

A NEW *CREPIDIUM* SPECIES (ORCHIDACEAE, MALAXIDINAE) FROM SARAWAK, BORNEO

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Abstract: A new species of *Crepidium* Bl. (Orchidaceae, Malaxidinae) is described from Sarawak, Borneo. Its taxonomic affinity is briefly discussed. Additionally, 5 new combinations at the species level are validated.

Key words: Magnoliophyta, Liliopsida, Orchidaceae, *Crepidium*, taxonomy, Borneo

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Revising herbarium materials of the subtribe Malaxidinae (Orchidaceae) kept in the Royal Botanic Gardens in Kew, we examined some spirit collections which represent a new species, described below.

Crepidium mieczyslawi Marg., sp. nov. (Fig. 1)

Folia pagina superiore maculata. Flores longe pedunculati. Labellum hippocrepiforme ellipticum, margine superiore cum 3–4 dentibus lateralibus brevibus falcatis et dente apicali rotundato, auriculis basalibus falcatis.

Plants 15–20 cm high. Rhizome several cm long, 1.0–3.6 mm in diameter, creeping, rooting, covered with remainder of old leaf sheaths and scales. Pseudobulbs about 5 cm high, erect, usually covered by leaf sheaths. Leaves 3.5–8 cm long, 2.0–4.5 cm wide, broadly ovate to ovate, basally nearly obcordate, attenuate, acute to acuminate, sometimes with crispate to plicate margins, 3–5-nerved, pale green beneath, dull green spotted above, spots big and irregular, brighter and smaller near margins. Floral bracts 3–8 mm long, 0.8–1.5 mm wide, lanceolate to narrowly triangular, attenuate, acute, dark purple to greenish purple. Inflorescence 8–15 cm high, racemose; peduncle 2–4 cm long, 1.0–1.8 mm in diameter; rachis 10–20-flowered, purple. Ovary and pedicel 7–8 mm long, white to pale greenish, sometimes with purplish tint. Flowers 7–8 mm long, 5–7 mm wide, pinkish, purple to cream-green. Tepals widely

spread to slightly recurved, their basal parts sometimes brighter or even whitish. Lateral sepals 4.8–5.0 mm long, 2.9–3.2 mm wide, oblique, ovate, obtuse to subacute, 3-nerved, purple. Dorsal sepal 5.0–5.3 mm long, 2.0–2.5 mm wide, broadly ovate, obtuse, 3-nerved, dark purple. Petals 4.9–5.1 mm long, 0.9–1.0 mm wide, lanceolate, asymmetrically retuse, inrolled, 1-nerved, dark purple. Lip 4.9–5.1 mm long, 3.4–3.6 mm wide, hippocrepiform, elliptic to obovate in outline; distal margins dentate, with 3–4 short, broad and falcate teeth, the middle one being broadest and semi-orbicular in outline; lateral lobes with falcate auricles, obtuse to round, crossing together at apex; cavity 1.6–1.8 mm long, 0.6–0.8 mm wide, oblong, deep, with retuse callus at base; central part dark purple, brighter or pinkish near margins. Gynostemium 1.3–1.5 mm long, 1.0–1.2 mm wide, white at base, pink to green at apex. Anther white to whitish.

TYPE: INDONESIA. BORNEO. Sarawak, Bario District, between Bukit Buli and Bukit Lawi, South West Limbang, 21.03.1985, A. Lamb AL. SAR. 206/86 (HOLOTYPE: K).

OTHER SPECIMENS SEEN: INDONESIA. BORNEO. Sabah, Mount Kinabalu, Penibukan, ridge West of camp, 07.02.1933, J. & M. S. Clemens 31513 (K); Wet base of wall, on high bench N of Pinakok falls, 27.10.1933, J. & M. S. Clemens 40926 (K); Ridge East of Penibukan, 13.03.1933, J. & M. S. Clemens 33026, 40252 (BM).

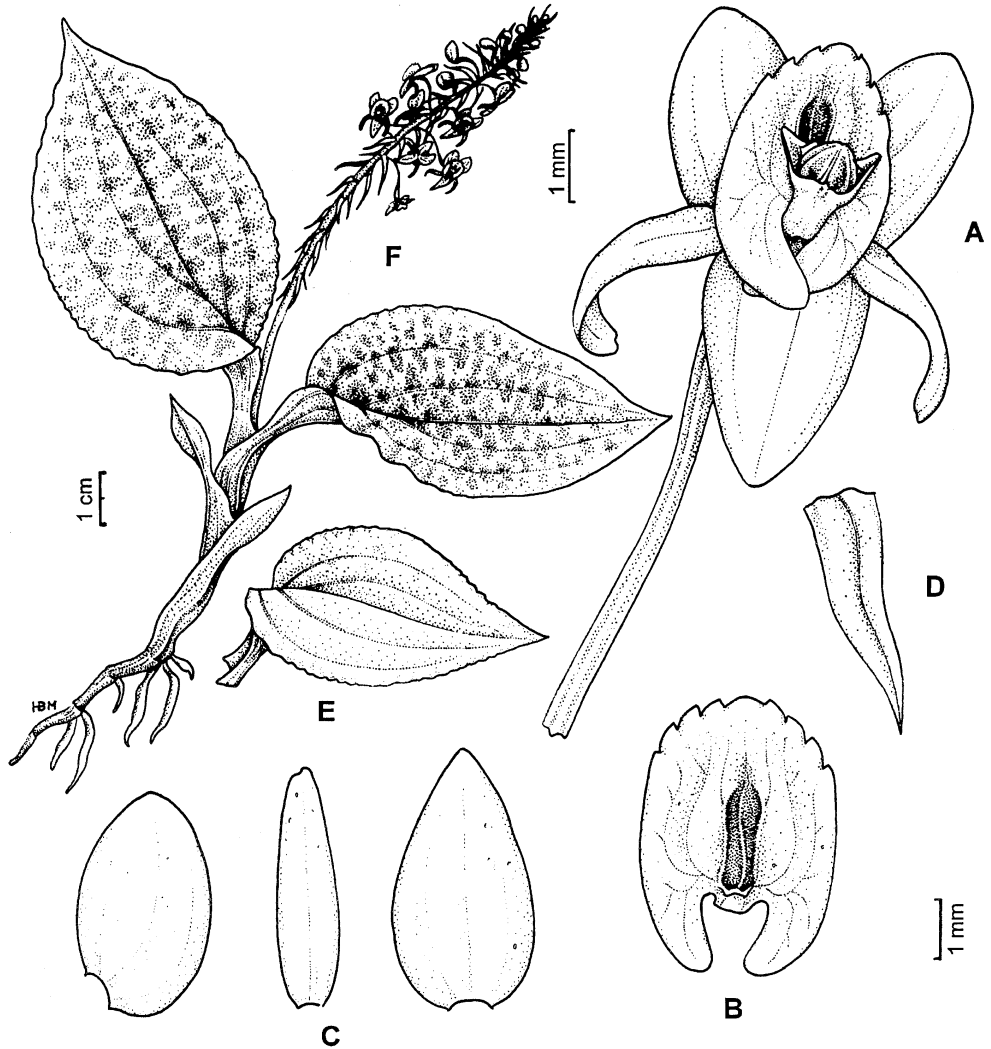


Fig. 1. *Crepidium mieczyslawii* Marg., sp. nov. A – flower, B – lip, C – tepals, D – floral bracts, E – leaf, F – plant with inflorescence (drawn from holotype K – spirit. coll., A. Lamb AL. SAE. 206/86).

ETYMOLOGY. Named in honor of Mr. Mieczysław Margoński.

ECOLOGY. Terrestrial, in shaded places; in jungle, wet, tropical, montane forest, with *Calanthe masuca*; on sand soil, in leaf litter. Flowering plants collected in October, February and March.

DISTRIBUTION. Known so far from Sarawak and Sabah (Borneo). Alt.: 1.200 – 2.100 m.

NOTE. Vegetatively the new entity is similar to *Crepidium punctatum* (J. J. Wood.) Szlach., but has characteristic, much larger, irregular, dull and dark green spots on leaf blades. Its lip also differs in having a toothed distal margin.

In the course of our studies on *Crepidium* Bl. it appeared obvious that some new combinations on the species level should be validated.

Crepidium auratum (Ridl.) Marg. & Szlach.,
comb. nov.

Basionym: *Microstylis aurata* Ridl., Journ. As. Soc. Straits. **49**: 27. 1908.

Crepidium cordifolium (Rolfe) Marg. & Szlach.,
comb. nov.

Basionym: *Microstylis cordifolia* Rolfe, Kew Bull. **1899**: 127. 1899.

Crepidium cupreum (J. J. Sm.) Marg. & Szlach.,
comb. nov.

Basionym: *Microstylis cuprea* J. J. Sm., Bull. Jard. Bot. Buitenz., Ser. 2, **26**: 23. 1918.

Crepidium hippocrepiformis (J. J. Wood) Marg. & Szlach., *comb. nov.*

Basionym: *Malaxis hippocrepiformis* J. J. Wood, Orchid Rev. **89**(1053): 209. 1981.

Crepidium ramosum (J. J. Sm.) Marg. & Szlach.,
comb. nov.

Basionym: *Microstylis ramosa* J. J. Sm., Ic. Bogor. **1**: 108, f. 1903.

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