

The Process That Feeds the Biosphere

10.1 Photosynthesis converts light energy to the chemical energy of food

Intro

1. Distinguish autotrophic and heterotrophic nutrition.
 - Autotrophs do not derive energy from other organisms
 - Energy from the Sun or inorganic chemicals
 - Gather matter in the form of simple organic molecules
 - Includes plants, protists, and bacteria
- Heterotrophs derive energy from other organisms
 - May be carnivores, herbivores, parasites, commensals, etc.
 - Gather matter as a by-product of energy
 - Includes members of all major taxa

Chloroplasts: The Sites of Photosynthesis in Plants

2. Describe the structure of chloroplasts and indicate their locations within plant cells.

Structure

Double membrane encloses dense fluid stroma
In the stroma are interconnected stacks of flattened

membranes

Flattened membranes = thylakoids; stacks = grana
Chlorophyll is bound to the thylakoid membranes

Location: around the periphery of the cell

3. Explain how chloroplast structure relates to its function.
 - Dense stacks of thylakoids efficiently absorb light
 - Light energy is converted into chemical energy at the thylakoid
 - Chemical energy used to build carbohydrate in the stroma
4. Write a summary equation for photosynthesis.



Tracking Atoms Through Photosynthesis: Scientific Inquiry

Intro

The Splitting of Water

5. Explain van Niel's hypothesis and describe how it contributed to our current understanding of photosynthesis.

van Niel's hypothesis

Prevailing (wrong) idea: O_2 released is from CO_2

van Niel's observation

Green sulfur bacteria perform photosynthesis

using H_2S



iii. Hypothesis: O_2 from water, not from CO_2

Experiments



Explanation

In one phase of photosynthesis water is split and O_2 is liberated
Glucose is built up from reduced CO_2

Photosynthesis as a Redox Process

6. Explain the role of redox reactions in photosynthesis.

Respiration

High-energy electrons are removed from sugar

Ap Biology Chapter 10 Notes

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Bhattacharya, 2025-06-11 This second edition volume brings together some of the best experts in the field of modern metabolomics to discuss the latest various techniques used to study specific metabolite classes and metabolomics in bacterial and mammalian systems The chapters in this book cover topics such as handling big data for metabolite identification and quantification as well as building pathways for comparison with other omes Isotopic Ratio Outlier Analysis IROA for quantitative analysis cholesterol and derivatives in ocular tissues using LC MS MS methods microbial metabolites analysis by mass spectrometry the metabolomic study of tissues in different diseases and NMR analysis in livestock metabolomics It also includes several chapters on the emerging area of spatial metabolomics Written in the highly successful *Methods in Molecular Biology* series format the chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding pitfalls Cutting edge and authoritative Metabolomics Methods and Protocols Second Edition is a valuable resource for any researcher looking to expand their knowledge about this important and advancing field

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