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small businesses to industry giants throughout the world.

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

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

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

Morphological Characteristics of Pollen Grains  
@inproceedings{Juhari2019PollenMA, title={Pollen morphology and harmomegathic characters of byttneria l{"o}fl. species (Sterculiaceae S. S: Subfam. Byttnerioideae)}, author={Muhammad Amirul Aiman Ahmad Juhari and Noraini Talip and Che Nurul Aini Che

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Amri and Richard Chung and W. Phupumirat and Ruzi ...

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, monadelphous condition and presence of involucre or epicalyx.

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

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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.

### 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

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C .

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 Malvaceae and its taxonomic ...  
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

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was studied and documented in detail using light microscopy (LM) and scanning electron microscopy (SEM). Two distinct pollen types were

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



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### POLLEN MORPHOLOGY OF SELECTED BEE FORAGE PLANTS

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.

Pollen Morphology Of Malvaceae And  
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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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 14 species of *Abutilon* and *Hibiscus* of the ...

Pollen morphology and exine ultrastructure of selected species of *Waltheria* L. (Byttnerioideae-Malvaceae)

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(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 mi-croscopy were treated with  
acetolysis (Erdtman 1960), as modified by Melhem et al.  
(2003), and ...

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

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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

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

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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 ...

Pollen morphology of selected species of the subfamily ...

The present study is based on the pollen morphology of

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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).

[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

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Netherlands) (Received August 28, 1966) SUMMARY The justification for separating the family Bombacaceae from the Sterculiaceae, Malvaceae and Tiliaceae, which ...

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