

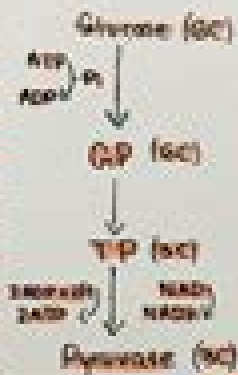
RESPIRATION

Aerobic Respiration



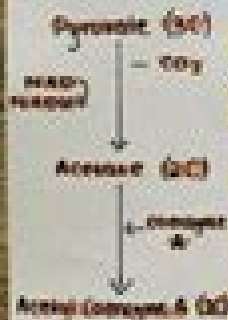
Glycolysis

- ATP hydrolase breaks down 2 ATP into ADP + P_i
- P_i is used to phosphorylate glucose → glucose phosphate
- GP splits via 2 molecules of TP
- Redox reactions TP → pyruvate
NAD → NADH
- TP → pyruvate
- Redox reactions release energy which is used to form ATP from ADP + P_i



Link Reaction

- Pyruvate is actively transported across 2 membranes into matrix
- CO₂ is removed from pyruvate → decarboxylation
- Redox reactions occur
Pyruvate oxidised → acetyl
NAD reduced → NADH
- Coenzyme A combines with acetyl to form acetyl coenzyme A (acetyl CoA)



Krebs Cycle

- Acetyl CoA combines with a 4C oxaloacetate to form a 6C citrate
 - This releases coenzyme A which is reused in link reaction
 - 6C is decarboxylated to 5C
 - NAD and FAD coenzymes are reduced
 - Oxaloacetate is regenerated 5C decarboxylated to 4C
- Redox reactions occur producing NADH + FADH → these energy is used to produce ATP



Anaerobic Respiration

In plants (yeast)

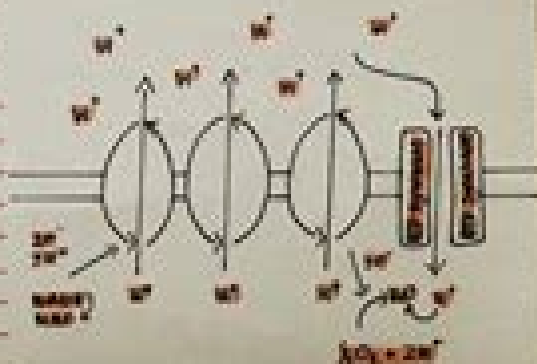


In animals



Oxidative phosphorylation

- NADH/FADH release H⁺ (oxidised) and electrons
- Electrons are transferred along the ETC in a series of redox reactions → energy released is used to pump H⁺ across cristae into intermembrane
- This creates concentration gradient so protons diffuse out through ATP synthase and activate it
- ATP synthase phosphorylates ADP to ATP
- Oxygen combines with e⁻ + H⁺ to form water. Oxygen is reduced



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