

Chapter 5

THE FUNDAMENTAL UNIT OF LIFE

PLASTIDS:

These are present only in the plant cells, with Double wall membrane, depending upon the colour plastids are three types:

1. Leucoplasts
2. Chromoplasts
3. Chloroplasts

1. **Leucoplasts:**

These are colorless and store food, these are further classified,

- a. Amyloplasts — Store the starch

Ex: Potato

- b. Aleuroplasts - store - protein

- c. Eleioplasts - Store - FAT

2. **Chromoplasts:**

They contained coloured pigments. They are present in flowers & fruits.

3. **Chloroplasts:**

It is site for photosynthesis. It is a double membrane bound cell organelle it contains pile of coin like structure called “Granna”.

Granna is made up off ‘Thylakoides’. Thylakoides contain photo synthetic pigments[Chlorophyll A, Chlorophyll B, Xanthophyll and **Carotenoids**] on its membrane these pigments are essential for the capturing of sun light.

The ground substance of chloroplast is “Stroma”. Stroma contain enzymes, circular DNA and 70's Ribosome.

Chloroplasts is semi – autonomous cell organelle, it can make it's own copies.

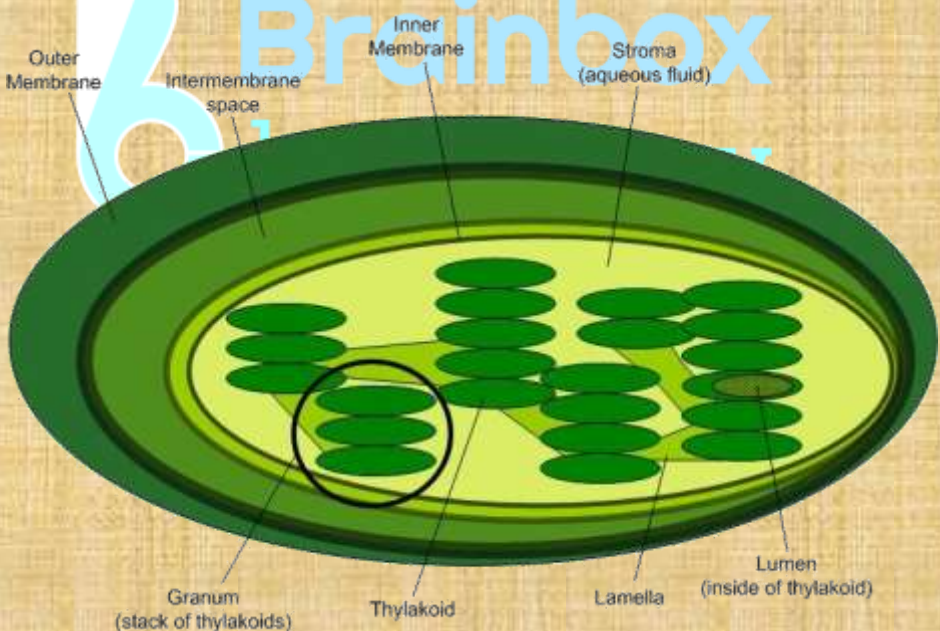


Fig. Plastid