

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).

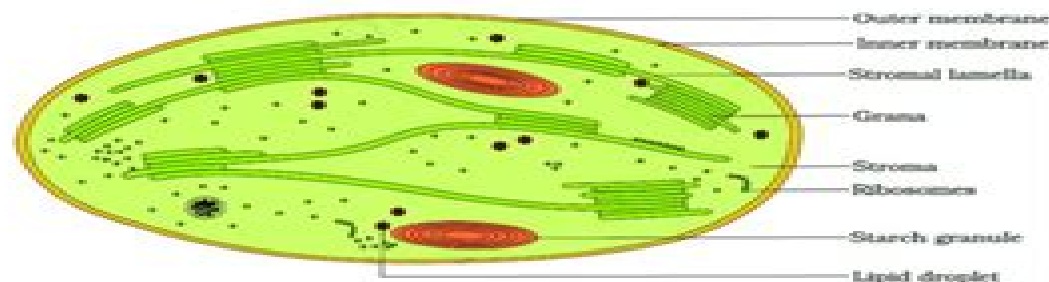
- **Cornelius Van Neil** (1897-1985) on the basis of studies with purple and green sulphur bacteria showed that photosynthesis is a light dependent reaction in which hydrogen from an oxidisable compound reduces CO_2 to form sugar.



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**.

Life Science Paper Grade11 2014 Based On Photosynthesis

Donna Latham



Life Science Paper Grade11 2014 Based On Photosynthesis:

This book delves into Life Science Paper Grade11 2014 Based On Photosynthesis. Life Science Paper Grade11 2014 Based On Photosynthesis is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Life Science Paper Grade11 2014 Based On Photosynthesis, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 3: Life Science Paper Grade11 2014 Based On Photosynthesis in Everyday Life
 - Chapter 4: Life Science Paper Grade11 2014 Based On Photosynthesis in Specific Contexts
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 6. In chapter 5, this book will draw a conclusion about Life Science Paper Grade11 2014 Based On Photosynthesis. The final chapter will summarize the key points that have been discussed throughout the book.
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