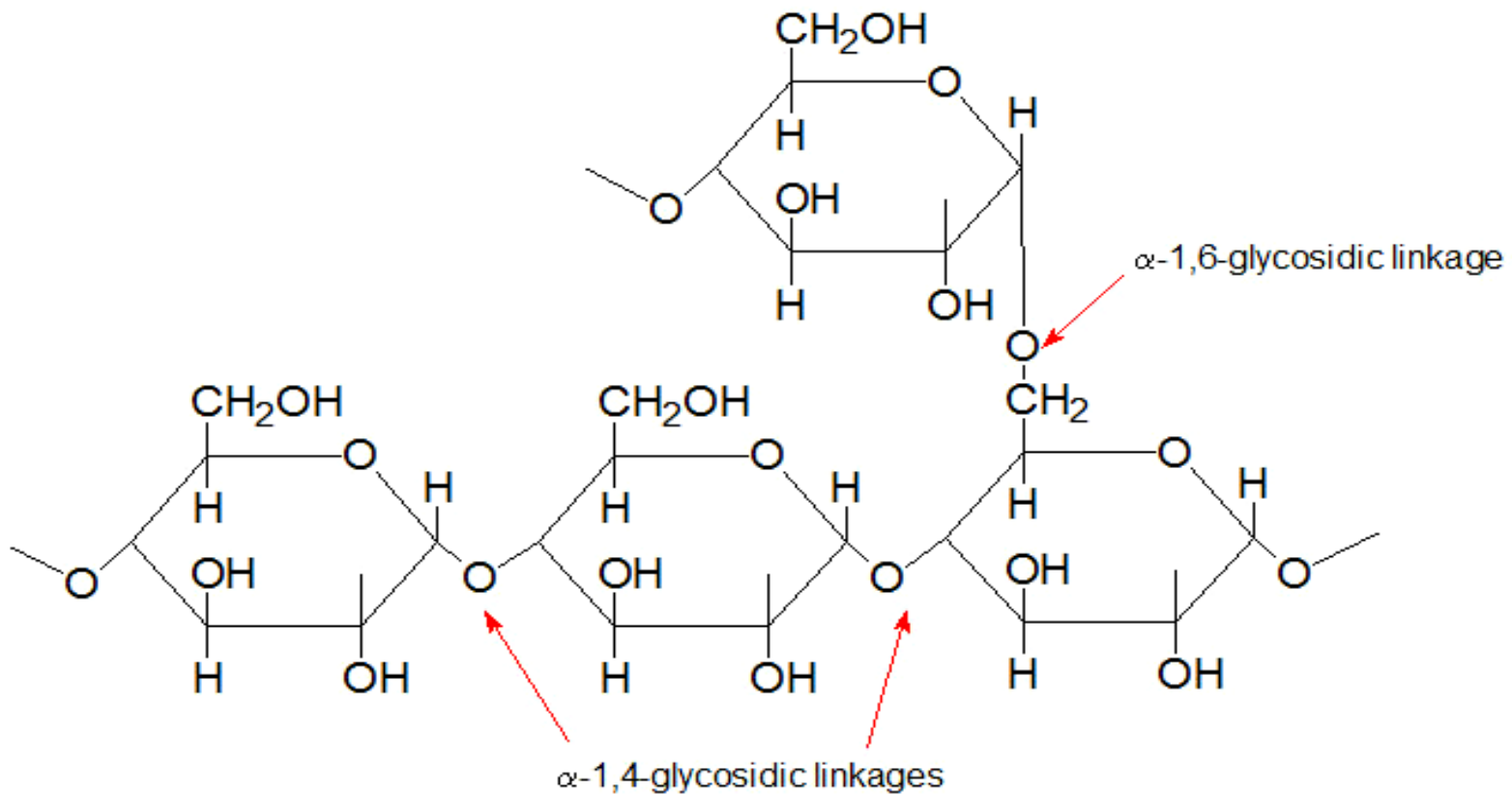


# **Metabolism of glycogen**

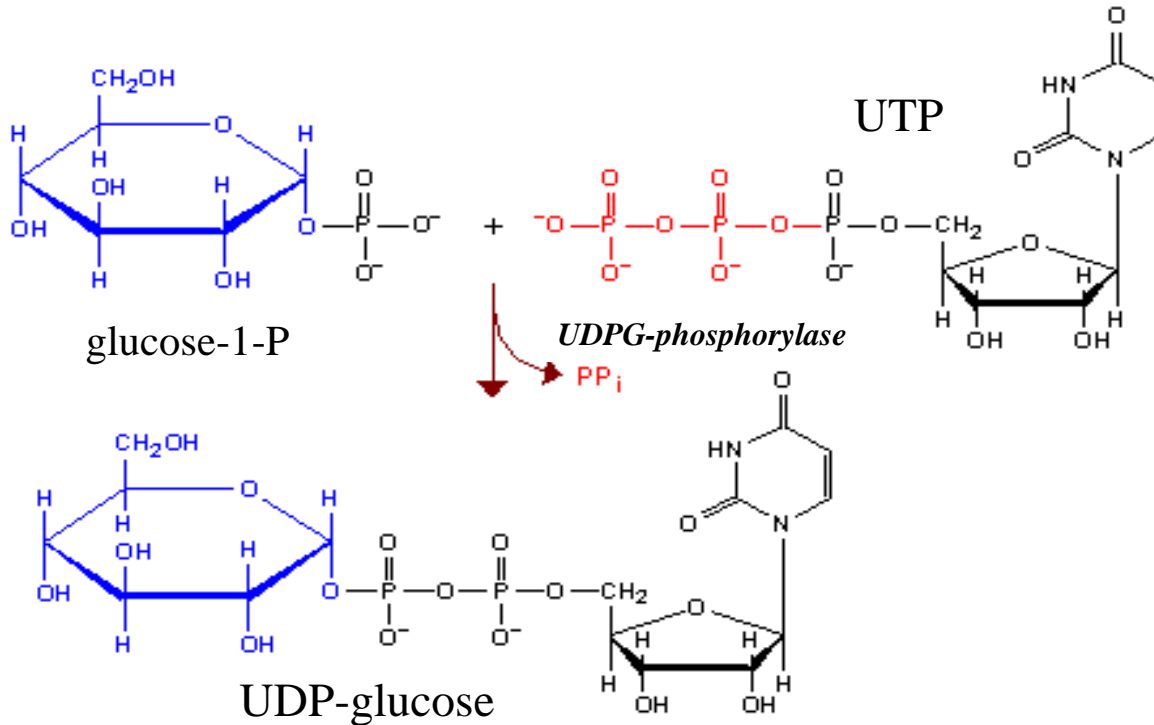
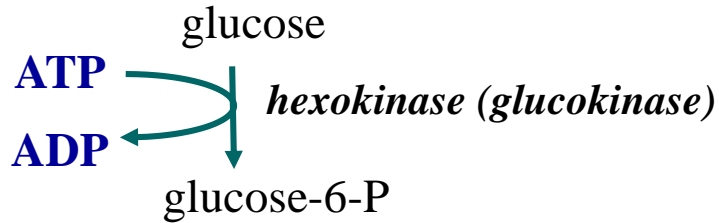
5<sup>th</sup> week

# Structure of glycogen

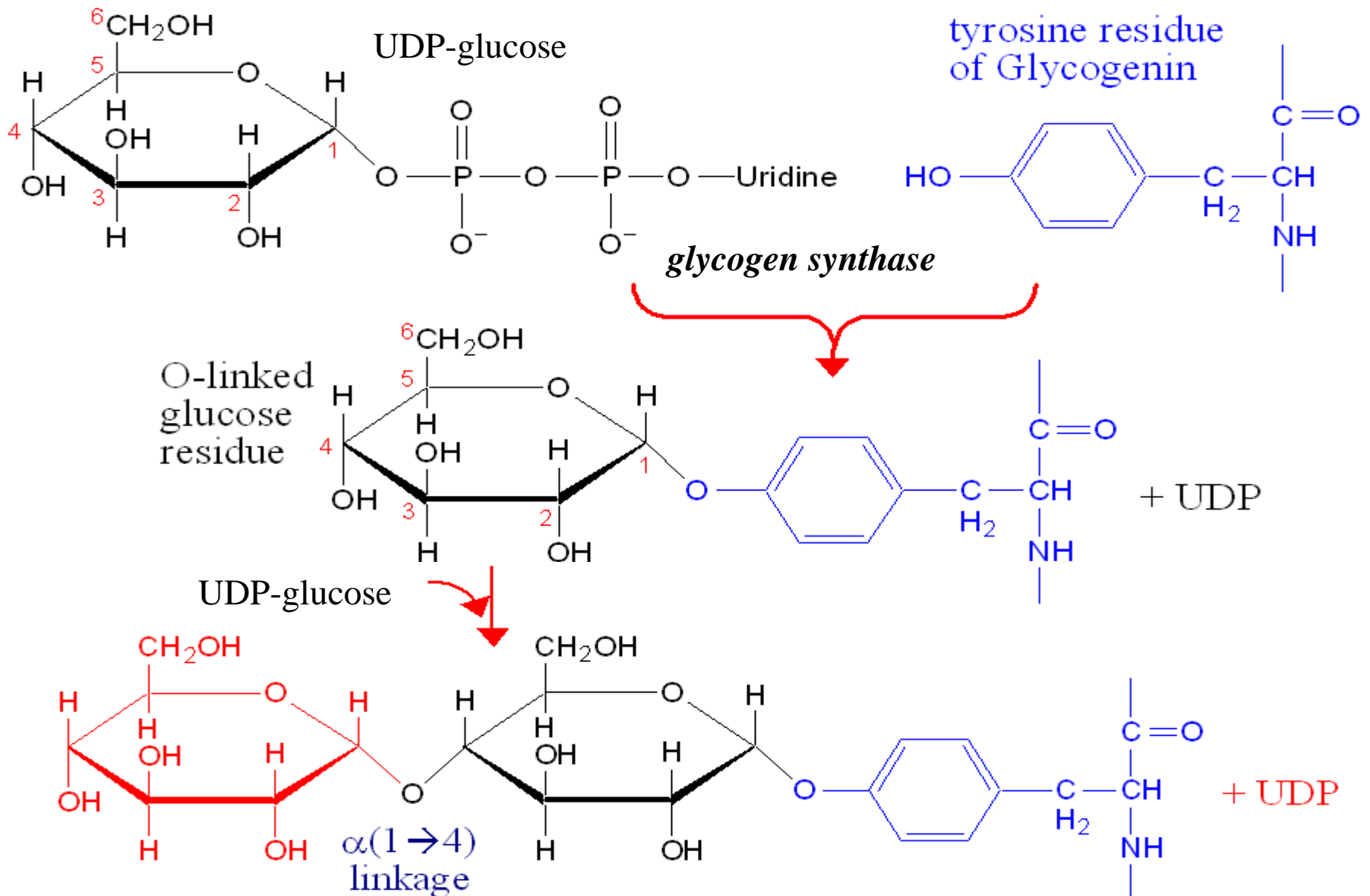
- liver
- muscle



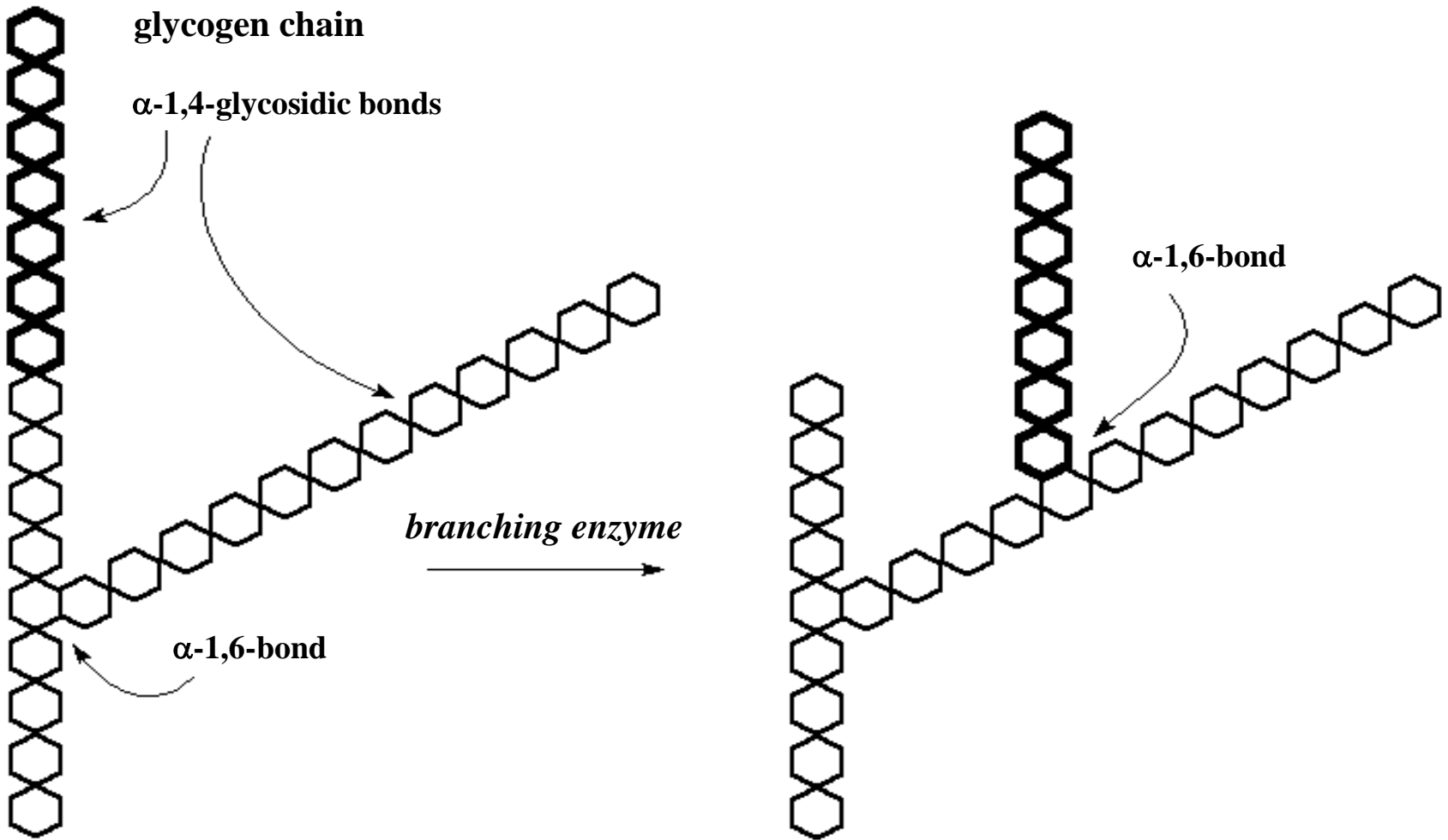
# Synthesis of UDP-glucose



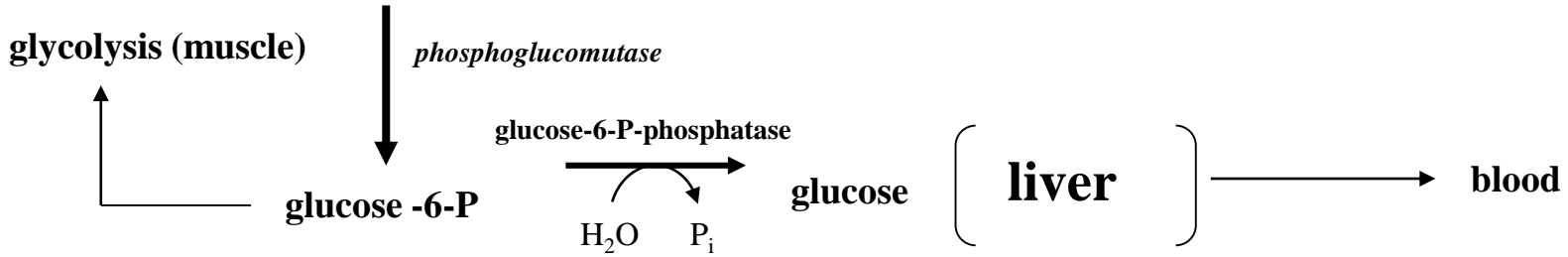
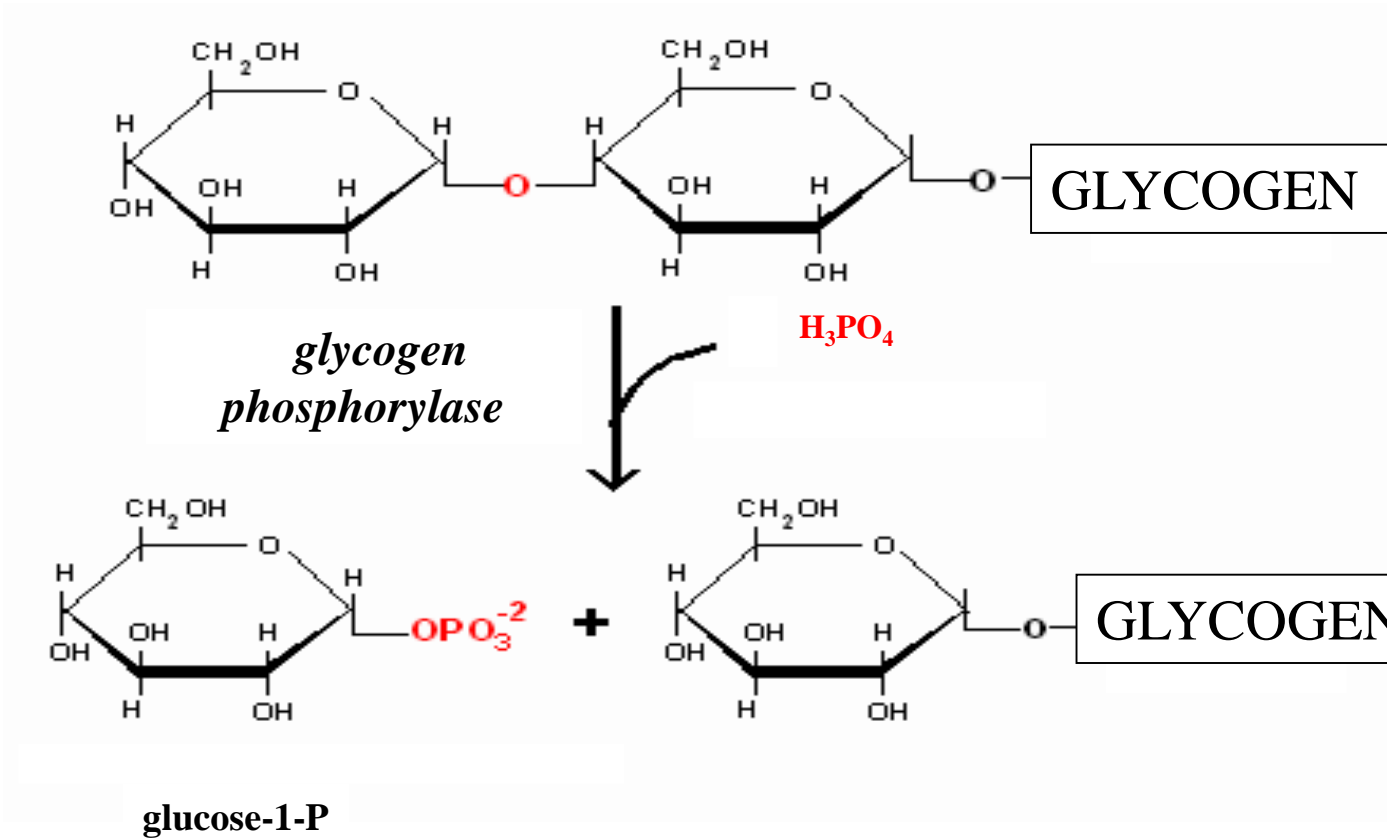
# Synthesis of glycogen (glycogenesis)



# Branching of glycogen chain

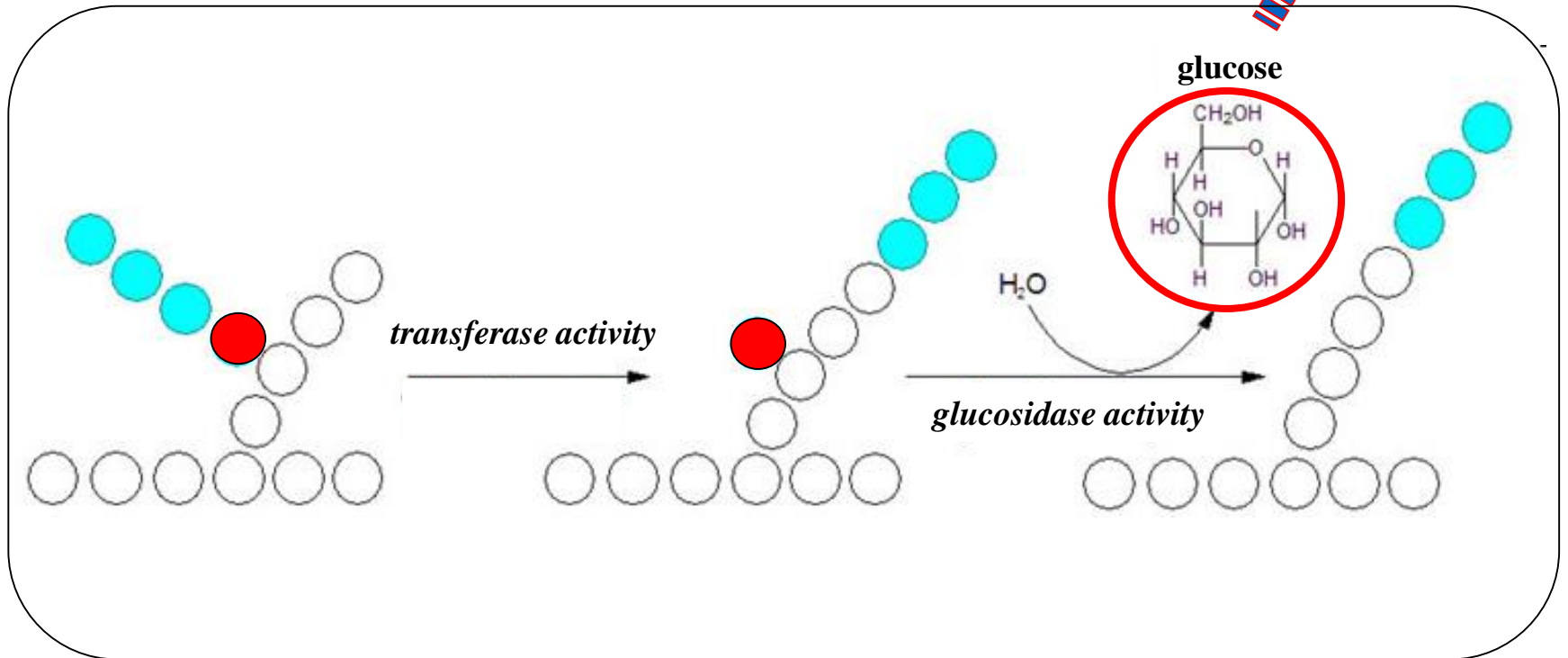


# Glycogenolysis

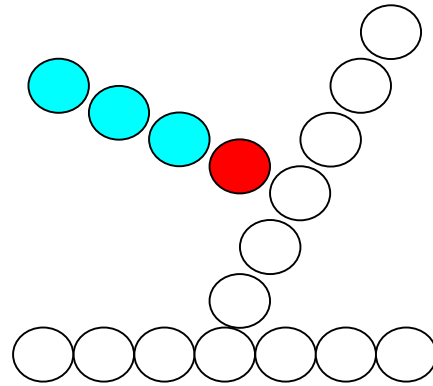


# Debranching enzyme

glucose to blood

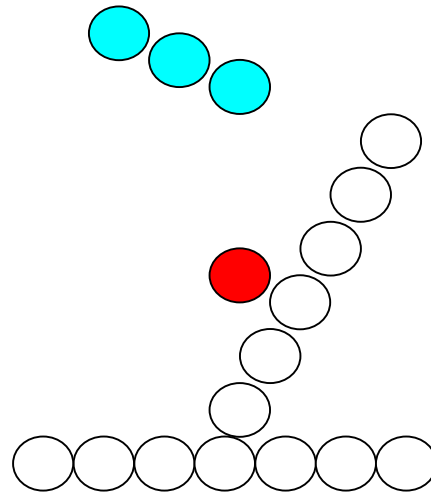


# Debranching enzyme



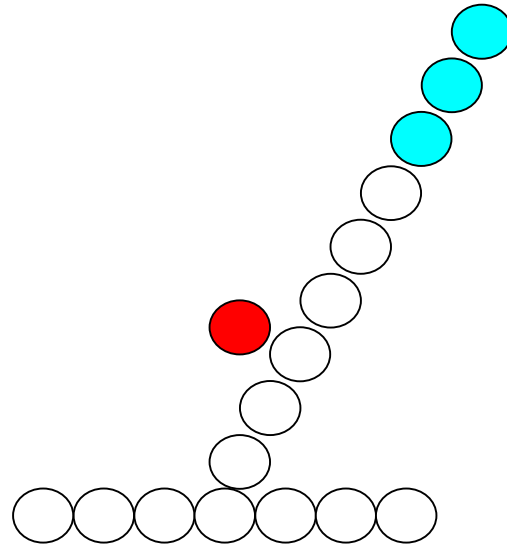


# Debranching enzyme



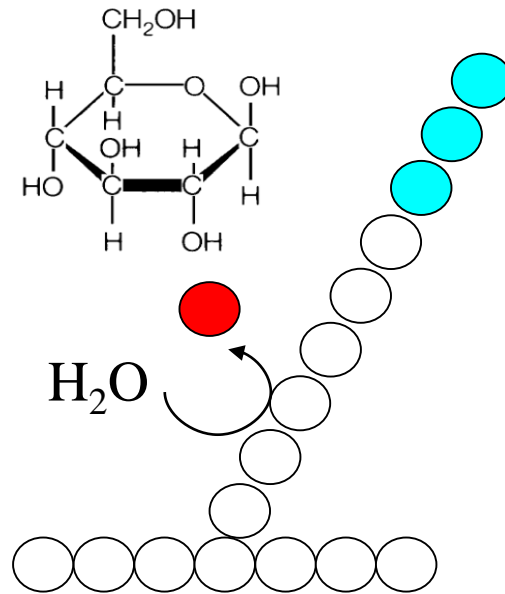
Transferase activity

# Debranching enzyme



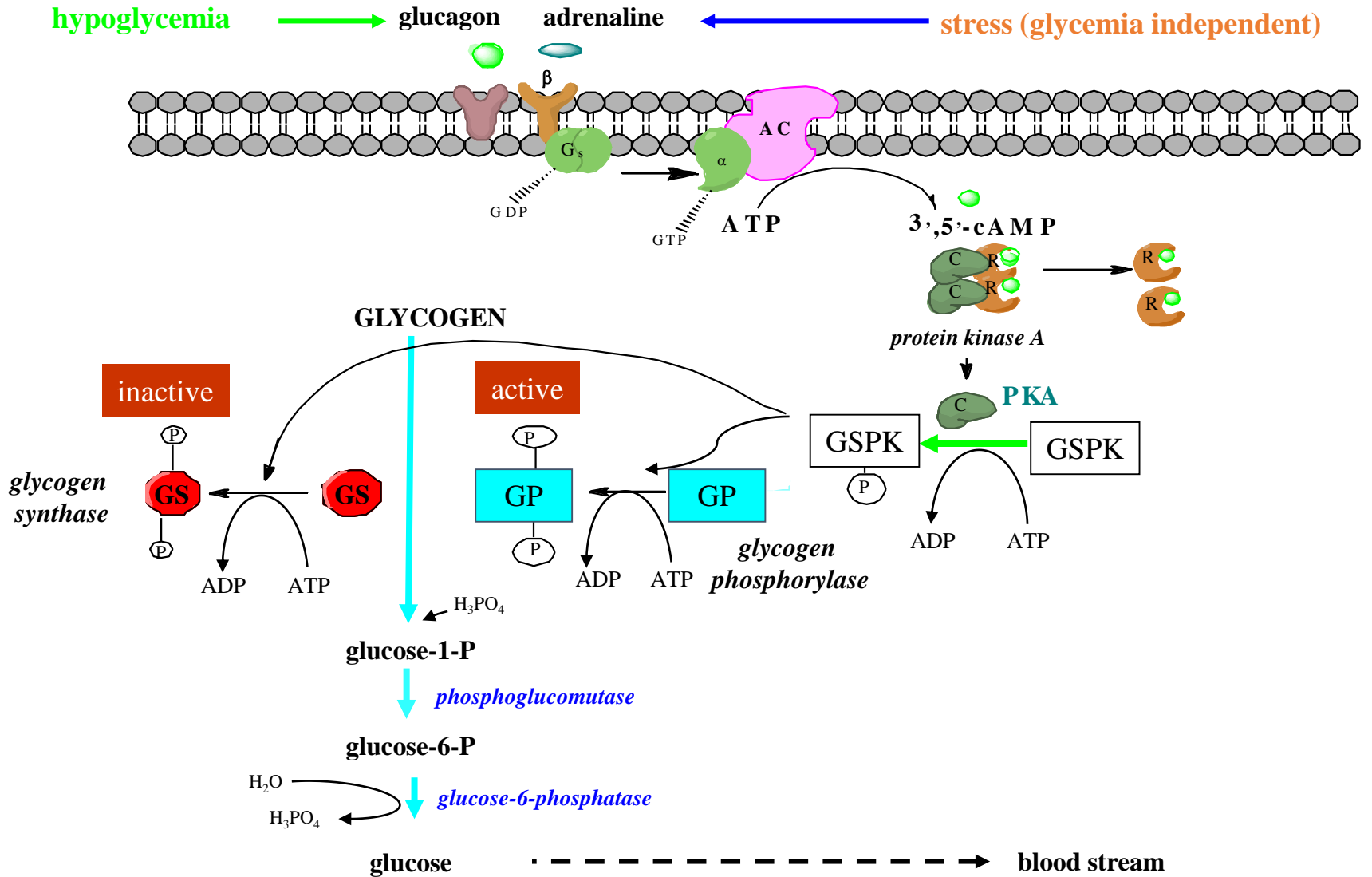
Transferase activity

# Debranching enzyme

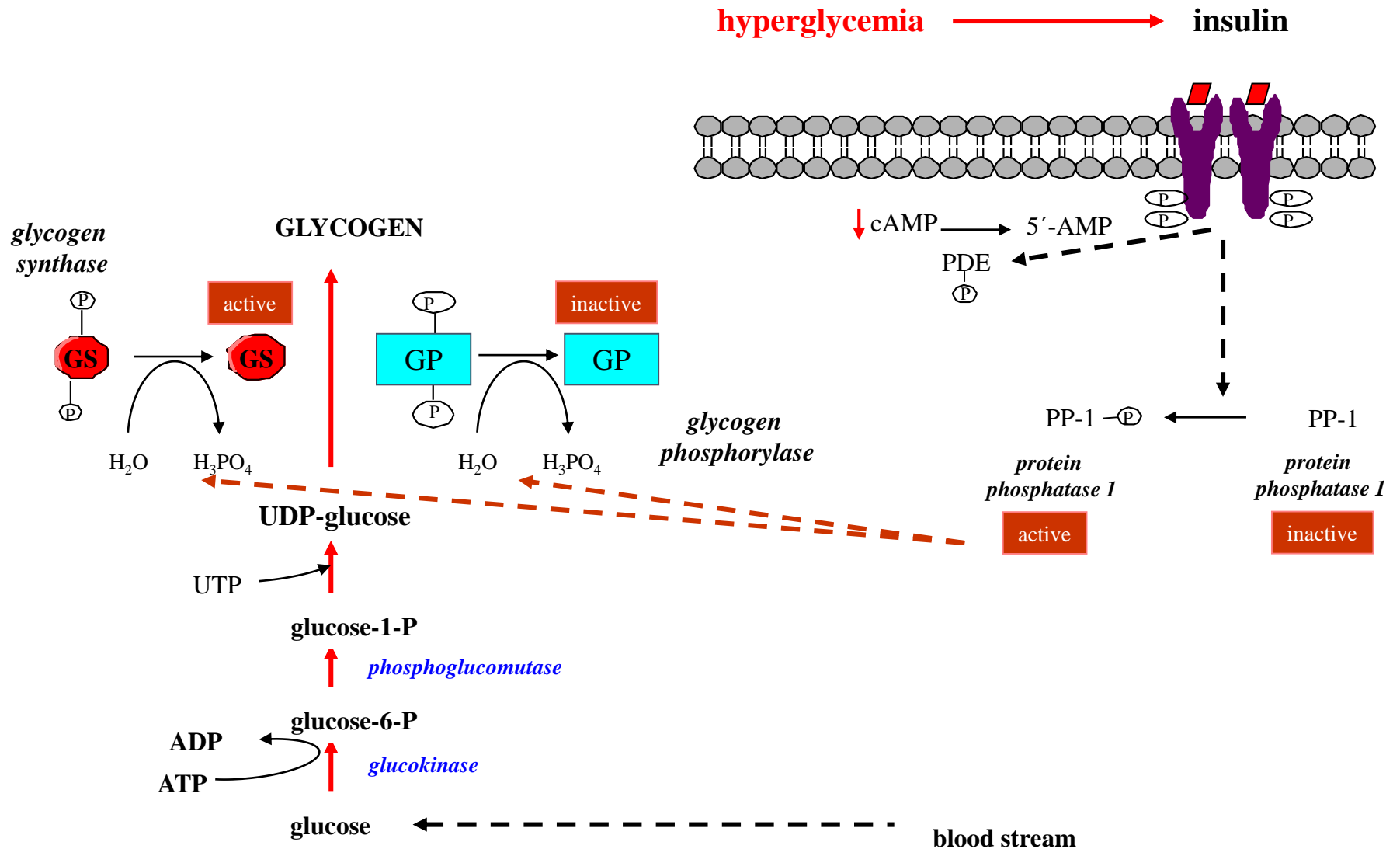


Glucosidase activity

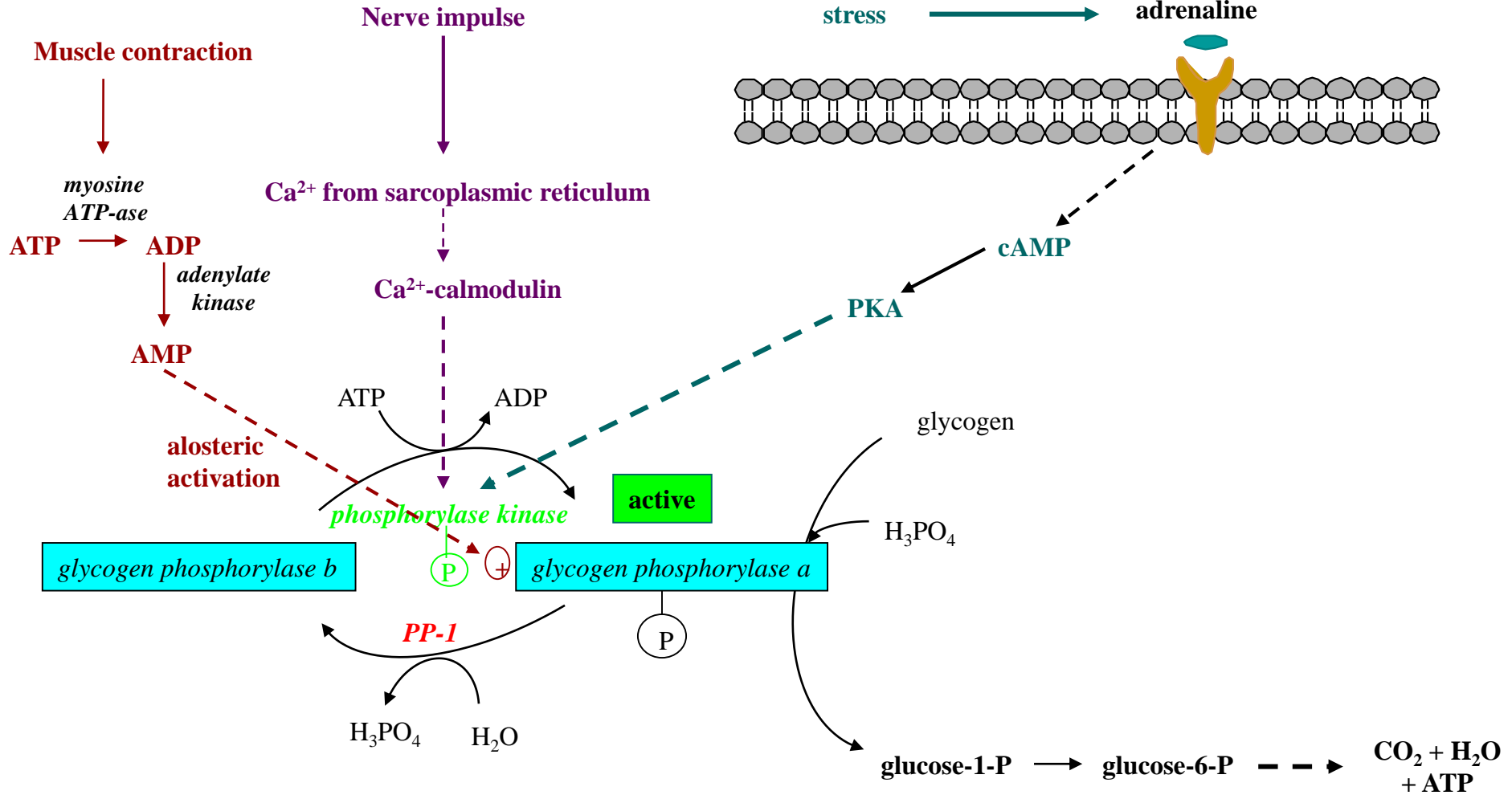
# Regulation of glycogen metabolism in liver



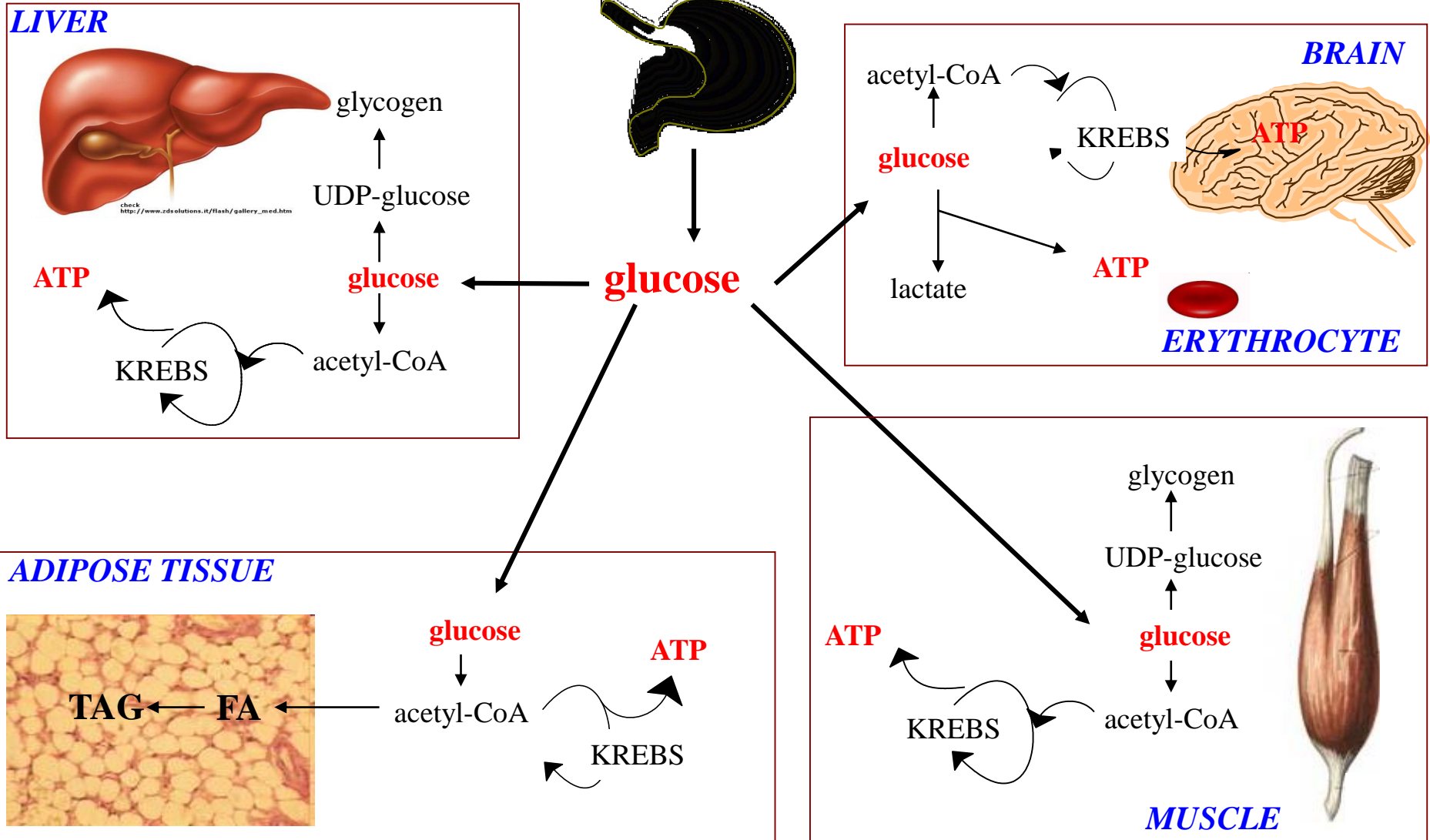
# Regulation of glycogen metabolism in liver



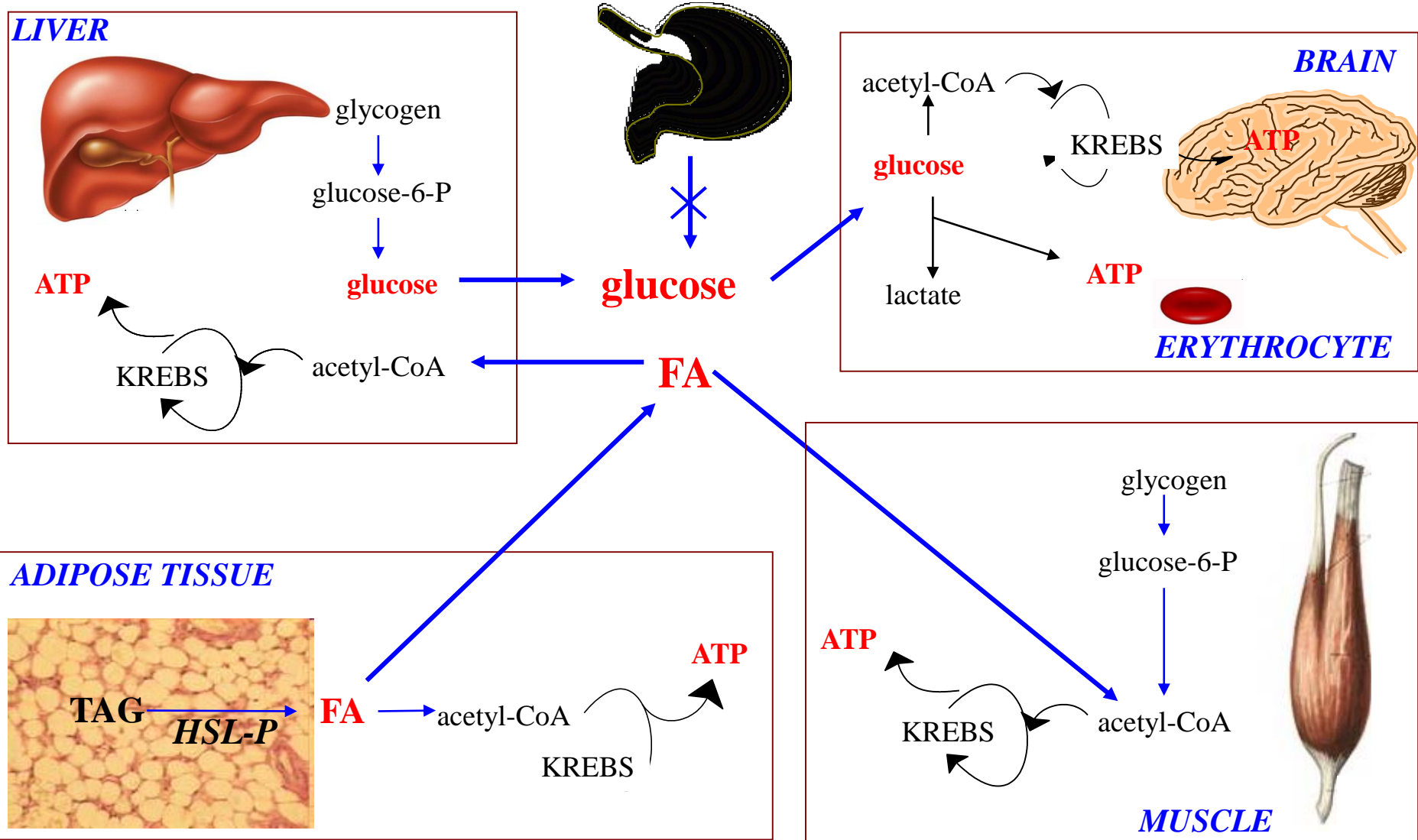
# Regulation of glycogen metabolism in muscle



# Well-fed state



# Short starvation (postabsorptive period)





# Long starvation

