

Kiew 1995a

**Didymocarpus miniatus (Gesneriaceae), a new species from
Peninsular Malaysia.**

Novon 5: 40-41.

REFNO: 2384

KEYWORDS:

Didymocarpus, Malaysia

Vol
19:

IR
Da
sp

Lit
Ki

Didymocarpus miniatus (Gesneriaceae), a New Species from
Peninsular Malaysia

Ruth Kiew

Department of Biology, Universiti Pertanian Malaysia, 43400 UPM Serdang,
Selangor, Malaysia

ABSTRACT. *Didymocarpus miniatus* (Gesneriaceae), a new species in *Didymocarpus* sect. *Heteroboea*, is described from Bukit Bauk in Trengganu, Peninsular Malaysia.

Didymocarpus miniatus Kiew, sp. nov. TYPE: Peninsular Malaysia. Trengganu: Bukit Bauk, R. Kiew RK 3792 (holotype, UPM; isotypes, L, SING).

Differt a Didymocarpo atosanguineo Ridley foliis petiolatis, pedunculis brevioribus et floribus omnino miniatis.

Herb. Stem woody, up to 1 m tall and 0.7 cm thick. Indumentum of young stem, petioles, and lower surface of veins silky ferrugineous with uniseriate 3-4-celled trichomes ca. 1.5 mm long. Leaves petiolate, spirally arranged on the upper 4-12 cm of stem, separated by internodes up to 2 cm long. Lamina oblanceolate, (15-)17-24 × (5.5-)6-10 cm, apex acuminate, acumen 1-2 cm long, strongly narrowed to base, drying chartaceous, margin crenate. Indumentum of 2-celled uniseriate hairs ca. 0.5 mm long, dense and roughly velvety above, less dense beneath, in life dark green above and pale grayish green beneath. Midrib prominent above and beneath, secondary veins 20-21 pairs, plane above and prominent beneath, tertiary veins obscure above, prominent beneath, areoles near the midrib irregular in shape, those toward the margin rectangular. Petiole (1.5-)2(-3) cm long. Flowers solitary. Peduncle slender, 6-12 mm long. Bract pairs ligulate, 3 mm long, finely hairy. Calyx divided to base, lobes linear, 4 mm long, densely hairy. Corolla completely vermilion with two yellow longitudinal nectar guides in the base of the throat, finely pubescent outside, hairs glandular uniseriate, 2-3-celled stalk up to 0.5 mm long, nectar guides with scattered minute ellipsoid vesicles, tube 2.5-3.7 cm long, narrow, 3-4 mm wide in the lower half, dilating distally to 10 mm wide, lobes 5, broadly rounded, upper two 4 × 7 mm, lower three 8 × 6 mm and projecting beyond the upper two. Stamens 2, filament slender, 10 mm long, anthers white, oblong, 2 × 1 mm, connivent, positioned within corolla tube. Ovary 5 × 0.5 mm,

style slender, 30 mm long, densely pubescent with glandular hairs, stigma discoid, peltate, 1 mm across. Nectary encircling base of ovary. 0.75 mm high, distally lobed for ca. one-third of its length. Capsule slender, 7.5-8 cm long, finely pubescent when young.

Among the 85-odd *Didymocarpus* species in Peninsular Malaysia, only *D. miniatus* has completely vermilion flowers. Only one other species, *D. atosanguineus*, has flowers with red lobes, but its corolla tube is usually cream-colored. (One or two plants of this latter species in Sekayu Forest Reserve, Trengganu, produce flowers that are completely red, but they are deep crimson not vermilion.) In lamina indumentum, *D. miniatus* most closely resembles the broad-leaved form of *D. atosanguineus* (Kiew, 1989), but it is readily distinguished from this form by its petiolate leaves.

Didymocarpus miniatus belongs to section *Heteroboea*, which includes species with large, trumpet-shaped, solitary flowers and large oblanceolate leaves (Ridley, 1923). However, it is atypical of this section, in which the species have leaves with a winged petiole, by its petiolate leaves. In addition, *D. miniatus* is distinct in its short peduncles, 0.6-1.2 cm long, as opposed to peduncles 2.5-10 cm long in other species in this section.

In common with other large tubular *Didymocarpus* flowers (Kiew, 1992), the stigma in *D. miniatus* is discoid and peltate, and the nectary is large and cylindrical (although it is the first species in section *Heteroboea* to be described with a lobed nectary). The glandular indumentum on the style resembles that of *D. quinquevulnerus* Ridley, which is also a member of section *Heteroboea*.

Didymocarpus miniatus has an extremely local distribution, at the foot of Bukit Bauk, where it grows on slopes above small swampy areas or seasonal streams, and at about 20 km south on Bukit Chabang, 5 km inland of Kerteh (G. W. H. Davison, pers. comm.). Both of these hills belong to the same coastal sandstone formation.

Paratypes. PENINSULAR MALAYSIA. Bukit Bauk, S. Anthony SA 602 (UPM), G. W. H. Davison GD5 (UPM), K. M. Kochumen KEP 9491 (KEP).

Acknowledgments. This work was supported by IRPA grant number 4-07-05-813. I thank Geoffrey Davison, who first drew my attention to this new species.

———. 1992. Five new species of *Didymocarpus* (Gesneriaceae) from Peninsular Malaysia. *Gard. Bull. Singapore* 44: 23-42.
Ridley, H. N. 1923. *Didymocarpus*. *Flora Malay Peninsula*. 2: 506-523. Reeve, London.

Literature Cited

Kiew, R. 1989. *Didymocarpus* (Gesneriaceae) on Gunung Tahan, Malaysia. *Gard. Bull. Singapore* 42: 47-64.

from

dang,

pubescent with
e, 1 mm across.
0.75 mm high,
length. Capsule
all when young.

pus species in
iatus has com-
e other species,
h red lobes, but
olored. (One or
Sekayu Forest
rs that are com-
n not vermilion.)
us most closely
D. atrosangui-
ily distinguished
es.

s to section *Het-*
h large, trumpet-
lanceolate leaves
pical of this sec-
es with a winged
ddition, *D. min-*
les, 0.6-1.2 cm
: 1.0 cm long in:

tubular *Didymo-*
stigma in *D. min-*
e nectary is large
e first species in
ed with a lobed
tum on the style
rus Ridley, which
obocea.

n extremely local
uk, where it grows
areas or seasonal
ith on Bukit Cha-
. W. H. Davison,
elong to the same

AYSIA. Bukit Bauk,
W. H. Davison GDS
11 (KEP).