

Chemical activity occurs on the inner membrane to produce ATP.

Mitochondria contain their own DNA and ribosomes to produce their own proteins.

Function -

Mitochondria release energy in the form of ATP (adenosine triphosphate) molecules.

- ATP is used as a form of energy for all of the cell's processes.
- The inner membrane is folded many times to increase the production of ATP.

Plastid

Location -

Multiple plastids are found in the cytoplasm.

They are only found in plant cells.

Structure -

A plastid has a double membrane. The membrane layers are arranged in stroma.

A plastid has its own DNA and ribosomes.

Function

There are three important plastids that help in plant growth and development- chloroplasts, chromoplasts and leucoplasts

There are three types of plastids in plant cells.

Chloroplasts ('chloro-green, 'plasts' - plastid) are found in the cells of the leaves and other green parts of a plant. They contain a green pigment called chlorophyll, which captures the energy from the sun that is needed for photosynthesis.

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