## Leaf epidermal anatomy of some species of the Fabaceae family from Lao PDR

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## Résumé

The leaf epidermal characteristics of 20 species from 14 genera of the Fabaceaein the Lao PDR were studied; namely Callerya atropurpurea (Wall.) Schot, Crotalaria sessiliflora L., Dalbergia rimosa Roxb., Dendrolobium lanceolatum Schindl., Desmodium heterocarpon (L.) DC., Desmodium styracifolium (Osbeck) Merr., Desmodium triflorum (L.) DC., Droogmansia godefroyana Schindl. ex Gagnep., Flemingia kerrii Craib, Flemingia lineata (L.) W.T.Aiton, Flemingia macrophylla (Willd.) Kuntze ex Prain, Indigofera zollingeriana Miq., Pycnospora lutescens (Poir.) Schindl., Spatholobus parviflorus Kuntze, Tadehagi triquetrum (L.) H. Ohashi, Tephrosia coccinea Wall., Uraria crinita (L.) DC., Uraria lagopodioides (L.) Desv. ex DC., Vigna\_luteola (Jacq.) Benth. and Vigna radiata\_(L.) R.Wilczek. Leaf epidermal peels were prepared from each of the samples. The results indicated that leaf epidermal characteristics, such as the shape of epidermal cells, type of stomata, trichomes and crystals, can be useful for species and generic identifications within the Fabaceae. Based on these characters the Fabaceae can be divided into several groups. For example, based on type of stomata this family can be divided into five groups: 1. Diacytic stomata group; 2. Anisocytic stomata group; 3. Paracytic stomata group; 4. Cyclocytic stomata group; and 5. Anomocytic stomata group. However, leaf epidermal characteristics should be combined with other features of the plant for more accurate identification.

Mots-Clés: anatomy, epidermis, taxonomic study, Fabaceae

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