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Fractionation of carbon isotopes in oxygenic photosynthesis

The degree of carbon isotope fractionation is influenced by several factors, including the metabolism, anatomy, growth rate, and environmental conditions of the organism. Understanding these variations in carbon fractionation across species is useful for biogeochemical studies, including the reconstruction of paleoecology, plant evolution, and the characterization of food chains. Carbon Isotopes in Photosynthesis - Iden.columbia.edu The frac- tionation of carbon isotopes that oc- curs during photosynthesis is one of the most useful techniques for investi- gating the efficiency of CO₂ uptake. Atmospheric carbon dioxide con- tains approximately 1.1% of the non- radioactive isotope carbon-13 and 98.9% of carbon-12. Photosynthetic Fractionation of Carbon Isotopes | SpringerLink

During photosynthetic CO₂ fixation fractionation of stable carbon isotopes occurs and, consequently, plants are generally depleted in the heavier isotope ¹³C. Carbon isotope discrimination (δ) is a measure of this process and depends on fractionation during diffusion and during enzymatic carboxylation reactions.

Fractionation of the Carbon Isotopes During Photosynthesis ...

Abstract. An attempt is made to explain quantitatively the fractionation of the carbon isotopes, ¹²C and ¹³C, in plants. It is shown that the isotope ratio in plants is mainly determined by the relative magnitudes of the diffusional resistance and the resistance of the carboxylation reaction to the flux of carbon dioxide into the plant.

Carbon isotope fractionation during photosynthesis ... 110 Carbon isotope fractionation during photosynthesis of the ¹³C/¹²C ratio in atmospheric CO₂ collected at a variety of localities showed that the ¹³C/¹²C ratio in atmospheric CO₂ goes through a diurnal cyclic variation in which ¹²C rich CO₂ is added to the atmosphere during the night due to plant respiration and is absorbed during the day due to preferential fixation of ¹²C during

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During photosynthetic CO₂ fixation fractionation of stable carbon isotopes occurs and, consequently, plants are generally depleted in the heavier isotope ¹³C.

Fractionation of the Carbon Isotopes During Photosynthesis ...

Fractionation of the Carbon Isotopes During Photosynthesis Submitted to the Session of 19 April, 1980.

Authors: Vogel, J.C. Free Preview

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Fractionation of the Carbon Isotopes During Photosynthesis / Fraktionierung der Kohlenstoffisotope bei Photosynthese. Series Title: Sitzungsberichte der Heidelberger Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse , Jahrg. 1980, 3.

Isotopic Fractionation of Stable Carbon Isotopes

Fractionation during the geochemical transfer of carbon in nature produces variation in the equilibrium distribution of the isotopes of carbon (^{12}C , ^{13}C and ^{14}C). Craig (1953) first identified that certain biochemical processes alter the equilibrium between the carbon isotopes. Some processes, such as photosynthesis for instance, favors one isotope over another, so after photosynthesis, the

Isotope fractionation - Wikipedia

Isotope fractionation. For example, in biochemistry processes cause a fluctuation in the amount of isotopes of carbon ratios incorporated into a biological being. The difference between the true amount of carbon and the amount in the plant is known as isotope fractionation.

Photosynthetic Fractionation of the Stable Isotopes of ...

Isotope discrimination during photosynthetic exchange of O_2 and CO_2 was measured using enzyme, thylakoid, and whole cell preparations. Evolved oxygen from isolated spinach thylakoids was isotopically identical (within analytical error) to its source water.

Stable Carbon Isotope Geochemistry

1 Stable Carbon Isotope Geochemistry Key Reading: Fogel M.L. and Cifuentes L.A. (1995) Isotope fractionation during primary production. In Organic Using Models of Carbon Isotope Fractionation during ...

While natural and laboratory fractionation are usually not considered separately, this article explores the differential fractionation of ^{14}C and ^{13}C during the process of photosynthesis. Values of ^{13}C p can be used to calculate ^{13}C p values, which in turn can be used to calculate ^{14}C p, the discrimination against $^{14}\text{CO}_2$ during photosynthesis.

Kinetic fractionation of carbon and oxygen isotopes during ...

Kinetic fractionation of carbon and oxygen isotopes during hydration of carbon dioxide Richard E. Zeebe School of Ocean and Earth Science and Technology, Department of

Oceanography, University of Hawaii at Manoa, 1000 Pope Road, MSB

Photosynthetic Fractionation of the Stable Isotopes of ...

Abstract. Isotope discrimination during photosynthetic exchange of O₂ and CO₂ was measured using enzyme, thylakoid, and whole cell preparations.