

## Chapter 5

### THE FUNDAMENTAL UNIT OF LIFE

---

#### MITOCHONDRIA:

- ★ Mitochondria is double membrane bound cell organelle found in plant cells. It's outer membrane is continuous and contain some pore on it. Inner membrane highly coiled and Bears  $F_0 - F_1$  particles.
- ★ The inner compartment is filled with a dense homogenous substance called the "Matrix". Matrix contains several enzymes, circular DNA, few R.N.A, 70's ribosomes, it is also semi-autonomous cell organelle like chloroplast.

### Functions:

It is the powerhouse of the cell. Large number of cellular energy in the form A.T.P will be synthesised in "Mitochondria".

- ★ Krebs cycle, electron transport chain occurs in mitochondria.

