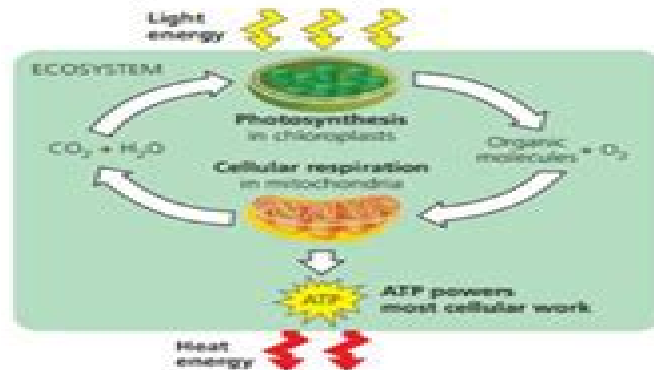


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Chapter 9: Cellular Respiration and Fermentation

A1: Life is Work

- Living cells require energy to perform biological tasks
- The chemical elements essential to life are recycled, and oxygen and organic molecules produced by photosynthesis is used for cellular respiration, which generates ATP
- The waste products of respiration are the raw materials for photosynthesis



A1: Catabolic Pathways Yield Energy by Oxidizing Organic Fuels

- Catabolic pathways are metabolic pathways that release stored energy by breaking down complex molecules, which involve electron transfer

A2: Catabolic Pathways and Production of ATP

- The arrangement of electrons in organic compounds allows them to possess potential energy
- Compounds that participate in exergonic reactions act as fuels
- Enzymes degrade complex molecules with potential energy to simple waste products with less energy, and the energy released is used to do work or is heat
- **Fermentation** is a process that partially degrades sugars and organic fuels without oxygen
- **Aerobic respiration** is the most efficient catabolic pathway in which oxygen is consumed as a reactant along with an organic fuel
- Most eukaryotes and prokaryotes use aerobic respiration, but some use a substitute for oxygen in a pathway known as anaerobic respiration
- **Cellular respiration** refers to both aerobic and anaerobic respiration, but it has a connotation of aerobic respiration, since respiration refers to the process of taking oxygen in
- Cellular respiration is very similar to a combustion reaction, and carbs, lipids, and proteins can all be used as organic fuel, particularly starch in animal diets
- Equation for Cellular Respiration: $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy (ATP + heat)}$
- The breakdown of glucose is exergonic and has a ΔG of -686 kcal/mol , so the reaction is spontaneous
- Catabolism is linked to work by ATP, which must be replenished by synthesizing ADP and inorganic phosphate

A3: Redox Reactions: Oxidation and Reduction

- The transfer of electrons during chemical reactions results in the gain of energy

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Jessica J Manson



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