

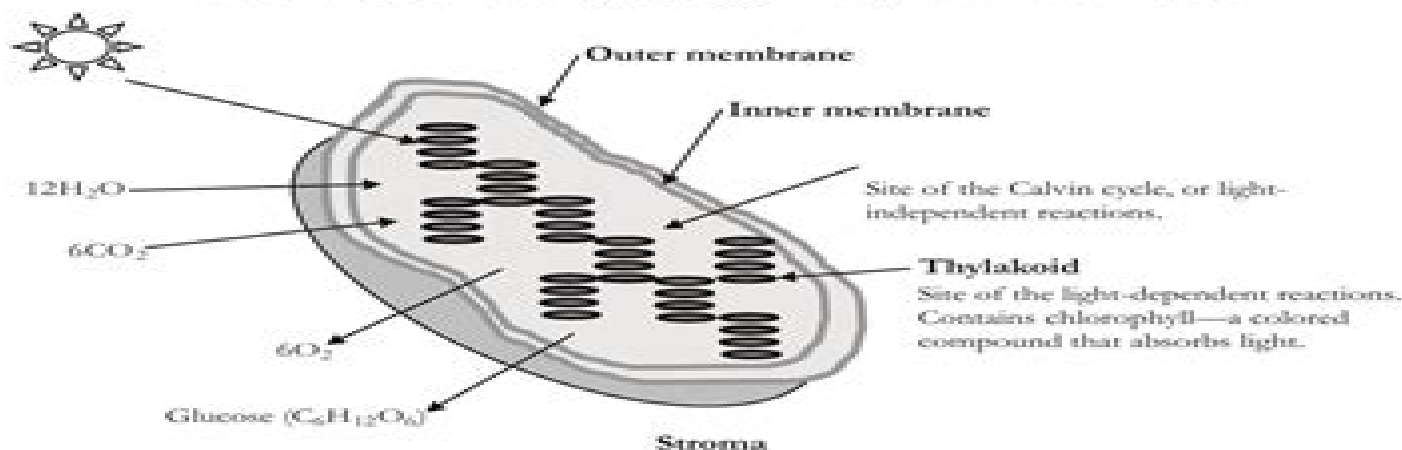
Photosynthesis

How do light-dependent and light-independent reactions provide food for a plant?

Why?

Plants are the original solar panels. Through photosynthesis a plant is able to convert electromagnetic (light) energy into chemical energy. This energy is used not only to keep the plant alive, but also to sustain all creatures that rely on the plant for food and shelter. Plants and photosynthetic algae are also the source of all oxygen on Earth, allowing the inhabitants of Earth to benefit from our most plentiful renewable energy resource.

Model 1 – Chloroplast



1. Consider the organelle illustrated in Model 1.
 - a. What is the name of this organelle?
A chloroplast
 - b. Is this organelle more likely to be found in animal cells or plant cells?
Plant cell
2. The structures inside the organelle in Model 1 are called thylakoids. What compound necessary for photosynthesis is contained in the thylakoids?
Chlorophyll

Answers From Photosynthesis Pogil Ap Biology

John William Marklewitz



Answers From Photosynthesis Pogil Ap Biology:

Photosynthesis and Respiration John William Marklewitz, 1995

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

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