

## Nomenclatural Changes for Four Malayan Species in *Phrynium* (Marantaceae), *Solanum* (Solanaceae), *Stachyphrynium* (Marantaceae) and *Boesenbergia* (Zingiberaceae)

I.M. TURNER

Center for Ecological Research  
Kyoto University  
Shimosakamoto  
Otsu  
520-0105 Japan

### Abstract

A new name is provided to substitute for a later homonym in Marantaceae. *Phrynium venustum* I.M. Turner, *nom. nov.*, replaces *Phrynium gracile* Holttum. *Solanum maingayi* Kuntze (Solanaceae) is shown to be the correct name for what has generally been referred to as *Solanum sarmentosum* Nees. *Stachyphrynium cylindricum* K. Schum. (Marantaceae) and *Boesenbergia flava* Holttum (Zingiberaceae) have to be considered new names because they were published as new combinations based on later homonyms. These illegitimate names, *Phrynium cylindricum* Ridl. and *Gastrochilus flavus* Ridl., are lectotypified.

### A new name for a Malayan *Phrynium*

In his monograph of the Malayan Marantaceae, Holttum (1951) described a new species from the freshwater swamp forests of Johore as *Phrynium gracile*. Unfortunately, this combination had already been employed by Schumann for a species from New Guinea. A new name is provided for the Malayan plant.

***Phrynium venustum*** I.M. Turner, *nom. nov.*

*Phrynium gracile* Holttum, Gard. Bull., Singapore 13 (1951) 282, *nom. illegit.*, *non* K. Schum. (1905). *Type*: Peninsular Malaysia, S.E. JOHORE, Mawai-Jemaluang Road, Sungai Kayu Ara, E.J.H. Corner S.F.N. 29981, 5 January 1935 (holotype, SING!; isotype, K!).

Holttum *loc. cit.* gives the collecting locality of the type (Corner S.F.N. 29981) of this species as an uncertain site in Southeastern Johore, and refers to another, unnumbered, Corner collection from Sungai Kayu Ara. However, S.F.N. 29981 specimens at SING and K are both clearly labelled as originating from Sungai Kayu Ara. This anomaly is not easily explained.

### The correct name for *Solanum sarmentosum*

The prickly, prostrate Malayan nightshade generally known as *Solanum sarmentosum* Nees cannot correctly be referred to as such, as the combination was used earlier by Lamarck. Ridley, in his *Flora of the Malay Peninsula* synonymized *Solanum maingayi* Kuntze to *S. sarmentosum* Nees. Inspection of the type of Kuntze's species at Kew confirmed the correct placement by Ridley, and hence means that the Malayan plants must be referred to as *Solanum maingayi*.

*Solanum maingayi* Kuntze, Rev. Gen. Pl. 2 (1891) 454. Type: Peninsular Malaysia, MALACCA, A.C. Maingay 1158, 1867 (holotype, K!).

*Solanum sarmentosum* Nees, Trans. Linn. Soc. London 17 (1837) 58, *nom. illegit.*, *non* Lam. (1794).

### The correct citation for *Stachyphrynium cylindricum*

*Stachyphrynium cylindricum* is a member of the Marantaceae found growing on limestone in the Malay Peninsula (Holtum 1951). The combination was published by Schumann based on Ridley's *Phrynium cylindricum*. However, this is an illegitimate later homonym. The International Code for Botanical Nomenclature Article 58.1 allows a new combination based on a later homonym to be considered as an avowed substitute (*nomen novum*) or a new name. As Schumann clearly intended to make a new combination based on the type of *Phrynium cylindricum* Ridl., *Stachyphrynium cylindricum* should be considered a *nomen novum* for the former. Ridley did not designate a holotype from among the two collections of *Phrynium cylindricum* he cited. I therefore take this opportunity of lectotypifying the species.

*Stachyphrynium cylindricum* K. Schum., *nom. nov.*, Pflanzenr. 4 (1902) 49; Holtum, Gard. Bull., Singapore 13 (1951) 278.

*Phrynium cylindricum* Ridl., J. Straits Branch Roy. Asiat. Soc. 32 (1899) 178, *nom. illegit.*, *non* Roscoe (1828). Syntypes: Peninsular Malaysia, Perak, Ipoh, C. Curtis 3318, August 1898 (SING!, 2 sheets); Kwala Dipang, H.N. Ridley 9787, 1898 (lectotype, selected here, K!).

### The correct citation for *Boesenbergia flava*

An identical nomenclatural circumstance to the previous example surrounds the Malayan endemic ginger *Boesenbergia flava*. Holtum transferred the

species from its original position in *Gastrochilus*, where it was a later homonym. Therefore, the combination must be considered a *nomen novum* with the same epithet as the illegitimate basionym. *Gastrochilus flavus* Ridl. is lectotypified.

***Boesenbergia flava*** Holttum, *nom. nov.*, Gard. Bull. Singapore 13 (1950) 113.

*Gastrochilus flavus* Ridl., Fl. Malay. Penins. 4 (1924) 248, '*flava*', *nom. illegit.*, *non* (Hook.f.) Kuntze (1887). *Syntypes*: Peninsular Malaysia, PERAK, Batang Padang, C. Curtis *s.n.* (lectotype, selected here, K!); Bujong Malacca, H.N. Ridley *s.n.*, September 1898 (SING!); Bukit Kepaiyang, H.N. Ridley *s.n.*, February 1904 (SING!).

### Acknowledgements

The Director of the Singapore Botanic Gardens and the Keeper of the Herbarium, Royal Botanic Gardens Kew, kindly allowed the author access to the collections in their respective herbaria. Martin Cheek, Jill Cowley and Alan Paton are thanked for their help at Kew. An anonymous reviewer and Dr K. Gandhi provided invaluable assistance with nomenclature.

### References

Holttum, R.E. 1951. The Marantaceae of Malaya. *Gardens' Bulletin, Singapore* **13**: 254–296.