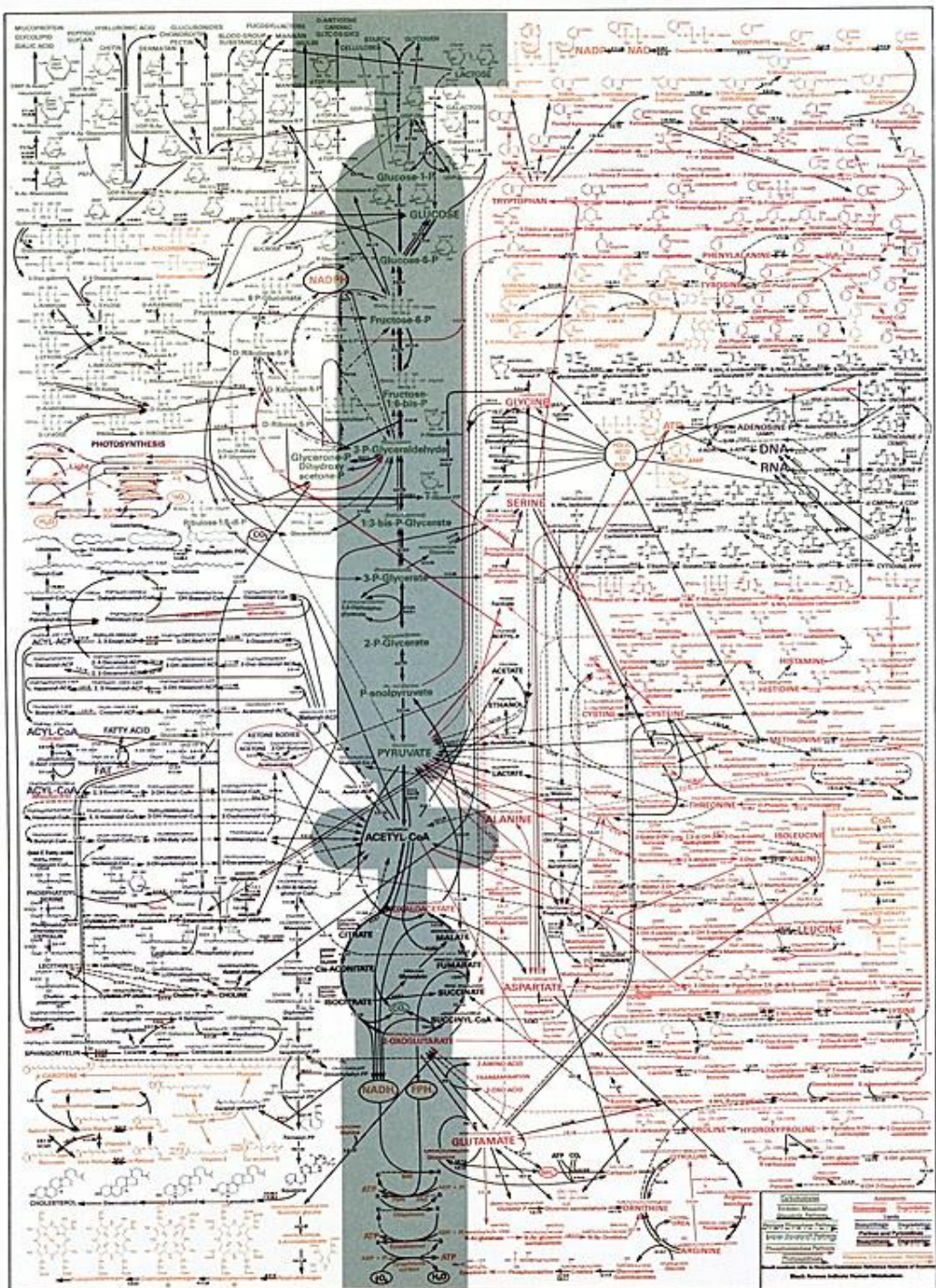
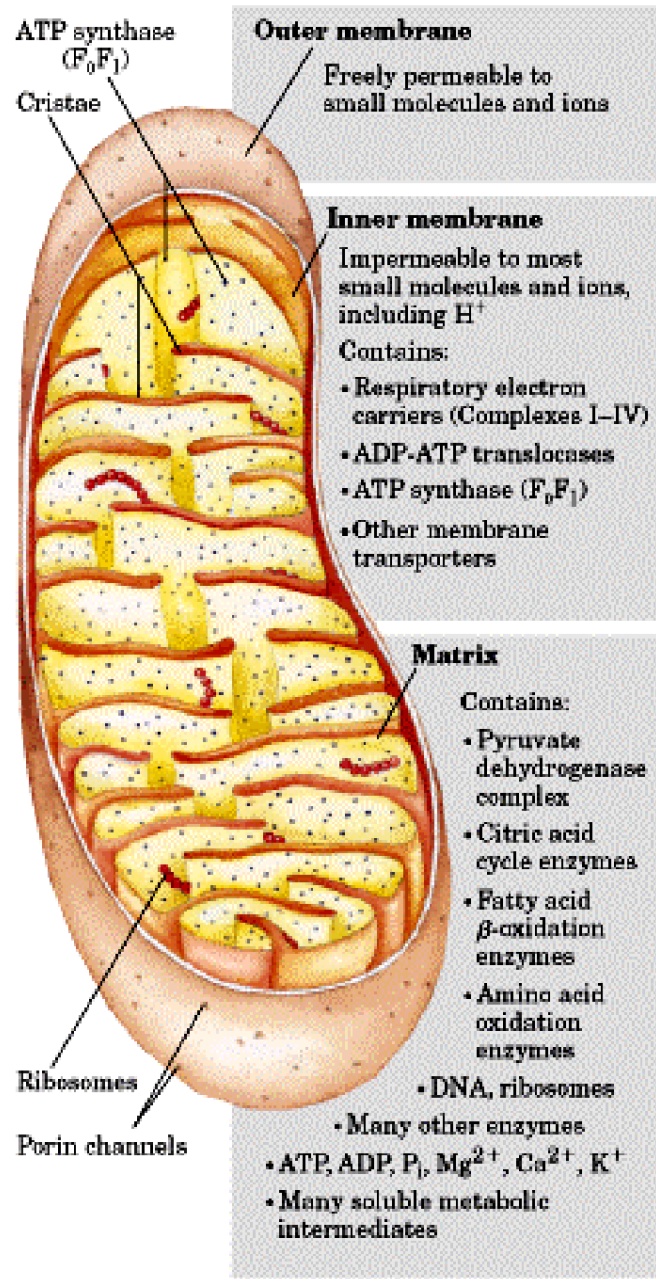


Hoje: Neoglicogênese / Gliconeogênese

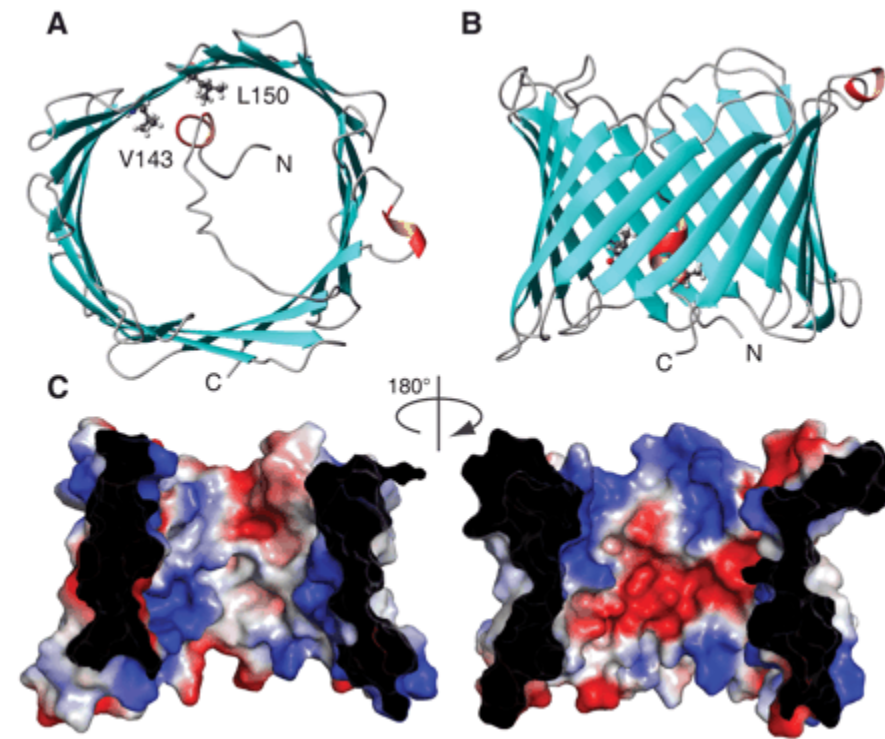
Lançadeiras

Metabolismo do álcool



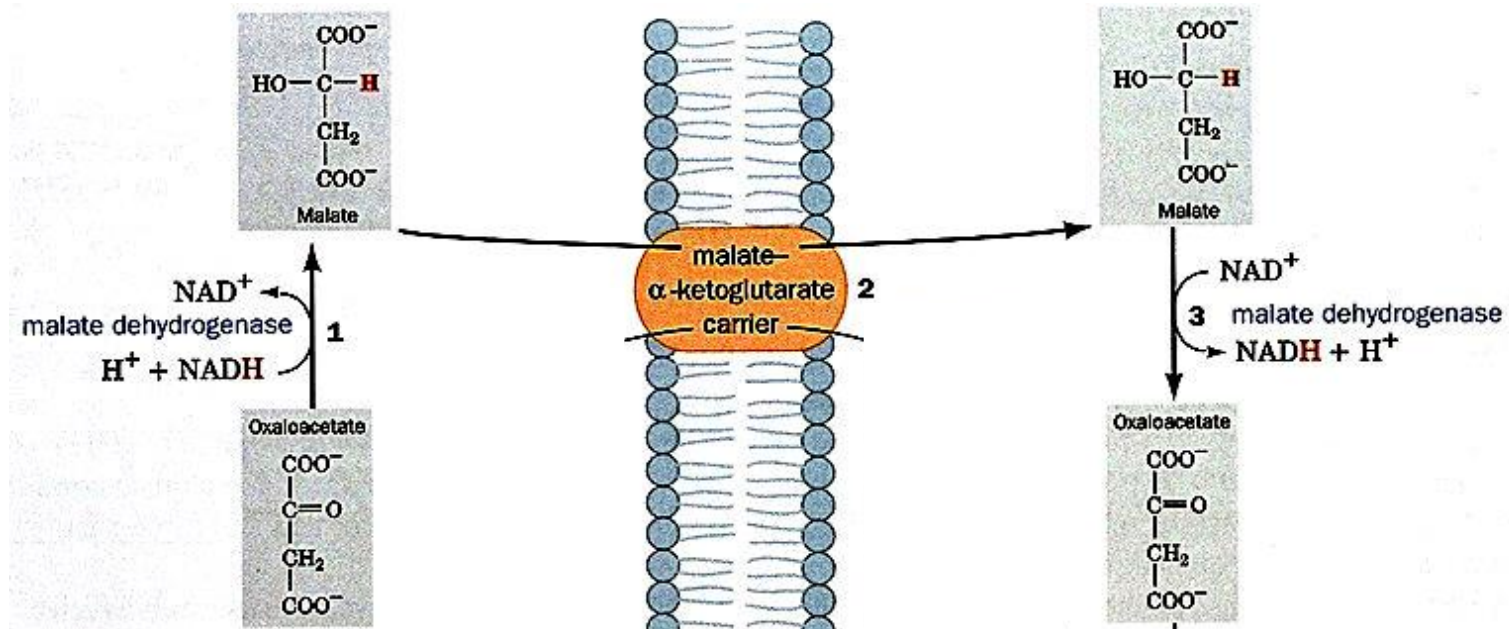


**Lançadeiras:** Transportam os elétrons de NADH citosólico para a matriz mitocondrial



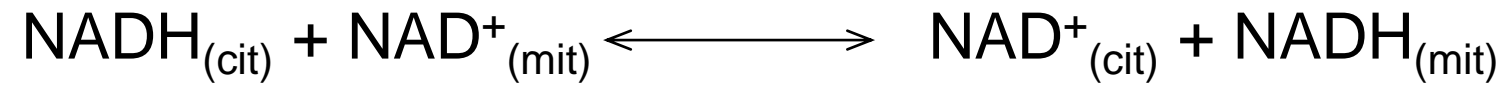


# Lançadeira Malato-Aspartato



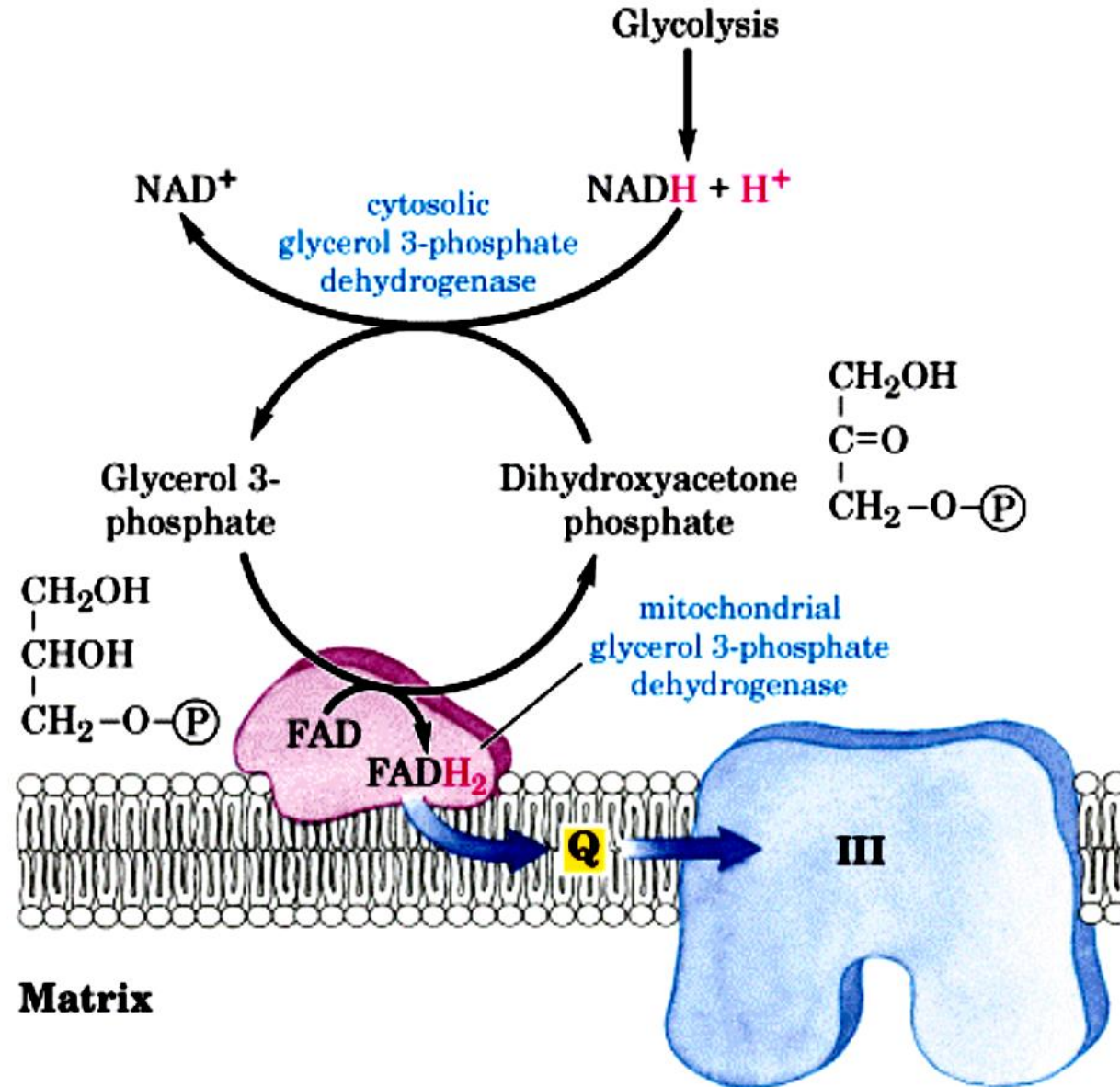
# Lançadeira Malato-Aspartato

- Reação global:



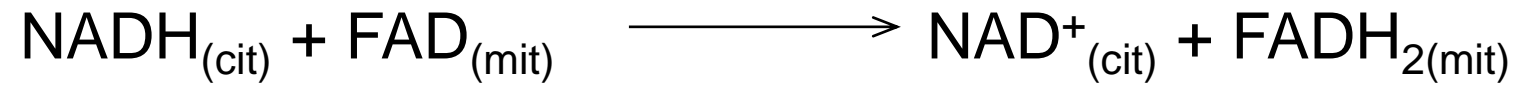
- Reversível
- Presente em fígado, rim, coração

# Lançadeira Glicerol Fosfato



# Lançadeira Glicerol Fosfato

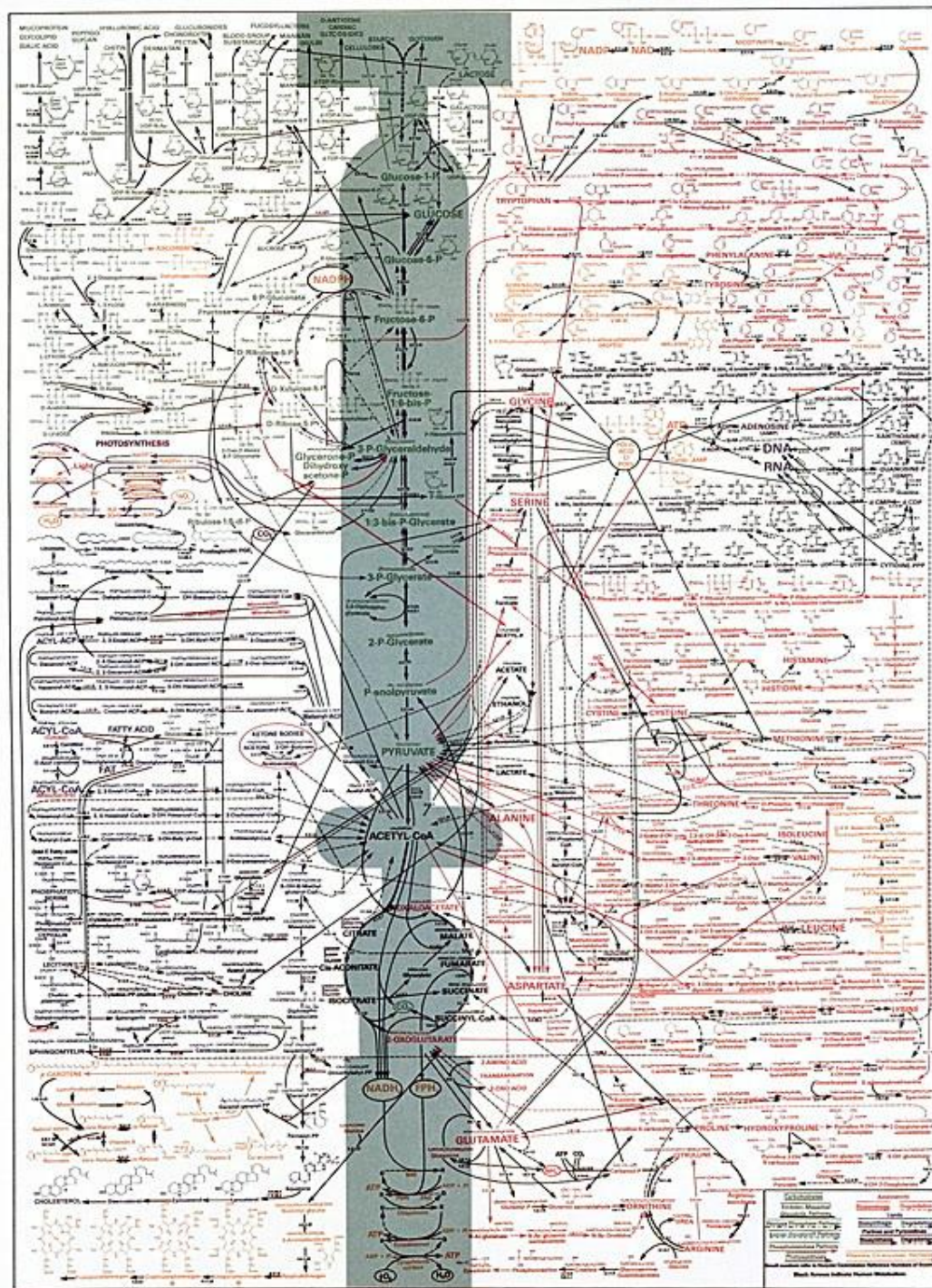
- Reação global:



- Irreversível

- Presente em músculo, cérebro

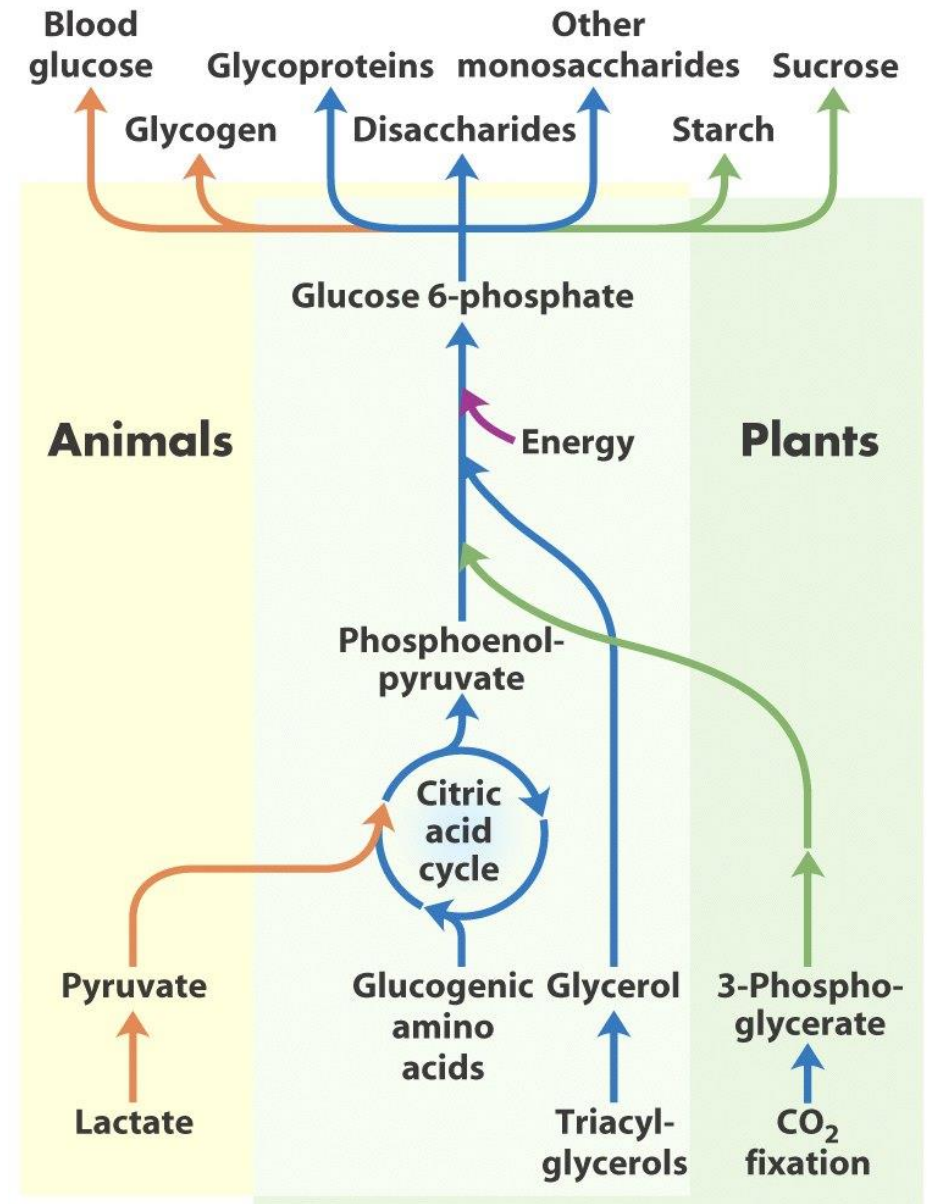


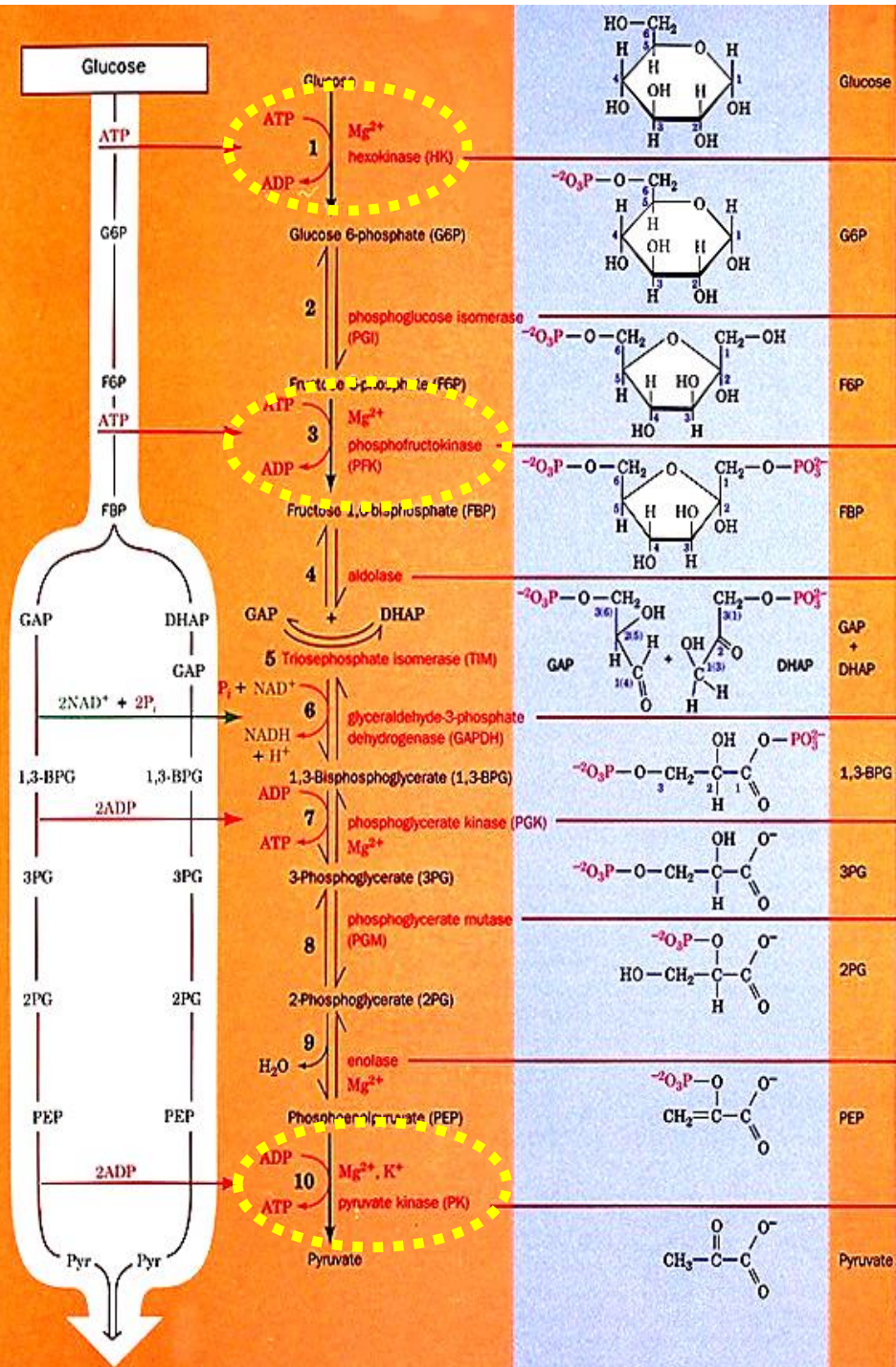


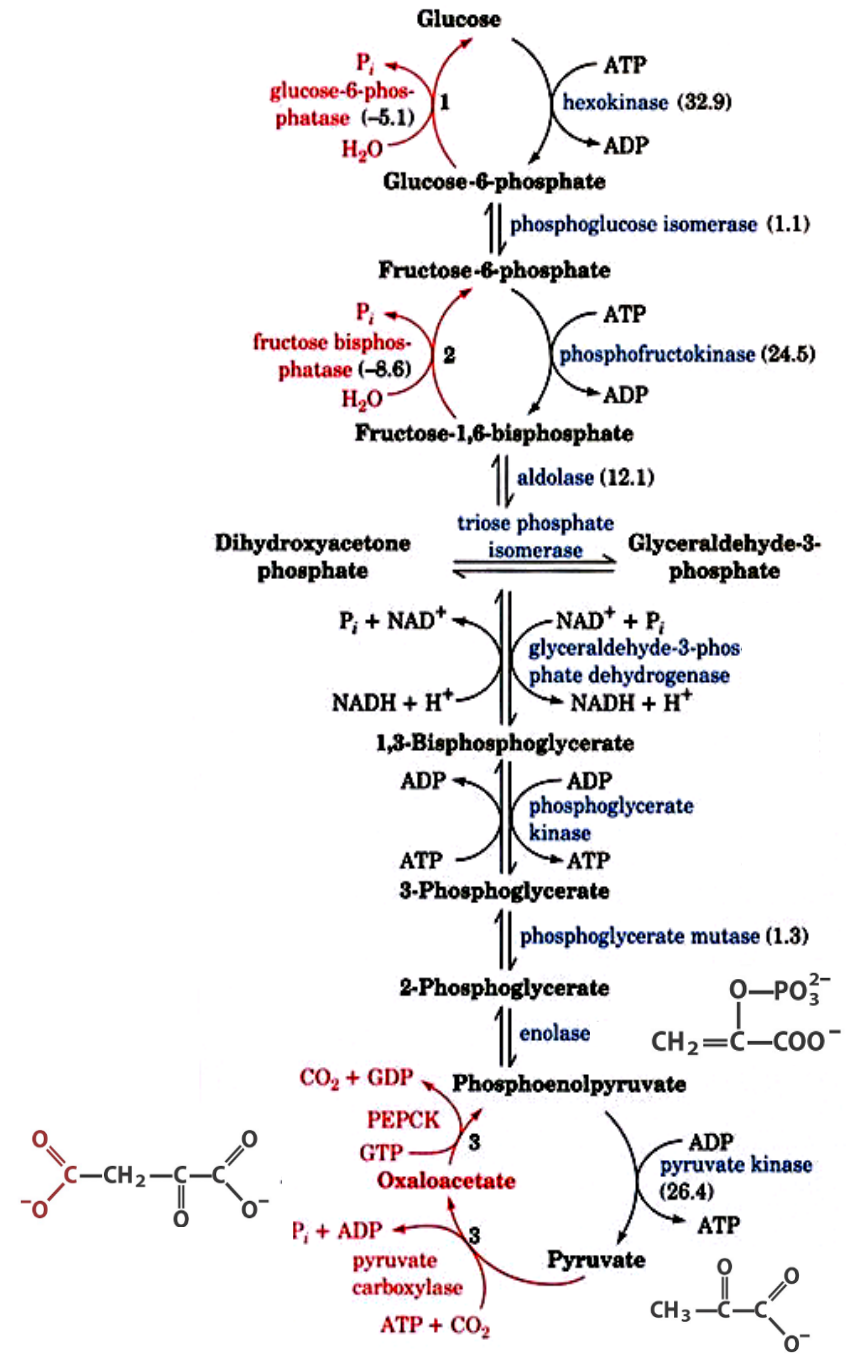


# Gliconeogênese, Neoglicogênese

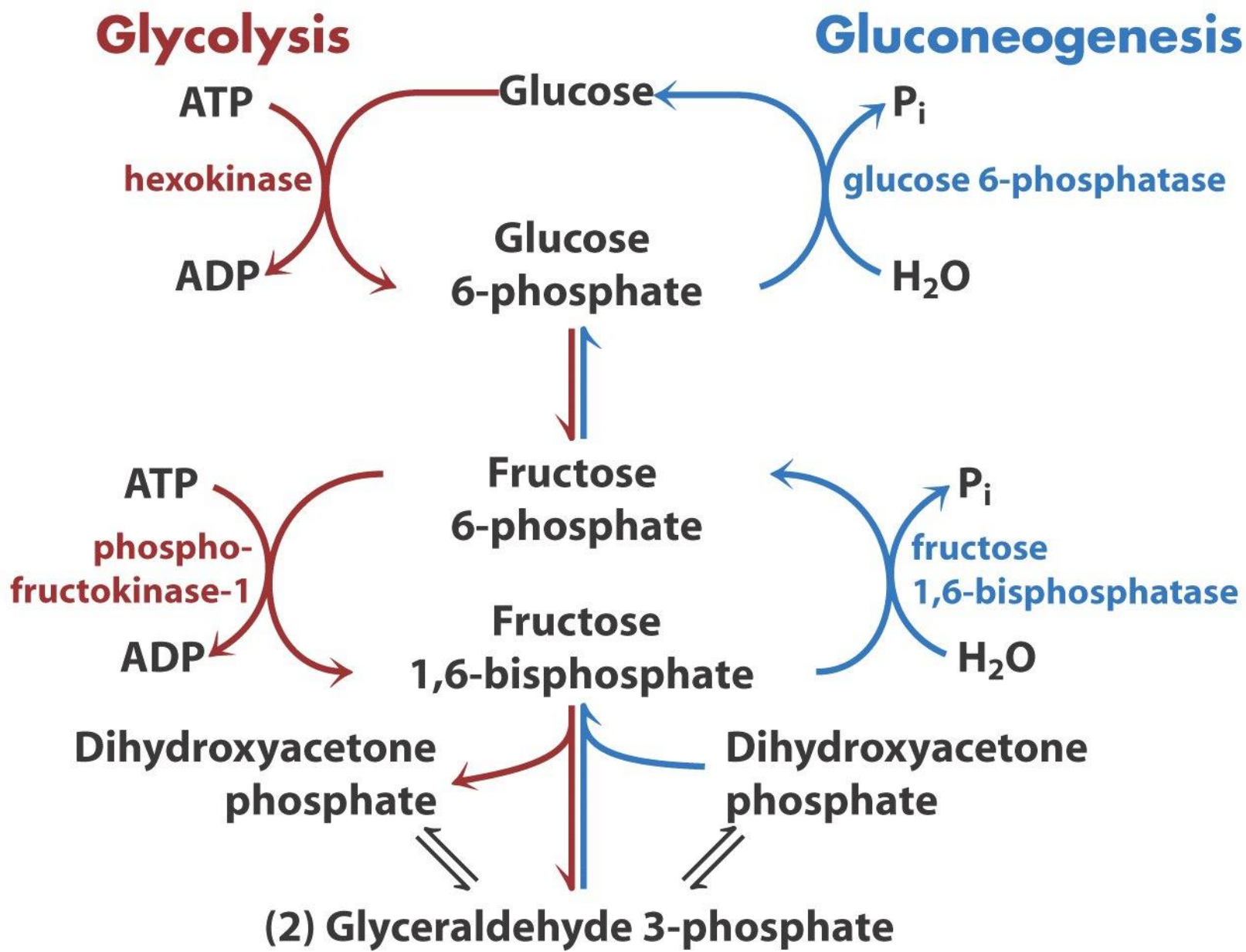
- Cérebro e hemáceas consomem 160 g de glicose / dia
- Glicogênio ~8-24 h
- Neoglicogênese: fígado, rim
- Precursores: lactato, aminoácidos e glicerol



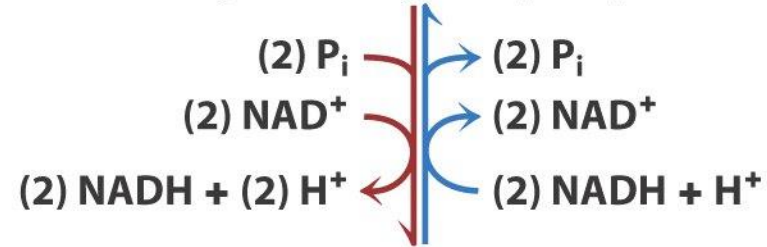




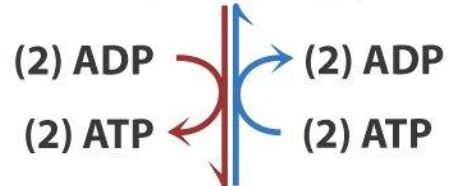




**(2) Glyceraldehyde 3-phosphate**



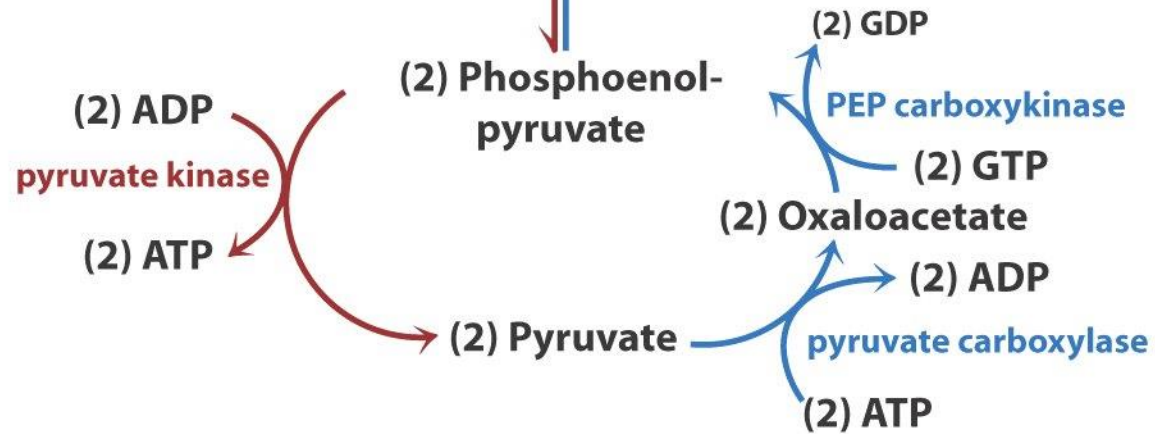
**(2) 1,3-Bisphosphoglycerate**

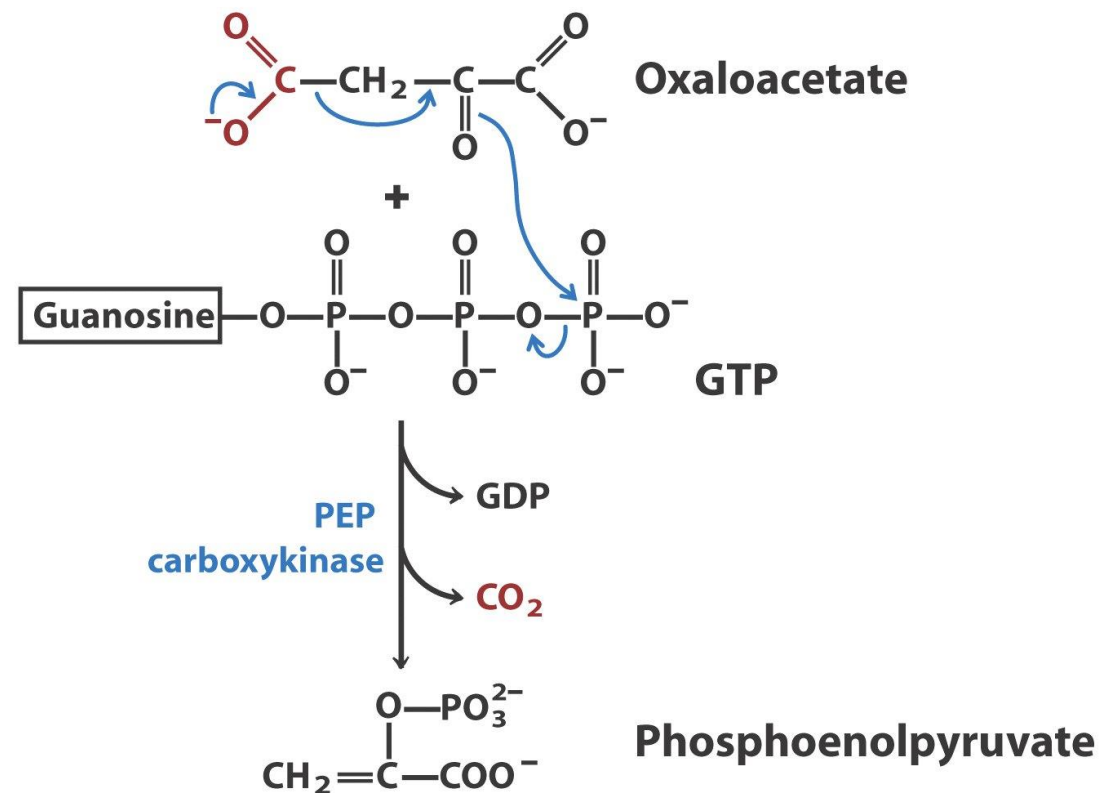
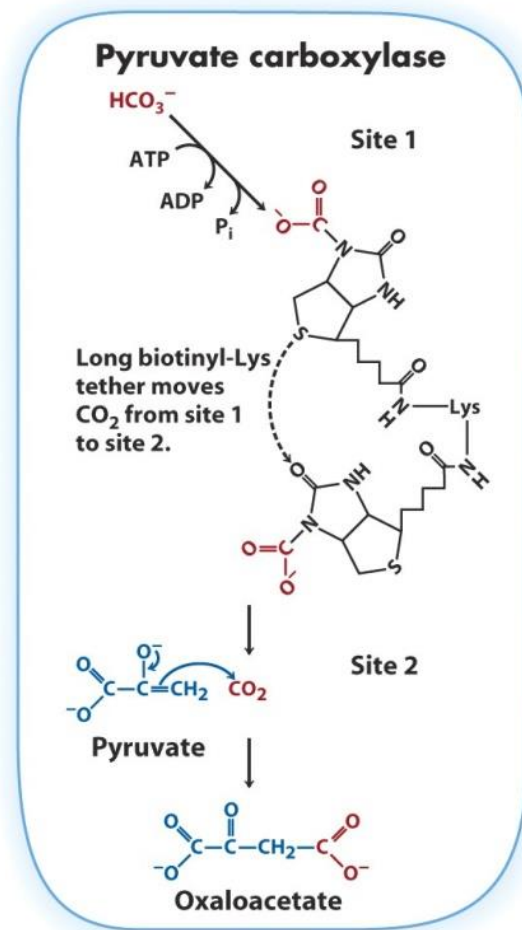
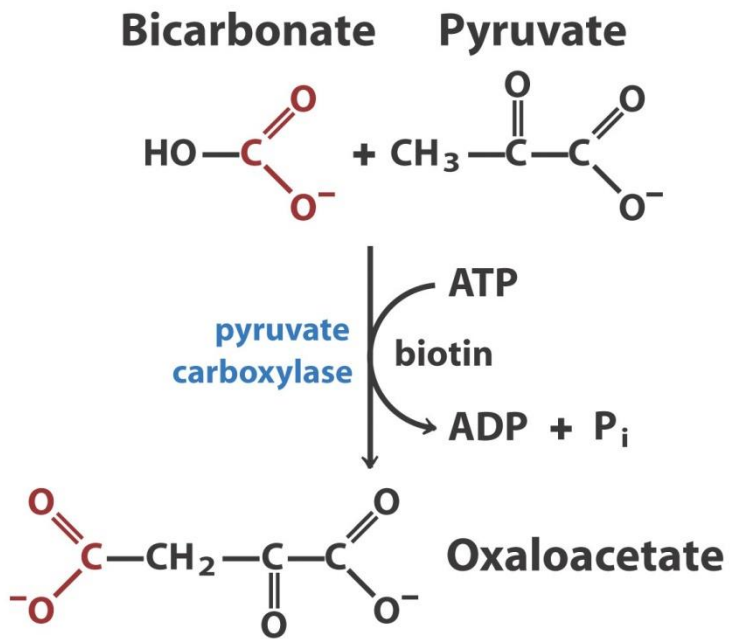


**(2) 3-Phosphoglycerate**



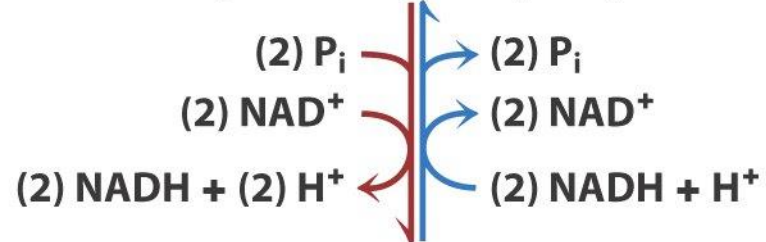
**(2) 2-Phosphoglycerate**



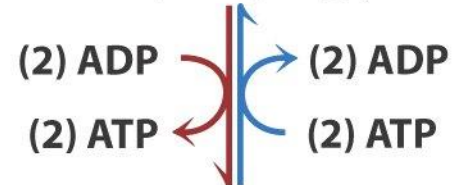




**(2) Glyceraldehyde 3-phosphate**

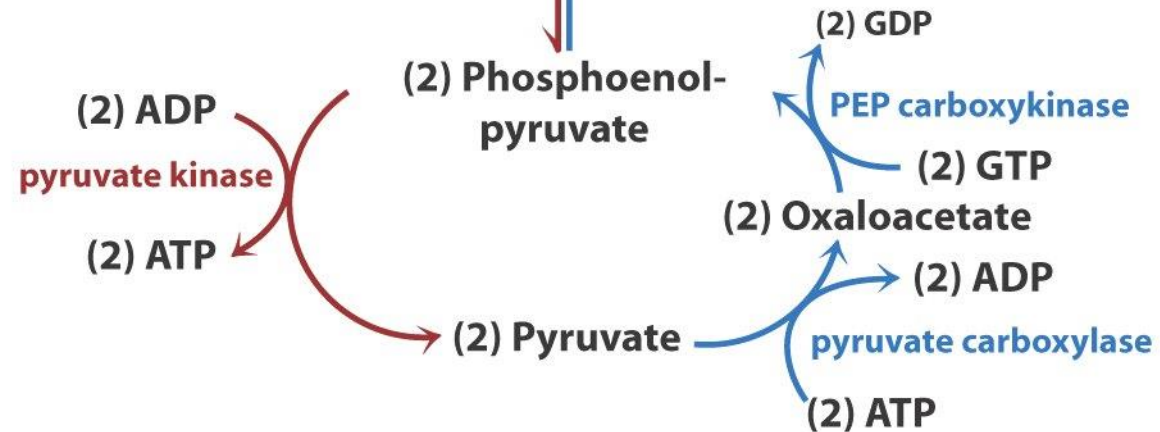


**(2) 1,3-Bisphosphoglycerate**

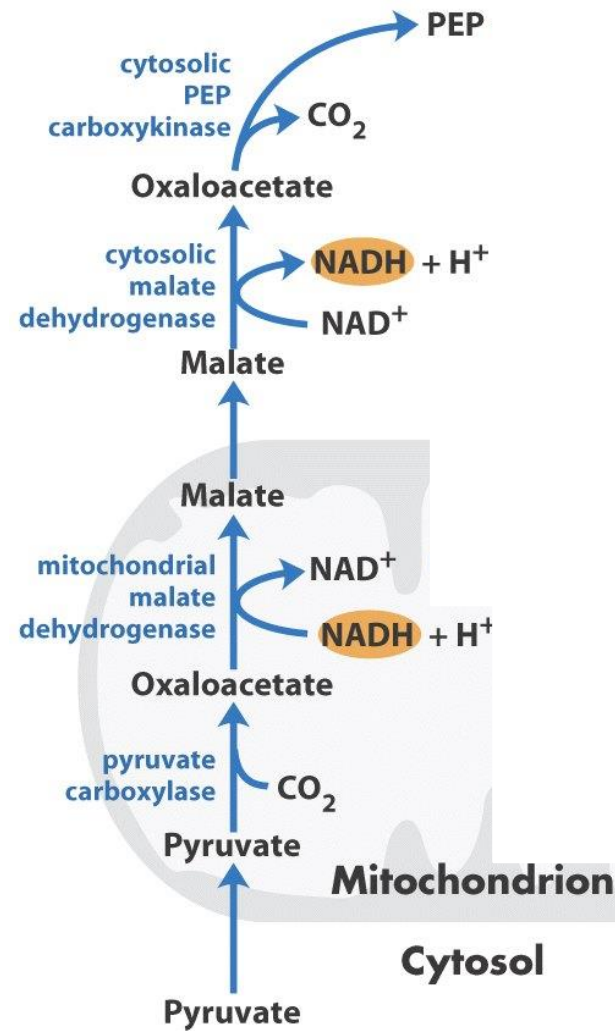


**(2) 3-Phosphoglycerate**

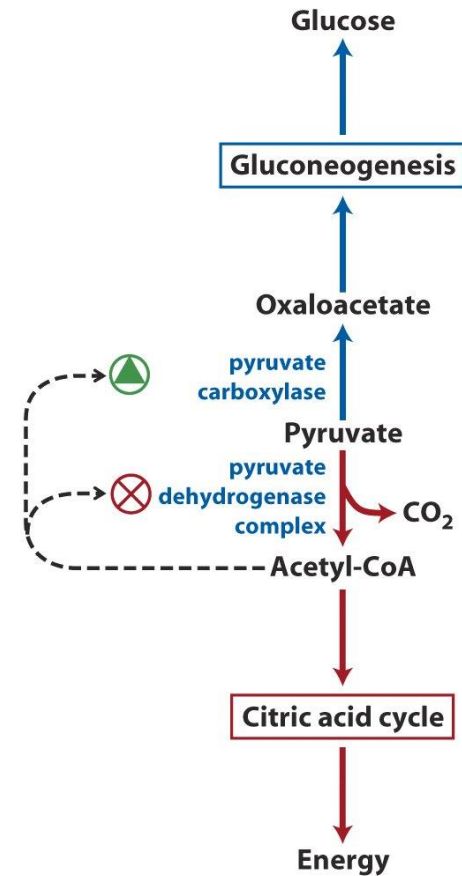
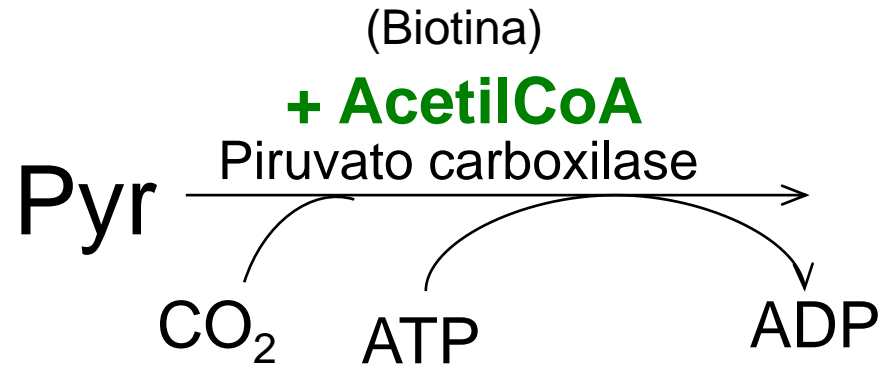
**(2) 2-Phosphoglycerate**



# Piruvato - PEP

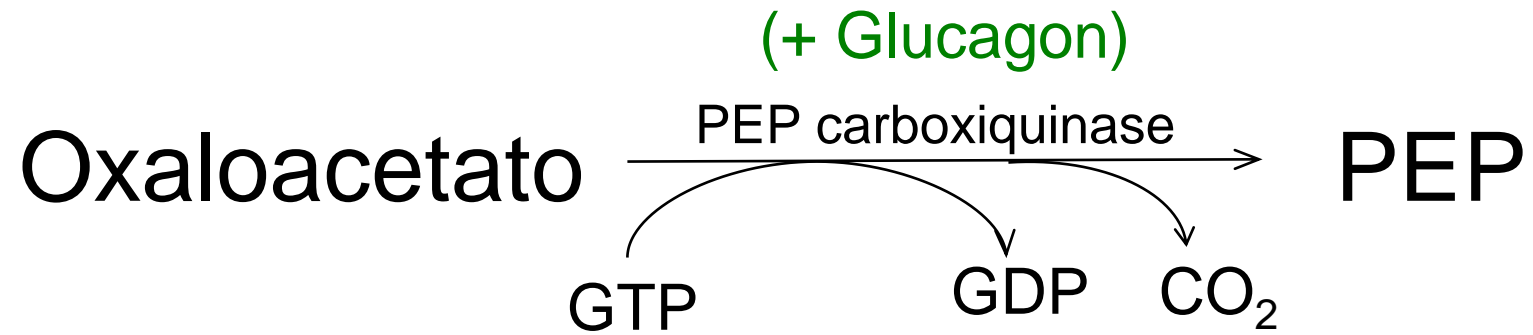


# Regulação Neoglicogênese

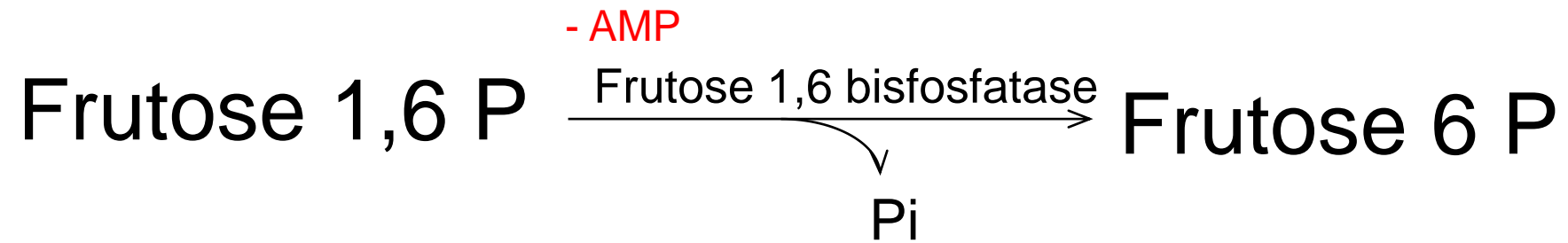




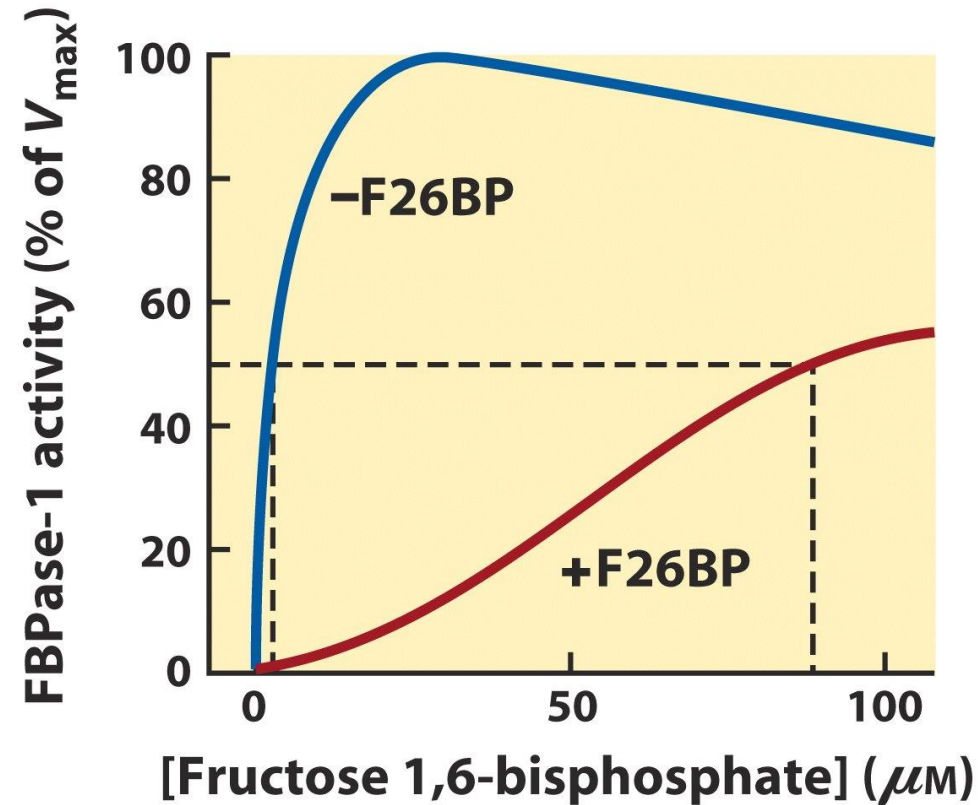
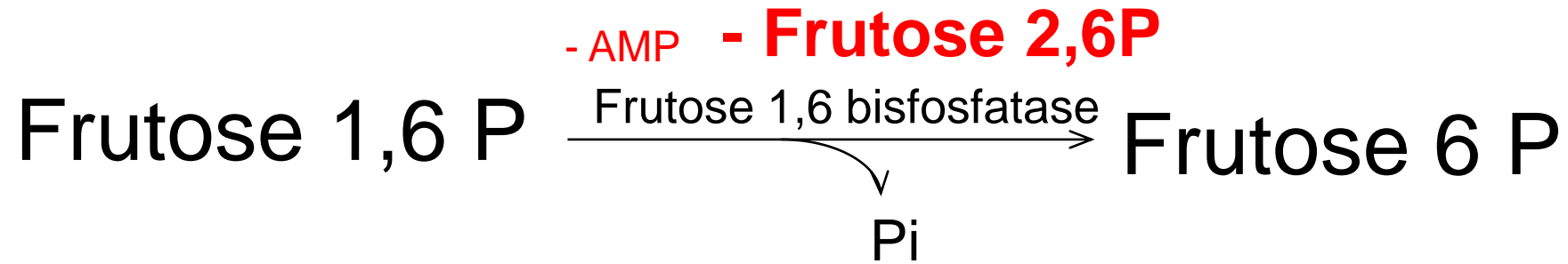
# Regulação Neoglicogênese



# Regulação Neoglicogênese

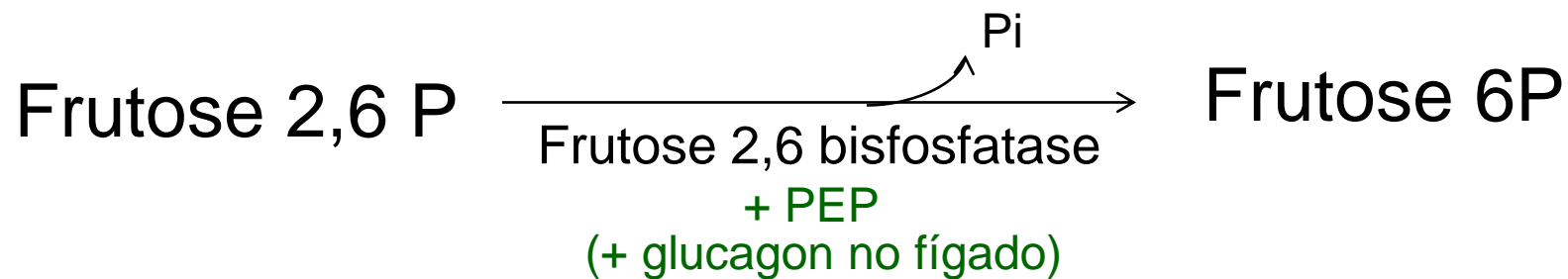
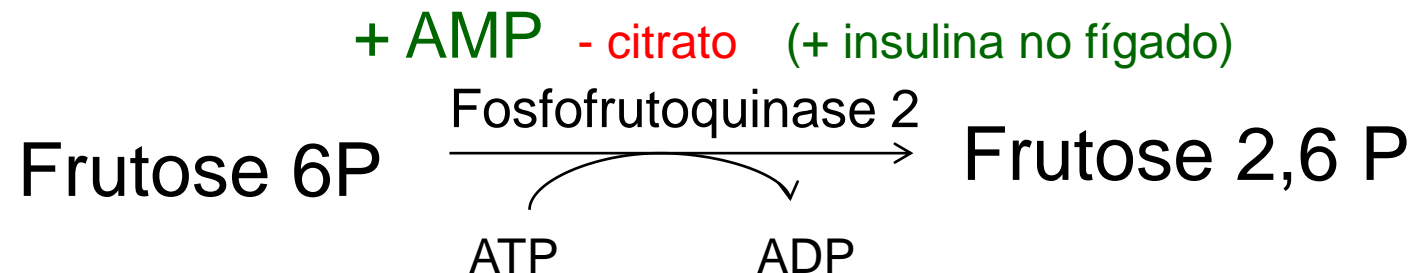
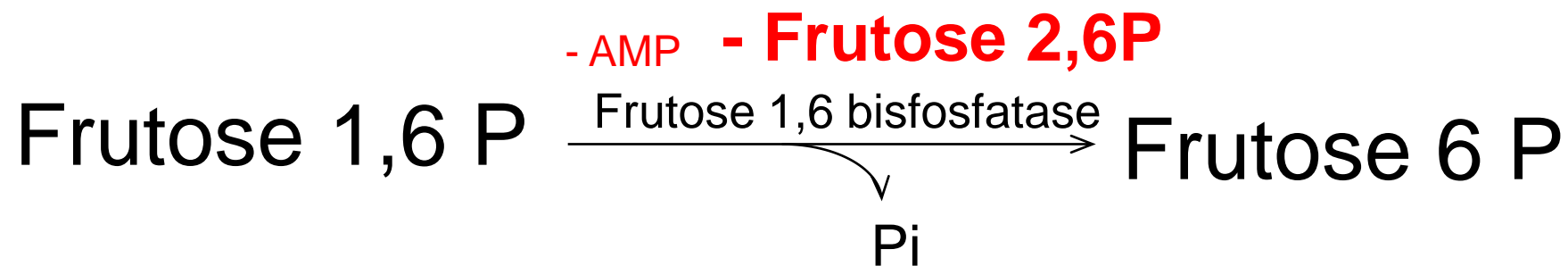


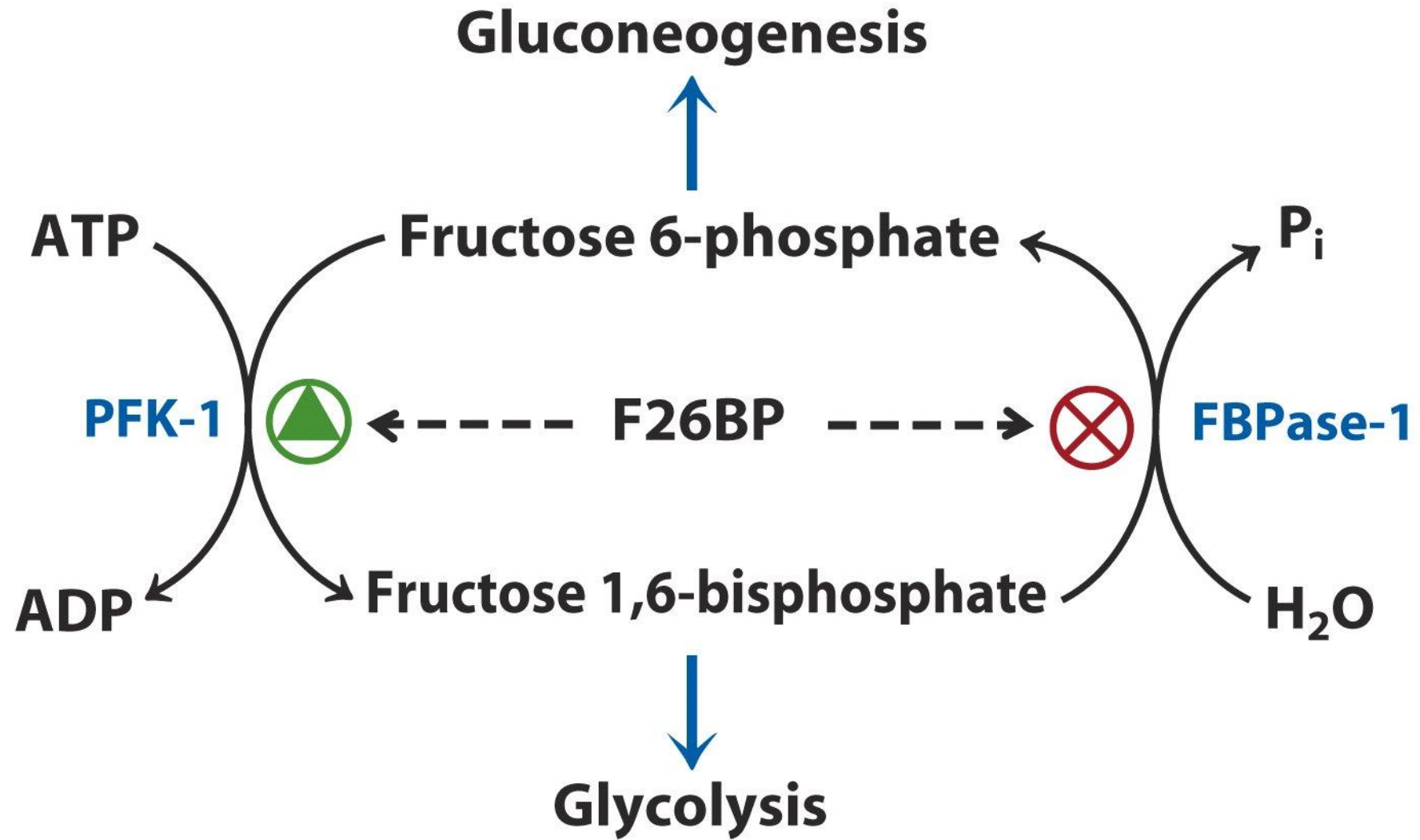
# Regulação Neoglicogênese



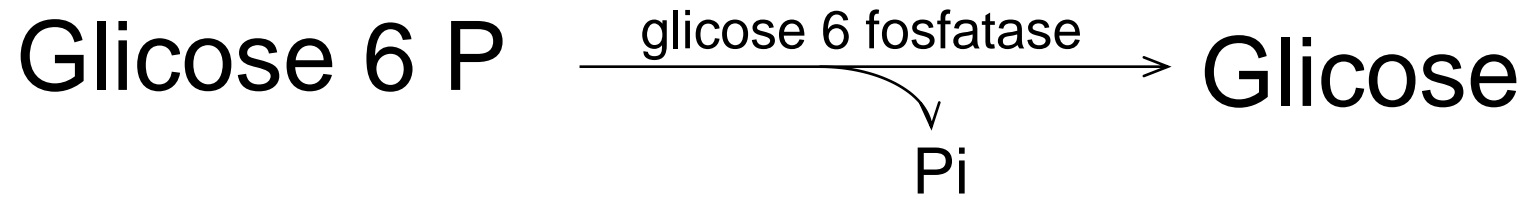


# Regulação Neoglicogênese



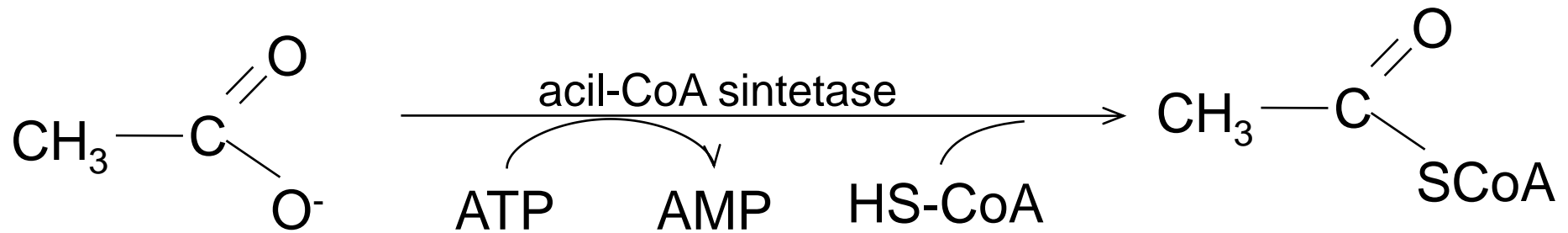
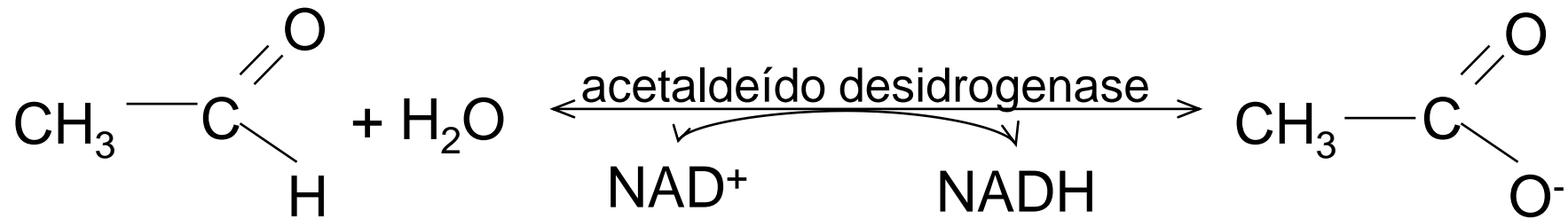
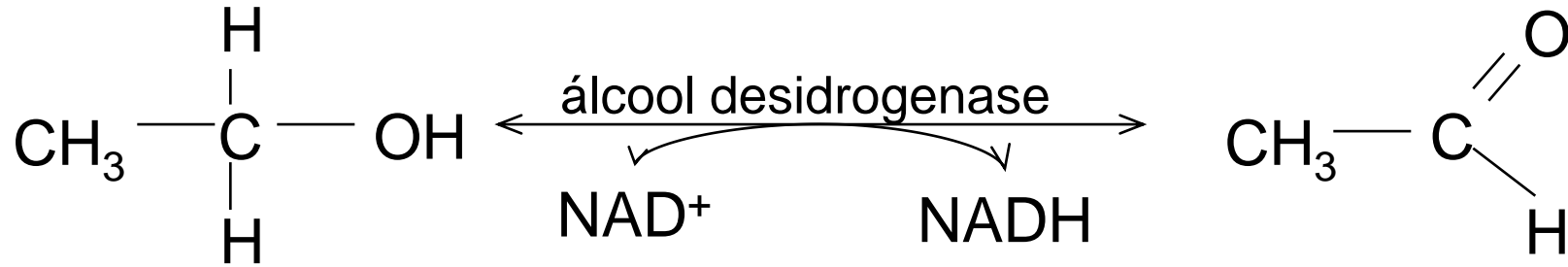


# Regulação Neoglicogênese



- Enzima localizada no RE do fígado e rim
- Jejum aumenta a expressão

# Metabolismo Etanol





# Lactato Desidrogenase

