



# Photosynthesis and Cellular Respiration



**Photosynthesis** and **cellular respiration** are two essential processes that occur in living organisms. These processes are closely related and depend on each other to sustain life.

Photosynthesis is the process by which green plants, algae, and some bacteria convert light energy into chemical energy stored in organic compounds. The process involves the absorption of light by pigments called **chlorophyll**, which is present in the chloroplasts of plant cells. The absorbed light energy is used to split water molecules into **oxygen** gas and hydrogen ions. The oxygen is released into the atmosphere as a byproduct, while the hydrogen ions combine with carbon dioxide to form **glucose**, a sugar molecule. This glucose can be used immediately by the plant for energy or stored for later use.

Cellular respiration, on the other hand, is the process by which organisms break down glucose to release energy in the form of **ATP** (adenosine triphosphate). This process occurs in the **mitochondria** of cells, and involves the use of oxygen to break down glucose and other organic molecules. The energy released during this process is used by the cell for various metabolic activities.

The relationship between photosynthesis and cellular respiration is one of mutual dependence. Photosynthesis provides the oxygen that is necessary for cellular respiration to occur, while cellular respiration provides the carbon dioxide that is necessary for photosynthesis to occur. This relationship is often referred to as the **carbon cycle**, as carbon is the element that is exchanged between the two processes.

In addition to their interdependence, photosynthesis and cellular respiration are also complementary processes. While photosynthesis produces oxygen and glucose, cellular respiration consumes them. The waste products of one process are the necessary inputs for the other process.

In summary, photosynthesis and cellular respiration are two essential processes that are closely related and dependent on each other. Photosynthesis produces the oxygen and glucose necessary for cellular respiration to occur, while cellular respiration produces the carbon dioxide and ATP necessary for photosynthesis to occur. This interdependence and complementary relationship between the two processes is crucial for the survival of living organisms.

# Photosynthesis And Cellular Respiration Active Reading Answers

**Roman Wölfel**



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