

# Plants Respire Through

- A. Stomata
- B. Lenticels
- C. Cuticles
- D. Epidermis

Show Answer...

**Correct Answer: A (Stomata)**

## Explanation:

Plants, just like animals, require energy to survive. One way they obtain this energy is through a process called respiration. Respiration is the process of breaking down glucose (sugar) to release energy. The by-products of respiration are carbon dioxide and water. Plants have tiny openings on their leaves, stems, and other parts called stomata, through which they exchange gases and transpire. During respiration, oxygen is taken in through the stomata, and carbon dioxide is released back out. Therefore, plants respire through stomata.

## The Process of Respiration in Plants

### Introduction

Respiration is a vital process that occurs in all living organisms, including plants. It is the process of breaking down glucose to release energy, which is used by the plant to carry out various metabolic activities. In this article, we will discuss the process of respiration in plants, including the characteristics of the process and the structures involved.

### The Process of Respiration in Plants

Respiration in plants occurs through a series of complex biochemical reactions that take place within the cell. The process can be divided into three stages: glycolysis, the Krebs cycle, and the electron transport chain. In the first stage, glucose is broken down into pyruvate, which is then transported to the

mitochondria for further processing. In the mitochondria, the pyruvate is oxidized to produce carbon dioxide, water, and energy in the form of ATP.

### **The Role of Stomata in Respiration**

During respiration, oxygen is required to oxidize glucose and produce energy. This oxygen is taken in through tiny openings on the leaves, stems, and other parts of the plant called stomata. Stomata are essential for the process of respiration in plants as they allow the exchange of gases between the plant and the atmosphere.

### **The Role of Mitochondria in Respiration**

Mitochondria are organelles that are found in the cytoplasm of plant cells. They are responsible for producing the energy required for respiration. The process of respiration occurs in the mitochondria, where glucose is oxidized to produce energy in the form of ATP.

### **Conclusion**

In conclusion, respiration is a vital process that occurs in all living organisms, including plants. The process of respiration in plants occurs through a series of complex biochemical reactions that take place within the cell. Oxygen is required for respiration and is taken in through tiny openings on the plant's leaves, stems, and other parts called stomata. The mitochondria are responsible for producing the energy required for respiration.

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