

## A New Species of *Horsfieldia* Willd. (Myristicaceae) from Papuaia

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### Abstract

Foreman, D. B. A new species of *Horsfieldia* Willd. (Myristicaceae) from Papuaia. *Contrib. Herb. Aust.* No. 10: 45-47, 1974. One new species of *Horsfieldia* is described: *Horsfieldia corrugata*.

### INTRODUCTION

Since James Sinclair's death early in 1968, his unfinished manuscript on the genus *Horsfieldia* has been held at the Botanic Gardens in Singapore. Steps have now been taken to publish as much of his work as possible in a series of papers in the Gardens' Bulletin, Singapore, in the near future. This present paper should be read in conjunction with Sinclair's work as and when it becomes available.

***Horsfieldia corrugata* Foreman sp. nov.**

Fig. 1

Arbor 6-21 m alta. Ramuli teretes, laeves, glabri. Petiolus 4-6 × 2-3 mm, glaber, in siccitate canaliculatus; lamina oblonga ad elliptico-oblonga, 15-29 × 5-8.5 cm, glabra, supra laevis, infra papillosa, basi subattenuata, apice acuminata, costa supra applanata, infra prominenter elevata, nervis secundariis manifestis vel non, reticulationibus utrinque, non prominentibus. Inflorescentia masculina glabra, 4-5 cm longa, ramulis lateralibus alternantibus 1.0-2.5 cm longis floribus 6-10 aggregati apicem ramulorum versus pedicellis 1.5 mm longis. Flores masculini perianthio aurantiaco, glabro, globoso, 3 mm diametro, apice bifido lobis rotundatis; androecium subglobosum, 1.5-2 × 2 mm, sessile, staminibus 22 apice inflexis. Inflorescentia feminea glabra, laxe ramulosa, ramulis lateralibus 3-4 cm longis floribus 3-4 apice cujusque ramuli pedicello 4 mm longo. Flores feminei perianthio aurantiaco, glabro, urceolato, 4.5 × 3 mm, apice bifido lobis acutis; ovarium 3 mm longum, appresse ferrugineo-tomentosum. Infructescentia 3-4 fructus gerenti sed plerumque fructus solitarii. Fructus glabri, usque ad 7 × 6 cm, apice acuti, basi angustati pedicellos breves simulantes, parum lateraliter complanati, pericarpio corrugato et carinato, pustulato, suberoso, 1.0-1.8 cm crasso, unilateraliter dehiscenti rima distincta. Semen pallide brunneum rubro-brunneo maculatum, obovoideum, 3.5 × 3.0 cm; arillus pallide aurantiacus semen omnino obtegens, apice sublobatus. Pedicellus fructifer 10 × 4-5 mm.

Tree 6-21 m tall, without buttresses or stilt roots. Bark grey-brown, finely fissured, inner bark reddish brown, exudate pink, watery. Twigs terete, smooth, glabrous.



Fig. 1. *Horsfieldia corrugata* Foreman. A, twig with immature fruit; B, mature fruit.

Petiole 4–6 × 2–3 mm, glabrous, channelled when dry; lamina oblong to elliptic-oblong, 15–29 × 5–8.5 cm, tip acuminate, base ± attenuate, glabrous, upper surface smooth, lower surface papillose, midrib flattened above, raised and prominent beneath, secondary nerves visible or not, reticulations not prominent on either surface. Male inflorescence glabrous, 4–5 cm long, lateral branches alternate, 1.0–2.5 cm long with 6–10 flowers clustered towards the end of the branches, pedicels 1.5 mm long. Male flowers' perianth orange, glabrous, globose, 3 mm diameter, splitting into two rounded lobes at the apex; androecium ± globose, 1.5–2 × 2 mm, sessile, with 22 stamens inflexed at the apex. Female inflorescence glabrous, laxly branched, the lateral branches 3–4 cm long with 3–4 flowers at the end of each branchlet; pedicel 4 mm long. Female flowers' perianth orange, glabrous, urceolate, 4.5 × 3 mm, split at the apex into two acute lobes; ovary 3 mm long, adpressedly ferruginous-tomentose. Fruits borne singly or, less often, 3–4 on an infructescence, glabrous, up to 7 × 6 cm, apex acute, base narrowed into a short pseudostipe, slightly laterally flattened; pericarp corrugated and flanged, pustular, corky, 1.0–1.8 cm thick, with a distinct line of dehiscence, dehiscing down one side. Seed light brown, speckled with spots of reddish brown, obovoid, 3.5 × 3.0 cm; aril light orange, entirely covering the seed, slightly lobed at the apex. Fruit stipe 10 × 4–5 mm.

*Type:* Foreman & Y. Lelean LAE 52461 (holo LAE!; duplicates sent to L, BRI, CANB, A, K, E & SING were seen before distribution), 21.ix.1973, at 1220 m, near Efogi village, 9°10'S., 143°39'E., Central District, Papua.

*Further specimens seen.* PAPUA: Central District: near Efogi, K. J. White *et al.* NGF 46430; west of Efogi, Foreman & A. Vinas LAE 60020; above Boridi, Foreman & A. Vinas LAE 60086. Milne Bay District: Idup track to Mt Simpson, M. Galore & P. Wood NGF 41016.

*Habitat.* In lower montane forest or fagaceous forest, often on ridges, between 1180 and 1520 m altitude. Flowering September; fruiting July and September.

*Horsfieldia corrugata* is immediately distinguished from all other known species of the genus by its corrugated and flanged fruits. The flowers and leaves do not differ significantly from that normally expected in the genus. *Horsfieldia corrugata* is known only from Papua and its affinities with the other species of the genus in Papuasia and Malesia are rather obscure at this stage.

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