


**Function of chloroplast plant cell**

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## Function of chloroplast plant cell

What is the function of chloroplast found in the cells of plant leaves. What is the function of the chloroplast in plant cell why is it absent in animal cells. What is the function of chloroplast and vacuoles in plant cells. Function of chloroplast in plant and animal cell. What is the main function of the chloroplast within a plant cell. Describe the function of the chloroplast in a plant cell. Structure and function of chloroplast in plant cell. What is the main function of the chloroplast in a plant cell.

PDF Split View Article Content and Tables Video Audio Audio Additional data The translation of chloroplast is essential for cell vitality and plant development. Its positioning at the intersection of organic RNA and protein metabolism makes it a unique point for the regulation of gene expression in response to internal and external signals. The recently obtained high-resolution structures of plastid ribosomes, the development of approaches that allow analysis of the genome translation of chloroplast (i.e., ribosome profiling), and the discovery of binding RNA proteins involved in translational activity control have greatly increased our understanding of the process of translation of chloroplast and its regulation. In this review, we provide an overview of the current knowledge of chloroplast translation machinery, its structure, organization and its function. In addition, we summarize the techniques currently available to study the translation of chloroplast and describe how translation activity is controlled and what CIS elements and trans factors are involved. Finally, we discuss how translation control contributes to the regulation of the gene expression of chloroplast in response to development, environmental and physiological signals. We also highlight the existing municipalities and differences between the machines of the translation of chloroplasts and bacterial translation and the mechanisms of protein biosynthesis in these two prokaryotic systems. Chloroplasts are the characteristic organelle of plant cells. There are numerous essential metabolic pathways including photosynthesis, which makes chloroplasts the primary source of chemical energy on earth. All chloroplasts are probably derived from a single ancient photosynthetic cyanobacterium that was swallowed by a mitochondriate eukaryotic cell more than a billion years ago. During the subsequent host-endosymbiont co-evolution, the endosymbiont genome has significantly reduced (Timmis et al., 2004). While some genes were lost, many others were transferred to the host genome (Martin et al., 2002; Bock and Timmis, 2008). Today's chloroplasts are protected from 143000 proteins, most of which are encoded in the nucleus and posttranslationally imported into the organ. The prestid chloroplasts of the day still host a genome, which includes 1120 genes in green plants. Most Plastid genes are essential for the profitability of plants because they codify crucial components of photosynthesis machinery (the great Rubisk subunit and about half the subunits of thylakoidal protein complexes involved in light reactions: Photosystem I and II [PSI and PSII], Complex of the cytochrome B Å 6 F complex [Cyt B Å 6 f] and ATP Syntase) and the gene expression system of Plastid (including a setof subunit of the nucleus of the RNA polymerase of bacterial RNA, RRNA and TRNA and about third of the proteins à €

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