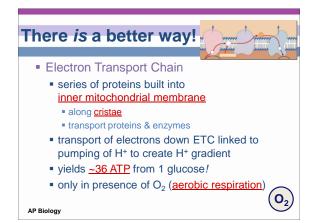


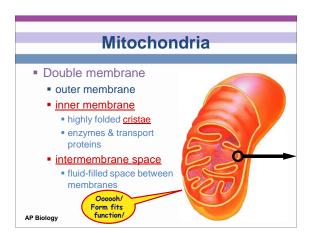
ATP accounting so far...

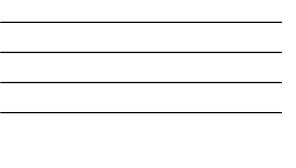
- Glycolysis → 2 ATP
- Kreb's cycle \rightarrow 2 ATP
- Life takes a lot of energy to run, need to extract more energy than 4 ATP!

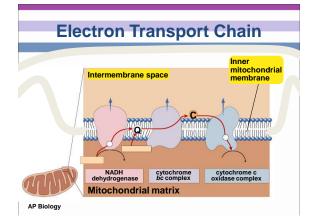
There's got to be a better way!



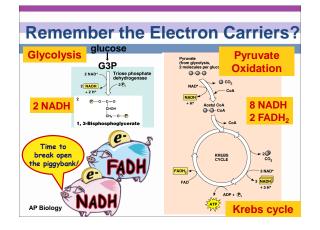




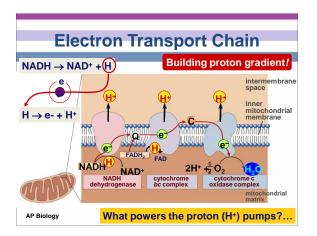














Stripping H from Electron Carriers

- Electron carriers pass electrons & H⁺ to ETC
 - H cleaved off NADH & FADH₂
 - <u>electrons</u> stripped from H atoms → H⁺ (protons)
 electrons passed from one electron carrier to next in mitochondrial membrane (ETC), flowing electrons = energy to do work
 - transport proteins in membrane pump H⁺ (protons) across inner membrane to intermembrane space

