# Turkish Journal of Botany 

## Turkish Journal

of
Pollen Flora of Pakistan - VIII Leguminosae (Subfamily: Papilionoideae)
Anjum PERVEEN, Muhamad QAISER
Department of Botany, University of Karachi, Karachi-PAKISTAN

## Botany

Keywords
Authors
bot@tubitak.gov.tr

Scientific Journals Home Page

Abstract: The pollen morphology of 157 species, representing 37 genera, of the subfamily Papilionoideae from Pakistan have been examined using light and scanning electron microscopy. Papilionoideae is a eurypalynous subfamily. The pollen grains are generally free, radially symmetrical, isopolar, mostly tricolporate, rarely colpate or porate. The shape is commonly prolate to sub-prolate, or prolate-spherodial, less commonly to oblate-spheroidal or sub-oblate, often perprolate. The ora is commonly la-longate or circular, rarely lolongate. Colpal membrane is psilate to sub-psilate or granulated, often scabrate. The sexine is thicker than or as thick as the nexine. A reticulate tectum type is the most common. However, other tectum types i.e., ru-gulate, foveolate, striate and areolate tectum, are also found in a considerable number of taxa. The delimitation of genera on the basis of pollen characteristics is difficult. However, shape, apertural types and eine ornamentation were found to be more significant pollen characters. On the basis of these charactes 10 distinct pollen type were recognized, namely, Alysicarpus mo- nifilifertype, Astragalus affghanus - type, Colutea armata - type, Dumasia villosa - type, Ebenus stellata - type, Onobrychisstewartii - type, Rhychosia minima - type, Securigera securidaca - type, Taverniera lappacea - type and Vigna trilobata - type. These palynological findings correlate quite well with tribal classification, and most of the tribes were easily recognized pa-lynologically.

Key Words: Pollen morphology, Leguminosae: Papilionoideae, Pakistan.

Turk. J. Bot., 22, (1998), 73-92.
Full text: pdf
Other articles published in the same issue:Turk. J. Bot.,vol.22,iss.2.

