

SECTION 5.3.1

Patterns of Leaf Veins

The arrangement of veins and veinlets in the lamina (blade) of a leaf is termed as venation.

Veins provide rigidity to the leaf blade and act as channels of transport for water, minerals, and food materials.

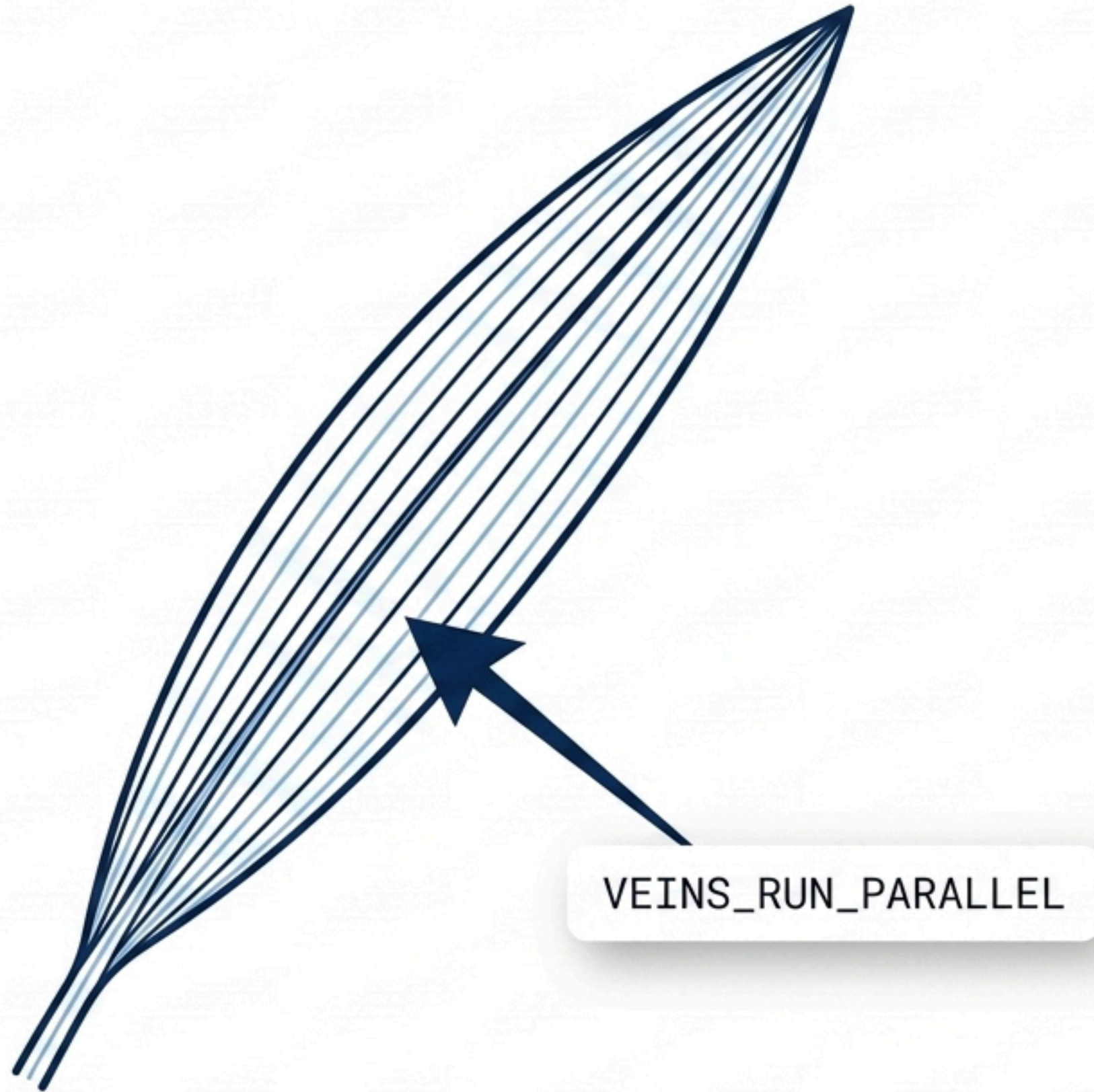


VEINLETS_FORM_NETWORK

Reticulate Venation

Occurs when the veinlets form a complex, interconnected web or network across the leaf lamina.

Note: This web-like structure provides excellent multidirectional structural support to broad leaves.



Parallel Venation

Occurs when the veins run side-by-side, parallel to each other within the leaf lamina, typically without forming a complex network.



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The Classification Shortcut



RETICULATE

Generally indicates
Dicotyledonous plants.

*China rose, mustard,
sunflower, neem.*



PARALLEL

Characteristic of most
Monocotyledonous plants.

Grass, wheat, maize, lilies.

Key Takeaways

- Venation is the specific arrangement of veins and veinlets within a leaf's lamina.
- Reticulate = Network pattern = Dicots.
- Parallel = Side-by-side pattern = Monocots.

END_OF_SECTION



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