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Plastids are plant-specific organelles characterized by photosynthesis and many important metabolic functions. Over 30 years since the complete sequencing of the plastid genome, significant advances have been

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achieved in the field of plastid gene expression as well as nucleus-plastid signaling.

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Plastids are double-membrane organelle which are found in the cells of plants and algae. Plastids are responsible for manufacturing and storing of food. These often contain pigments that are used in photosynthesis and different types of pigments that can change the colour of the cell.

## **Plastids - Biology**

Recent information on the plastid genes and genomes of rhodophyte (red algae)

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Rhodophyte (yellow and brown  
algae) plastids are summarized. The  
plastid genomes of these algae contain  
many more genes than those of  
metaphyte (land plant) plastids, and the  
encoded proteins are involved in a much  
wider range of metabolic activities.

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The Genetic Systems of Mitochondria  
and Plastids It is widely accepted that  
mitochondria and plastids evolved from  
bacteria that were engulfed by  
nucleated ancestral cells. As a relic of  
this evolutionary past, both types of  
organelles contain their own genomes,  
as well as their own biosynthetic  
machinery for making RNA and organelle  
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This publication, the first of the two-part  
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the transmission of plastid genes, the replication and transmission of plant DNA, Read more...

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Plastids are not created de novo, but arise by division from pre-existing plastids in the cytoplasm through binary fission. Because of this, plastid division is of paramount importance, not only for the maintenance of plastid populations in dividing plant cells but also in the accumulation of large numbers of chloroplasts in photosynthetic cells, presumably to maximize photosynthesis.

## **molecular biology of plastid division in higher plants ...**

The plastid is a semiautonomous organelle essential in photosynthesis and other metabolic activities of plants and algae. Plastid DNA is organized into the nucleoid with various proteins and RNA, and the nucleoid is subject to dynamic changes during the development of plant cells.

## **Plastid - an overview | ScienceDirect Topics**

...cells of most plants contain plastids,

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small bodies involved in the synthesis and storage of foodstuffs. The most important plastids, the chloroplasts, function in trapping the energy of sunlight during photosynthesis. They are disk-shaped structures with a platelike arrangement of tightly stacked membranes.

## **Plastid | biology | Britannica**

Figure 14-8 (part 2 of 2) Molecular Biology of the Cell (© Garland Science 2008) Mitos, gr. Faden; Chondros, gr. Korn. Figure 14-32 Molecular Biology of the Cell (© Garland Science 2008) ... and Plastids • These two organelles are never made de novo, but are inherited by growth and division • Even in non-dividing cells, these organelles ...

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Genes for mitochondrial and chloroplast proteins are encoded largely by nuclear DNA.

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