

Photosynthesis

21



Leaves are the main organs of photosynthesis for plants.

Links to prior knowledge

This chapter explores the chemistry of photosynthesis—the process by which plants make their own food using the light energy from the Sun (Section 10.1). We revisit the structure of leaves (Section 10.2) and chloroplasts (Section 3.2), and see how they are adapted for photosynthesis. We will also perform practical work and investigations on photosynthesis.

Chapter preview

- 21.1 An overview of photosynthesis
- 21.2 The requirements for photosynthesis
- 21.3 The site of photosynthesis
- 21.4 The process of photosynthesis
- 21.5 Conversion and use of photosynthetic products
- 21.6 Factors affecting the rate of photosynthesis

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Eugene Rabinowitch, Govindjee



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Photosynthesis Eugene Rabinowitch, Govindjee, 1969 Photosynthesis the power plant and the chemical factory of life
Overall chemistry of Photosynthesis Autotrophic and the heterotrophic ways of life Overall energetics of photosynthesis Solar energy and its utilization Energetics of photosynthesis a closer look Taking photosynthesis apart I the light and the dark stage II photochemical activities of chloroplasts and chlorophyll solutions Structure and composition of the photosynthetic apparatus The photosynthetic pigments Absorption of light and fate of excitation energy in plant cells Action spectrum and quantum yield of photosynthesis Energy transfer and energy migration in photosynthesis The two photochemical systems The red drop and the emerson effect Difference spectroscopy the role of the cytochromes P700 P690 plastoquinone and plastocyanin Fluorescence and the two pigment systems Separation of the two pigment systems The enzymatic paths from water to molecular oxygen and from carbon dioxide to carbohydrates **Teaching and Learning about Photosynthesis**
Miles Barker, 1985 **Students' Understanding of Photosynthesis, Learning Approaches and Attitudes Towards Science Across Grade Levels** Kok Keng Goh, 1997 Photosynthesis R. P. F. Gregory, 1989-01-01

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