The Comparative Pollen Morphological Characters of Selected *Brownlowia*, *Jarandersonia* and *Schoutenia* Species (*Tiliaceae*) from Peninsular Malaysia and Borneo

E. Chin and A.L. Lim

Institute of Biological Sciences, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia.

The pollen grains of nine species of *Brownlowia*, four species of *Jarandersonia* and four species of *Schoutenia* from Peninsular Malaysia and Borneo were studied using light and scanning electron microscopy. The pollen morphology of *Brownlowia* and *Jarandersonia* are very closely related while pollen grains of *Schoutenia* are distinctly different from the other two genera. The mean polar length and equatorial diameter as well as the shape of the pollen grains could distinguish *Brownlowia* from *Jarandersonia*. In *Brownlowia* the shape of the pollen grains ranges from prolate, oblate to suboblate whereas it is oblate in *Jarandersonia*. Pollen grains of *Brownlowia* [P = (13-) 17 - 28. (-41.6 μ), E = (26-) 29 - 48 (-49 μ)] are generally larger than those of *Jarandersonia* [P = (16) 19 - 25 (- 39 μ), E = (29-) 31 -36 (-39 μ)]. The pollen morphology characters that differentiate *Brownlowia* and *Jarandersonia* from *Schoutenia* are sculpture pattern and the type of apertures. Pollen grains of *Schoutenia* are tetrapantoporate and reticulate with spinules. *Brownlowia* and *Jarandersonia* have pollen morphological characters belonging to the 'Tilia type' and *Schoutenia* belonging to ‘other types’ and did not conform well to ‘tribe Tiliieae’ and ‘tribe Brownlowieae’.