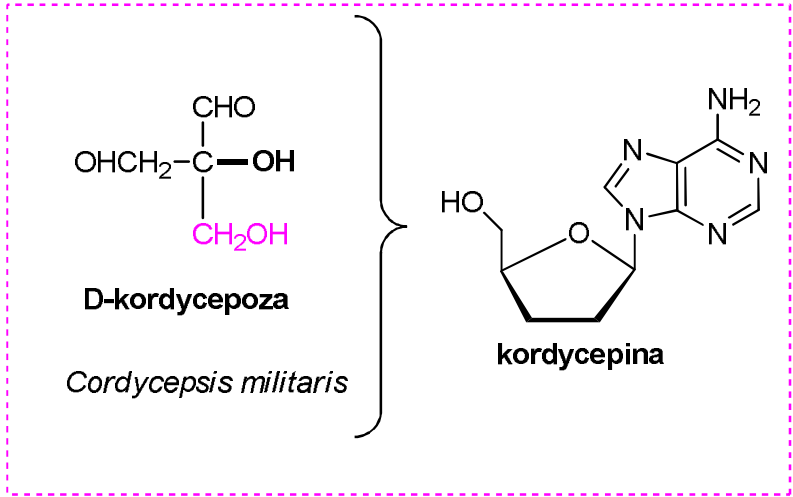
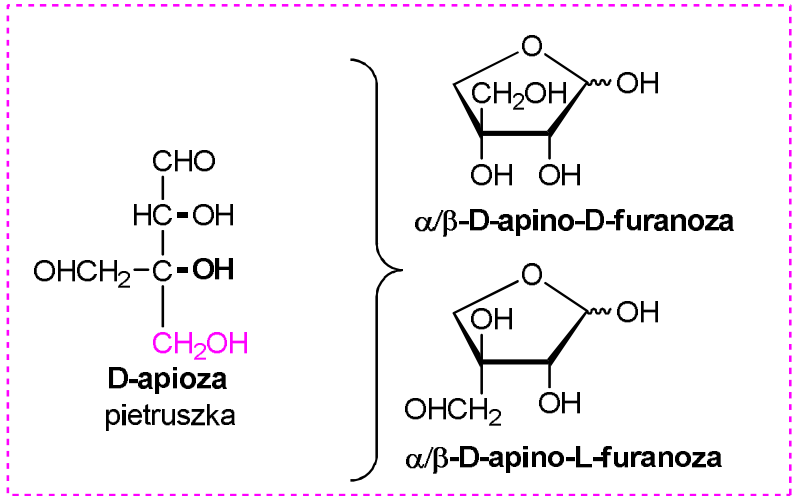
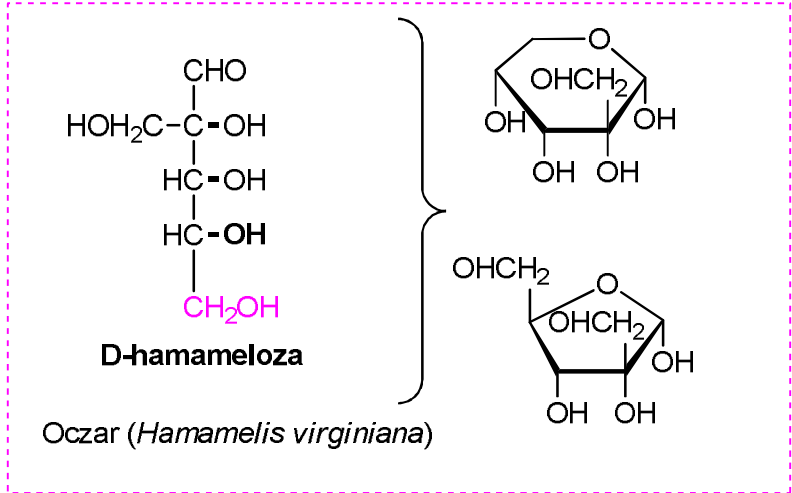
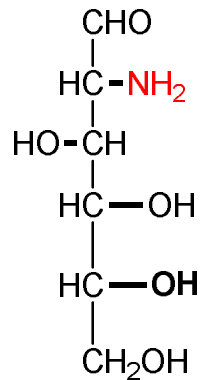


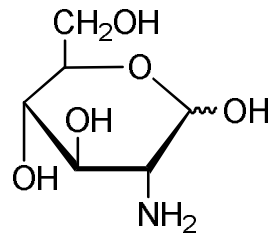
Monoacharydy rozgałęzione



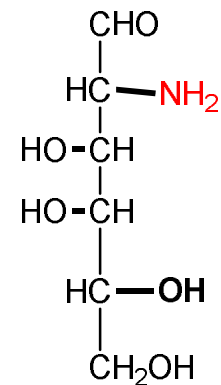
Amino - Monoacharydy (aminocukry)



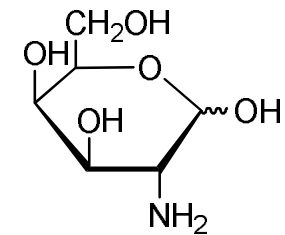
2-amino-2-deoksy-D-glukoza
glukozamina



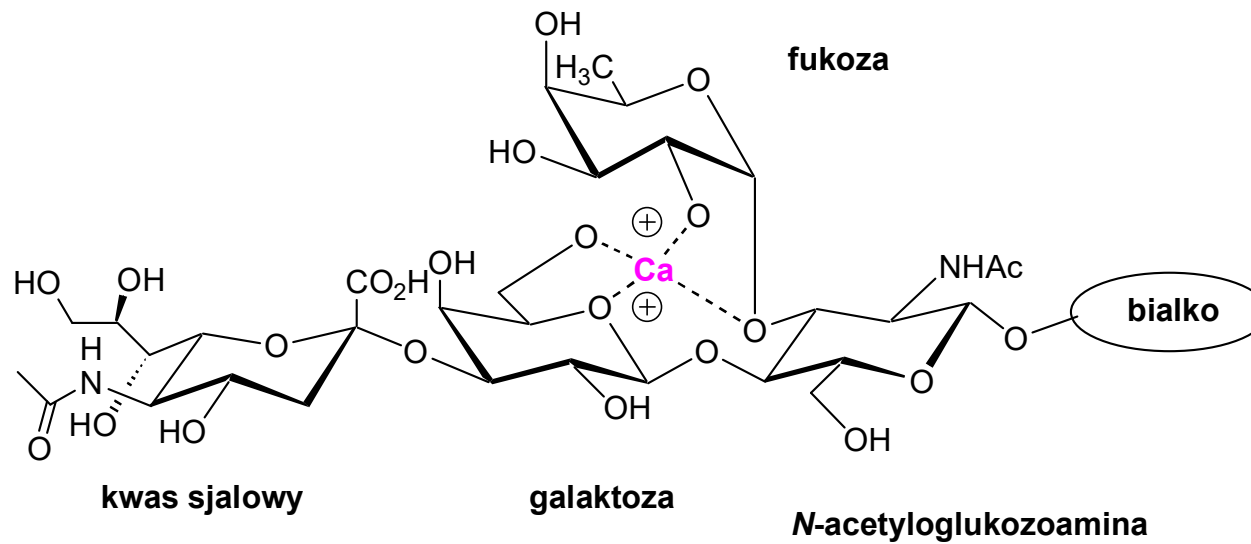
chitozamina



2-amino-2-deoksy-D-galaktoza



Aminocukry – źródło wielofunkcyjności

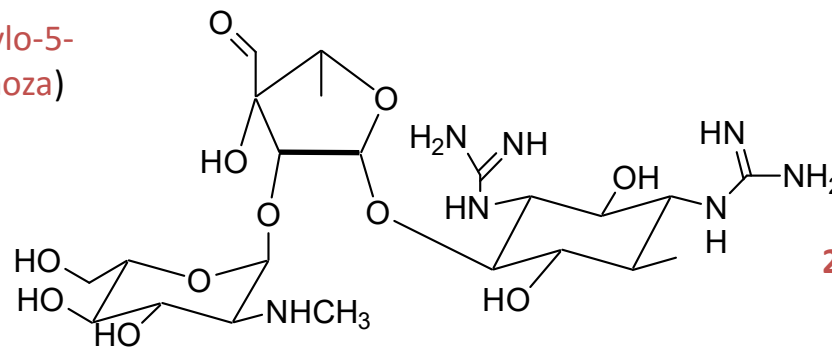


Kompleks bierze udział w adhezji leukocytów do komórek – podniesienie odporności

Amino - Monosacharydy (aminocukry) – c.d

streptomycyna – pseudotricukier

streptoza (3-C-formylo-5-deoksy-L-liksofuranoza)

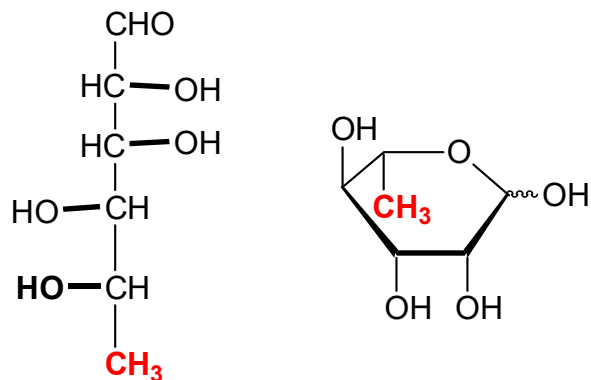


2,4-diguanidyno-mezo-inozyt

N-metylo-2-deoksy-2-amino-L-glukopiranoza

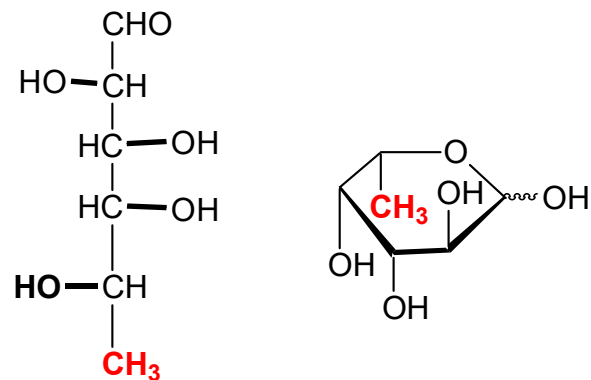
Streptomycyna

Deoksy - Monoacharydy



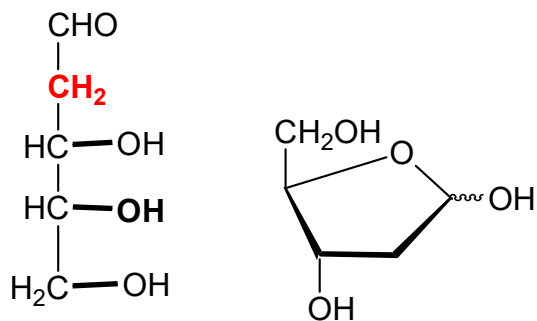
L-ramnoza
6-deoksy-L-mannoza

Szaklak pospolity



L-fukoza
6-deoksy-L-galaktoza

Algi

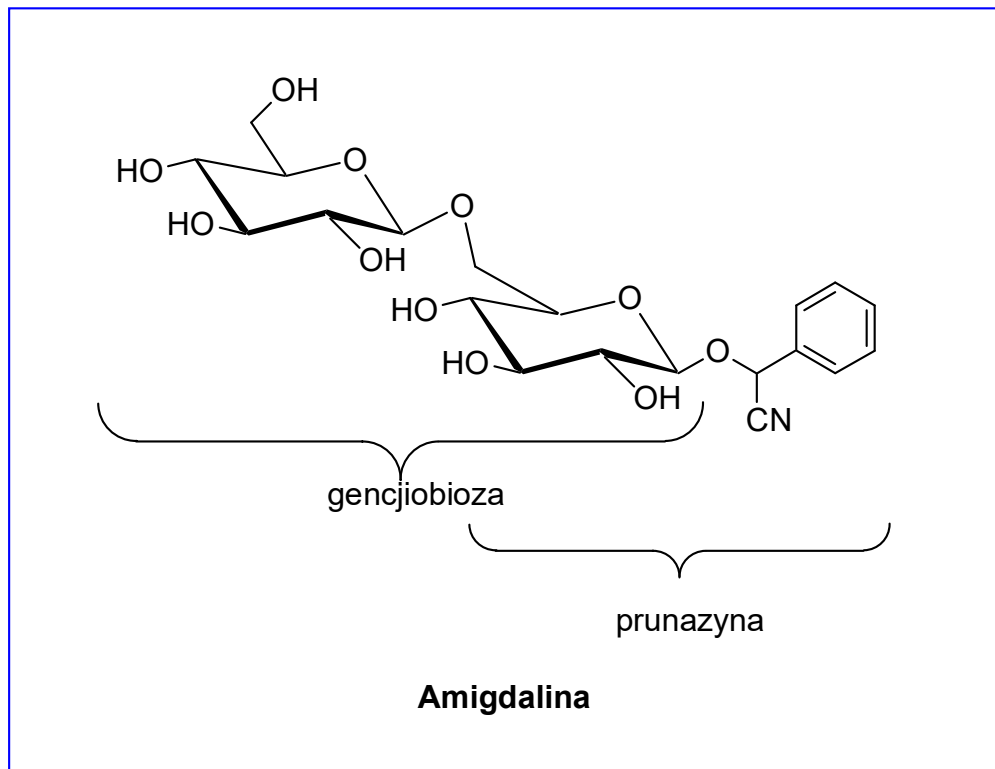


deoksyryboza
2-deoksy- α/β -D-rybofuranaza

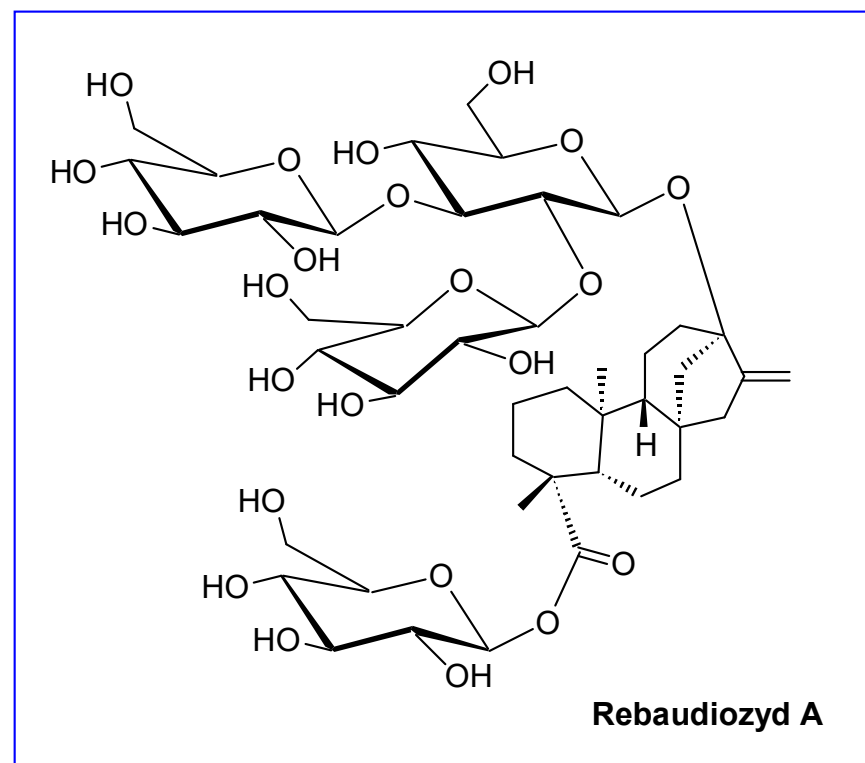
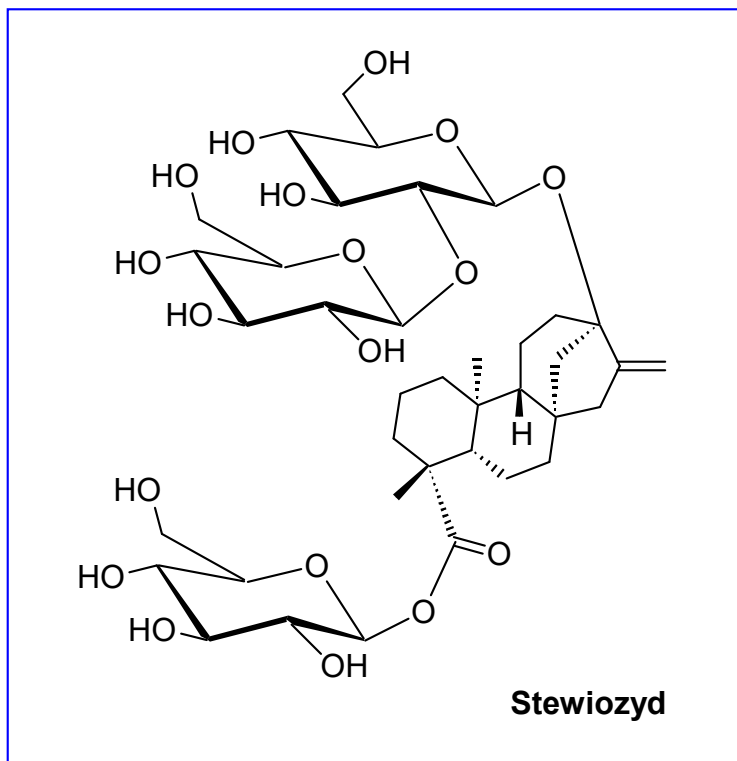
DNA

Glikozydy Monoacharydów

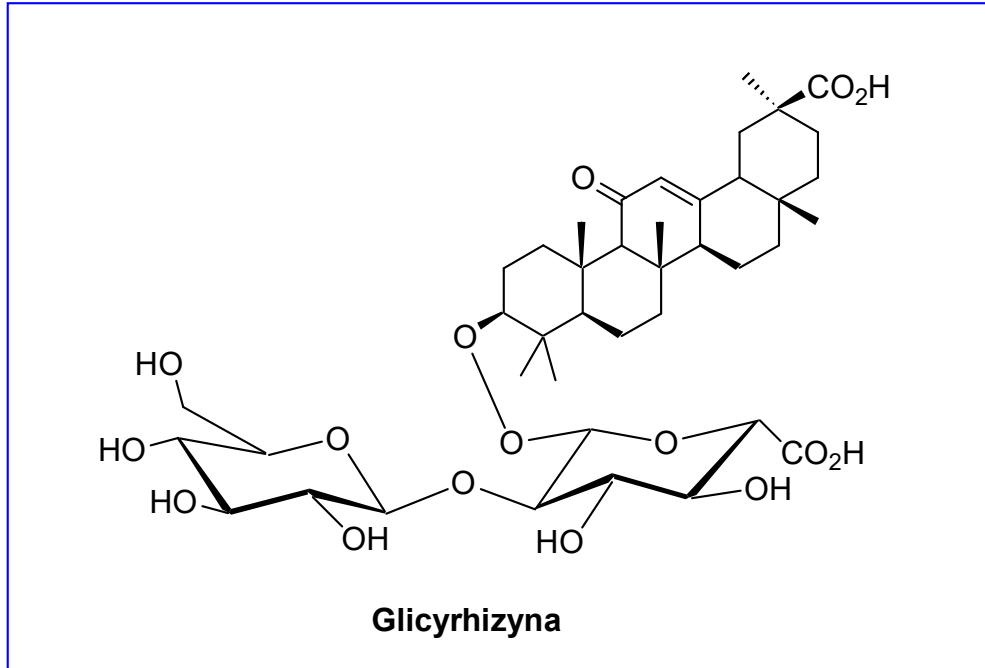
Glikozydy –



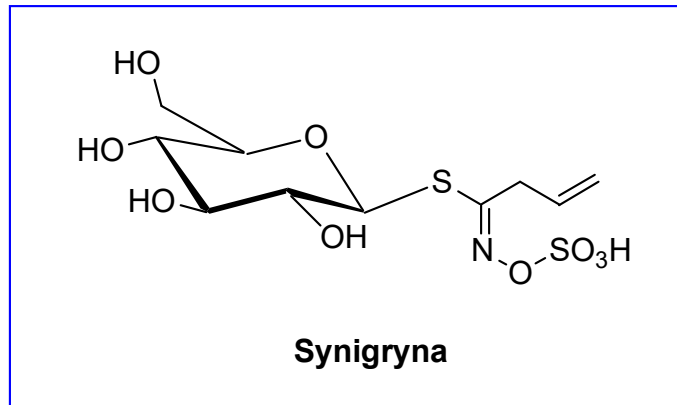
Glikozydy Monoacharydów – najłodsze glikozydy !



Glikozydy Monoacharydów



Glikozydy Monoacharydów - glikozydy goryczkowe

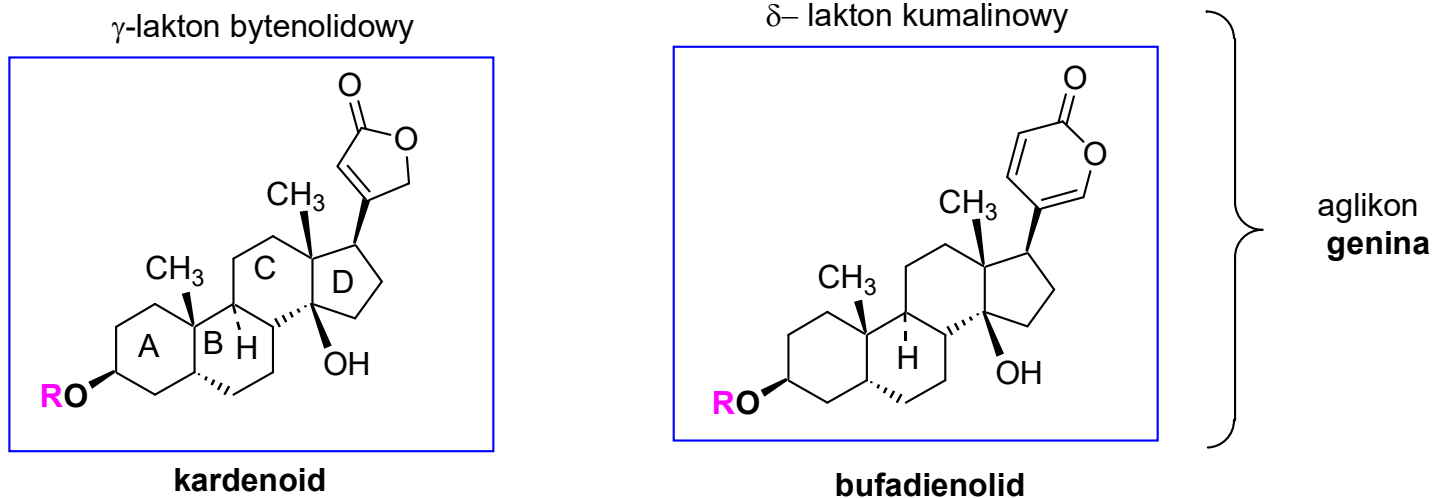


Glikozydy Monoacharydów – **Glikozydy nasercowe**

glikozydy nasercowe

Podział glikozydów nasercowych:

- Kardenolidy –
- Bufadienolidowe –

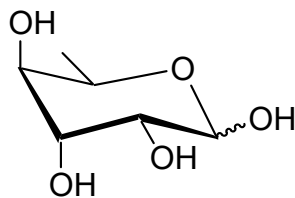


R - reszta cukrowa

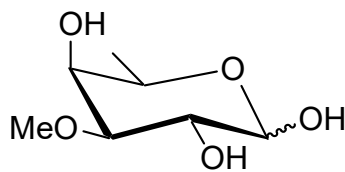
A/B - polacz. *cis*

B/C - polacz. *trans*

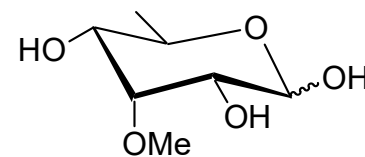
Monosacharydy w Glikozydach nasercowych



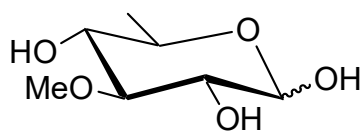
L-ramnoza



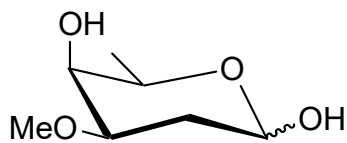
D-digitaloza



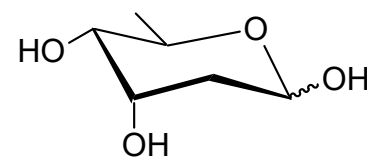
D-cymaroza



D-oleandroza

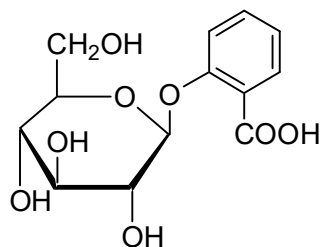


D-diginoza

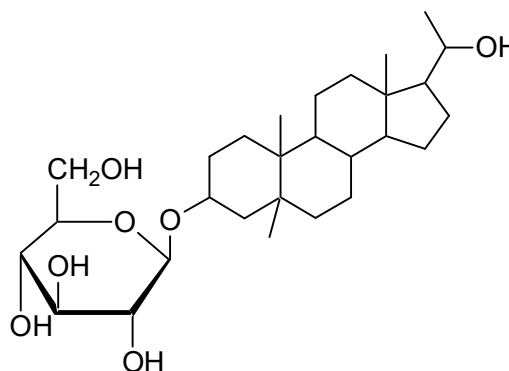


D-digitoksoza

Glikozydy - przykłady



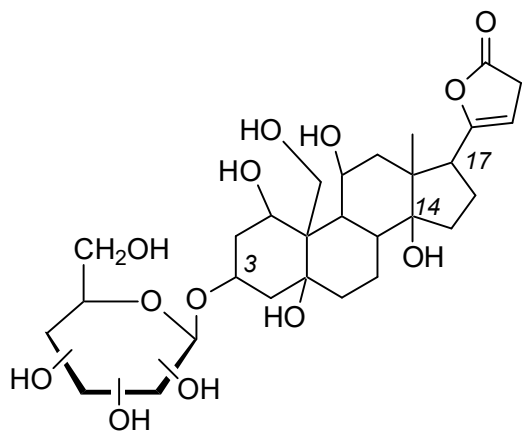
glukuronid kwasu salicylowego
(salicylo- β -D-glukuronopiranozyd)



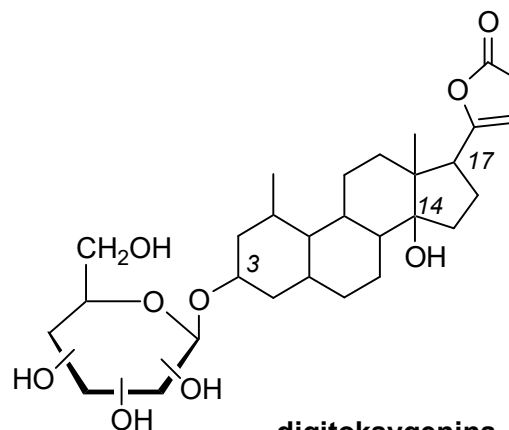
glukuronid pregnandiolu
(pregnandiolo- β -D-glukuronopiranozyd)



naparstnica purpurowa
Digitalis purpurea



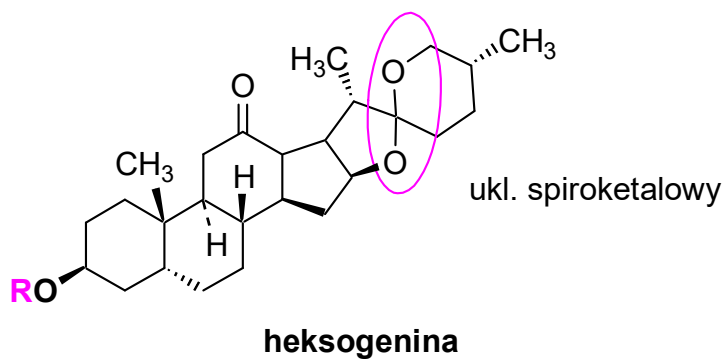
strofantyna G
(ouabaina)



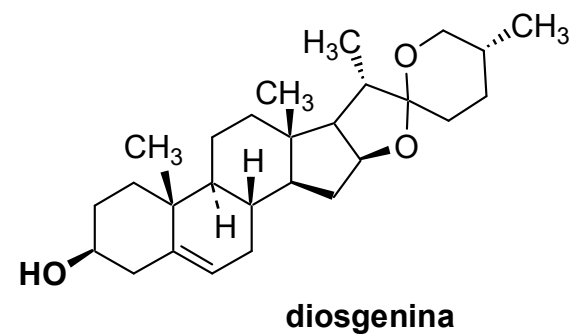
digitoksygenina

glikozydy kardiotoniczne

Glikozydy Monoacharydów – Saponiny



z agawy *Agave sisalana*



z bulw *Dioscorea composita*