

10

Photosynthesis

KEY CONCEPTS

- 10.1** Photosynthesis converts light energy to the chemical energy of food
- 10.2** The light reactions convert solar energy to the chemical energy of ATP and NADPH
- 10.3** The Calvin cycle uses the chemical energy of ATP and NADPH to reduce CO_2 to sugar
- 10.4** Alternative mechanisms of carbon fixation have evolved in hot, arid climates



a. Other organisms also benefit from photosynthesis.

a. **Figure 10.1** How does sunlight help build the trunk, branches, and leaves of this broadleaf tree?

The Process That Feeds the Biosphere

Life on Earth is solar powered. The chloroplasts in plants and other photosynthetic organisms capture light energy that has traveled 150 million kilometers from the sun and convert it to chemical energy that is stored in sugar and other organic molecules. This conversion process is called **photosynthesis**. Let's begin by placing photosynthesis in its ecological context.

Photosynthesis nourishes almost the entire living world directly or indirectly. An organism acquires the organic compounds it uses for energy and carbon skeletons by one of two major modes: autotrophic nutrition or heterotrophic nutrition. **Autotrophs** are "self-feeders" (*auto-* means "self," and *trophos* means "feeder"); they sustain themselves without eating anything derived from other living beings. Autotrophs produce their organic molecules from CO_2 and other inorganic raw materials obtained from the environment. They are the ultimate sources of organic compounds for all nonautotrophic organisms, and for this reason, biologists refer to autotrophs as the *producers* of the biosphere.

Almost all plants are autotrophic; the only nutrients they require are water and minerals from the soil and carbon dioxide from the air. Specifically, plants are *photoautotrophs*, organisms that use light as a source of energy to synthesize organic substances (**Figure 10.1**). Photosynthesis also occurs in algae, certain other

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climate with the notion of human comfort in bioclimatic architecture *Peterson's Annual Guides to Graduate Study* ,1983

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Bednarsek,2022-05-27 The image is modified based on Figure 1a of Lucey et al this Research Topic and Figure 7b of Niemi et al this Research Topic A Graphical depiction of atmospheric warming and increasing atmospheric carbon dioxide CO₂atm which drives ocean warming contribute to the decreases in dissolved oxygen DO and lowers pH and saturation state index of calcium carbonate The partial pressure of CO₂ pCO₂ increases due to increasing atmospheric CO₂ that is absorbed into the seawater i e ocean acidification along with other biological processes in the marine environment B Scanning Electron Microscope SEM image showing dissolution on pteropod shells collected in the Amundsen Gulf in the Canadian Arctic in 2017 Lucey N Haskett E and Collin R 2020 Multi stressor Extremes Found on a Tropical Coral Reef Impair Performance Front Mar Sci 7 588764 doi 10 3389 fmars 2020 588764 Niemi A Bednar ek N Michel C Feely RA Williams W Azetsu Scott K Walkusz W and Reist JD 2021 Biological Impact of Ocean Acidification in the Canadian Arctic Widespread Severe Pteropod Shell Dissolution in Amundsen Gulf Front Mar Sci 8 600184 doi 10 3389 fmars 2021 600184 *Bibliography of Agriculture* ,1969-08 *Dekker Encyclopedia of Nanoscience and Nanotechnology* James A. Schwarz,Cristian I. Contescu,Karol Putyera,2004 Advances in Fig Research and Sustainable Production Moshe A. Flaishman,Uygun Aksoy,2022-05-25 The common fig *Ficus carica* L is one of the oldest fruits domesticated by humans and is native to southwest Asia and the Mediterranean Figs have been associated with health and prosperity since ancient times They are rich in fibre potassium calcium and iron as well as being an important source of vitamins amino acids and antioxidants In recent years increased consumption has caused fig production to shift to new countries such as Mexico Brazil India and China However fig is a challenging fruit crop to grow It is susceptible to insect pests and diseases as well as injuries from abiotic stress during fruit development and ripening As a delicate fruit it also requires complicated postharvest procedures and climate change presents additional challenges This volume serves as a comprehensive reference for current and future practices of fig production consumption research and innovation and is essential for academic researchers and those involved in research and development in the fig industry *Comprehensive Biophysics* ,2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other s research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for

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Ecological Research Series ,1978

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