

- 4 The molecule that combines with carbon dioxide in C_4 plants is PEP but in C_3 plants the molecule is RuBP. PEP has a much higher affinity for carbon dioxide than RuBP and will not accept oxygen. Explain how this helps C_4 plants.

As PEP will not accept oxygen there is no photorespiration on this pathway. As it has a higher affinity for carbon dioxide, large amounts of carbon dioxide are available to the Calvin cycle and prevents photorespiration on that pathway as well.

- 5 Gas exchange in CAM plants takes place mainly at night as this is when the CAM pathway fixes carbon dioxide. Explain how this helps these plants avoid excessive water loss.

Gas exchange requires stomata to be open; at night temperatures are lower so there will be less water loss through transpiration.

- 6 The main difference between C_4 and CAM pathways is the way by which carbon dioxide supply to the Calvin cycle is maintained. Explain how the carbon dioxide supply is maintained and what the benefit to the plant is in each case.

The C_4 pathway fixes carbon dioxide in a different place (the mesophyll cells) from where the Calvin cycle takes place (the bundle sheath cells); the CAM pathway fixes carbon dioxide at a time when the Calvin cycle is not operating (at night).

- 7 In what ways does the C_4 pathway differ from the CAM pathway?

C_4 pathway: Acceptor molecule is PEP; takes place in the mesophyll cells; makes sure large amounts of carbon dioxide are available in the leaf; takes place at the same time as the Calvin cycle.

CAM pathway: Acceptor molecule is PEP; takes place in the bundle sheath cells; takes place at night; found in xerophytic plants.

Both pathways use the same acceptor molecule and produce malate, which provides carbon dioxide for the Calvin cycle. They take place in different places and at different times within the leaf. The C_4 pathway encourages rapid growth as CO_2 concentrations are rarely limiting.

- 8 Genetic modification of plants may make it possible to transfer the genes for the C_4 or CAM pathways to C_3 plants. As a result the genetically modified plants could be more efficient and better adapted to the conditions in many developing countries. What would a scientist consider before deciding to genetically modify a C_3 plant with genes from one of the C_4 or CAM pathways?

The availability of water is the determining factor. CAM plants can survive in much drier conditions than C_3 or C_4 plants as they are able to significantly reduce their water loss. Plants that already had xerophytic adaptations that allowed them to keep their stomata open in hot, dry conditions would also benefit from the CAM pathway. Plants that live in areas where temperatures dropped significantly at night may benefit more from the C_4 pathway due to the effect of extremely low temperatures on the rate of chemical reactions. Plants that shut their stomata in an attempt to conserve water would also benefit from the C_4 pathway.

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Niva Miles



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