

Living component (cell organelles)

Lab:7

Chromoplasts

All plastids containing different colored pigment are grouped under chromoplasts, of which green colored ones are called chloroplasts, depending upon the dominant pigments present in plastids, they are further classified in to; **Rhodoplasts** rich in red pigment i.e. phycoerythrin. **Phaeoplasts and Xanthoplasts** contain yellow pigments i.e. xanthophylls, carotenoids. Along present in other colored plastids.

Other plastids: such colored plastids, other than chloroplasts are predominantly found in certain class of plants and plant organs including floral parts i.e. fruits and petals.



Leucoplasts

Colorless plastids that are found in storage parenchyma and other colorless tissues are referred to as leucoplasts. Most of them act as **storage organelles**. Based on the kind of substance they store they are further classified in to :

- 1-amyloplasts: starch production.
- 2-elaioplasts :oil production.
- 3-proteoplast: protein production.



