

Biology

Photosynthesis

Autotrophs: organisms that convert inorganic carbon into organic carbon using light or chemical energy.

Photoautotrophs: ingest inorganic carbon molecules.

Chemosynthetic autotrophs: transfer light energy into the chemical potential energy of organic molecules.

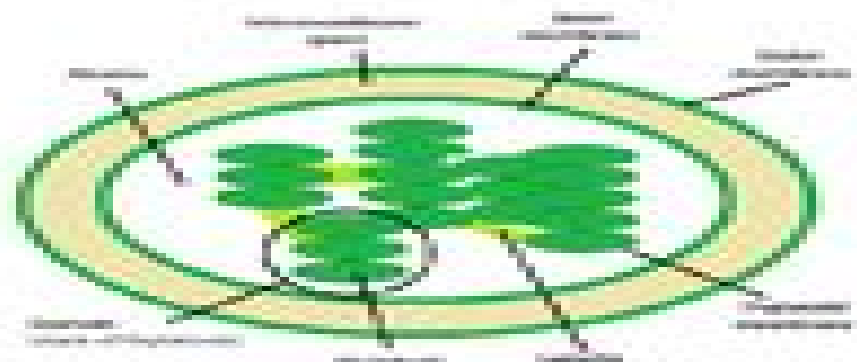


Respiration and stored as carbohydrates

Released into the atmosphere

Chloroplasts

- Large surface area for pigments, enzymes and H_2O diffusion.
- Chloroplasts absorb light.
- They provide membranes with transport proteins to control entry and exit and fluid electron carriers.
- Photosynthetic pigments are arranged in photosystems to absorb maximum light absorption.
- Protein embedded in the grana hold the photosystems in place.
- Stroma contains enzymes needed for the light dependent stage.
- Grana are surrounded by stroma as peroxisomes have the light dependent stage reactions mostly take place there.
- They have their own DNA and ribosomes for making proteins.



Photosynthetic pigments: they absorb light energy. Each absorbs their own range of wavelengths as they have their own peak of absorption.

Chlorophyll: long-phased chain and porphyrin (contains Mg)

- P_{680} and P_{680} → yellow-green and absorbs **red** light.
- found in the primary electron carrier.
- P_{680} photosystem II with max wavelength at 680nm.
- P_{680} photosystem I with max wavelength at 700nm.
- also absorbs **blue** light at 430nm.
- absorbs scattering the ground 680nm and 700nm. It appears blue-green.

Accessory pigments

- Carotenoids reflect **blue-yellow** light and absorb **blue** light.
- They absorb wavelengths that aren't absorbed by chlorophyll.
- **Carotenoids** and **xanthophylls** are the main carotenoid pigments.

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