

Life process

MECHANISM OF PHOTOSYNTHESIS

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- (i) **Light reaction:** It is also called as photochemical process. It was discovered by 'Robert Hill' therefore it is also called as Hill's reaction

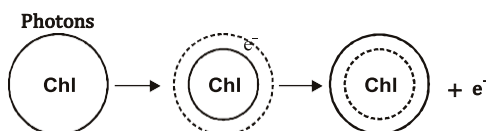
Site : Grana of chloroplast.

Raw materials : Light and water.

Regulation : This process is regulated by chlorophyll molecules.

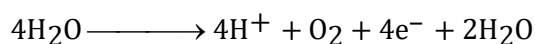
It consist of 3 steps:

- (A) **Photo excitation of chlorophyll molecule:** During this process chlorophyll molecule receives sunlight in the form of small energy bundles called as photons and become excited to higher energy level.

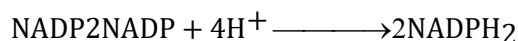


1.

2. **Photolysis of water:** It is also called as photooxidation of water, this takes place in presence of Mn^{+2} & Cl^{-} ions.



O_2 is liberated as by product and H^{+} ions are used for reduction of



3. **Photophosphorylation:** During this process ATP are produced. It takes place in quantasomes.

