

Chloroplasts J.K. Hooper 9781461327677 2012 Springer Science & Business Media, 2012

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Chloroplasts Structure and Functions. Quick Navigation. [hide]. Structure of Chloroplasts. Parts of Chloroplasts. Functions of Chloroplast. Chloroplasts are the site of photosynthesis in eukaryotic cells. They are only present in photosynthetic cells like plant cells and algae. There are no chloroplasts in animal or bacterial cells. Structure of Chloroplasts. Chloroplasts found in higher plants are generally biconvex or planoconvex shaped. Chloroplasts can be found in the cells of the mesophyll in plant leaves. It should be viewed as a beginning of the study of chloroplasts and not as an end. In keeping with an introductory approach, abbreviations generally have not been used, so that substance is not replaced by symbol. The principal aim has been to provide a teaching tool to introduce students to the major characteristics of the chloroplast, with as much emphasis on mechanisms as possible at this level. Try the new Google Books. Check out the new look and enjoy easier access to your favorite features. Try it now. Chloroplasts play a key role in the energy economy of the cells that harbor them. Chloroplasts are less well known than their mitochondrial counterparts, though they are usually much larger and have a key role in producing the reduced compounds that store energy which is then broken down in mitochondria. Chloroplasts have the pivotal role in the biosphere of carrying out the chemical transformations linking the inorganic world (CO₂) to the organic world (carbohydrates).