

Cellular Respiration and Fermentation

KEY CONCEPTS

- 7.1 Catabolic pathways yield energy by oxidizing organic fuels
- 7.2 Glycolysis harvests chemical energy by oxidizing glucose to pyruvate
- 7.3 After pyruvate is oxidized, the citric acid cycle completes the energy-yielding oxidation of organic molecules
- 7.4 During oxidative phosphorylation, chemiosmosis couples electron transport to ATP synthesis
- 7.5 Fermentation and anaerobic respiration enable cells to produce ATP without the use of oxygen
- 7.6 Glycolysis and the citric acid cycle connect to many other metabolic pathways

AP[®] BIG IDEAS: Heterotrophic organisms must capture free energy from their environment to maintain life (**Big Idea 2**). Common to all are core processes that move energy and matter through living systems and thereby support life (**Big Ideas 1 & 4**).

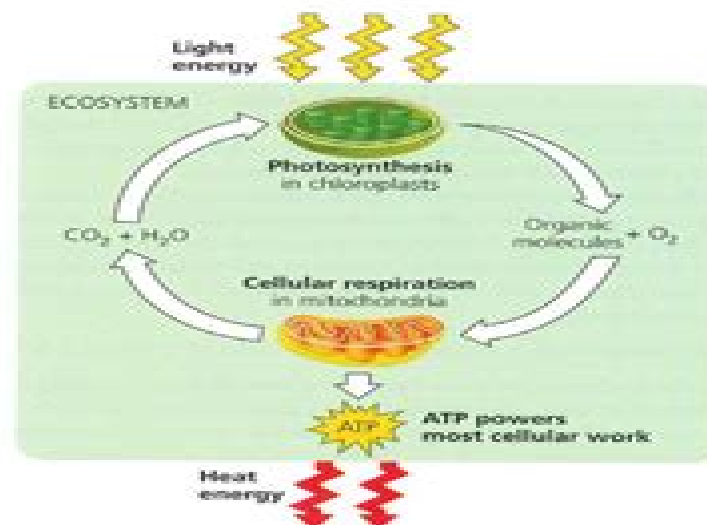


▲ Figure 7.1 How do these leaves power the work of life for this giraffe?

Life Is Work

Living cells require transfusions of energy from outside sources to perform their many tasks. The giraffe in **Figure 7.1** obtains energy for its cells by eating plants; some animals feed on other organisms that eat plants. The energy stored in the organic molecules of food ultimately comes from the sun. Energy flows into an ecosystem as sunlight and exits as heat; in contrast, the chemical elements essential to life are recycled (**Figure 7.2**). Photosynthesis generates oxygen and organic molecules that are used by the mitochondria of eukaryotes (including plants and algae) as fuel for cellular respiration. Respiration breaks down this fuel, generating ATP. The waste products of this type of respiration, carbon dioxide and water, are the raw materials for photosynthesis.

In this chapter, we'll consider how cells harvest the chemical energy stored in organic molecules and use it to generate ATP, the molecule that drives most cellular work. We'll focus on three key pathways of respiration: glycolysis, the citric acid cycle, and oxidative phosphorylation. We'll also consider fermentation, a somewhat simpler pathway coupled to glycolysis that has deep evolutionary roots.



▲ Figure 7.2 Energy flow and chemical recycling in ecosystems. Energy flows into an ecosystem as sunlight and ultimately leaves as heat, while the chemical elements essential to life are recycled.

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