

## Name the principal energy storage molecules of plants and animals

Summary. This chapter contains sections titled: What is photosynthesis? Photosynthesis is a solar energy storage process. Where photosynthesis takes place. The four phases of energy storage in photosynthesis. Citing Literature. Molecular Mechanisms of ...

Complex organic food molecules such as sugars, fats, and proteins are rich sources of energy for cells because much of the energy used to form these molecules is literally stored within the...

During photosynthesis, plants use the energy of sunlight to convert carbon dioxide gas (CO 2) into sugar molecules, like glucose (C 6 H 12 O 6). Because this process involves synthesizing a larger, energy-storing molecule, it requires an energy input to proceed.

Because this process involves synthesizing an energy-storing molecule, it requires energy input to proceed. During the light reactions of photosynthesis, energy is provided by a molecule called adenosine triphosphate (ATP), which is the primary energy currency

Living organisms use two major types of energy storage. Energy-rich molecules such as glycogen and triglycerides store energy in the form of covalent chemical bonds. Cells synthesize such molecules and store them for later release of the energy.

The principal energy storage molecules of plants and animals are fat. Starch serves as energy storage in plants. Glycogen is an even more highly branched polyacrylamide that serves a function of energy storage in animals

Photosynthesis is the most fundamentally important energy-converting process on Earth. It converts solar energy to chemical energy and provides all the food we eat, the fossil fuels we consume and the oxygen we breathe. The basic concepts underlying photosynthesis have been well established and a brief introduction is given in this chapter.

This high-energy molecule stores the energy we need to do just about everything we do. The energy cycle for life is fueled by the Sun. The main end product for plants and animals is the production of highly energetic molecules like ATP. These molecules store

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