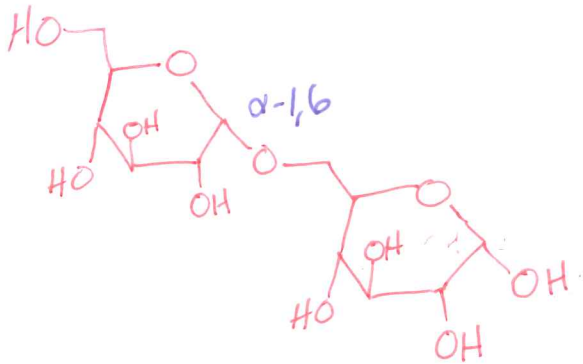
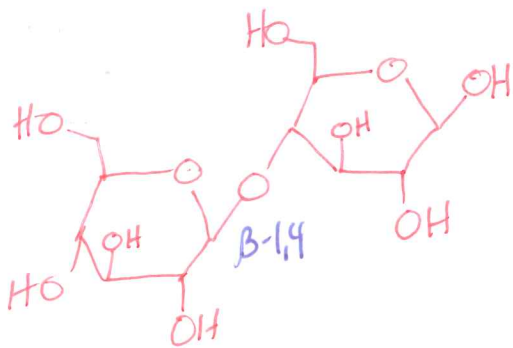


# Lecture 8 HW Key

## ① Glycosidic Bonds b/w 2 D-Glucose units



$\alpha$ -D-Glucopyranosyl  
(1 $\rightarrow$ 6)- $\alpha$ -D-glucopyranoside



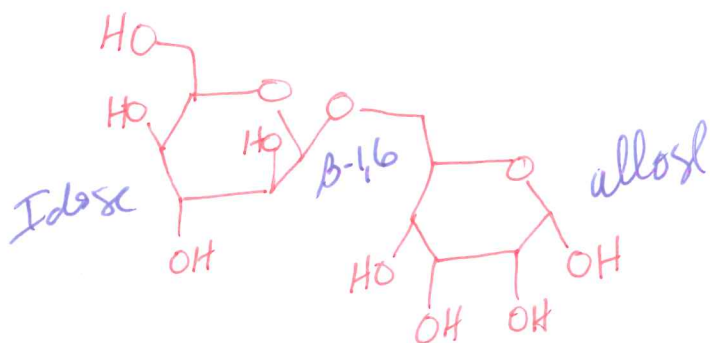
$\beta$ -D-Glucopyranosyl  
(1 $\rightarrow$ 4)- $\beta$ -D-glucopyranoside

2 of many ex's above

- Glucose units can be both  $\alpha$ , both  $\beta$ , or 1 $\alpha$ /1 $\beta$
- Glycosidic bonds can be  $\alpha$  or  $\beta$ ...  
1 $\rightarrow$ 2, 1 $\rightarrow$ 3, 1 $\rightarrow$ 4, or 1 $\rightarrow$ 6

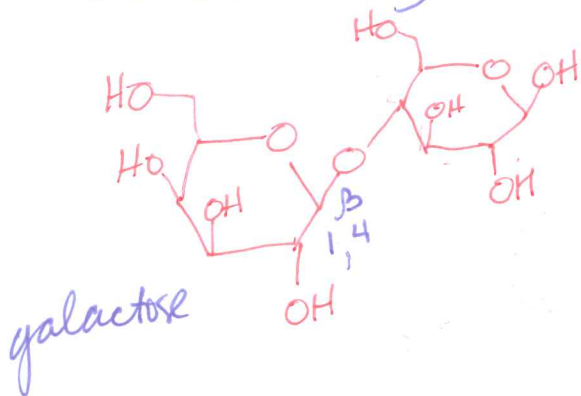
② Haworth

$\beta$ -D-Idopyranosyl-(1 $\rightarrow$ 6)- $\alpha$ -D-allopyranoside  
see L7 HW # 3f see L7 HW # 3a



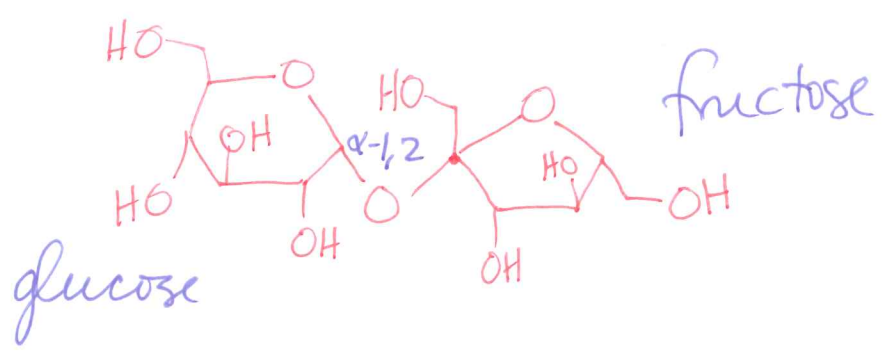
③ Lactose Haworth:

$\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-glucopyranoside  
see L7 HW # 3g (similar) see L7 HW # 3c (similar)



# ④ Sucrose

$\alpha$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-fructofuranoside



# ⑤ Hydrolysis of a disaccharide example from #1

