

## THE GENUS *JARANDERSONIA* KOSTERM.

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Since its inception-in 1960, the monotypic genus *Jarandersonia* has been enlarged with a new species in 1962 (*J. spinulosa*). Since then two more collections have come to my attention, which represent undescribed species, one (*S. 15561*) distributed as Bombacaceae, the other (*San 27885*) as *Rinorea* cf. *elmeri* Merr.

Moreover Dr. Anderson of the Forest Department, Kuching, Sarawak, in whose **honour** the genus was named, wrote me that *Brownlowia clemensiae* had been collected with fruit, which proved in to be a *Jarandersonia*, a fact, already suggested by Dr. P. Ashton in a draft MSS prepared for the Manual of Non-Dipterocarp Trees of Sarawak.

Together with Dr. Anderson I had the opportunity to see a mature tree of the latter species near Kuching in June 1969 (*S. 25415*).

The genus comprises now 5 species (*J. clemensiae*, *parvifolia*, *purseglovei*, *rinoreoides* and *spinulosa*).

### *Jarandersonia rinoreoides* Kosterm., *sp. nov.* — Fig. 1.

Arbor ramulis gracilis pallidis lepidotis foliis alternantibus **ovalis** rigide chartaceis basi breve acutis apice acuminatis supra glabra nervo mediano subimpresso costis filiformibus prominulis subtus dense adpresse lepidotis nervo mediano prominentibus costis prominulis petiolis **brevis** lepidotis infructescentiis terminalis et axillaris laxis lepidotis **fructus** dense spinulosis spinulis setosis.

Tree 15 m, diam. 40 cm with fluted base and thin buttresses, 3 m out, forked; outer bark thin, inner one pale ochre, 3 mm; sapwood **dirty** yellow. Branchlets slender, pale with scattered non fimbriate scales. Leaves spirally arranged, oval or elliptic, 6 x 13 — 8.5 X 20 cm, stiffly chartaceous, base shortly acute, apex shortly acuminate; upper surface glabrous, densely smoothly subareolate (under high power lens), midrib slender, slightly impressed; the ca 9 pairs of lateral nerves filiformous, prominulous, secondary nerves faintly indicated; lower surface pale, covered with a dense layer of tiny, long-fimbriate scales; midrib prominent, lateral nerves slender, prominulous, slightly arcuate, reticulation faint. Petioles 8—10 mm, slender, densely covered by non-fimbriate scales.

Infructescences paniculate, axillary and terminal, lax, the **partial** ones ca 5 cm long, ultimate branchlets very slender, densely **minutely**

stellate-pilose; fruit ca 5 mm diam., spines up to 15 mm, slender, straight, covered with setose hairs. Petals spatulate, 6 mm long.

TYPUS: *San 27885* (SAR).

N. BORNEO (SABAH). Distr. Sandakan, Tabin, W. of Sulap, 1 mile from 1961 coupe, Oct., fr., *San 27885* (SAR).

***Jarandersonia clemensiae* (Burr.) Kosterm., *comb. nov.***

*Brownlowia clemensiae* Bufret (basionym) in Notizbl. bot. Gart. Berlin 13: 252. 1936; Kostermans in Communic. For. Res. Inst. Bogor 73: 29, fig. 23. 1961. — Typus: *Clemens 22202* (K).

SARAWAK. 10% mile Peni-issen Road, on roadside at edge of rubber gardens, tree 17 m, 40 cm diam., bole fluted, bark grey, corolla and stamens white, Oct., fl., Dec, fr., *Anderson S. 25415* (BO, K, L); according to Anderson the fruit seems to be weakly dehiscent.

The short bole of the tree sighted by me is extremely, narrowly fluted, merging into forked, thin, snakelike numerous roots over the soil; the insertion of the very tough branches is thickened.

***Jarandersonia parvifolia* Kosterm., *sp. nov.* — Fig. 2.**

Arbor ramulis gracilis griseis striatis minutissime lepidotis foliis alternantibus rigide chartaceis ovalis vel ellipticis longe graciloque acuminatis basi breve acutis supra nitida nervo mediano impresso costis filiformis subtus pallidiora squamulis perdensis minutissimis obtectis nervo mediano prominentibus costis pergracilis arcuatis petiolis gracilis infructescentiis terminalis ferrugineo lepidotis fructus spinis dense obtectis spinis longe setosis.

Tree, 30 m high, 25 cm diam. Branchlets slender, grey, longitudinally sulcate (striate), apical part with minute, non-fimbriate scales. Leaves spirally arranged, oval or elliptical, 2 X 6 — 3.5 X 9 cm, stiffly chartaceous, apex with a long and slender, up to 1 cm long acumen, base shortly acute; upper surface glabrous, microscopically areolate, midrib impressed, the rather numerous lateral nerves very slender, prominulous; lower surface paler with a dense, strongly adpressed layer of minute, shortly fimbriate scales, midrib prominent, lateral nerves ca 6 pairs, filiformous, prominulous, arcuate near the margin, the lowest pair often slightly ascending, reticulation not visible. Petioles slender, ca 1 cm long, minutely lepidote.

Infructescences pseudo-terminal, up to 20 cm long, paniculate, lax, rusty lepidote (scales of the ultimate, slender ramifications merging into stellate hair like scales). Fruit globose, up to 2.5 cm diam., covered with numerous lepidote, slender spines, up to 1 cm long, which bear in turn strong setose hairs on thickened bases.

TYPUS: *S. 15561* (BO).

SARAWAK. Bintulu, Segan Forest Reserve, primary hill forest, Nov., fr., *Bias Paie S. 15561* (A, BO, K, L, SAN, SAR, SING).



Fig. 1 *Jarandersonia rinoreoides* Kosterm. (after holotypus).



Fig. 2. *Jarandersonia parvifolia* Kosterm. (after holotypus).