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ADVERTISEMENTS: In this article we will discuss about the genomes in chloroplast DNA and mitochondria DNA. The phenomenon of extra-nuclear inheritance based on transmission of visible phenotypes through mitochondria and chloroplasts. Studies in the 70s revealed presence of DNA in these organelles. Both mitochondria and chloroplasts are present only in cells of lower and higher [...]

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This is a feature unique to mitochondria and chloroplasts. RNA editing means post-transcriptional modification of the primary sequence of RNA through nucleotide deletion, insertion, or base modification. Origin of mitochondria and chloroplast –endosymbiont hypothesis Mitochondria and chloroplast were free-living prokaryotes.

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Mitochondria and Chloroplasts Mitochondria. Mitochondria (singular = mitochondrion) are often called the “powerhouses” or “energy factories” of a cell because they are responsible for making adenosine triphosphate (ATP), the cell’s main energy-carrying molecule. The formation of ATP from the breakdown of glucose is known as cellular respiration.

## **Mitochondria and Chloroplasts - Principles of Biology**

Chloroplasts are very similar to mitochondria, but are found only in the cells of plants and some algae. Like mitochondria, chloroplasts produce food for their cells. Chloroplasts help turn sunlight into food that can be used by the cell, a process known as photosynthesis.

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mitochondria are a hallmark of all eukaryotes, chloroplasts deP ne plants and related photo-synthetic organisms. This volume

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consists of 19 chapters of up-to-date information on the genomics of these fascinating organelles. Both organelles exchange genetic information with the host nucleus and at the same time

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Both chloroplasts and mitochondria possess their own genomes. The chloroplast (cp) genome and mitochondrial (mt) genomes are often used for the study of plant evolution [1] , [2] . From the

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information of all sequenced cp genomes, most of them range from 120 to 160 kb in length and have GC contents of 30 to 40%.

## **The Complete Chloroplast and Mitochondrial Genome ...**

26 Mitochondria and Chloroplasts Mitochondria. Mitochondria (singular = mitochondrion) are often called the “powerhouses” or “energy factories” of a cell because they are responsible for making adenosine triphosphate (ATP), the cell’s main energy-carrying molecule. The formation of ATP from the breakdown of glucose is known as cellular respiration.

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