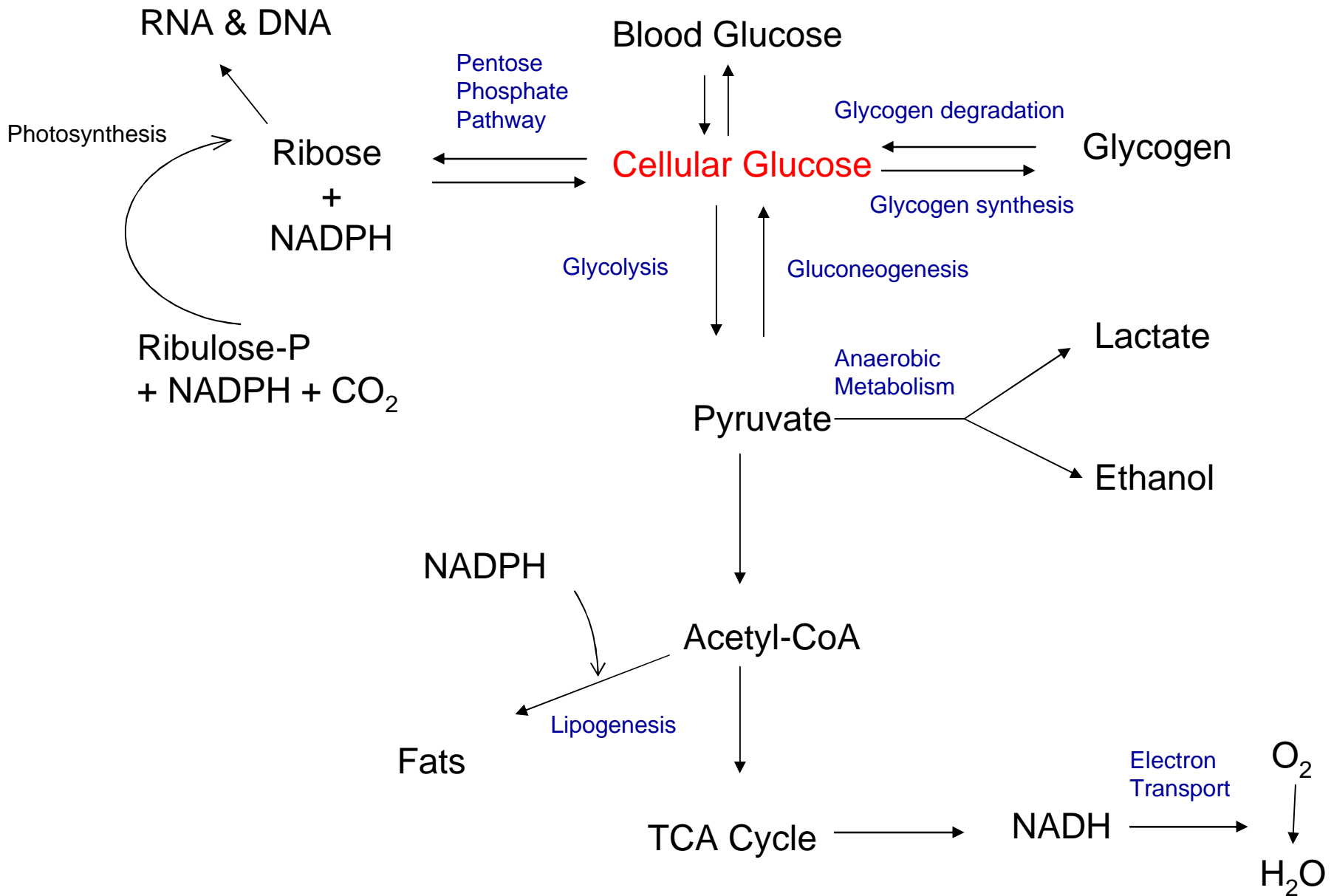
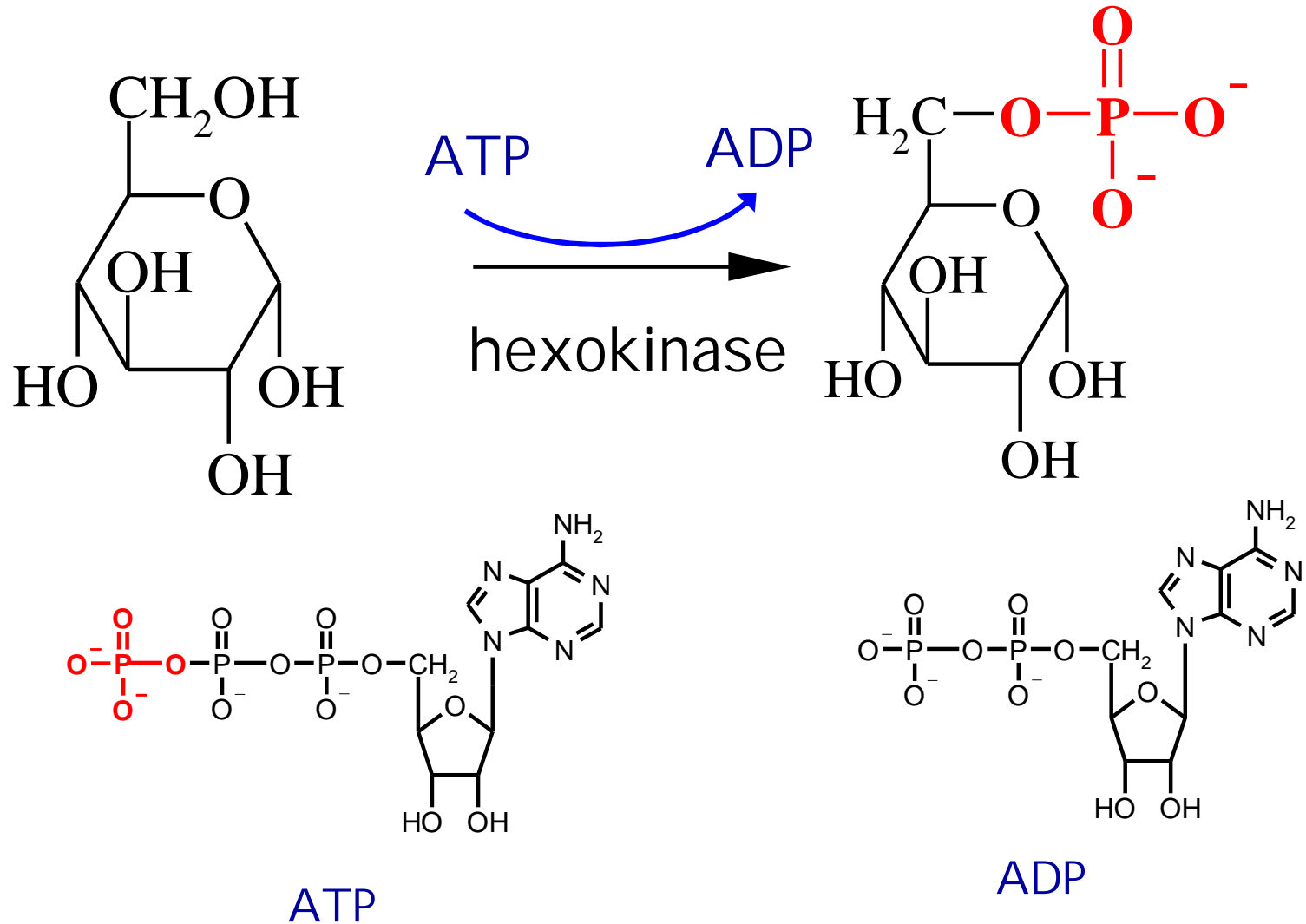


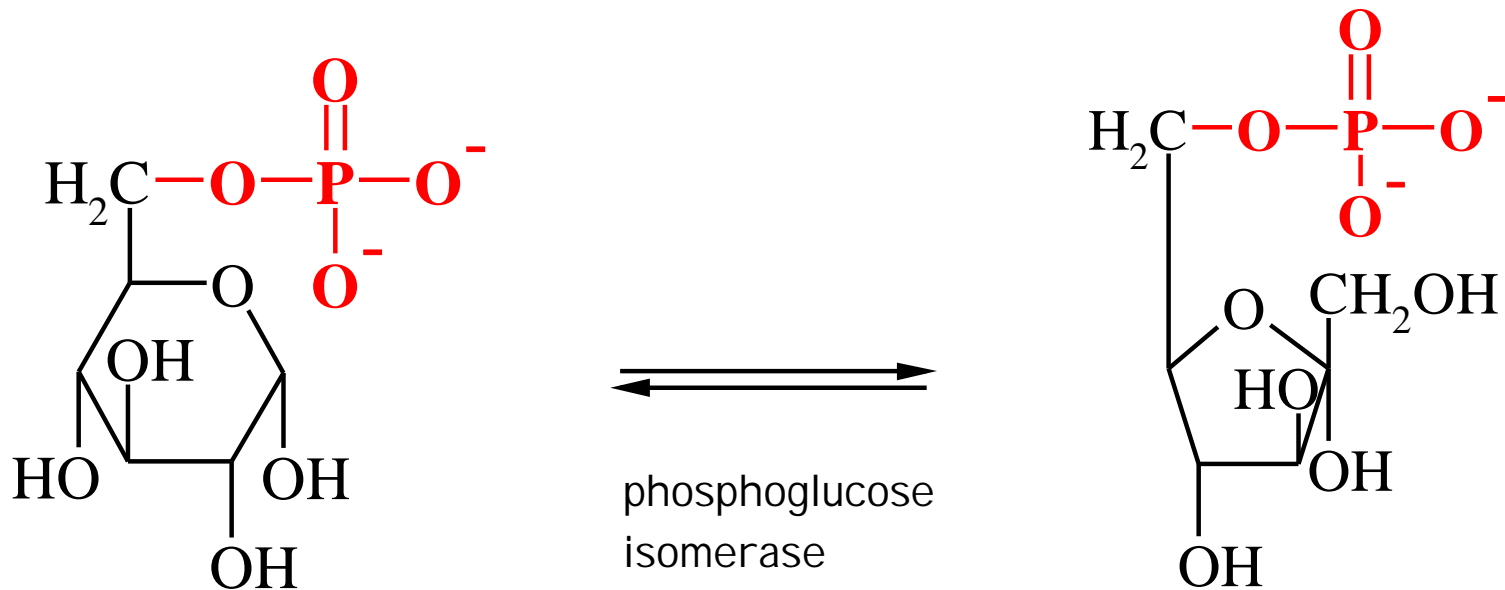
# Pathways of Glucose Metabolism



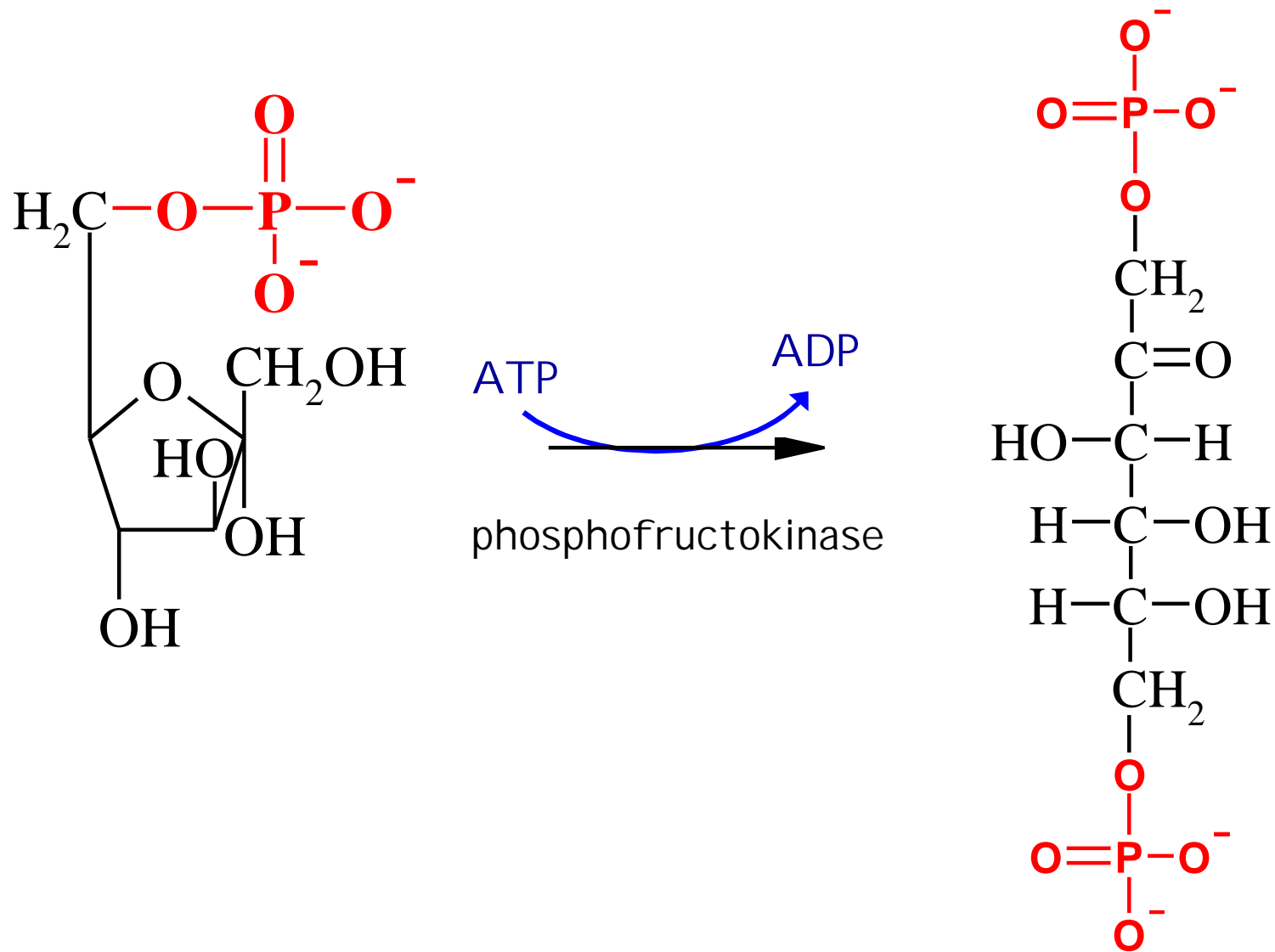
## Early Stages of Glycolysis-Priming the Pump



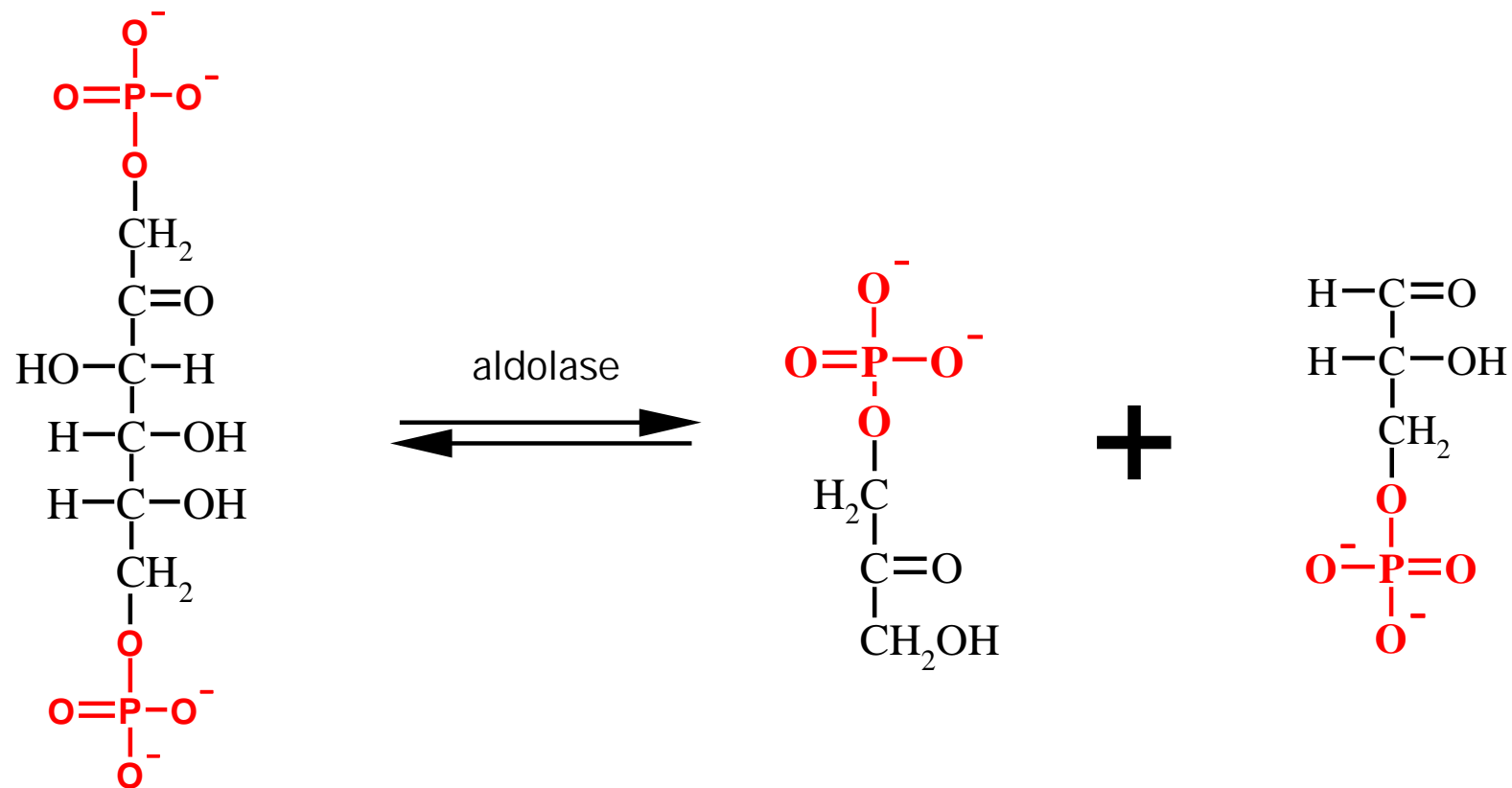
## Early Stages of Glycolysis-Priming the Pump



## Early Stages of Glycolysis-Priming the Pump

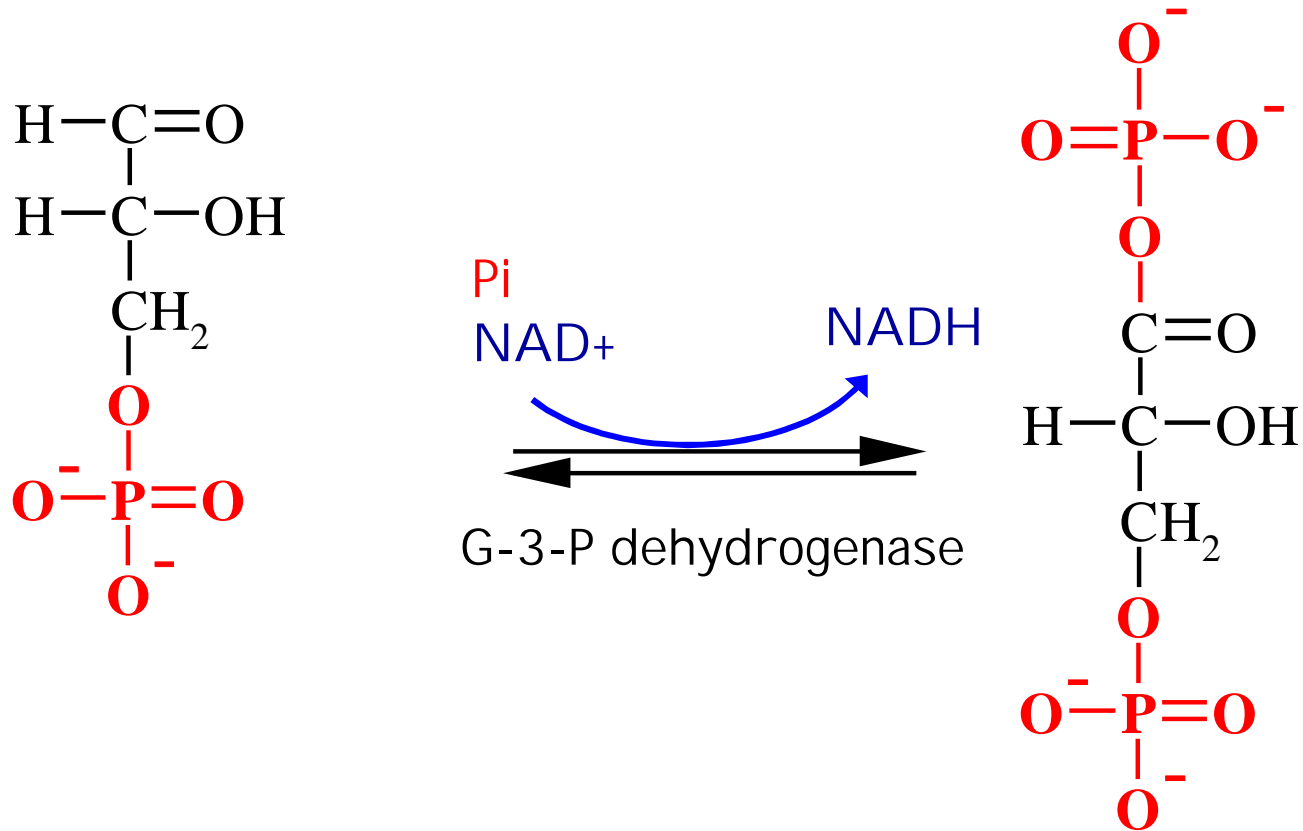


## Intermediate Stages of Glycolysis- split the hexose & extract the energy

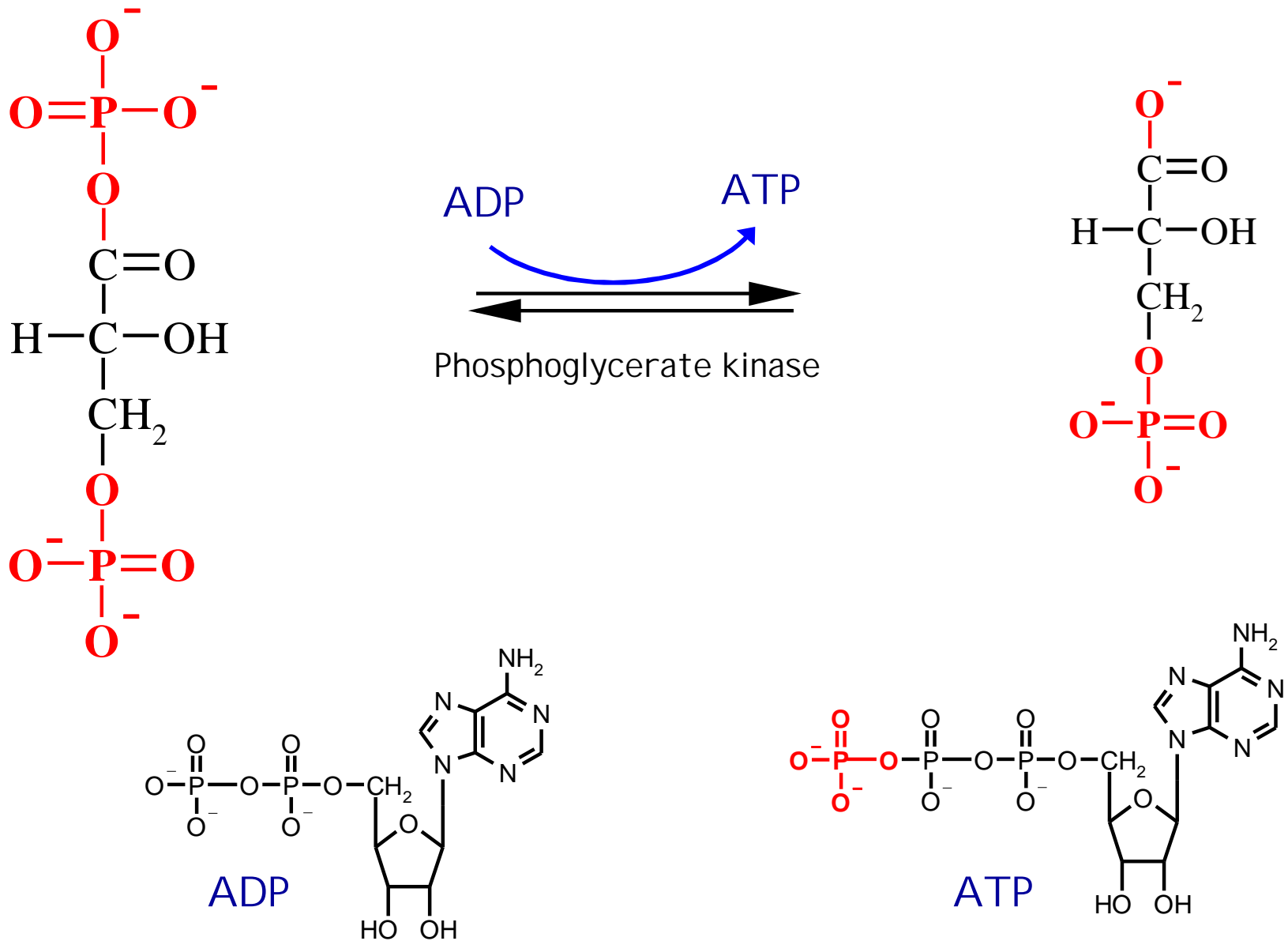


This reaction is an Aldol reaction. The six carbon fructose is split into 2 three carbon sugars.

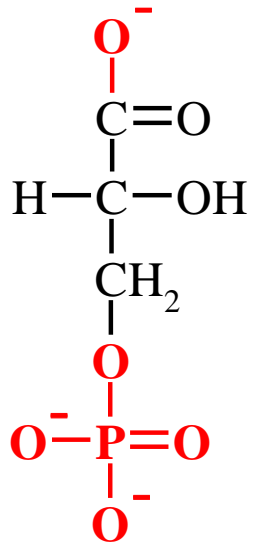
## Intermediate Stages of Glycolysis- Start extracting the energy



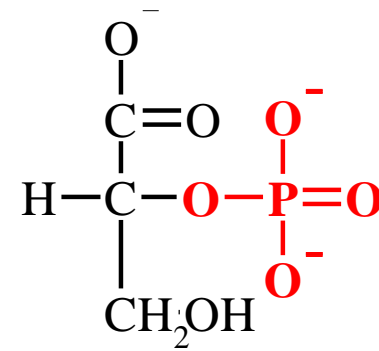
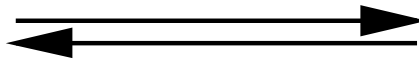
# Intermediate Stages of Glycolysis- 1<sup>st</sup> ATP made



## Terminal Stages of Glycolysis

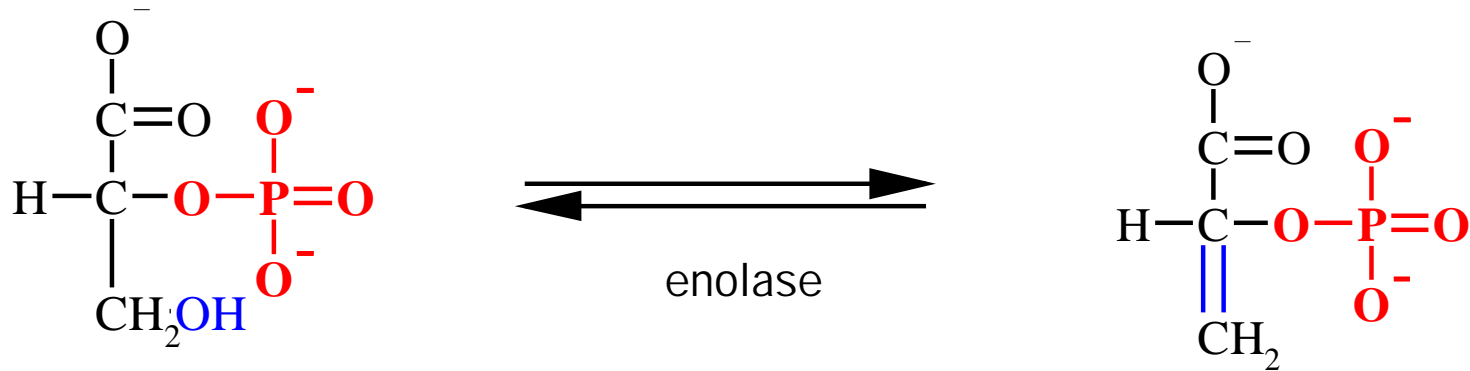


phosphoglycerate mutase



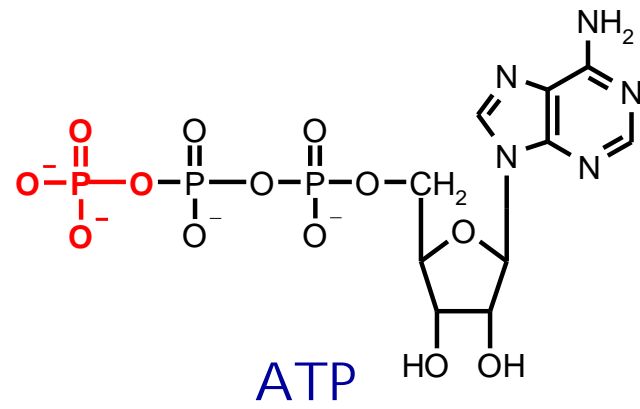
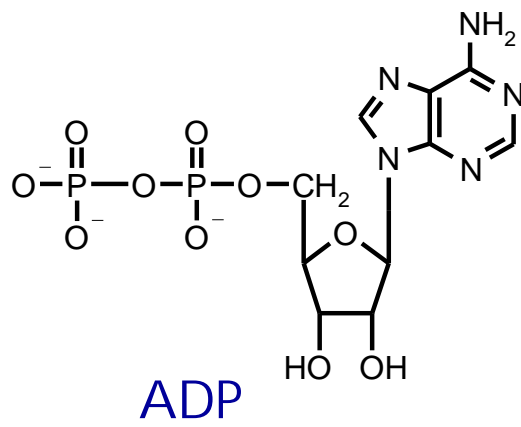
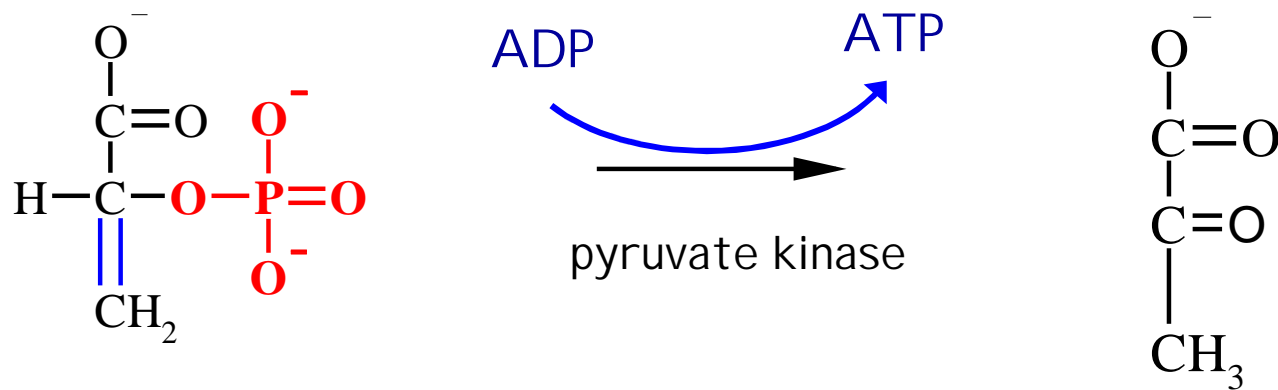


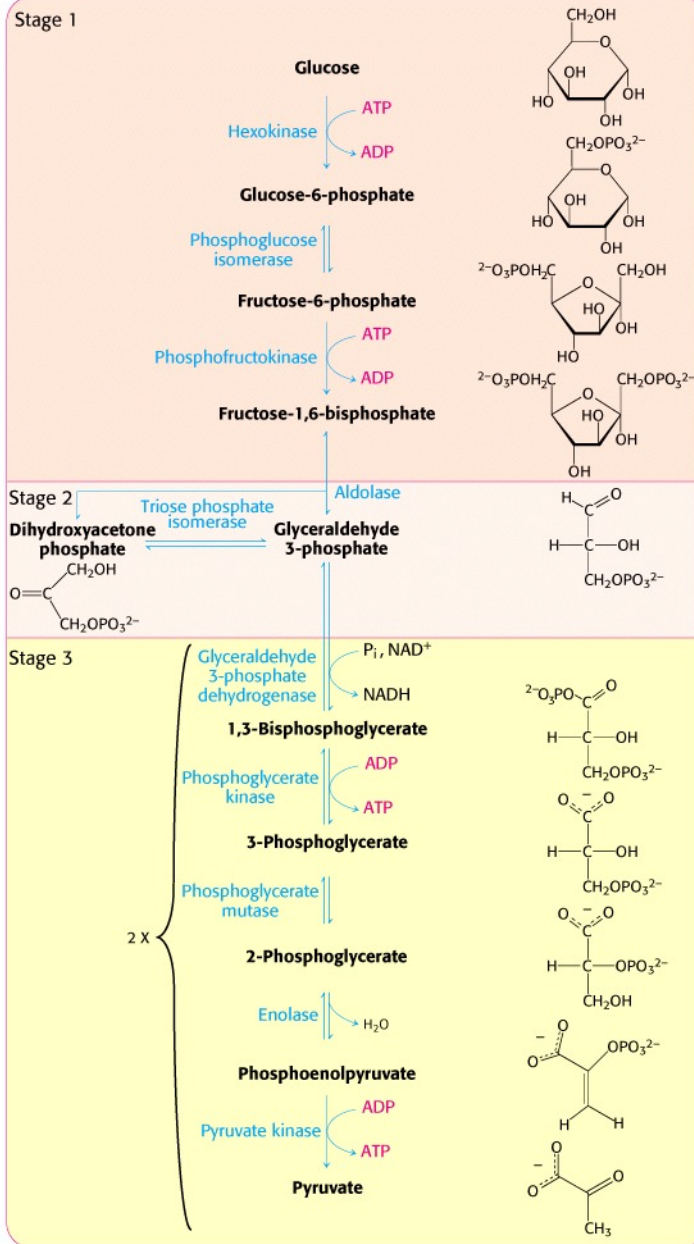
## Terminal Stages of Glycolysis



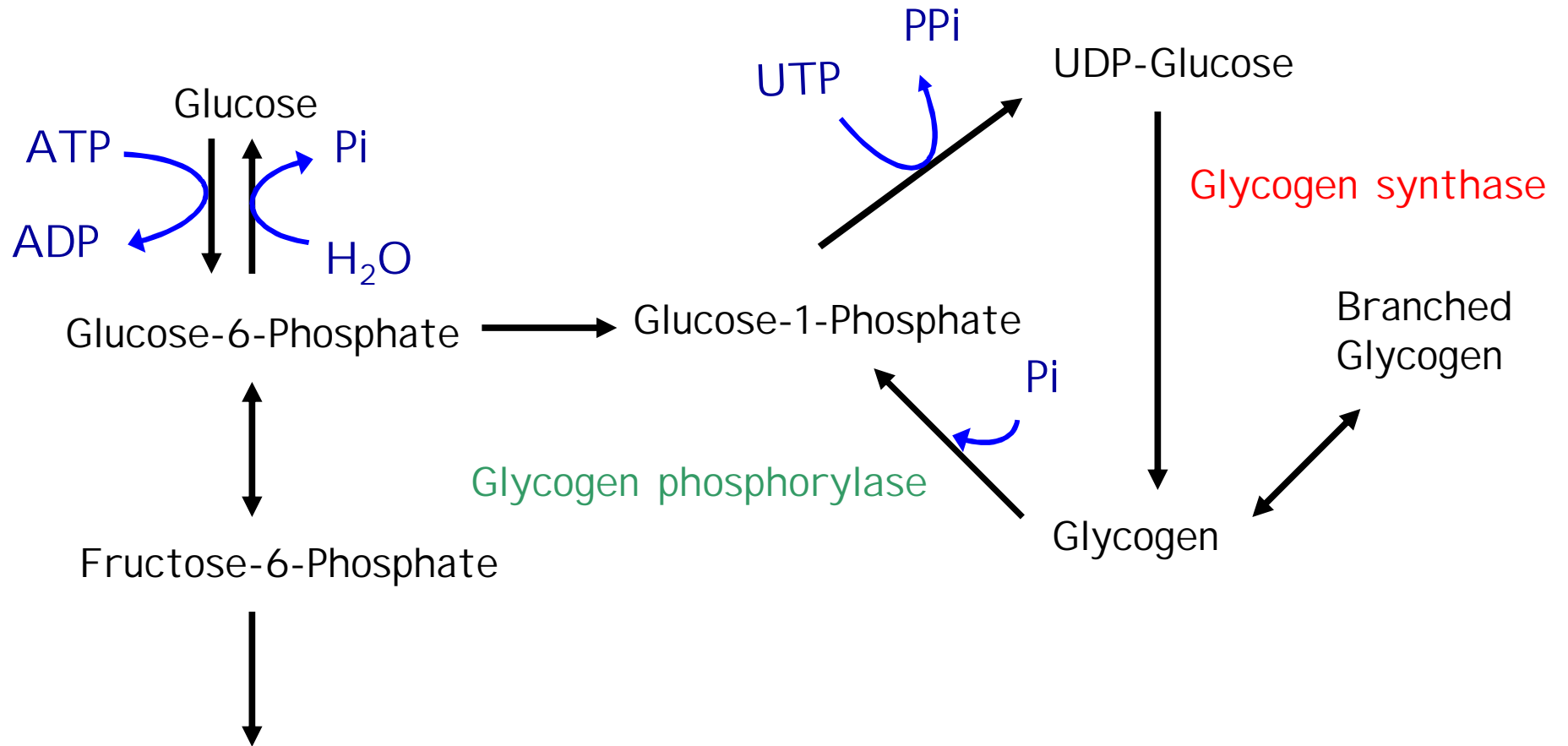
Dehydration of an alcohol to an alkene (shown in blue)

## Terminal Stages of Glycolysis

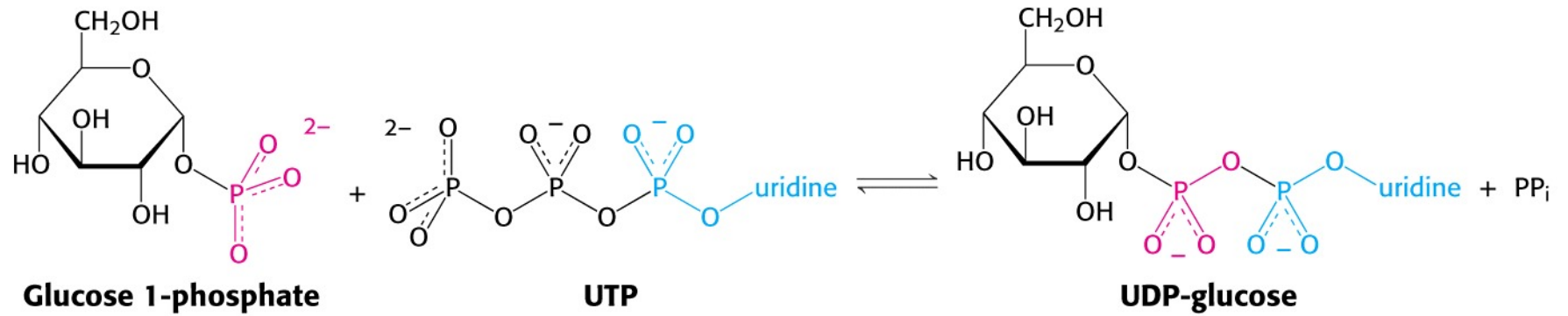




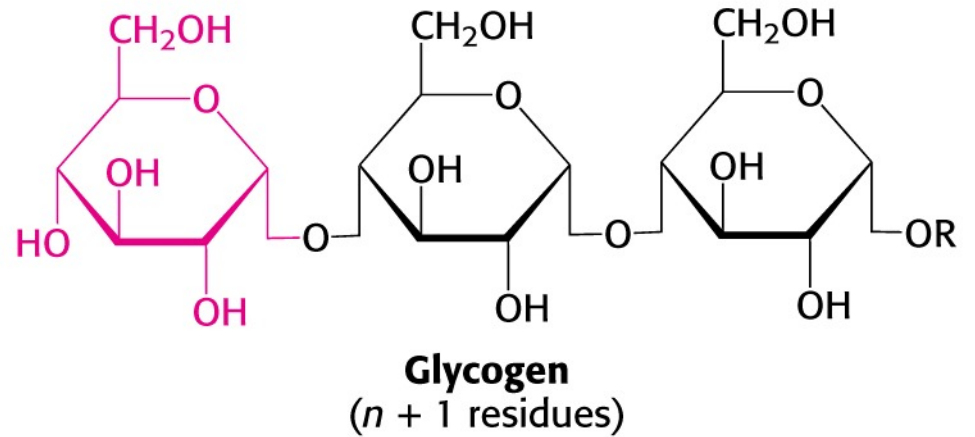
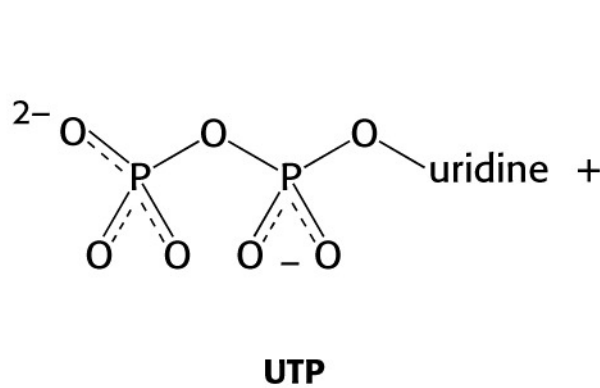
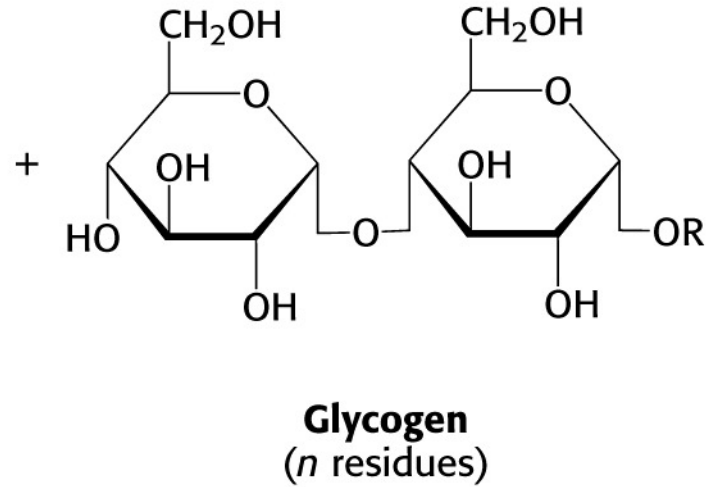
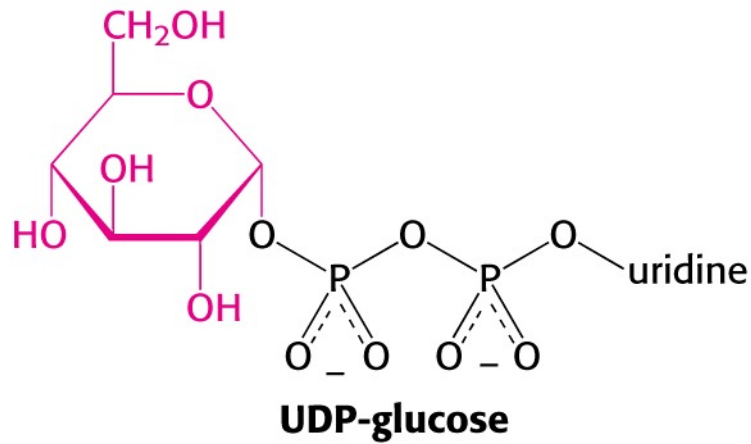
# Glycogen Metabolism



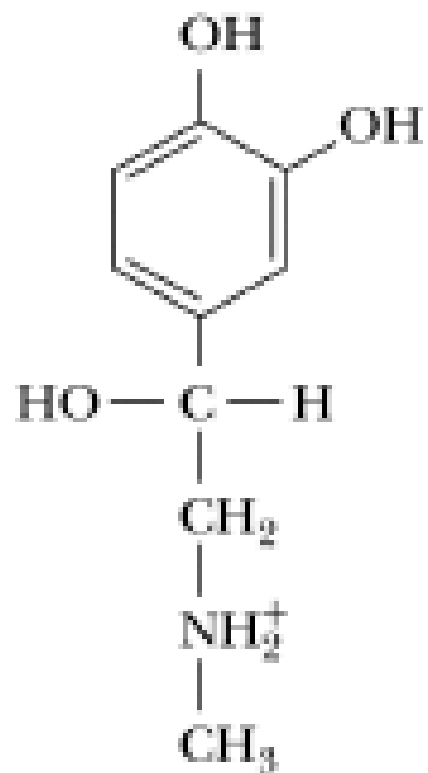
# Glycogen Synthesis



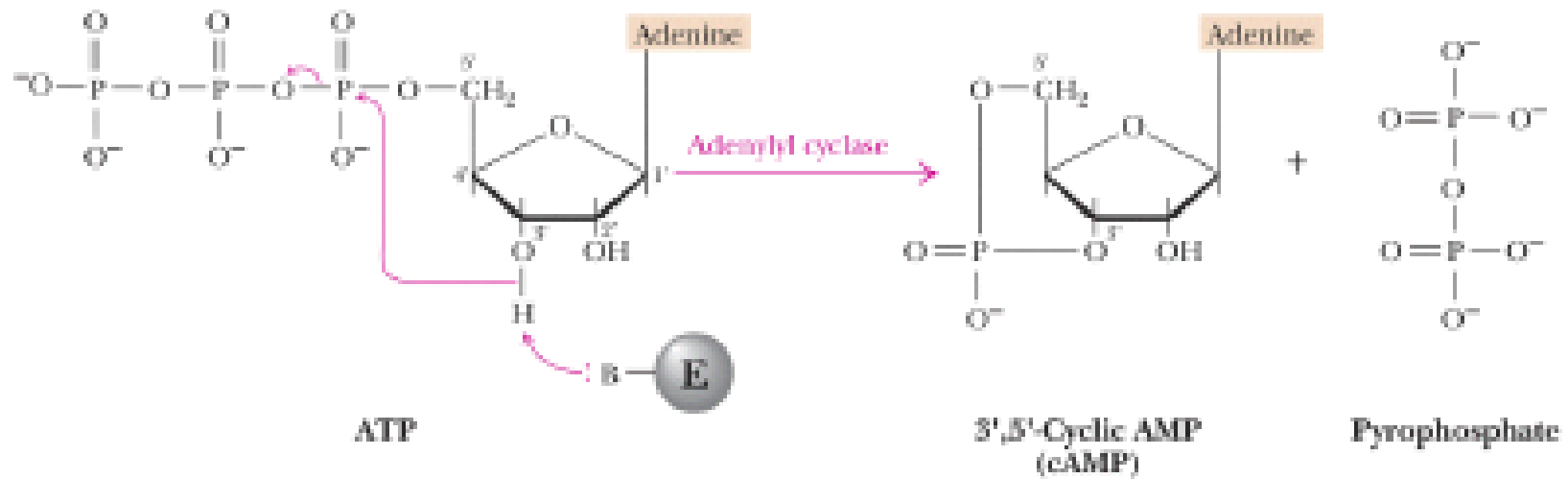
# Glycogen Synthesis



## Structure of Epinephrine



# Structure of cAMP





# G-protein Cascade for Glycogen degradation

