

photosystem

A membrane-bound complex in plants and photosynthetic bacteria, responsible for light-harvesting and primary electron transfer.

Comprises light-harvesting pigments such as chlorophyll; a primary electron-transfer centre, and secondary electron carriers. In green plant photosynthesis, Photosystem I transfers electrons from plastocyanin to a [2Fe-2S] *ferredoxin*, and contains *iron-sulfur proteins*. Photosystem II transfers electrons from the oxygen-evolving complex to plastoquinone, and contains an iron centre.

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