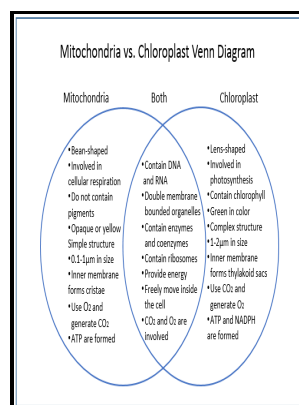


# Chloroplasts and mitochondria

## E.Arnold - Know The Difference Between Mitochondria And Chloroplasts



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Notes: Bibliography: p.[60]  
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Tags: #Presence #of #DNA #in #Mitochondria #and #Chloroplasts

## Know The Difference Between Mitochondria And Chloroplasts

In plants, evolution in nuclear genes tends to occur faster than for chloroplast genes whose evolution is faster than plant mitochondrial genes Laroche, 1997.

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Mitochondria have their own DNA and ribosomes. The inner membrane in chloroplast forms flattened sacs called thylakoids.

## Know The Difference Between Mitochondria And Chloroplasts

ADVERTISEMENTS: These cytoplasmic vesicles also enclosed some genetic material DNA and gradually evolved into the present day organelles.

## Know The Difference Between Mitochondria And Chloroplasts

The several kinds of plastids in eukaryotes seem to have arisen from separate endosymbiotic events, given the varying pigments and membrane compositions of the plastids in plants and algae. Gives Energy Mitochondria and Chloroplast have a similar role in providing energy to their cells. Chloroplasts help turn sunlight into food that can be used by the cell, a process known as photosynthesis.

## Mitochondria vs. Chloroplast: What is The Difference?

Inside the membranes are its different parts. The genome size of mitochondria varies from 60 to 200 genes in different organisms Berry , 2003. The lineage which evolved into animals, fungi, and choanoflagellates evolved flat mitochondrial cristae, positioned the ancestral cilium in the posterior, developed chitin and lanosterol.

## Presence of DNA in Mitochondria and Chloroplasts

Mitochondria are double membrane-bound organelles.

## **7.8: The Endosymbiotic Theory**

**Chloroplasts Run on Gradients, Like Batteries** The double membrane of a chloroplast creates two dividers with four distinct spaces — the space outside the cell; the cytoplasm inside the cell; the stroma inside the chloroplast but outside of the thylakoid aka the space between the inner and outer membranes, the wrapping paper and the box ; and the thylakoid space — basically inside of the original bacterium. They equally function for the growth of a cell. There are mitochondrial and chloroplast ribosomes.

### **Chloroplasts Are the Plant Cells That Manufacture Energy**

Moreover, DNA carries different genes important for the proper functioning of the organelles. Why are these two confused with each other? Scientists believe that host cells and bacteria formed a mutually beneficial endosymbiotic relationship when the host cells ingested aerobic bacteria and cyanobacteria but did not destroy them.

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