

Carbohydrates

Session Slides with Notes

This PDF includes the teaching slides the Integrated MCAT Course (www.integrated-mcat.com). Many of the figures used in this presentation are creations of the Integrated MCAT Course, published under a Creative Commons Attribution NonCommercial ShareAlike License. Attribution information for the public license figures which are not our creations, as well as downloadable teaching slides, can be found at www.integrated-mcat.com/image_archive.php.



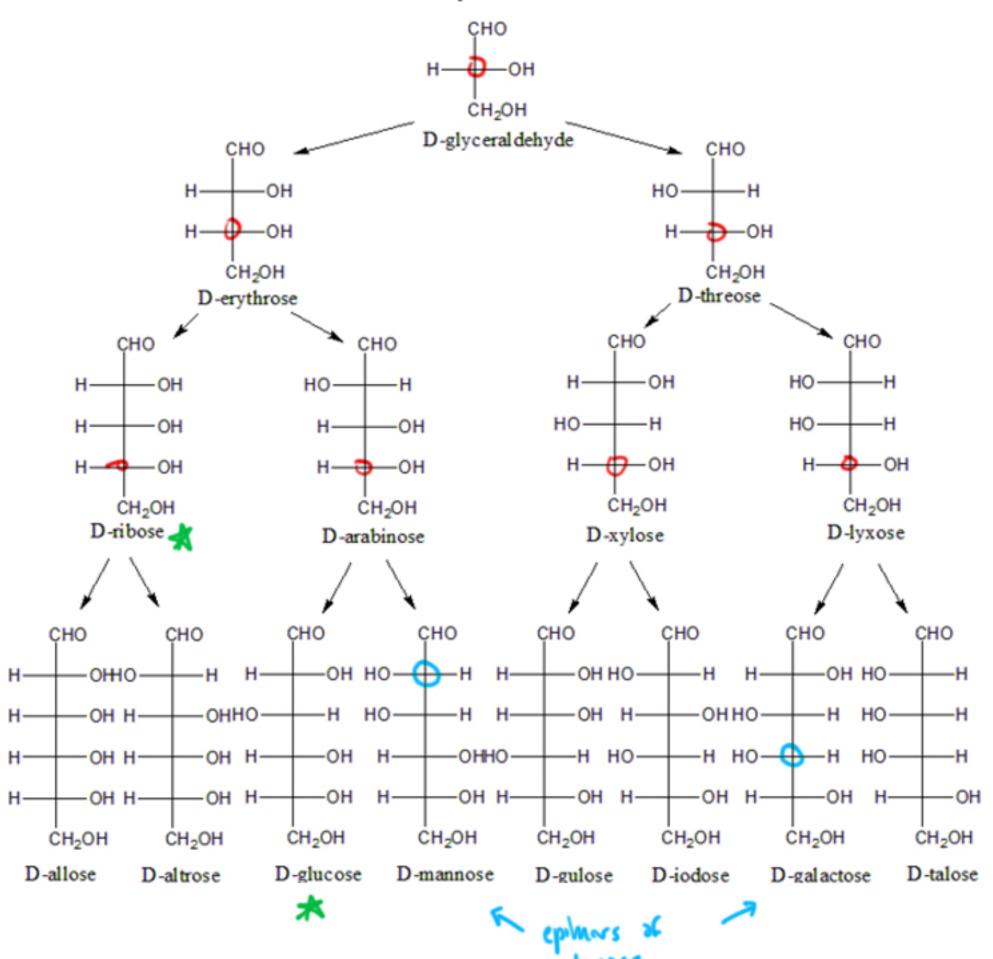
Glycoral delyde

Dilm grownactors snack

(not dor 2)

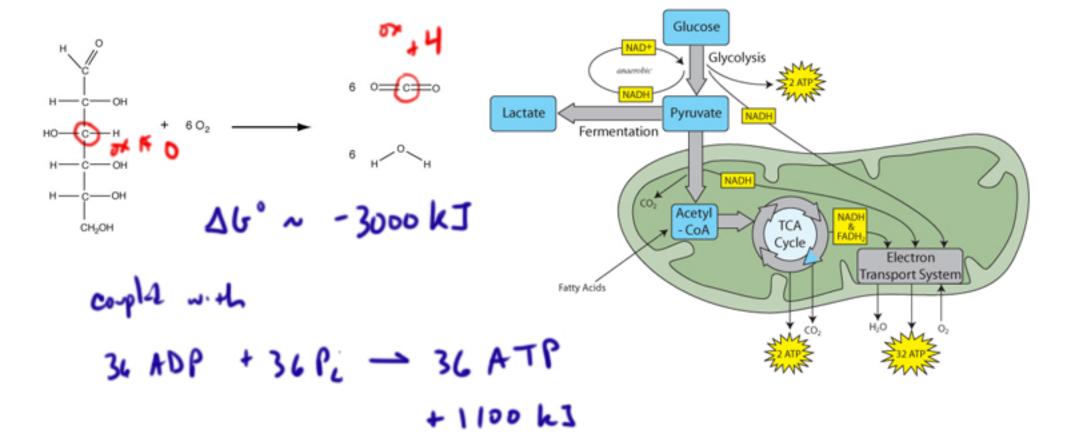
$$N = C: C = 0 \qquad N = C: C = 0 \qquad H = C = 0$$

Steps of the Kiliani-Fischer synthesis of D-glucose and its C-2 epimer, D-mannose, from D-arabinose



Ring Formation in Chrose (Heriacital formation

 $\Delta G^{0} = -2.3RT \log K$ = (-2.5)(8)(300)(0.3) N - 1600 J $\sim -1.6 K J$

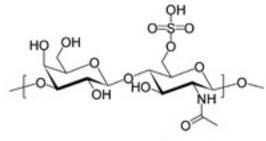


Glucosamhe

Pephdoglycan

Hyaluronate

Dermatan sulfate



Keratan sulfate

Chondroitin 6-sulfate

acidic derivators
of N-acityl glucoranth
in proteoglycan

([A])

N-linked glycosylation to form gly 20 protoms

a sialic acid

ad gangliosides

a kind of joid

sphingolipid

Tibose

Objective Bank Formation

unp Galacter

like stop 2 of acetul formation

B1,4 Lactose

ĊH₂OH

ĊH₂OH

