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Morphology of Flowering Plants - Malvaceae Family - Part - 2

~~Pollen Morphology Training - Part 2: Apertures~~
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~~DISSECTION OF A HIBISCUS FLOWER~~ *Scientific Officer-Biology-2020 Forensic Science Lab- Kerala PSC-Detailed Syllabus PART1-Botany* Pollen ID Pollen Morphology Training - Part 1: Shapes and Orientations **#BotanyMCQ// PLANT TAXONOMY MCQ FOR ALL COMPETITIVE EXAMS (PART-1) Pollen Morphology Training - Part 3: Morphological Types Intro to Identifying Flowering Plants** **NEET: Plant Morphology - L9 | Class 11 | Live Daily 2.0 | Unacademy NEET | Pradeep Sir** ~~Flower Dissection~~ Pollen under the microscope **Pollen Germination by Shwetha Menon POLLINATION AND FERTILISATION ? 056 - How**

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to look at POLLEN from HONEY under the microscope | Microscopy SEMI TECHNICAL DESCRIPTION OF A TYPICAL FLOWERING PLANT *Floral Formula for NEET, AIIMS, AIPMT, JIPMER* Pollen Grain : Definition, Structure \u0026amp; Function | Lessons For NEET | Medical Classes | Best Tutor Types of Inflorescence | Morphology of Flowering Plants | Don't Memorise *Solanaceae # Practical Botany# For NCERT Class-XI and B.Sc 4th Sem.* Pollen Morphology Training - Part 5: Additional Information **Pollen morphology. Pollen wall stratification. Polarity of pollen tetrad.** *Family Malvaceae (Mallows): Taxonomic Description Floral Formula and Floral Diagram*

11:00 AM Biology 1000 MCQ | Most important MCQ | useful for all exams

Pollination : Type and Agents | NEET Crash Course **Pollination in Flowering plants | NEET, B.Sc. \u0026amp; M.Sc. Botany** NEET/AIIMS BIOLOGY (HINDI) #23# CLASS 11th NCERT Plant Morphology (Floral Formula) *Embryology | Banaras Hindu University | Exam Suggestions* [Pollen Morphology Of Malvaceae And](#)

In the studies on the pollen morphology of Malvaceae, variation in pollen size, aperture and spine characteristics, as well as exine stratification were elaborated as taxonomic value (Saad, 1960 ...

[Pollen Morphology of Egyptian Malvaceae: An Assessment of ...](#)

Pollen grains of more than 120 species from c. 40 genera of Malvaceae were studied with light and scanning electron microscopy. The pollen grains are spiny, usually spheroidal and an evolutionary trend from a medium sized, ancestral 3-zonocolporate pollen type with small spines to a large polytrreme type with long, sometimes distinctly dimorphic spines is

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recognised.

Pollen morphological studies in the Malvaceae: Grana: Vol ...

Pollen morphology of Malvaceae 91 Fig 1 A-C Schematic drawings showing patterns of aperture distribution within the family (A) Suboblate, 3-zonocolporate pollen (B) Spheroidal, 6-colporate pollen (C) Spheroidal, oligo (-poly)

[MOBI] Pollen Morphology Of Malvaceae And Its Taxonomic

eral taxa (Ferguson 1986; Hilsebeck 1990; El Naggari 2002). Pollen morphology of Malvaceae or some of its representatives has been included in many studies: for example: Surova and Velieve (1984), Christensen (1986a, 1986b), Culham and Blackmore (1988) and El Naggari (2004). The pollen of Malvaceae is characterized by large size, spherical

Pollen Morphology of Malvaceae and its taxonomic ...

Pollen Morphology of Egyptian Malvaceae: An Assessment of Taxonomic Value Plate 1. Pollen morphology of the studied taxa of Malvaceae 1- *Abelmoschus esculentus* x 500 2- *Hibiscus trionum* x 750 3- *Hibiscus rosa-sinensis* x 750 4- *Hibiscus* sp. x 500 5- *Gossypium barbadense* x 750 6- *Lagunaria patersonii* x 1500

Pollen Morphology of Egyptian Malvaceae: An Assessment of ...

Pollen morphology of Malvaceae 91 Fig. 1. A-C. Schematic drawings showing patterns of

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aperture distribution within the family. (A) Suboblate, 3-zonocolporate pollen. (B) Spheroidal, 6-colporate pollen. Spiral pattern distinct. (C) Spheroidal, oligo (-poly) colporoidate (-pororate) pollen. Spiral pattern very distinct.

Pollen morphological studies in the Malvaceae

Saba MD, Santos FAR. 2015. Pollen morphology and exine ultrastructure of selected species of *Waltheria* L. (Byttnerioideae-Malvaceae). *Review of Palaeobotany and Palynology* 221: 204-210. [Links] Saba MD, Santos FAR, Esteves GL. 2004. Palinotaxonomia das tribos Byttnerieae DC., Hermannieae DC. e Helictereeae DC.

Pollen morphology of *Waltheria* L. (Malvaceae ...

Due to the taxonomic importance of the Malvaceae family and the need for studies to corroborate the circumscription of the group, which remains uncertain, this study aimed to characterize the pollen morphology of the Bombacoideae species occurring in the state of Rio de Janeiro, which are distributed predominantly in areas of restinga (coastal woodland) and Atlantic Forest, in order to support taxonomic studies of the group.

Pollen morphology of selected species of the subfamily ...

The pollen morphology of five species: *Waltheria albicans* Turczaninow, *Waltheria brachypetala* Turczaninow, *Waltheria cinerascens* Auguste Saint-Hilaire, *Waltheria martiana* Bentham ex J.G. Saunders, and *Waltheria viscosissima* Auguste Saint-Hilaire were studied by light microscopy (LM), scanning electron microscopy (SEM), and transmission electron

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microscopy (TEM), focusing on apertural type and exine. Pollen grains are medium to large, isopolar, oblate spheroidal to prolate spheroidal, 3(-4)-5 ...

Pollen morphology and exine ultrastructure of selected ...

Important Types of Malvaceae: 1. *Althaea rosea* (Fig. 38.5): Habit: Tall ornamental annual herb. Root: Tap, branched and annual. Stem: Erect, cylindrical, green, hairy, woody and solid. Leaves: Alternate, stipulate, petiolate, simple, palmati-lobed with a cordate base, multicostate reticulate venation. Inflorescence: Solitary axillary. Flower:

Malvaceae: Characters, Distribution and Types

Conversely, distinct pollen morphology was reported by Saad (1960) in Malvaceae and he observed distinguish morphological features between the genera. Also, this family was divided into six pollen categories; on the basis of aperture number and diameter, grain diameter and spine form (Culhane and Blackmore 1988).

Various Pollen Morphology in *Hibiscus syriacus*

The pollen grains are produced within the anther of the flower. Pollen mother cells originate from the sporogenous tissue of the anther which later divide meiotically to form four pollen grains called tetrad. The pollen grains do not remain united at maturity, and are dissociated into single pollen grain called monad.

Morphological Characteristics of Pollen Grains

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The Malvaceae is generally characterized by large spherical pollen grains with an elaborate system of sculpturing. The species under consideration here are pantoporate with small apertures and conspicuous echinae or verrucae uniformly distributed over the surface of the grain.

Malvaceae - ScienceDirect

The pollen grains of Althaea genus are spheroidal, pantoporate, echinate which is characterized by having subglobose pattern at the base of echinae. The pollen of Alcea are spheroidal, pantoporate, echinate and baculate. Distances between pori are longer in Althaea (9.04–12.75 μ m) pollens than pollens of Alcea (5.12–7.28 μ m).

Pollen morphology of Alcea L. and Althaea L. genera ...

Pollen grains in Asteraceae family are relatively stenopalynous with less variation exhibited in the pollen morphology. Asteraceae pollens are mostly rounded triangular to square amb, sometimes circular in polar view and prolate in equatorial view.

Pollen Grains of Asteraceae and Analogous Echininate Grains

Malvaceae pollen is uncollectable for corbiculate bees which has previously been ascribed to pollen size, spines, and pollenkitt. We analysed the influence of pollen grain properties (diameter, spine length, spine density) on the collectability of echinate (spiny) pollen by bumble bees (*Bombus terrestris*).

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Pollen grain morphology is not exclusively responsible for ...

Both species have pollen that is typical of Malvaceae (i.e., large, spherical, spiny, polyantoporate, tectate and the endexine as thick or thicker than the ektexine. *Malvaviscus arboreus* var. *mexicanus* has spirals of short, stout, irregularly branched primary spines and shorter, stout spinules spaced at irregular intervals.

Pollen Morphology of *Malvaviscus arboreus* var. *mexicanus* ...

of pollen types in the family Bombacaceae, it is stated in most taxonomic textbooks, old and recent ones, that the pollen grains of the Bombacaceae are smooth, the pollen of the Malvaceae being spiny (cf. for example Schultze-Motel [22, 311], Hutchinson [11, 522], and Cronquist [4, 201]). Saad [21], in a study on "The

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