

Energy in the Cell

Energy Production – ATP

The cells of all organisms—from the tiniest bacterium to the giant Redwood—need energy to survive. They need energy to transport substances through the cell membrane, to make new cell parts and repair damaged ones, to grow, and to reproduce. Where do organisms get all this energy? Directly or indirectly, almost all energy in living systems comes from the sun. Energy enters living systems when plants and a few other organisms absorb sunlight and use its energy to make organic compounds during the process of **photosynthesis**. These organic compounds store energy as chemical energy.

Organisms that use energy from sunlight or inorganic substances to make organic compounds are called **autotrophs**. Most autotrophs are photosynthetic. Some autotrophs use chemical energy from inorganic substances to make organic compounds. Other organisms, called **heterotrophs**, obtain their energy from other organisms. The food they eat contains energy trapped in the organic molecules manufactured by autotrophs. The energy is released in cells through the process of **cellular respiration**. You may have heard that during cellular respiration your body cells “burn” food. This burning is different from the burning of wood. When wood burns, a lot of energy is given off quickly in the form of heat and light. In living cells, the energy stored in food is released gradually in a series of chemical reactions. The product in one reaction serves as a reactant in the next reaction.

When living cells break down food molecules, some of the energy in the molecules is released as heat. Other energy is stored in molecules of **adenosine triphosphate**, or **ATP**, which delivers energy wherever energy is needed in a cell. ATP contains three phosphate groups joined in a chain. When the bond between the two outer phosphate groups is broken, adenosine diphosphate, or **ADP**, forms and energy is released. **ATP → ADP + P + energy** The energy released during this reaction is used as activation energy to power other chemical reactions needed to carry out life activities, such as those that build molecules.

Check for Understanding

1. Where does almost all energy in living systems come from?
2. What process stores chemical energy in organic compounds?
3. What is an autotroph?
4. What is a heterotroph?
5. What process releases energy for cells to use?
6. What is ATP and how does the cell use it?

Photosynthesis

Almost all living things depend on plants, or more specifically, on the products of an important process that takes place in plants—photosynthesis. This process can be summarized by the following equation:

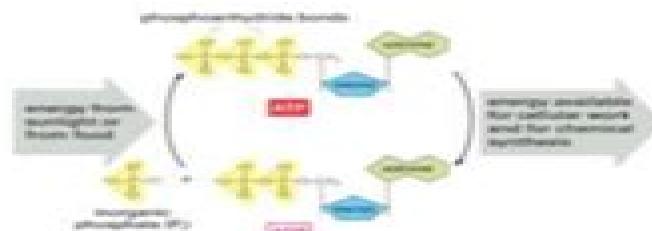
$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ The equation tells us that carbon dioxide and water in the presence of light react to form sugar and oxygen gas.

Stage 1: Light energy is absorbed

The important chemical reactions that take place during photosynthesis occur in the plant cell's chloroplasts. A pigment called chlorophyll, found in the thylakoid membrane of a chloroplast, absorbs only certain wavelengths of light (red and blue) and reflects green and yellow light, which is why most plants appear green. When light strikes the electrons in the chlorophyll, molecules gain energy and they jump to a higher energy level. These “excited electrons” jump from chlorophyll to other molecules in the thylakoid membrane. In the process oxygen is released.

Stage 2: Light energy is converted to chemical energy

After an excited electron jumps to a nearby molecule in the thylakoid membrane, it passes through a series of molecules called an **electron transport chain**. The energy passed through the electron transport chain is used to make ATP and NADPH which are used to power the last stage of photosynthesis, the building of energy-rich carbohydrate molecules.



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