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### **Active Photosynthesis The Calvin Cycle**

The Calvin cycle, light-independent reactions, bio synthetic phase, dark reactions, or photosynthetic carbon reduction (PCR) cycle

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of photosynthesis are the chemical reactions that convert carbon dioxide and other compounds into glucose. These reactions occur in the stroma, the fluid-filled area of a chloroplast outside the thylakoid membranes.

## **Calvin cycle - Wikipedia**

Overview of the Calvin cycle. In plants, carbon dioxide ( $\text{CO}_2$ )

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{CO}\_2 CO2. start text, C, O, end text, start subscript, 2, end subscript. ) enters the interior of a leaf via pores called stomata and diffuses into the stroma of the chloroplast—the site of the Calvin cycle reactions, where sugar is synthesized.

**The Calvin cycle  
(article) |  
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Calvin cycle is also known as the C<sub>3</sub> cycle or light-independent or dark reaction of photosynthesis. However, it is most active during the day when NADPH and ATP are abundant. To build organic molecules, the plant cells use raw materials provided by the light reactions:

## **An Overview of Calvin Cycle - Stages Of C<sub>3</sub> Cycle**

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The Calvin cycle is a set of light independent redox reactions that occur during photosynthesis and carbon fixation to convert carbon dioxide into the sugar glucose. These reactions occur in the stroma of the chloroplast, which is the fluid-filled region between the thylakoid membrane and inner membrane of the organelle.



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**Learn About the  
Calvin Cycle in  
Photosynthesis and  
Carbon ...**

The Calvin Cycle, also known as the Calvin-Benson Cycle, refers to the set of light independent redox reactions that takes place in the chloroplasts during photosynthesis and carbon fixation that would convert carbon dioxide into the sugar glucose. Furthermore,

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the cycle also refers to the reactions involved in photosynthesis that use the energy that is stored by the light-dependent reactions ...

## **The Calvin Cycle: Definition, Steps and Products | Earth**

...

Calvin is best known for furthering our knowledge of the mechanism of photosynthesis with the discovery the

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Calvin cycle along with Andrew Benson and James Bassham, for which he was awarded the 1961 Nobel Prize in Chemistry. Youth and Education. Calvin was born in St. Paul, Minnesota, the son of Elias Calvin and Rose Herwitz, immigrants from Russia.

## **Melvin Calvin and the Calvin Cycle in Photosynthesis ...**

The Calvin cycle

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reactions (Figure 2) can be organized into three basic stages: fixation, reduction, and regeneration. In the stroma, in addition to  $\text{CO}_2$ , two other chemicals are present to initiate the Calvin cycle: an enzyme abbreviated RuBisCO, and the molecule ribulose biphosphate (RuBP).

## **The Calvin Cycle | Biology I**

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History of Calvin Cycle:

The cycle was discovered by Calvin, Benson and their colleagues in California, U.S.A. They fed *Chlorella* and *Scenedesmus* with radioactive  $^{14}\text{C}$  in carbon dioxide. Radioactive carbon,  $^{14}\text{C}$  has a half life of 5568 years. Therefore, the path of  $\text{CO}_2$  fixation can be easily traced with its help. Algal suspension illuminated

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...  
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**Calvin Cycle: History  
and Phases (With  
Diagram)**

In light-independent reactions (the Calvin cycle), carbohydrate molecules are assembled from carbon dioxide using the chemical energy harvested during the light-dependent reactions. Key Terms photosystem : Either of two biochemical

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systems active in  
chloroplasts that are  
part of photosynthesis.

### **8.1C: The Two Parts of Photosynthesis - Biology LibreTexts**

Test your knowledge  
on the Calvin cycle!

Test your knowledge  
on the Calvin cycle! If  
you're seeing this  
message, ...

Photosynthesis: Calvin  
cycle. The Calvin cycle.

Practice: The Calvin  
cycle. This is the

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currently selected  
item. Next lesson.  
Photorespiration: C3,  
C4, and CAM plants.

**The Calvin cycle  
(practice) |  
Photosynthesis |  
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The Calvin cycle occurs  
in the stroma of the  
chloroplasts. The  
Calvin cycle begins  
with the incorporation  
of carbon dioxide from  
the air into organic  
molecules already



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present in the chloroplast. This is known as carbon fixation. The Calvin cycle then reduces the fixed carbon into carbohydrates by adding electrons provided NADPH.

## **AP Biology Photosynthesis Chapter 8 Reading Guide ANSWER KEY**

The Calvin cycle then reduces the fixed carbon to carbohydrate

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Key Answer

by the addition of electrons. The reducing power is provided by NADPH, which acquired its cargo of electrons in the light reactions. To convert CO<sub>2</sub> to carbohydrate, the Calvin cycle also requires chemical energy in the form of ATP, which is also generated by the light reactions. 6.

## **Chapter 10: Photosynthesis -**

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## Photosynthesis **USP**

The Calvin cycle refers to the light-independent reactions in photosynthesis that take place in three key steps. Although the Calvin Cycle is not directly dependent on light, it is indirectly dependent on light since the necessary energy carriers (ATP and NADPH) are products of light-dependent reactions.

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**The Light-  
Independent  
Reactions of  
Photosynthesis ...**

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## **Active Photosynthesis The Calvin Cycle Key Answer**

In 1946 Calvin began his Nobel prize-winning work on photosynthesis. After adding carbon dioxide with trace amounts of radioactive carbon-14 to an illuminated

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suspension of the single-cell green alga *Chlorella pyrenoidosa* , he stopped the alga's growth at different stages and used paper chromatography to isolate and identify the minute quantities of radioactive compounds.

**Melvin Calvin |  
Biography, Nobel  
Prize, & Facts |  
Britannica**

promotes calvin cycle

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to keep the plant alive  
At what point in  
photosynthesis is the  
electromagnetic  
energy of light first  
converted into  
chemical energy? Light  
energy is first  
converted to chemical  
energy when electrons  
are transferred from  
excited pigments to an  
electron carrier in a  
photosystem reaction  
center.

**Photosynthesis**  
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## Photosynthesis The Calvin Cycle Key Answer

### Flashcards | Quizlet

The Calvin Cycle. In plants, carbon dioxide ( $\text{CO}_2$ ) enters the leaves through stomata, where it diffuses over short distances through intercellular spaces until it reaches the mesophyll cells. Once in the mesophyll cells,  $\text{CO}_2$  diffuses into the stroma of the chloroplast, the site of light-independent reactions of



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Photosynthesis. These reactions actually have several names associated with them.

## **5.12C: The Calvin Cycle - Biology LibreTexts**

5. Photosynthesis is not a single process, but two processes, each with multiple steps. a. Explain what occurs in the light reactions stage of photosynthesis. Be sure to use  $\text{NADP}^+$

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Photosynthesis

and

photophosphorylation

in your discussion. b.

Explain the Calvin

cycle, utilizing the term

carbon fixation in your

discussion. 6. The

details of

photosynthesis will be

easier to organize if

you can visualize the ...

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