

STUDY GUIDE

02 LIGHT-DEPENDENT REACTIONS

The light-dependent reactions capture photon energy to generate ATP and NADPH. This occurs in the thylakoid membrane.

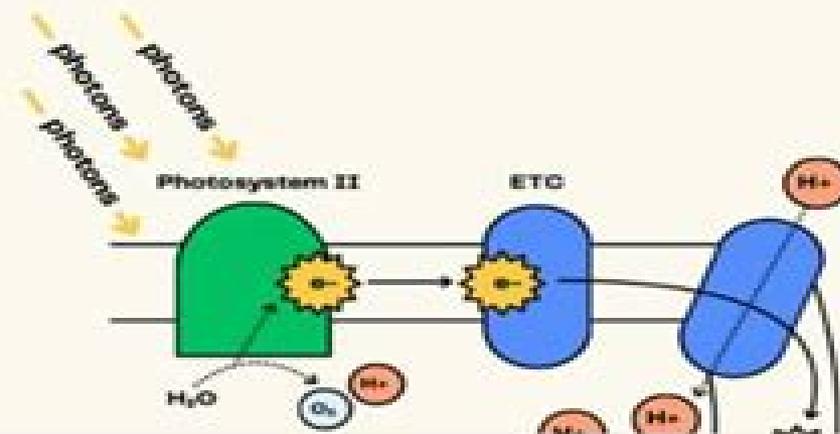
Photosystem II (PSII) and Photolysis

- Chlorophyll absorbs photons, exciting electrons in the reaction center.
- Excited electrons leave PSII and enter the electron transport chain (ETC).
- Photolysis of water replaces lost electrons:

$$2\text{H}_2\text{O} \rightarrow 4\text{H}^+ + 4\text{e}^- + \text{O}_2$$
- O_2 diffuses out and H^+ contributes to proton gradient.

Electron Transport Chain (ETC)

- Electrons move through carriers including plastoquinone (PQ).



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Light Reactions Modern Biology Study Guide

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