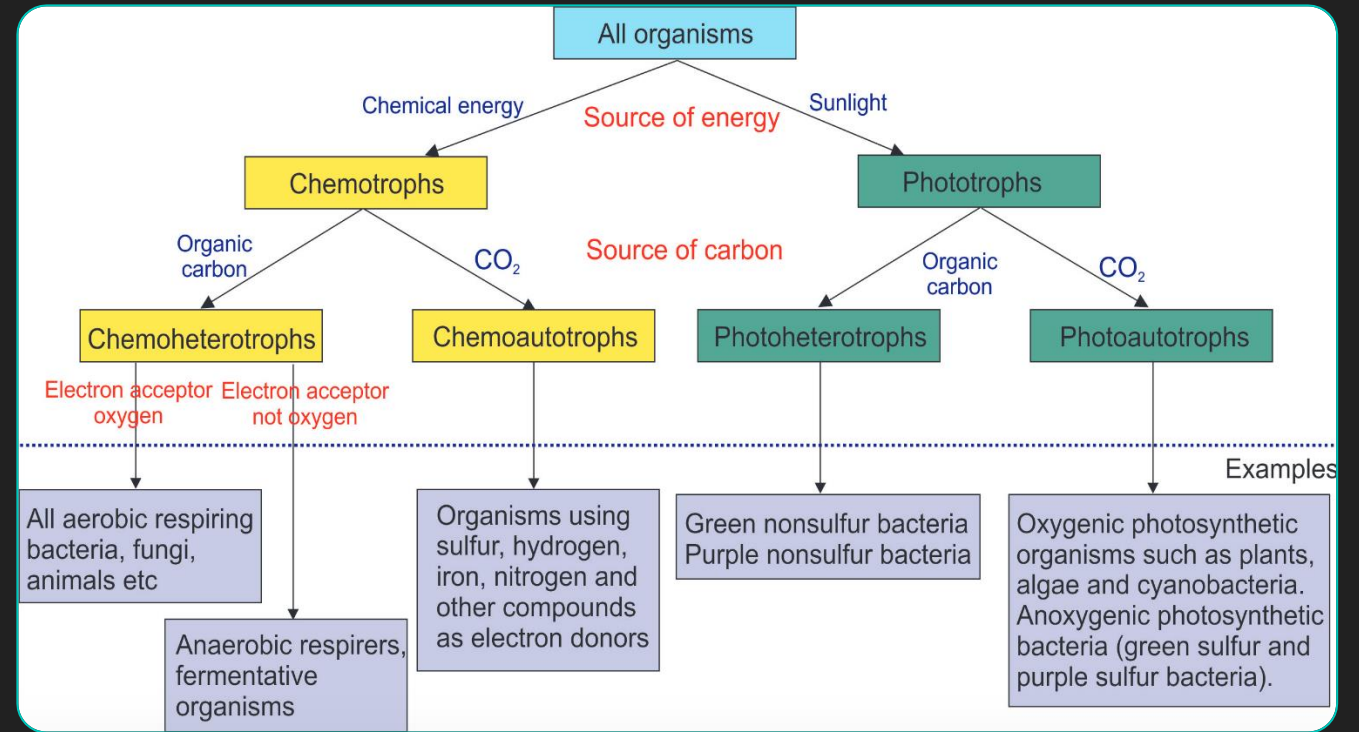


Ch. 5 Review: Energy 4 Life

Mr. Pierce man

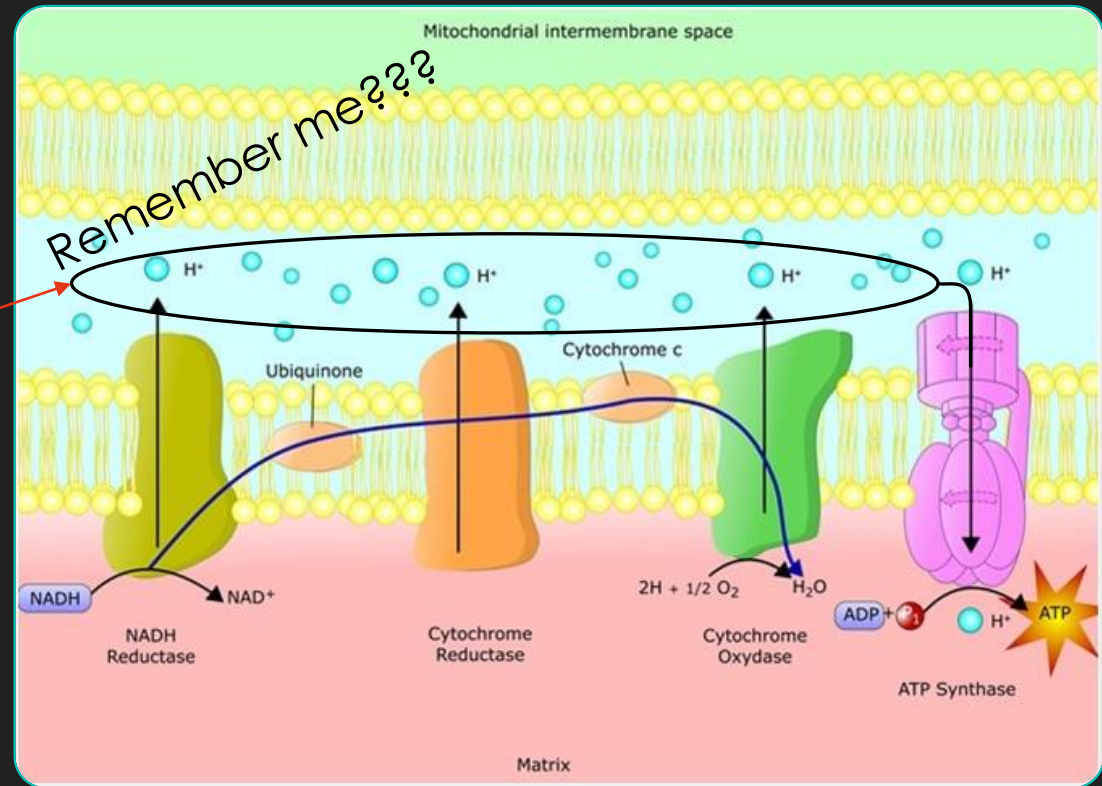
Types of Energy Acquisition ~ Metabolism

- **Photoautotroph:** Obtain energy from light and carbon from CO₂
- **Photoheterotrophs:** Obtain energy from light and carbon from organic compounds
- **Chemoautotrophs:** Obtain energy from chemical compounds and carbon from CO₂
- **Chemoheterotrophs:** Obtain energy from chemical compounds (typically organic) and carbon from organic compounds



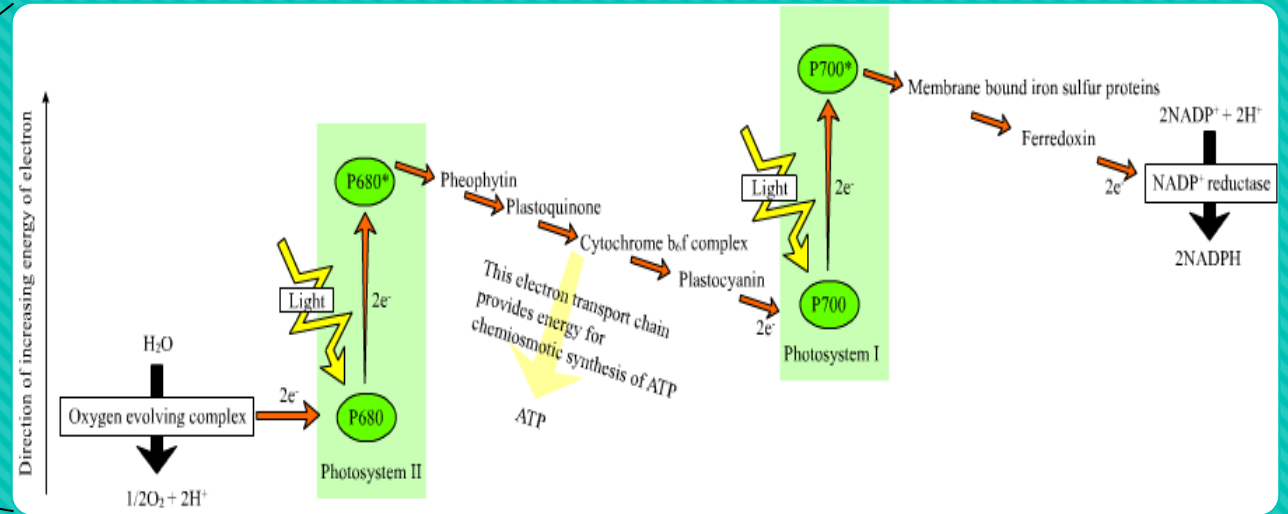
The Electron Transport Chain

- All organisms, regardless of metabolism, rely on the movement of electrons to generate energy
- Proton Motive Force – Potential difference across membrane moves protons across cell membrane
 - Used to generate ATP



Aerobic & Anaerobic Respiration

- Is oxygen your electron acceptor?
 - You may be an aerobic respirator. Contact your doctor for more information
- Is something other than oxygen your electron acceptor?
 - Stop. Get help.
 - Produces much much less energy compared to aerobic



Photosynthesis, as demonstrated (accurately) by a cartoon sponge