

## CRASSULACEAN ACID METABOLISM%0A

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[Crassulacean acid metabolism - Wikipedia](#)  
Crassulacean acid metabolism, also known as CAM photosynthesis, is a carbon fixation pathway that evolved in some plants as an adaptation to arid conditions. In a plant using full CAM, the stomata in the leaves remain shut during the day to reduce evapotranspiration, but open at night to collect carbon dioxide (CO<sub>2</sub>).

#### Crassulacean Acid Metabolism

Crassulacean acid metabolism (CAM) is a carbon dioxide acquisition, transient storage and concentrating mechanism of plants based on organic acid synthesis. Amongst 350 000 species of vascular plants, 21 000 species perform CAM. In this variant of photosynthesis, carbon dioxide can be fixed nocturnally in the dark and is stored in the form of organic acids from which it is remobilised during [Crassulacean acid metabolism - an overview | ScienceDirect ...](#)

Crassulacean acid metabolism (CAM) is a metabolic strategy to maintain photosynthesis under stress conditions. High salinity (400 M NaCl) induces a shift from C<sub>3</sub> photosynthesis to CAM in Mesembryanthemum crystallinum plants ( Niewiadomska et al., 2011 ).

#### Crassulacean Acid Metabolism, A Plastic Photosynthetic ...

Crassulacean acid metabolism (CAM) is an important elaboration of photosynthetic carbon fixation that allows chloroplast-containing cells to fix CO<sub>2</sub> initially at night using phospho enol pyruvate carboxylase (PEPC) in the cytosol. This leads to the formation of C<sub>4</sub> organic acids (usually malate).

#### Crassulacean acid metabolism - an overview | ScienceDirect ...

Plants using Crassulacean acid metabolism (CAM) photosynthesis have carbon isotopic compositions between C<sub>3</sub> and C<sub>4</sub> plants (O Leary, 1988), but very few CAM plants (e.g., agave, pineapple) are regularly ingested by humans or meat animals.

#### Crassulacean Acid Metabolism (CAM) | Photosynthesis

Crassulacean metabolism is a kind of adaptation found in certain succulent plants such as pineapple to proceed photosynthesis without much loss of water, which generally occurs in plants with C<sub>3</sub> and C<sub>4</sub> pathways.

#### Crassulacean acid metabolism: a continuous or discrete ...

Crassulacean acid metabolism (CAM) is a water-conserving mode of photosynthesis and one of three photosynthetic pathways in vascular plants. CAM and C<sub>4</sub> are modifications of the basic C<sub>3</sub> pathway and represent

CO<sub>2</sub>-concentrating mechanisms that elevate [CO<sub>2</sub>] around Rubisco and suppress photorespiration.

**Crassulacean acid metabolism: a continuous or discrete ...**

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#### CRASSULACEAN ACID METABOLISM

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**Salinity induction of recycling Crassulacean acid ...**

Crassulacean acid metabolism (CAM) can be induced by salinity, thus conferring the plant higher water-use efficiency. *Talinum triangulare* does not frequently encounter salt in its natural habitat but is cultivated in soils that may become salinized.

**Crassulacean Acid Metabolism | Ask A Biologist**

Crassulacean acid Metabolism: also called CAM. Is the special photosynthesis process used by plants that live in hot and dry climates to reduce the loss of water.

**Crassulacean Acid Metabolism and Epiphytism Linked to ...**

Crassulacean acid metabolism (CAM) is a taxonomically widespread photosynthetic pathway that has evolved in plants of CO<sub>2</sub>- and water-limited environments, including tropical forest canopies with intermittent or seasonal water availability, hot semiarid regions, and some aquatic environments.

**The photosynthetic plasticity of crassulacean acid ...**

The photosynthetic specialization of crassulacean acid metabolism (CAM) has evolved many times in response to selective pressures imposed by water limitation.

Integration of circadian and metabolite control over nocturnal C

**Crassulacean acid metabolism photosynthesis:**

**`working the ...**

Crassulacean acid metabolism (CAM) can be traced from Roman times through persons who noted a morning acid taste of some common house plants. From India in 1815, Benjamin Heyne described a daily acid taste cycle.

**Salt Requirement for Crassulacean Acid Metabolism Annual ...**

In experiments with the facultative Crassulacean acid metabolism (CAM) species,

*Mesembryanthemum crystallinum*, only plants which re-

ceived high levels of inorganic salts fixed substantial amounts of CO<sub>2</sub> by