

found that bacteria accumulated in blue and red light of the split spectrum. He thus discovered the effect of different wavelength of light on photosynthesis (action spectrum).

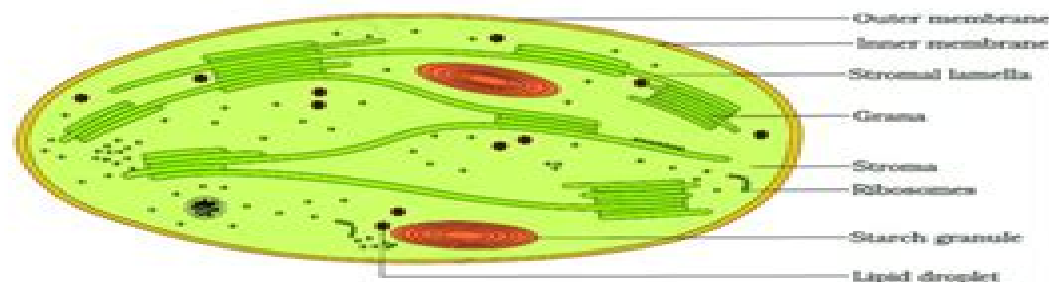
- **Cornelius Van Neil** (1897-1985) on the basis of studies with purple and green sulphur bacteria showed that photosynthesis is a light dependent reaction in which hydrogen from an oxidisable compound reduces  $CO_2$  to form sugar.



In green sulphur bacteria, when  $H_2S$ , instead of  $H_2O$  was used as hydrogen donor, no  $O_2$  was evolved. He inferred that  $O_2$  evolved by green plants comes from  $H_2O$  but not from  $CO_2$  as thought earlier.

### Where Does Photosynthesis Takes Place?

- Chloroplasts are **green plastids** which function as the site of photosynthesis in eukaryotic photoautotrophs. Inside the leaves, chloroplast is generally present in mesophyll cells along their walls.
- Within the chloroplast there is a membranous system consisting of grana, the stroma lamellae and the fluid stroma.



- The membrane system is responsible for synthesizing light energy for the synthesis of ATP and NADPH. In stroma enzymatic reactions incorporate  $CO_2$  in plants leading to synthesis of sugar.
- The reaction in which light energy is absorbed by grana to synthesis ATP and NADPH is called **light reaction**. The later part of photosynthesis in which  $CO_2$  is reduced to sugar, light is not necessary and is called **dark reaction**.

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The Hidden Curriculum - Faculty Made Tests in Science Sheila Tobias,1997      *Resources in Education* ,1997

*High-School Biology Today and Tomorrow* National Research Council,Division on Earth and Life Studies,Commission on Life Sciences,Committee on High-School Biology Education,1989-02-01 Biology is where many of science s most exciting and relevant advances are taking place Yet many students leave school without having learned basic biology principles and few are excited enough to continue in the sciences Why is biology education failing How can reform be accomplished This book presents information and expert views from curriculum developers teachers and others offering suggestions about major issues in biology education what should we teach in biology and how should it be taught How can we measure results How should teachers be educated and certified What obstacles are blocking reform      **Pathways to the Science Standards**

Juliana Texley,National Science Teachers Association,1996 Demonstrates how you can carry the vision of the Standards for teaching professional development assessment content program and system into the real world of your classroom and school

**The Home School Manual** Theodore E. Wade,1991      *The Complete Book of Colleges, 2013 Edition* Princeton Review,2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life      *Saturday Review* ,1963      *The Publishers' Trade List Annual* ,1985      **Science News-letter** ,1963      *Curriculum Review* ,1984

Resources in Education ,1997      **Metropolitan Detroit Science Review** ,1961      **Current Index to Journals in Education** ,2002      Best Books for Children Catherine Barr,2006 Contains more than 25 000 titles of books recommended for children in grades K 6      *Superintendent's Bulletin* Santa Clara County (Calif.). Office of Superintendent of Schools,1968

**Monthly Index of Russian Accessions** ,1961      **Monthly Index of Russian Accessions** Library of Congress. Processing Department,1961      Forthcoming Books Rose Arny,1998      Books in Series ,1979      *The British Library General Catalogue of Printed Books 1976 to 1982* British Library,1983

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