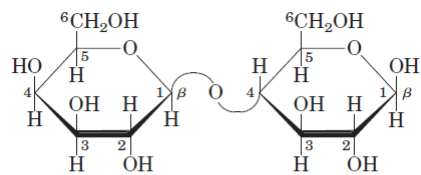
3

Some hexose derivatives

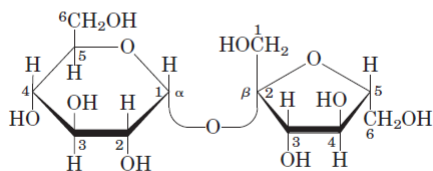


4

Some disaccharides



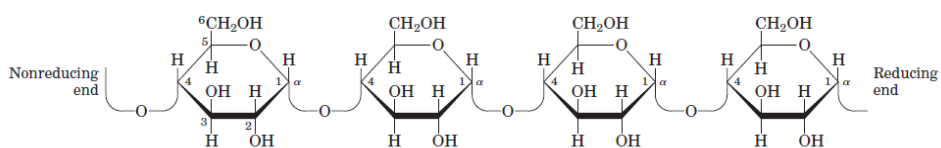
Lactose (β form)
 β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-glucopyranose
 Gal(β 1 \rightarrow 4)Glc



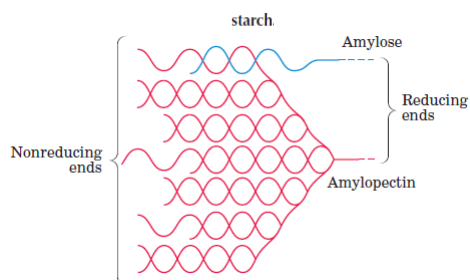
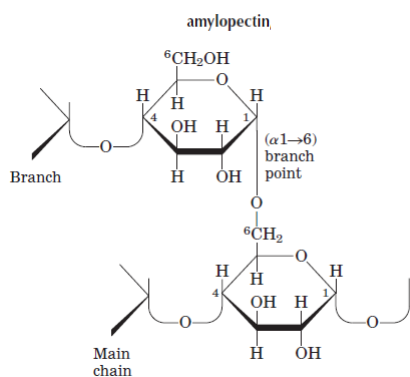
Sucrose
 α -D-glucopyranosyl β -D-fructofuranoside
 Glc(α 1 \leftrightarrow 2 β)Fru

7

Some polysaccharides

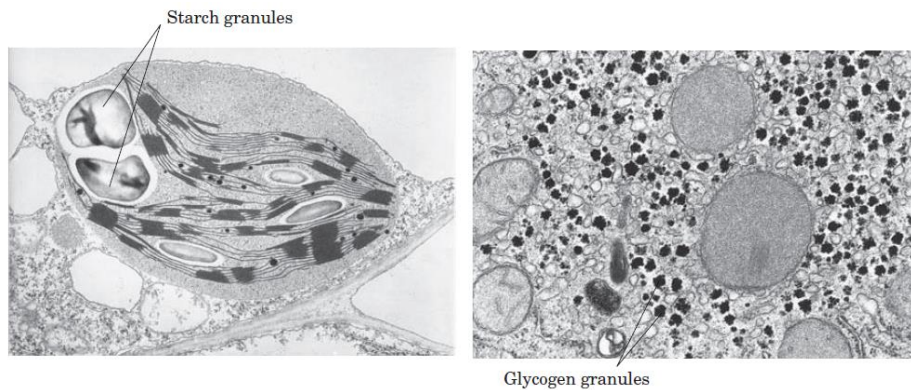


(a) amylose



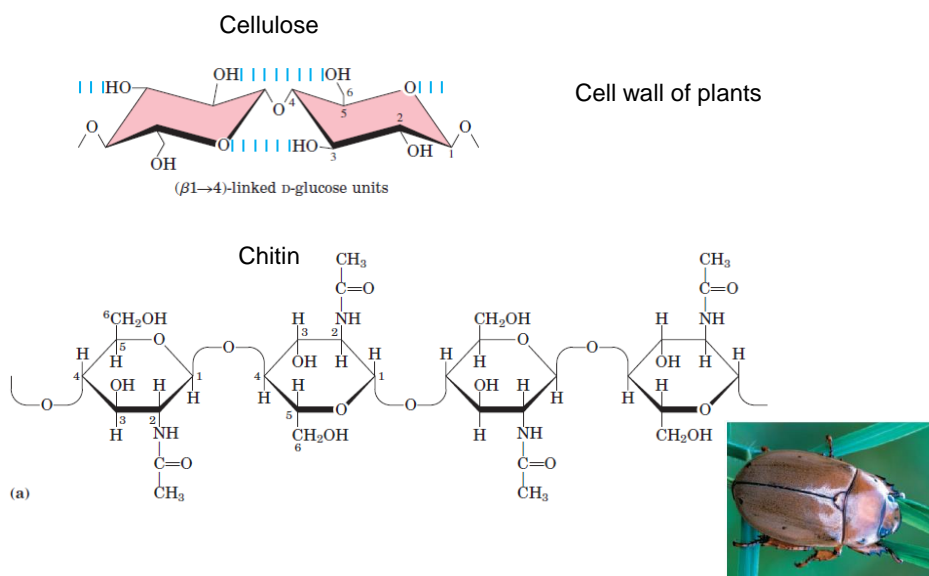
8

Polysaccharides inside the cell

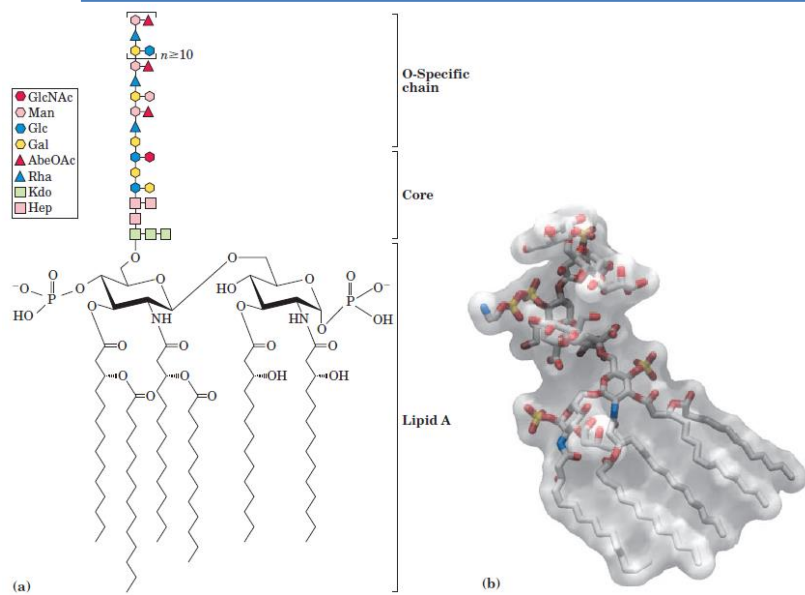


9

Polysaccharides outside the cell



Bacterial lipopolysaccharides



11