

The Male Reproductive Whorl

A Morphological Blueprint of
the Androecium

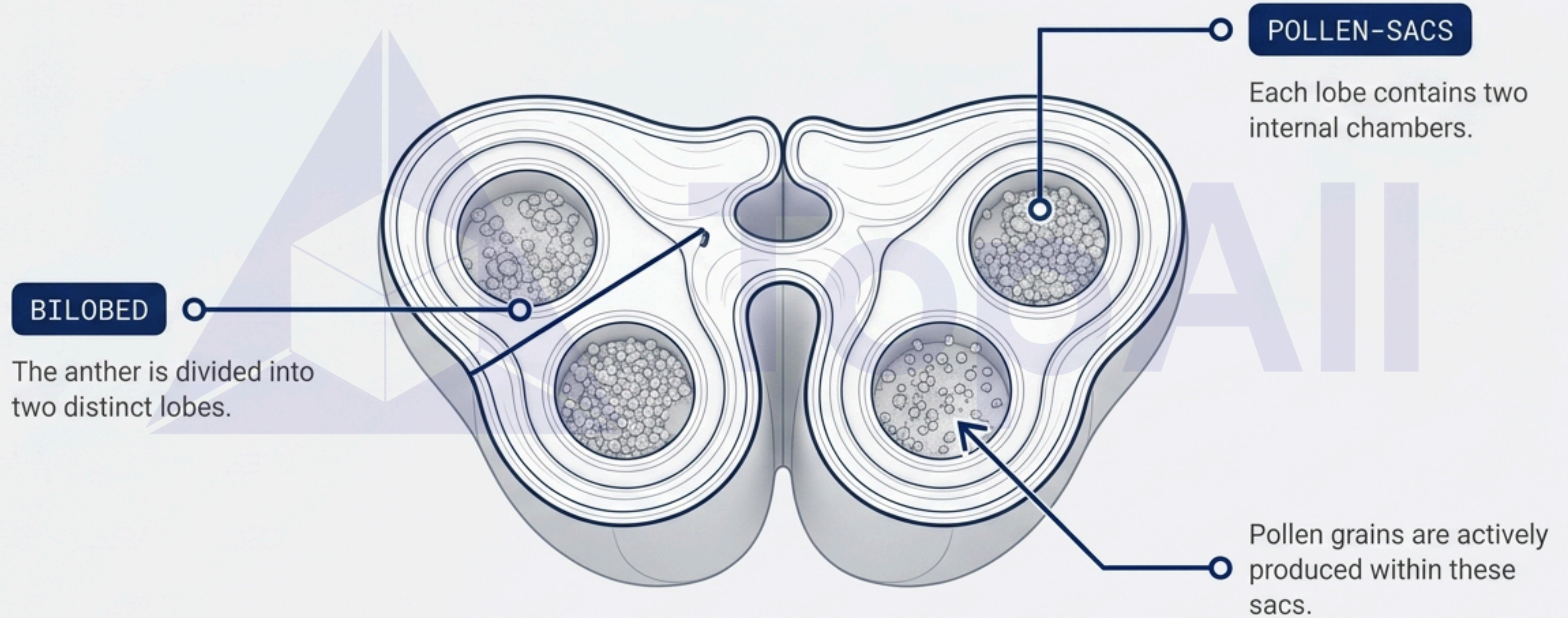
Modern Botanical Blueprint



The stalk

The complete male
reproductive organ.

Inside the Anther





You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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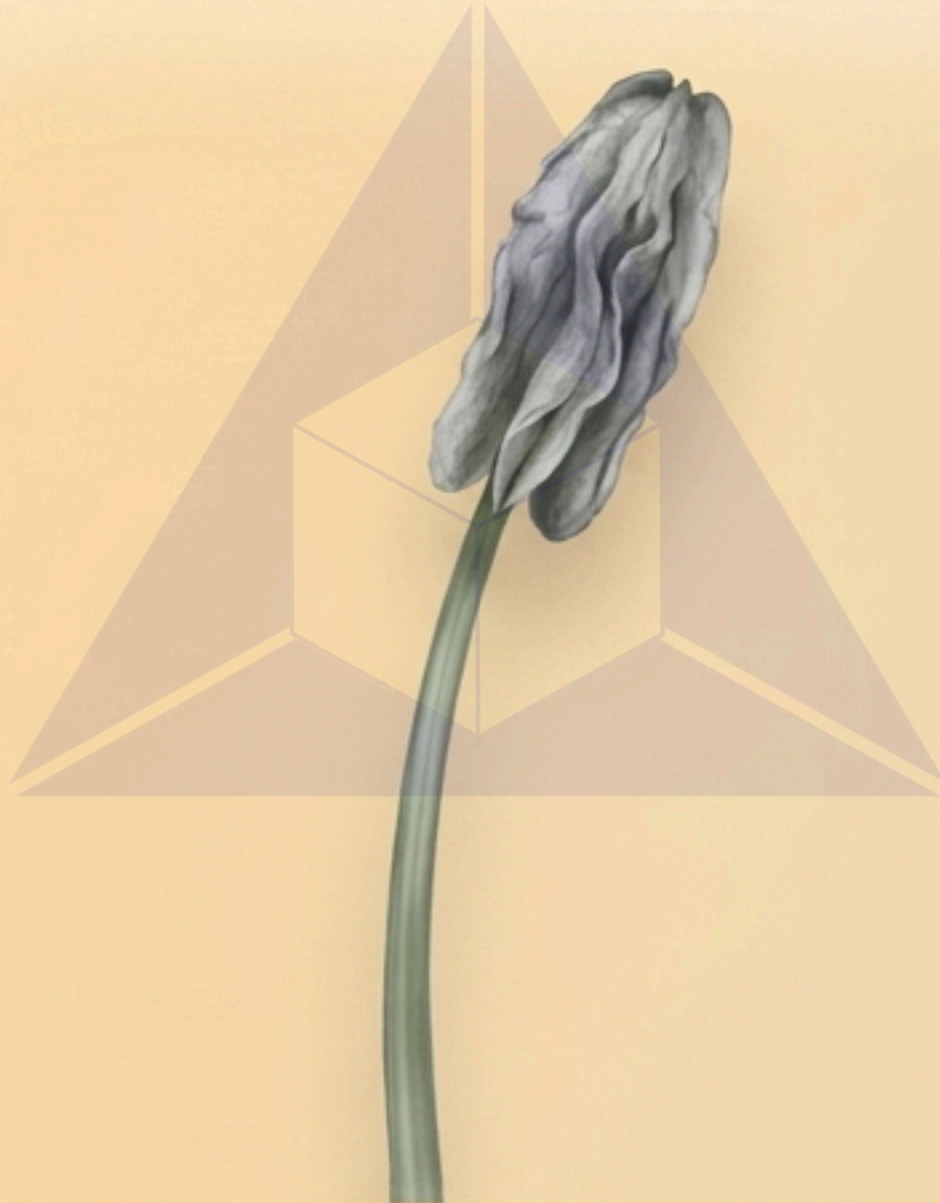
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Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



The Sterile Exception



STAMINODE

A sterile stamen that does not produce pollen grains.

While the standard stamen functions to produce and distribute pollen, morphological variations exist where the unit is entirely sterile.

Adhesion: External Attachments

Petal Anchors

EPIPETALOUS

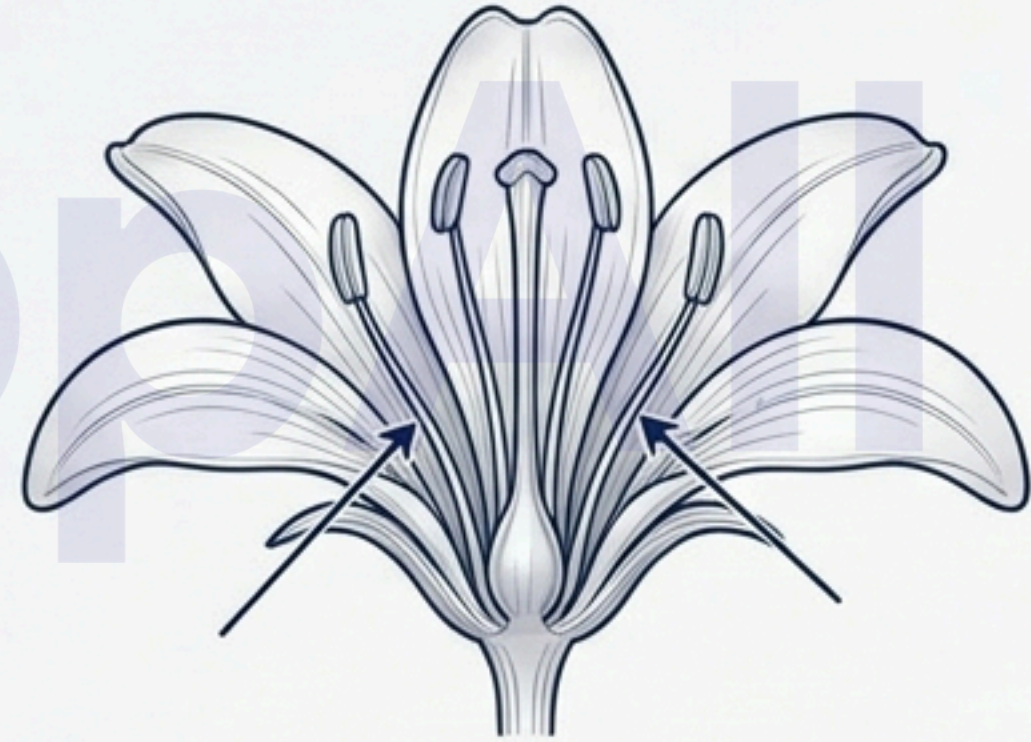


Definition: Stamens are attached directly to the petals.

Example: Brinjal.

Perianth Anchors

EPIPHYLLOUS



Definition: Stamens are attached to the perianth.

Example: Lily.

Cohesion Part I: Independent Units

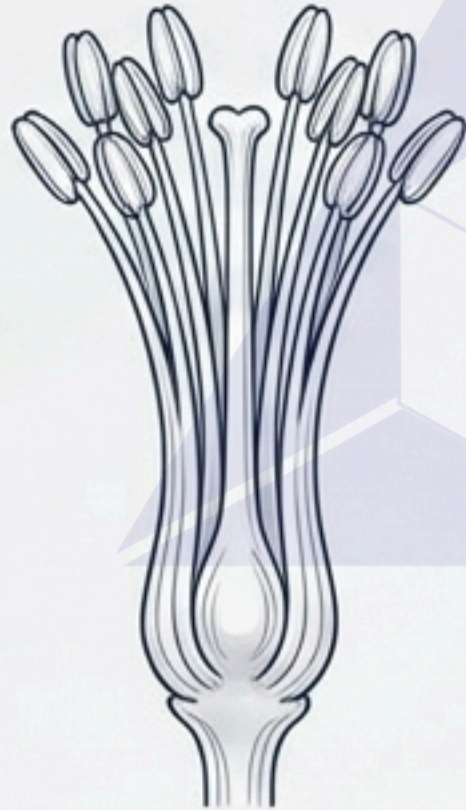


POLYANDROUS

The foundational state of cohesion where stamens in a flower remain completely free and distinct from one another.

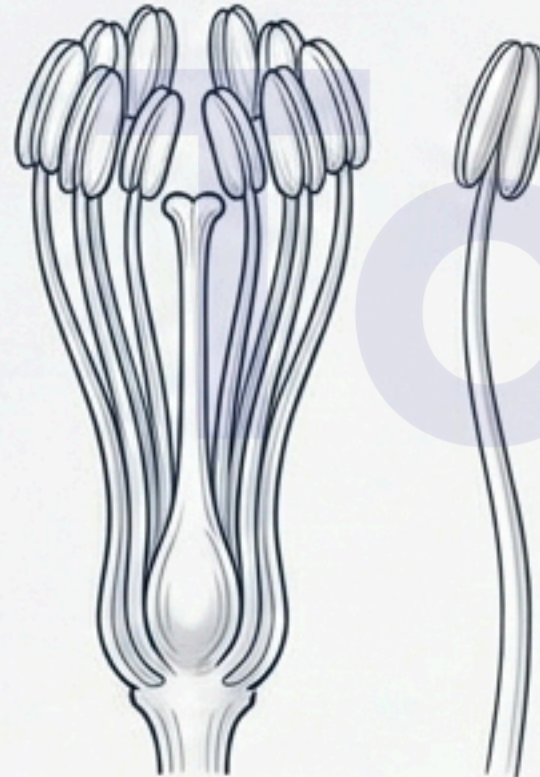
Cohesion Part II: Degrees of Fusion

MONOADELPHOUS



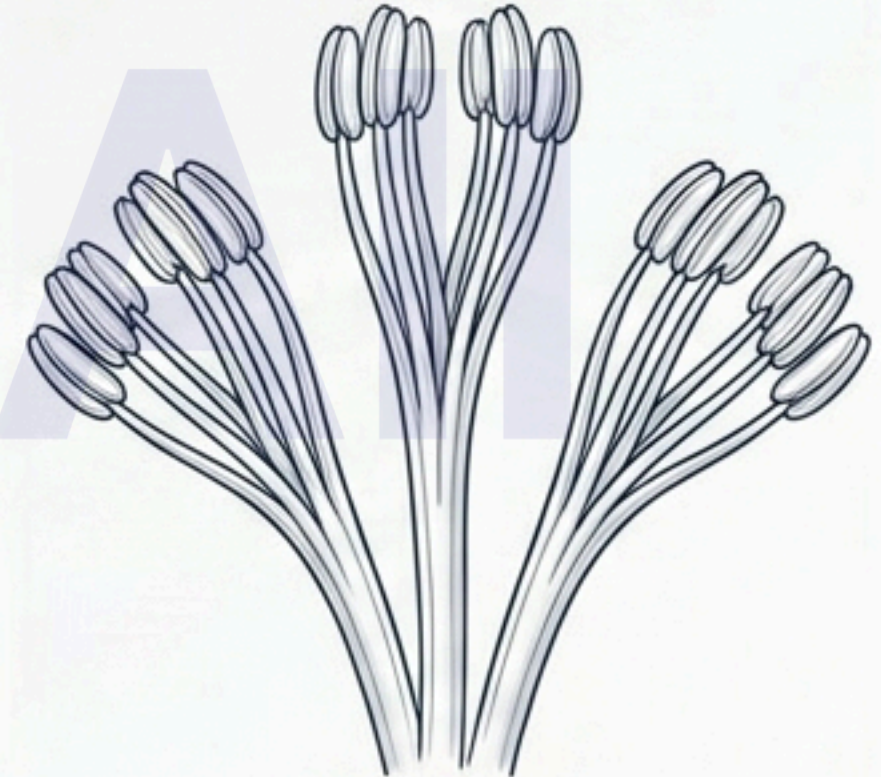
Example: China rose.

DIADELPHOUS



Example: Pea.

POLYADELPHOUS



Example: Citrus.

The Diagnostic Value of the Androecium



Salvia
(Unequal lengths)



Mustard
(Tetradynamous
lengths)

The varying characteristics of the androecium are not just anatomical trivia—they are fundamental diagnostic tools.

Degrees of Fusion: The transition from polyandrous to polyadelphous serves as a distinct taxonomic marker.

Filament Variation: Significant variation in the length of filaments within a single flower provides critical evidence for identifying and classifying angiosperms.



You've Learned the Theory.

Now Let's Test It.

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