

AP Biology: Chapter 10

PHOTOSYNTHESIS

1. What role do autotrophs fill in the biosphere?

They produce organic molecules from CO₂ and other molecules from the surrounding environment, and are the ultimate source of organic compounds for heterotrophs

2. Indicate the role of each structure within the leaf:

- a. stomates

Stomates can close to conserve water, but can cause problems with O₂ build up and CO₂ depletion.

- b. mesophyll cells

Mesophyll cells are loosely arranged cells between bundle sheath cells and the surface of the leaf. Their purpose is to act as a gateway and storage for CO₂, storing it and pumping it into the Calvin Cycle

- c. thylakoid membranes

this is the stack of membranes where photosynthesis reactions take place

- d. stroma

a central area in the cell filled with fluid, containing the thylakoid membranes.

3. What is the source of oxygen released from photosynthesis?

It comes from the CO₂ taken in by the plant, and is separated from the carbon it's bonded to for the reaction.

4. In the overview of photosynthesis, indicate the most significant function of:

- a. Light reaction

Ap Biology Chapter 10 Photosynthesis Study Guide Answers

Zhe Xu



Ap Biology Chapter 10 Photosynthesis Study Guide Answers:

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