

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

current

5. Explain van Niel's hypothesis and describe how it contributed to our 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

Terry C. Jones



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