



SYNDETOCHEILIC VS HAPLOCHEILIC STOMATA

Stomata are the tiny opening on the leaf surface, usually on the lower surface, which facilitate gaseous exchange and transpiration in plants. They are highly specialized pores with opening and closing mechanism. Stomata are specialized epidermal cells Based on the mode of development; there are two types of stomata in plants. They are

1. **Syndetocheilic Stomata**
2. **Haplocheilic Stomata**

This type of stomatal classification was first proposed by Florin (1931 and 1933). The current post discuss about the difference between Syndetocheilic and Haplocheilic Stomata with A Comparison Table

Difference between Syndetocheilic and Haplocheilic Stomata

Sl. No.	Syndetocheilic Stomata	Haplocheilic Stomata
1	Definition: A type of stoma in which the two guard cells and the subsidiary cells are all derived from a single mother cell	Definition: A type of stoma in which the two guard cells are derived from a single mother cell and the subsidiary cells are derived from a different initial.
2	The stomatal initial cell produces guard cells and subsidiary cells.	The stomatal initial cell produces only the guard cell.
3	Syndetocheilic stomata are considered as primitive type.	Haplocheilic stomata are considered as advanced.
4	Usually occur in Gymnosperms.	Commonly occurs in Angiosperms.

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