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Evolution of the photosynthetic life

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The plants (land plants and algae) play important roles in the evolution of earth environment through the oxygenic photosynthesis. The oxygenic photosynthesis was acquired only once by cyanobacteria, and transferred to eukaryotes via primary endosymbiosis. In addition, various plants such as diatoms originated via secondary and tertiary endosymbioses. The "plantize" by symbiosis are not only past events, but also progressive events. In addition, some plants lost photosynthetic ability. These complicated evolutionary events of plants generate and maintain the present environment of earth.

Keywords: endosymbiosis, algae