

Pollen Morphology Of Malvaceae And Its Taxonomic

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Pollen morphological studies in the Malvaceae: Grana: Vol ...
Pollen Morphology of Egyptian Malvaceae: An Assessment of Taxonomic Value Plate 3. Spine morphology on pollen surface of the studied taxa of Malvaceae 1- Malva aegyptia x 3500 2-Alcea rosea x 2000 3- Hibiscus sabdariffa x 2000 4-Hibiscus micranthus x 3500 5- Malvaviscus arboreus x 2000 6-Alcea rosea x 3500

Malvaceae: Characters, Distribution and Types

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 ...

Pollen morphology of selected species of the subfamily ...

The present study is based on the pollen morphology of 9 species belonging to 6 genera of family Malvaceae (Table 1). Pollen samples were obtained from the wild plants as well as from cultivated ornamentals at various localities of N.W.F.P., Pakistan For light microscopy (LM) pollen were acetolysed according to Erdtman (1952) and Retisma (1969).

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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 ...

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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). Two distinct pollen types were

Morphological Characteristics of Pollen Grains

@inproceedings{Juhari2019PollenMA, title={Pollen morphology and harmomegathic characters of *Byttneria* L. species (Sterculiaceae S. S: Subfam. Byttnerioideae)}, author={Muhammad Amirul Aiman Ahmad Juhari and Noraini Talip and Che Nurul Aini Che Amri and Richard Chung and W. Phupumirat and Ruzi ...

Pollen Morphology of Egyptian Malvaceae: An Assessment of ...
ic value. Pollen characters with some other morphological characters are discussed in the light of the recent classification of the family in Yemen. Key words: Malvaceae, Morphology, Yemen. Introduction

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Malvaceae Juss. (s. str.) is a large family of herbs, shrubs and trees; comprising about 110 genera and 2000 species.

POLLEN MORPHOLOGY OF SELECTED BEE FORAGE PLANTS

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

Pollen Morphological Description of Some Plants - Pollen ...

The intensive study of pollen morphology has added a new dimension to angiosperm taxonomy, of particular value at the generic level. Dr. Erdtman is one of the foremost workers in this field and the publication under review, essentially a reprint of a monograph published in 1954, should be available to any taxonomist concerned with the Other CABI sites

Pollen morphology of Waltheria L. (Malvaceae ...

Pongamia pinnata pollen are spherical, pollen of family Malvaceae are echinate. Pollen of Anthurium sp., Adhatoda vasica, Antigonon leptopus, Jasminum sp. and Punica granatum are oblate in shape.

TABLE-1: Pollen type and its morphology Sr. No. Pollen type Plant name

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and Family name Morphology Flowering period Forage source 1. *Acacia* sp. (Fabaceae)

Pollen morphology and exine ultrastructure of selected ...

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 14 species of and *Hibiscus* of the ...

Pollen morphology and exine ultrastructure of selected species of *Waltheria* L. (Byttnerioideae-Malvaceae) Author links open overlay panel Marileide Dias Saba a Francisco de Assis Ribeiro dos Santos b Show more

(PDF) Various Pollen Morphology in *Hibiscus syriacus*

Pollen morphology of selected species of the subfamily Bombacoideae (Malvaceae sensu lato) Acta bot. bras. 28(3): 352-360. 2014. ment of the National Museum of the Federal University of Rio de Janeiro. The pollen samples to be analyzed under light microscopy were treated with acetolysis (Erdtman 1960), as modified by Melhem et al. (2003),

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and ...

[PDF] Pollen morphology and harmomegathic characters of ...
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 grain morphology is not exclusively responsible for ...
A POLLEN MORPHOLOGY OF CERTAIN TROPICAL ANGIOSPERMOUS PLANTS Tropical
angiospermous flora of India, very rich in families, genera and
species is highly. Medicinal Plants Archive » Pollen Grains. Pollen
Morphological Description of Some Plants. Last Updated on Thu, 22 Aug
2019 | Pollen ... Malvaceae -pollen oblate spheroidal,
trizonocolporate ...

[PDF] Pollen Morphology and Plant Taxonomy. Angiosperms ...
The results demonstrated that pollen morphological characteristics,
principally pollen shape, size, aperture characters and exine
sculpture and structure, are taxonomically important. The pollen

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results are discussed with reference to current systematic treatments of Malvaceae.

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 recognised.

SYSTEMATIC IMPLICATIONS OF POLLEN MORPHOLOGY IN THE FAMILY ...
Even when combining pollen grain characteristics, there is no common denominator that predicts pollen collectability: Pollen grains of the Malvaceae species and *C. pepo* share large grains with long spines and low spine density, but differ in collectability (with the limitation that only 40% of tested bumble bees collected *C* .

Pollen morphology of the family Bombacaceae - ScienceDirect
Malvaceae is related to Sterculiaceae and Tiliaceae in having mucilaginous sap, simple alternate and stipulate leaves. According to Bentham and Hooker it differs from them in having monothealous anthers,

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monadelphous condition and presence of involucre or epicalyx.

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