# Bulbophyllum jiewhoei (Orchidaceae), a New Species of Unknown Origin

## J.J. VERMEULEN

Singapore Botanic Gardens Singapore 259569

## AND

## P. O'BYRNE

17 Jalan Layang Layang Singapore 598483

#### **Abstract**

Bulbophyllum jiewhoei, sp. nov. (sect. Sestochilus) is described. The description is based on a single, cultivated specimen. Although the provenance of the plant is unknown, it undoubtedly originates from East or South East Asia, possibly excluding Malesia.

## Introduction

Most species of the orchid genus *Bulbophyllum* have little horticultural value and are grown and appreciated by a small group of aficionados only. Some species of sect. *Sestochilus*, however, have found a wider audience as curiosities that occasionally reward the owner with flowers of unusual colour and shape. Examples are *B. dearei* Rchb. *f.*, *B. lobbii* Lindl., *B. macranthum* Lindl., and *B. patens* King. Earlier this year, a plant representing a new species of sect. *Sestochilus* was brought to the attention of the authors. Although its flowers are somewhat smaller than the species mentioned above, it certainly has potential as a miniature orchid for the hothouse. It is described below.

In the diagnosis below, the type specimen is cited with the abbreviation 'SBG-O', short for 'Singapore Botanic Gardens Orchid Collection', a number series introduced for the administration of the collection of living orchids in the Gardens.

## Bulbophyllum jiewhoei J.J. Verm. & O'Byrne, sp. nov. — Fig. 1.

Bulbophyllum jiewhoei J.J. Verm. & O'Byrne, a Bulbophyllo griffithii Rchb.f. et B. yunnanensi Rolfe sepalis petalisque acuminatis, labello auricula carenti differt. — TYPUS: Origin unknown, SBG-O 86 (SING, holo.).

Rhizome creeping, 4-5 mm diam.; bracts soon withering, only fibres remaining. Roots present along the entire rhizome. Pseudobulbs 1-leafed (see note below), ellipsoid or ovoid, 0.8-1.7 cm apart, 1.4-2 by 0.8-1 cm, somewhat flattened, obtusely 5—6-angled. *Petiole* 9—16 mm long. *Leaf blade* elliptic to ovate, 6—11 by 1.9—2.7 cm, index (length/width) 2.7—4.8, obtuse, very thick, midrib not prominent. Inflorescence single, 7—8 cm, 1-flowered. Peduncle 2—3.7 cm; bracts 3, the longest c. 10 mm. Floral bracts ovate, c. 13 mm long, acuminate. Pedicel and ovary c. 20 mm long. Flowers widely opening. Median sepal ovate, c. 24 by 10 mm, index c. 2.4, acuminate, thin, glabrous. Lateral sepals oblique, with a slight twist towards the tip so that the lower margin turns upwards, c. 41 by 12 mm, index c. 3.4, slightly thickened towards the tip; otherwise as the median sepal. Petals oblique, elliptic, c. 19 by 7 mm, index c. 2.7, acuminate, margin erose-papillose; thin; surface glabrous. Lip recurved approx. half-way, general outline triangular, c. 9 by 4.5 mm, index c. 2, obtuse, thick, glabrous; adaxially slightly concave near the base, with 2 parallel ridges starting near its base and continuing over 2/3 of its length, with the median part channelled towards its base; abaxially with a distinct, retuse median ridge. Column from ovary to the tip of the stelidia c. 5.5 mm; stigma not protruding at its base, elliptic; column foot without accessories. Stelidia triangular, c. 1.4 mm, acute, with an obliquely forwards directed, deltoid, obtuse tooth along the upper margin, with an inconspicuous, rounded wing along the lower margin. Anther abaxially with an obtuse ridge near its base; front margin somewhat drawn out, erose, somewhat concave. Pollinia 4, of about equal length, all flattened but the inner pair more so than the outer; stipes absent. Colours: pseudobulbs olive green; leaves dark green. Flowers creamy white, slightly greenish in the centre. Median sepal and petals stained with purple, particularly towards the margins, and with purple spots aligned along the veins; lateral sepals similarly but much more sparsely marked with purple; lip and column face finely stained with purple. Flowers with a somewhat spicy scent.

Distribution and habitat: unknown. Undoubtedly from East or South East Asia, possibly excluding Malesia.

Notes: Part of a small species group within sect. Sestochilus characterised by 1- or 2-flowered inflorescences and finely erose or papillose petals: B. griffithii Rchb. f. (India), B. lasiochilum Parish & Rchb. f. (Myanmar, Thailand, Malaysia), and B. yunnanense Rolfe (China). Bulbophyllum griffithii and B. yunnanense are most similar, but differ in having obtuse to acute sepals and petals, and in having a lip with small lateral lobes.

The plant from which the type specimen was taken had some

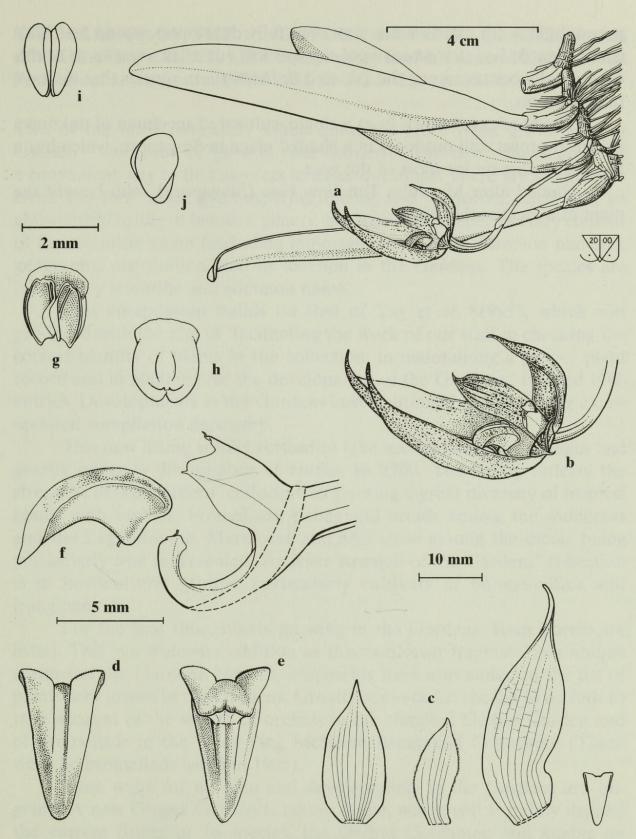


Figure 1. Bulbophyllum jiewhoei J.J. Verm. & O'Byrne

a. Habit; b. Flower; c. Flower analysis, from left to right: median sepal, petal, lateral sepal, lip; d. Lip, adaxial side; e. Lip, abaxial side; f. Column and lip, lateral view; g. Anther, adaxial side; h. Anther, abaxial side; i. Pollinia; j. Pollinia, single pair. All from *SBG-O 86* (living plant, spirit sample).

pseudobulbs with a rudimentary or even fully developed second leaf. This is not regarded as characteristic of the species, but as an aberration as this occasionally occurs among the 1-leafed *Bulbophyllum* species that we have in cultivation.

The species is known from a single, cultivated specimen of unknown origin. It grows well outdoors in a shaded place in Singapore, which has a hot, damp climate for most of the year.

Named after Mr. John Tan Jiew Hoe (Singapore), who bought the plant at a local orchid show.



Vermeulen, J. J. and O'Byrne, Peter. 2000. "Bulhophyllum jiewhoei (Orchidaceae), a new species of unknown origin." *The Gardens' bulletin, Singapore* 52, 293–296.

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