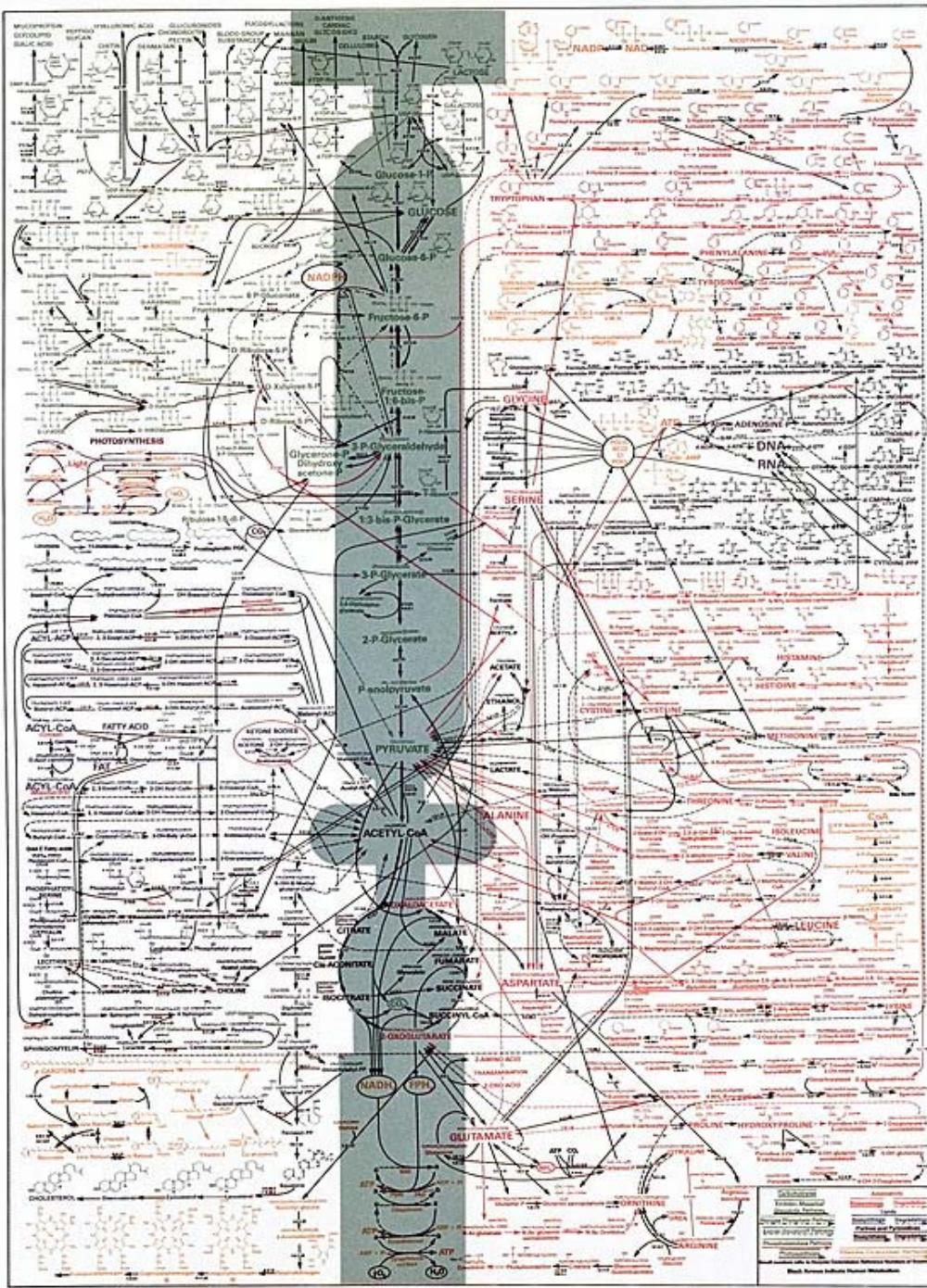


Glycolysis

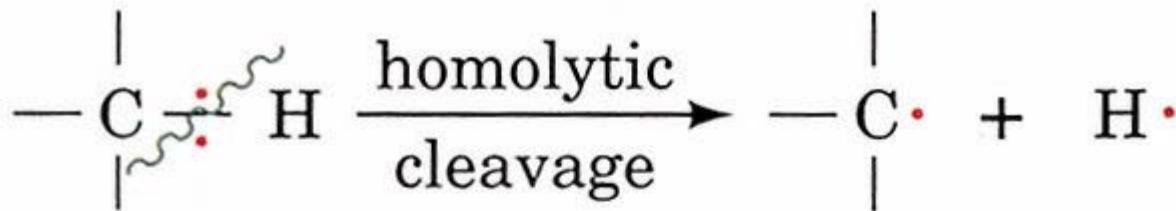
Fate of Pyruvate

Gluconeogenesis



Types of Bond Cleavage

Homolytic:



Radicals

Heterolytic:

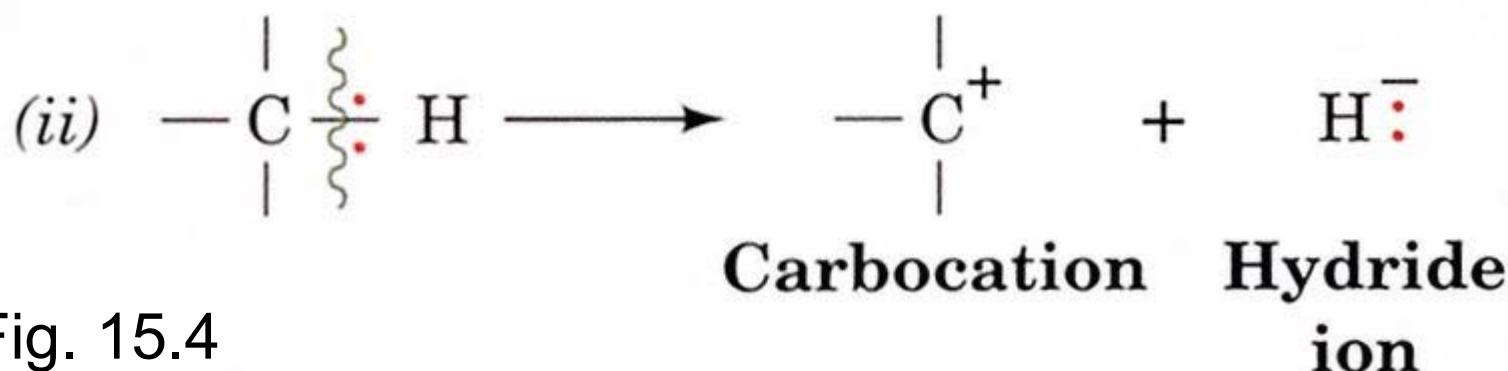
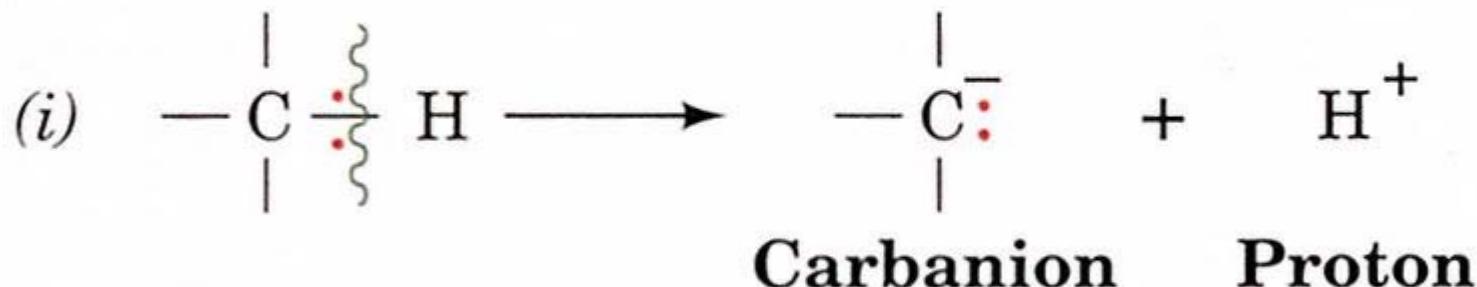


Fig. 15.4

Overview of Carbohydrate Metabolism

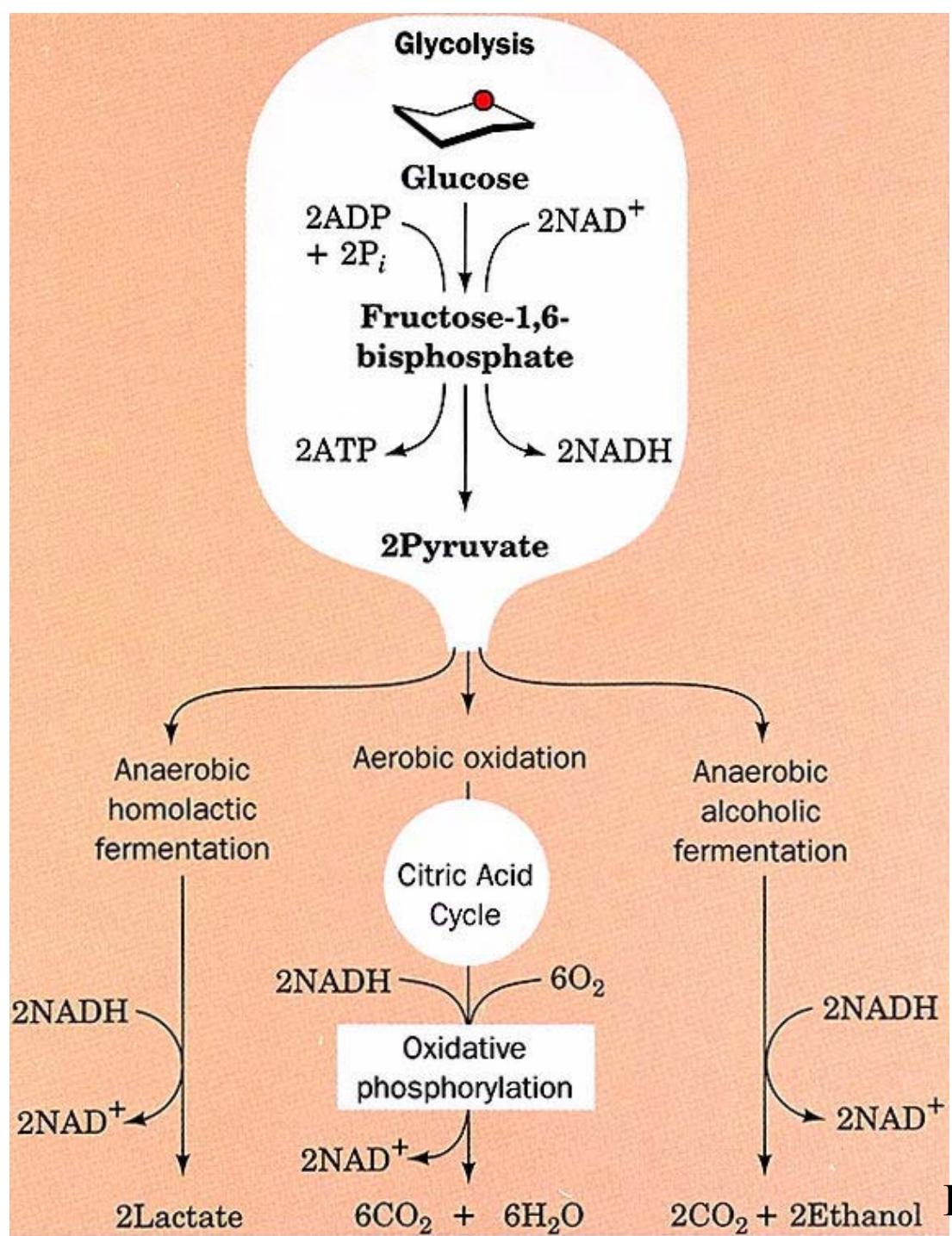


Fig. 16.1

Glycolysis

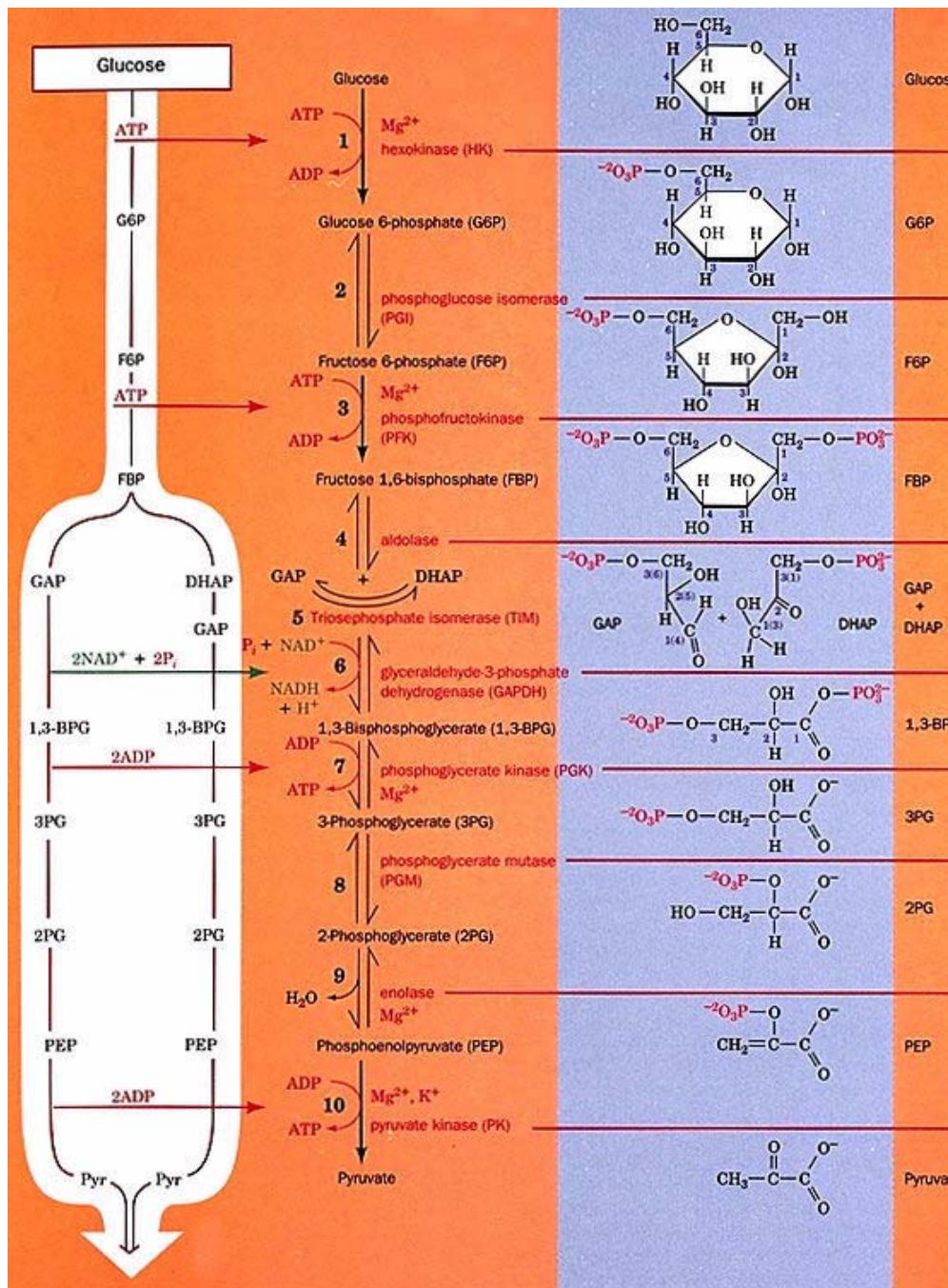


Fig 16.3

Mechanism of Phosphoglucose Isomerase

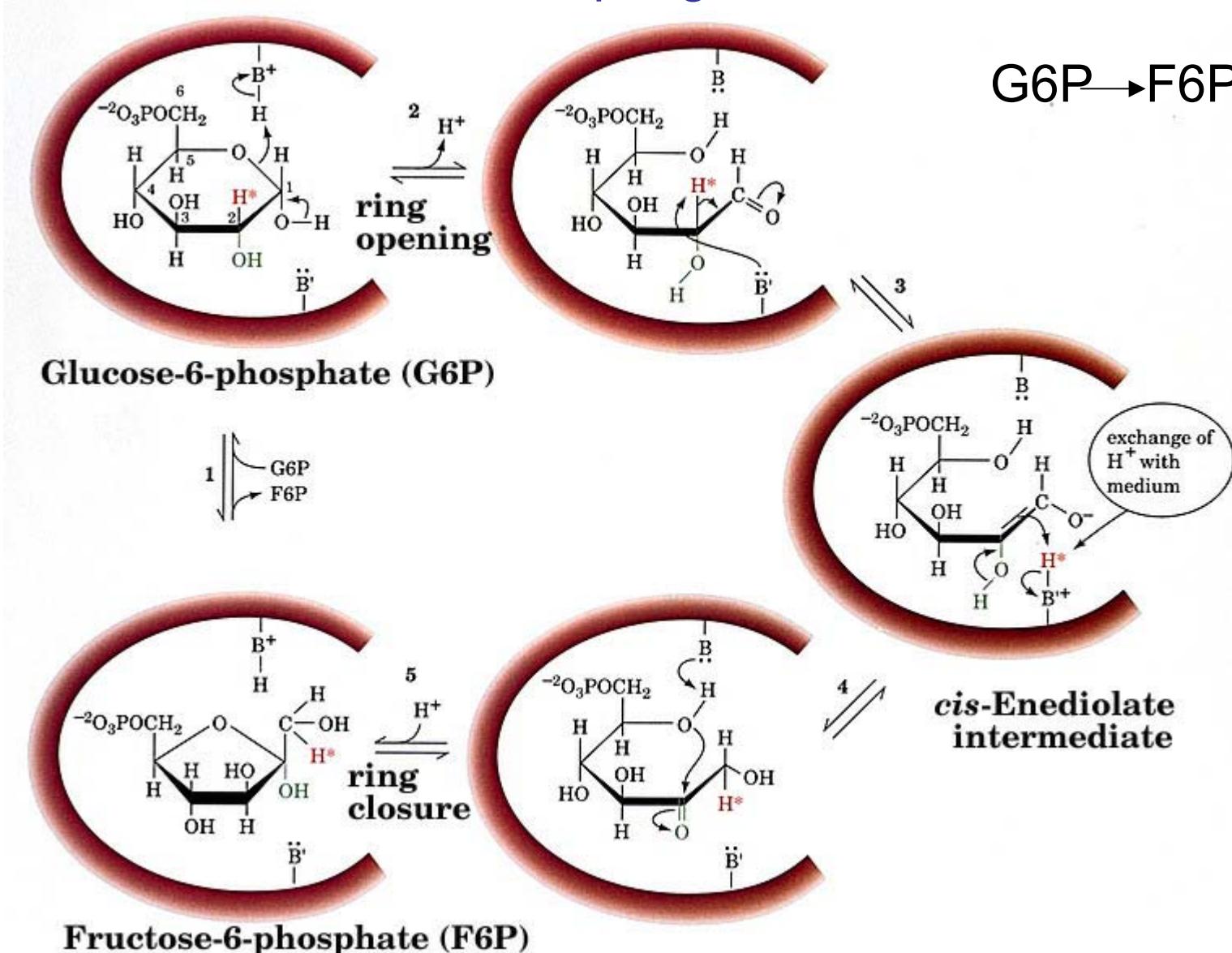


Fig 16.6

Aldolase Mechanism

F1,6BP
 ↓
 DHAP + GAP

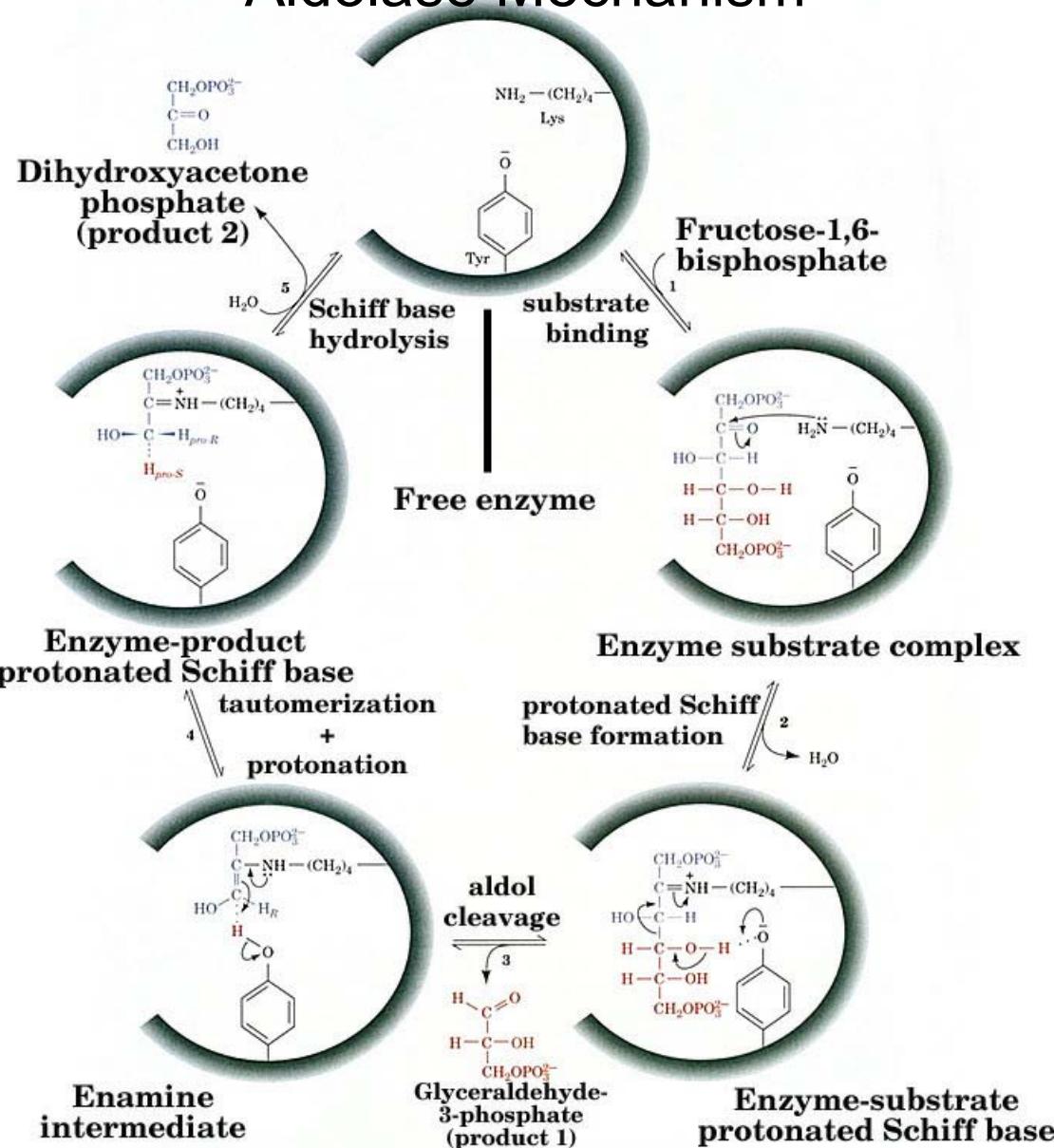


Fig 16.9

Mechanism of Phosphoglycerate Mutase

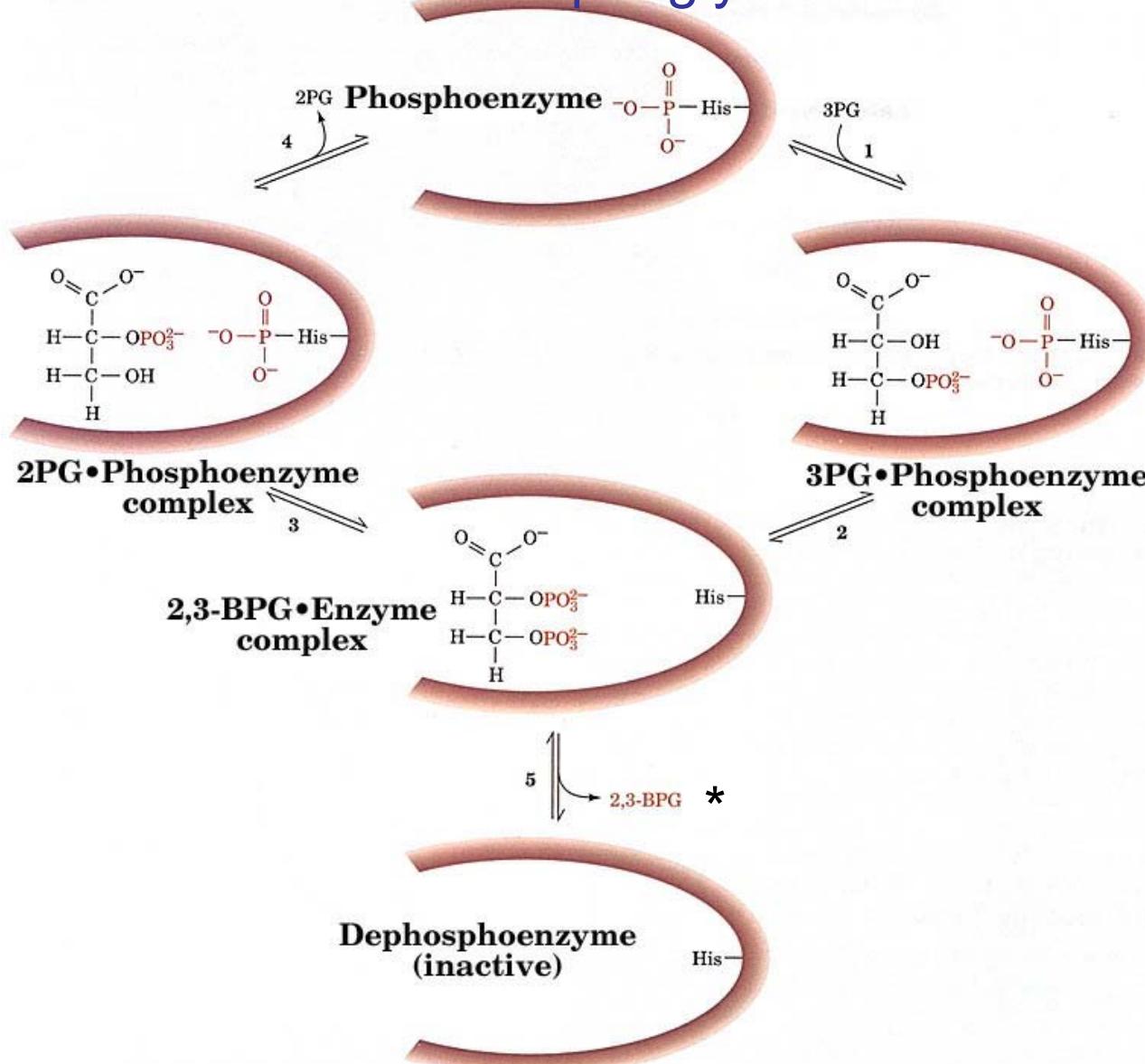


Fig 16.8

BPG Modulates O₂ Binding to Hb

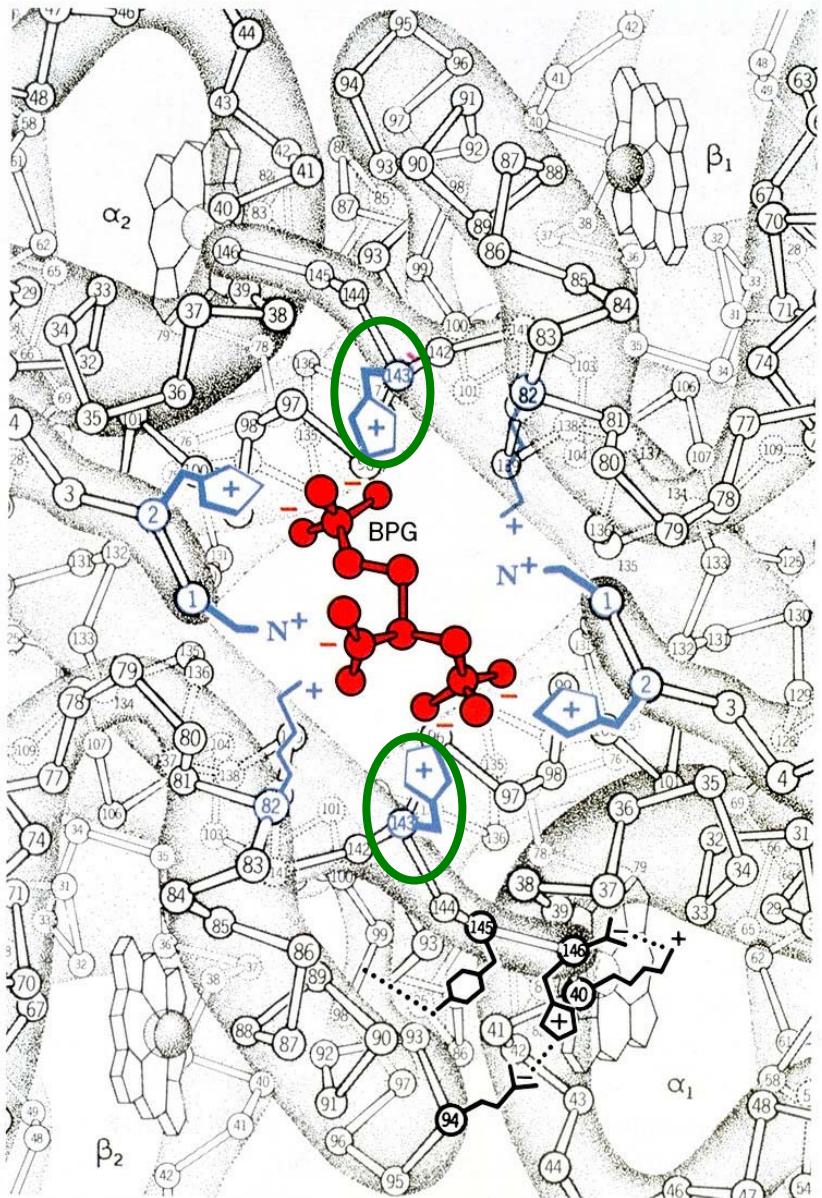


Fig 9.22

BPG decreases Hb affinity for O₂

BPG bound in T form (stabilizes)

BPG released in T to R conversion

Without BPG, O₂ not released

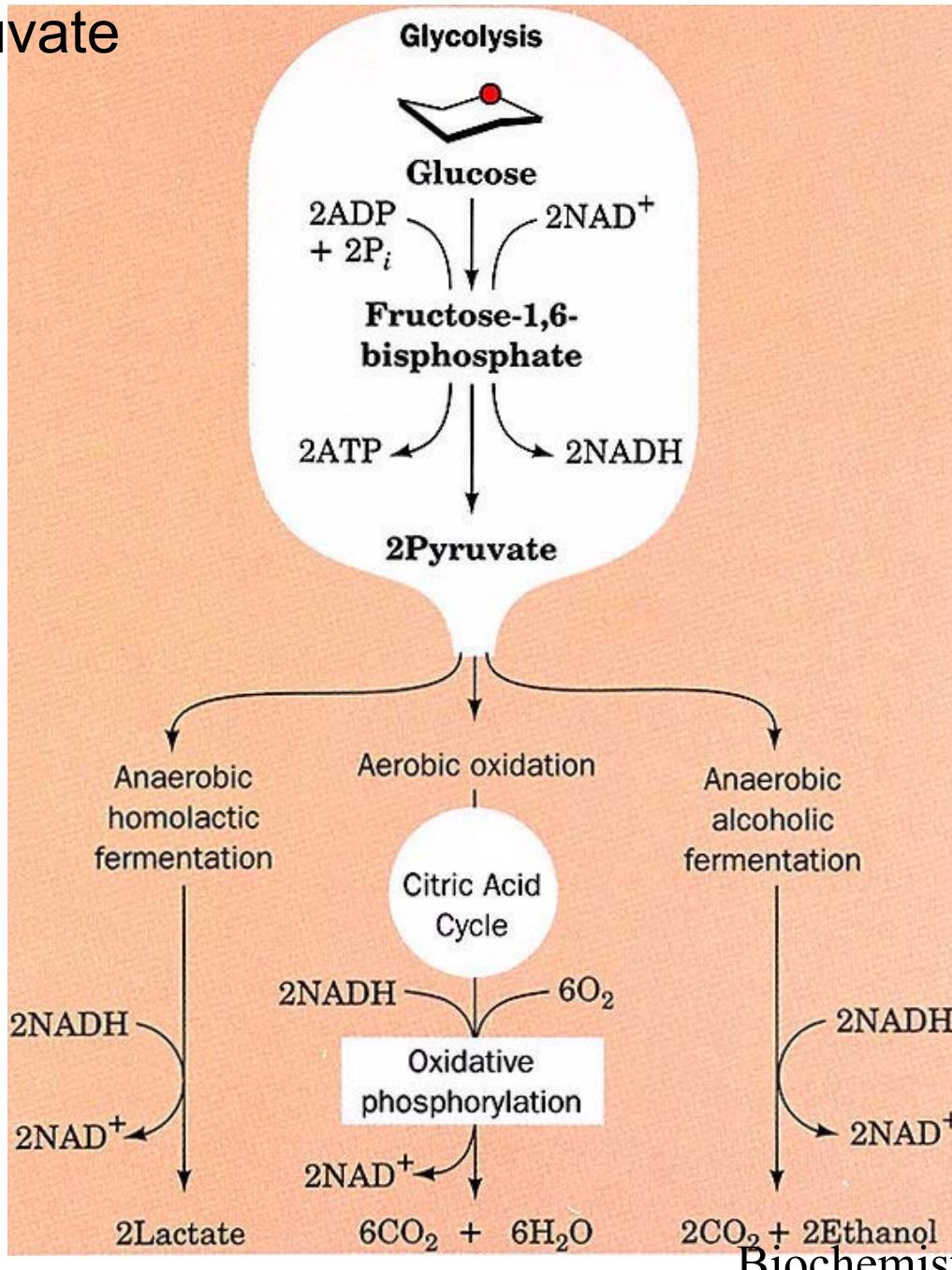
*BPG increases in altitude adaptation

*Fetal Hb has reduced affinity for BPG

His changed to Ser

Higher affinity for O₂

Fates of Pyruvate



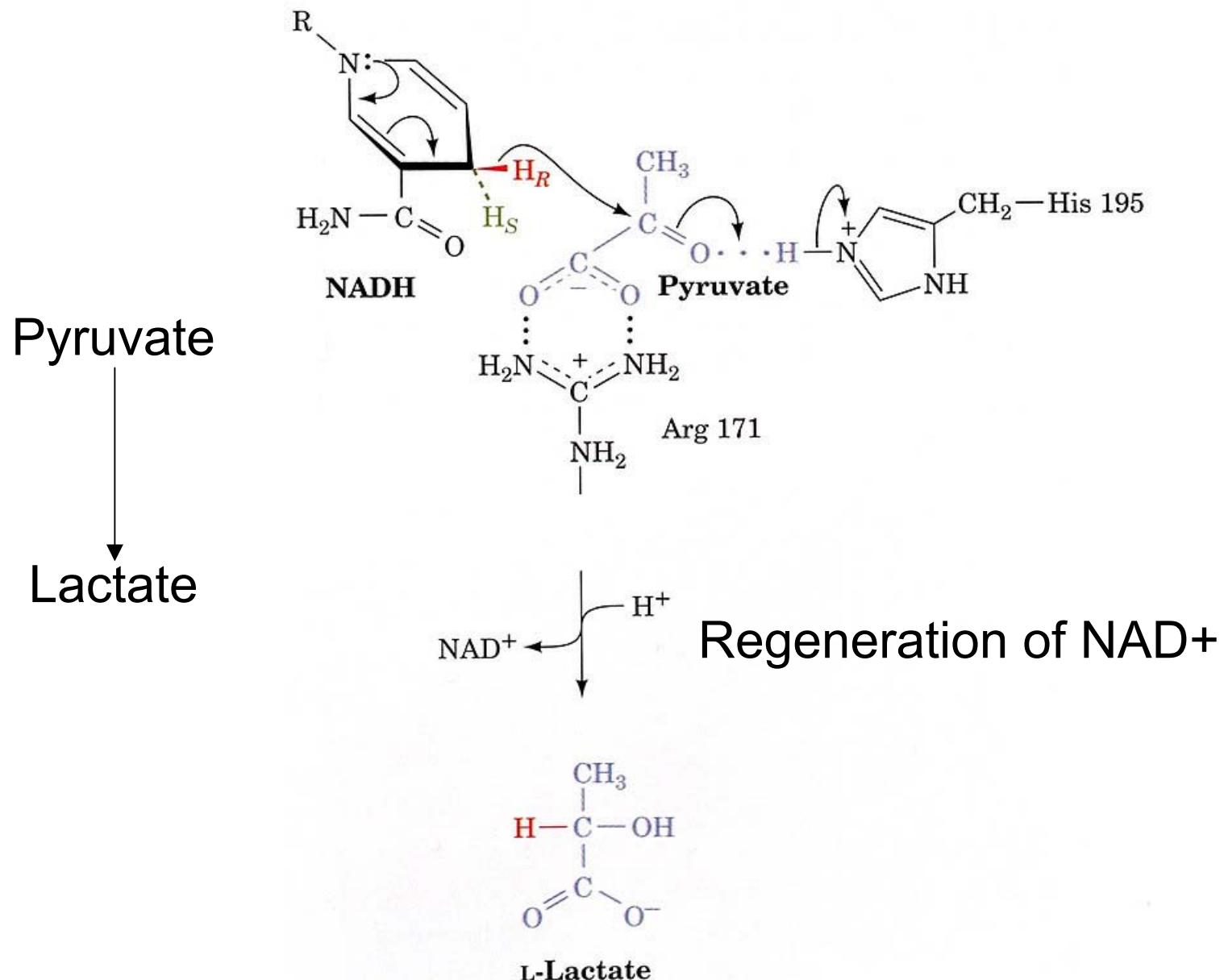


Fig. 16.25

Cori Cycle

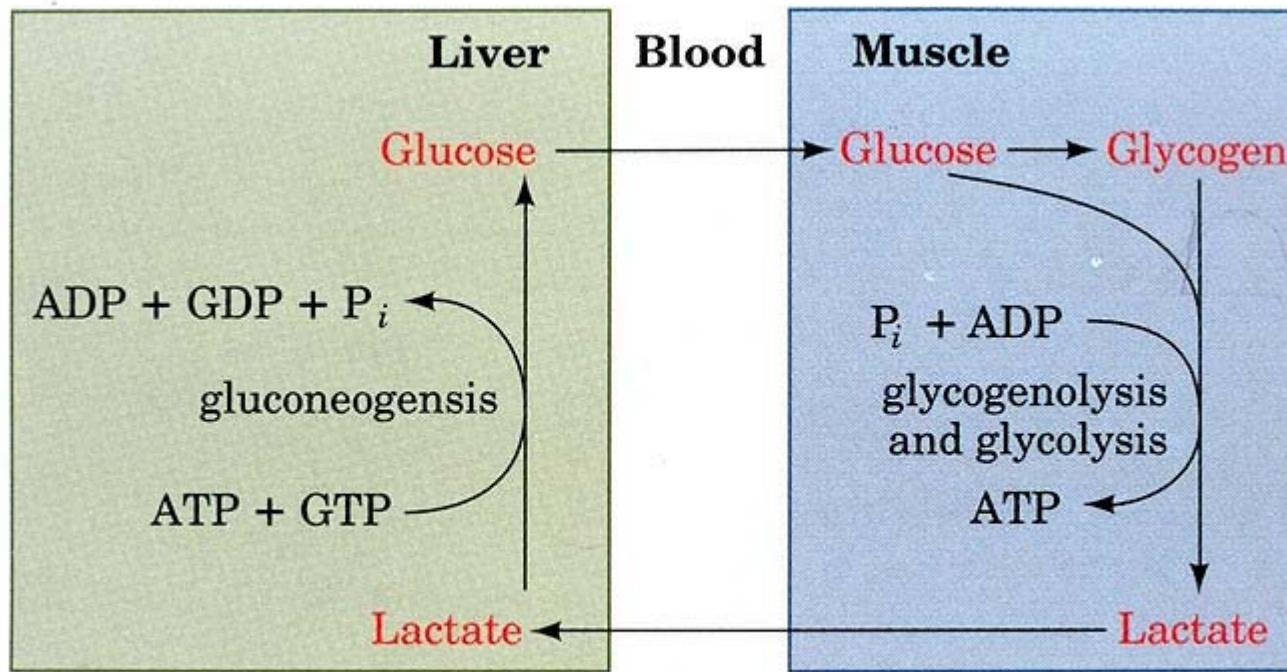


Fig 21.9

Biochemistry 2nd ed, Voet/Voet

Gluconeogenesis (GNG)

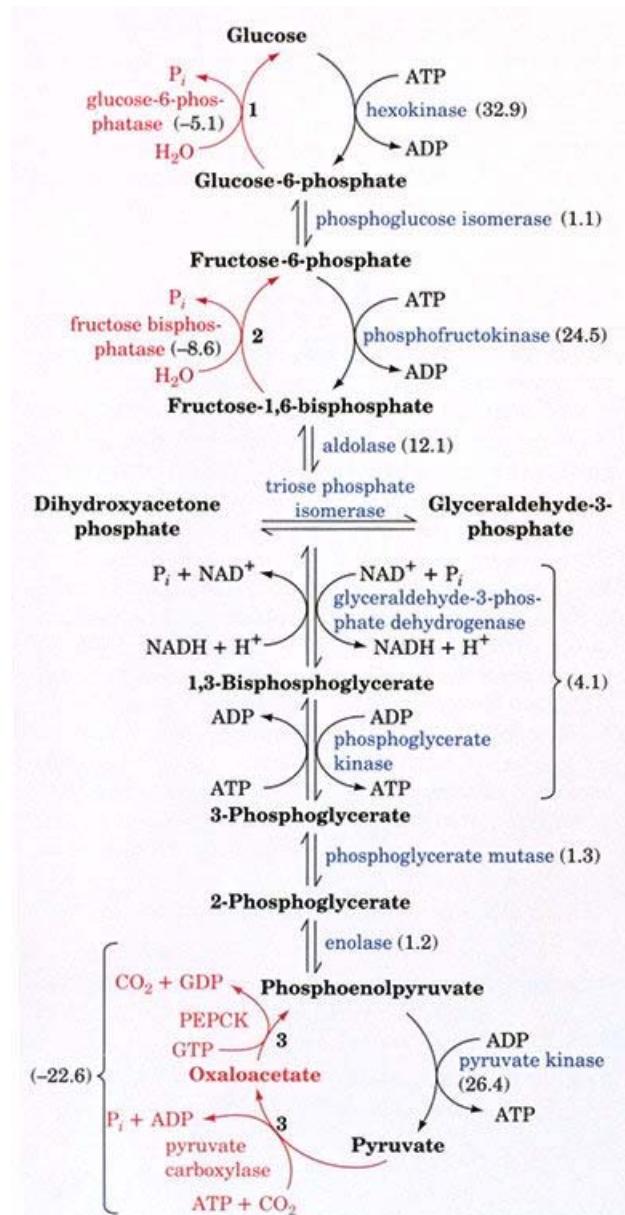


Fig 21.7