

Pollen Morphology Of Malvaceae And Its Taxonomic

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Pollen Morphology Of Malvaceae And

In spite of the Malvaceae being a stenoplynous family (Erdtman 1952) there are high variations in pollen morphological characters such as: size, aperture, spine characters as well as exine stratification and sculpture, which can be used in the taxonomy of

Pollen Morphology of Malvaceae and its taxonomic ...

Abstract. 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 polytreme type with long, sometimes distinctly dimorphic spines is recognised.

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

The pollen morphological characteristics of 21 species of Egyptian Malvaceae belonging to 10 genera: Abelmoschus Medik., Hibiscus L., Gossypium L., Lagunaria L., Abutilon Mill., Sida L., Malva L.,...

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

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- Hibiscussp. x 500 5- Gossypium barbadence x 750 6- Lagunaria patersonii x 1500

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

Pollen morphology of Waltheria L. (Malvaceae-Byttnerioideae) from Bahia, Brazil The TEM analysis was carried out at FIOCRUZ using a Zeiss EM 109 microscope (Zena, Germany). The chemical treatment of the samples followed the protocol used by Silveira-Júnior et al. (2015). Briefly, non-acetolyzed pollen

Pollen morphology of Waltheria L. (Malvaceae ...

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Pollen morphological studies in the 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 taxonomic importance of pollen morphology in family Malvaceae had long been acknowledged as it provides the basis for palynological and phylogenetic analysis. In present study, pollen...

(PDF) Various Pollen Morphology in Hibiscus syriacus

The pollen morphology varies among different plant species; occur in varying shapes and forms. They also show variation in symmetry, exine structure and sculpture. Cassia sp., Euphorbia sp., Terminalia sp., Melastoma sp. and Pongamia pinnata pollen are spherical, pollen of family Malvaceae are echinate. Pollen of Anthurium sp.,

POLLEN MORPHOLOGY OF SELECTED BEE FORAGE PLANTS

In Malvaceae, heterostyly is common in the genera Melochia and Waltheria (Byttnerioideae), which also exhibit pollen dimorphism. The pollen grains of the brevistyle morph are microechinate, while those of the longistyle morph are suprareticulate.

Pollen morphology and exine ultrastructure of selected ...

Pollen morphology and the degree of pollen variability within the fourteen species belonging to the two genera, Abutilon Mill. and HibiscusL. of the family Malvaceae was studied and documented in detail using light microscopy (LM) and scanning electron microscopy (SEM). Two distinct pollen types were

Pollen morphology of 14 species of and Hibiscus of the ...

Distribution of Malvaceae: It is commonly called cotton family or mallow family. The family consists of about 85 genera and 1500 species among which 111 species found in India. The plants are almost cosmopolitan in distribution but many of which are confined to tropics and sub-tropics. Economic Importance of Malvaceae:

Malvaceae: Characters, Distribution and Types

The pollen grains of this apertural type are called Pantoporate or Periporate, e.g., Amaranthaceae, Chenopo- diaceae, Malvaceae etc. Ulcus: Distal simple circular aperture with length/breadth ratio <2 and restricted to less than half the distal surface.

Morphological Characteristics of Pollen 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*).

Pollen grain morphology is not exclusively responsible for ...

Review of Palaeobotany and Palynology Elsevier Publishing Company, Amsterdam - Printed in The Netherlands POLLEN MORPHOLOGY OF THE FAMILY BOMBACACEAE H, P. FUCHS Koninklijke/Shell Exploration and Production Laboratory, Rijswijk (The Netherlands) (Received August 28, 1966) SUMMARY The justification for separating the family Bombacaceae from the Sterculiaceae, Malvaceae and Tiliaceae, which ...

Pollen morphology of the family Bombacaceae - ScienceDirect

The results demonstrated that pollen morphological characteristics, principally pollen shape, size, aperture characters and exine sculpture and structure, are taxonomically important. The pollen results are discussed with reference to current systematic treatments of Malvaceae.

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Pollen morphology and the degree of pollen variability within the fourteen species belonging to the two genera, *Abutilon* Mill. and *Hibiscus* L. of the family Malvaceae was studied and documented in detail using light microscopy (LM) and scanning electron microscopy (SEM).

Pollen morphology of 14 species of Abutilon and Hibiscus ...

The echinate nature of species of Malvaceae was also reported by Perveen and Qaiser (2009). *Hibiscus* pollen is differentiated from *Ipomoea aquatica* in being larger in size. This size disparity was noted by Sowunmi (1973), who reported *H. tiliaceus* of 116.1 μm in size.

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