

Labellum and gynostemium micromorphology in *Polystachya* Hook. (Orchidaceae)

Plant Systematics and Evolution

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Online Resource 20. Labellum, gynostemium and petals of *Polystachya rosea* Ridl., **a** Entire labellum, **b-c** Proximal part of labellum clothed with clavate and moniliform trichomes, **d** Proximal part of labellum with conical, obpyriform and villiform papillae, **e** Trichomes on proximal part of the labellum showing fragmentation and detachment of terminal cells. Note that such detachment of terminal cells may result in the formation of “unicellular, cylindrical hairs”. These, however, can be distinguished from intact cylindrical hairs by their truncated appearance and the flattened outer tangential wall (the original cross-wall of the intact bicellular trichome) with its associated, round scar (point of attachment of terminal cell), **f** Details of central part of labellum., **g-h** Epichile with obpyriform and villiform papillae, together with moniliform trichomes, **i** Column-foot with conical and obpyriform papillae. **j** Clavate trichome on ventral column surface, **k** A similar clavate trichome on adaxial surface of petal.

