

Glycolysis

-In Cytoplasm-

Glucose + ADP + NAD ---->

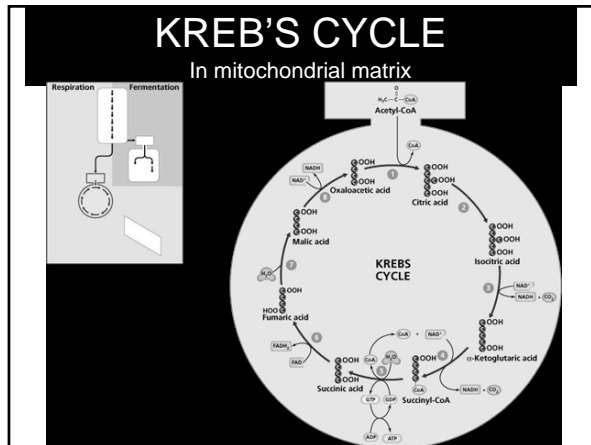
pyruvate + ATP + NADH

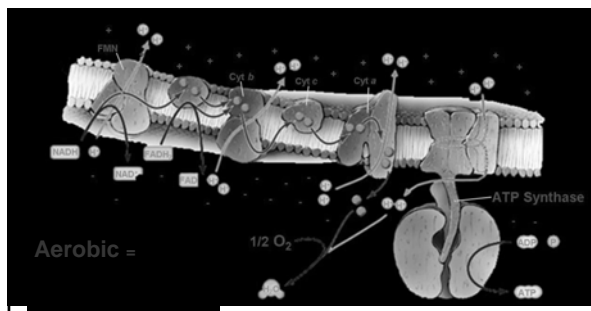


here are some trapped e⁻

KREB'S CYCLE

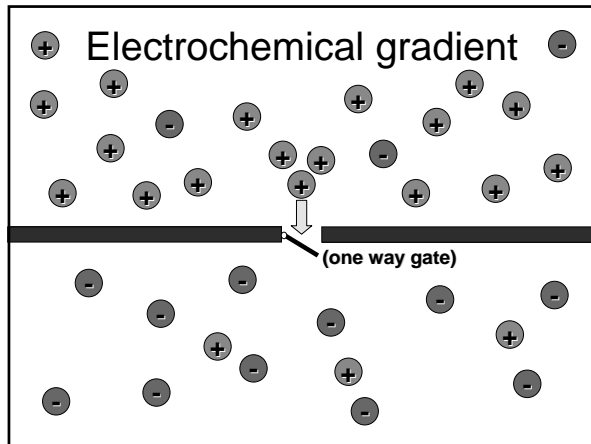
In mitochondrial matrix





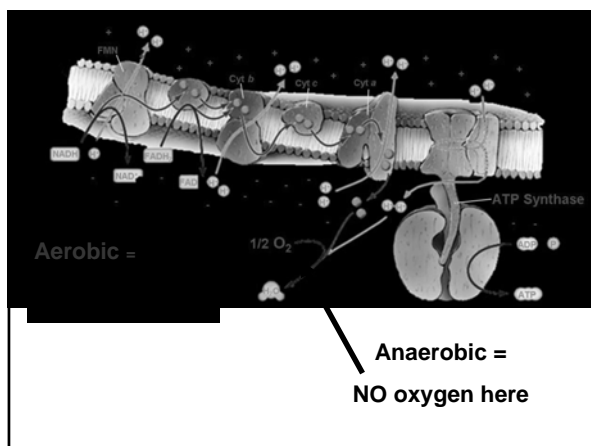
ELECTRON TRANSPORT CHAIN

In mitochondrial christae



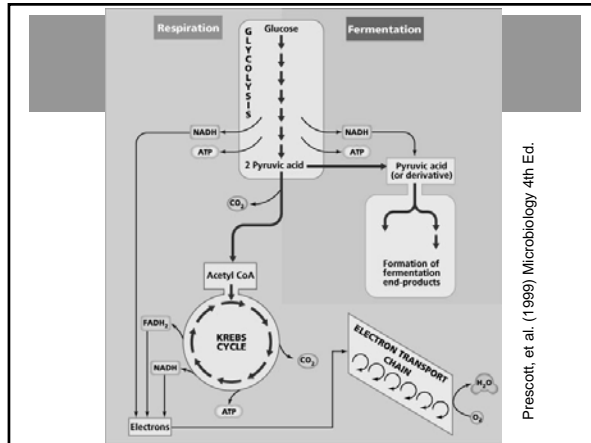
**Inhibitors of oxphos
POISONS!!**

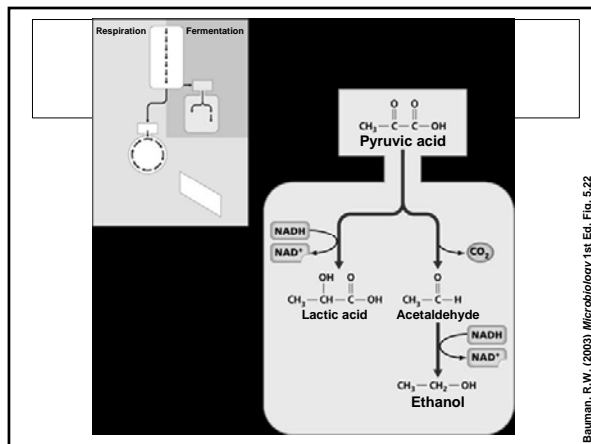
- blockers
 - inhibit e⁻ flow through ETS
 - e.g. cyanide, sodium azide



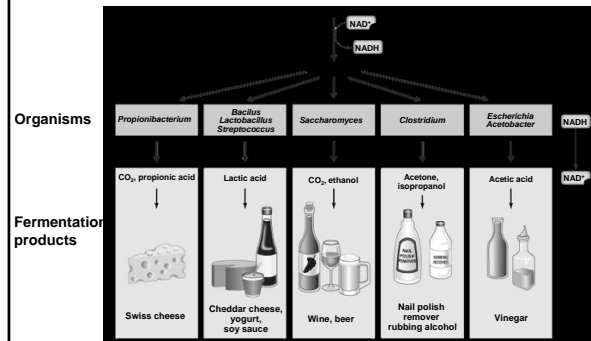
Anaerobic Respiration

- ETC using “other” terminal e⁻ acceptors
 - nitrate (NO₃⁻)
 - sulfate (SO₄²⁻)
 - carbon dioxide (CO₂)

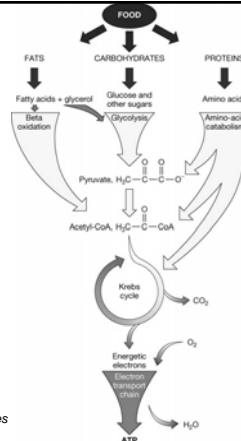




Fermentation products



Catabolism of other stuff



Black, J.G (2002) *Microbiology: Principles and Explorations* 5th Ed. Fig. 5.24
