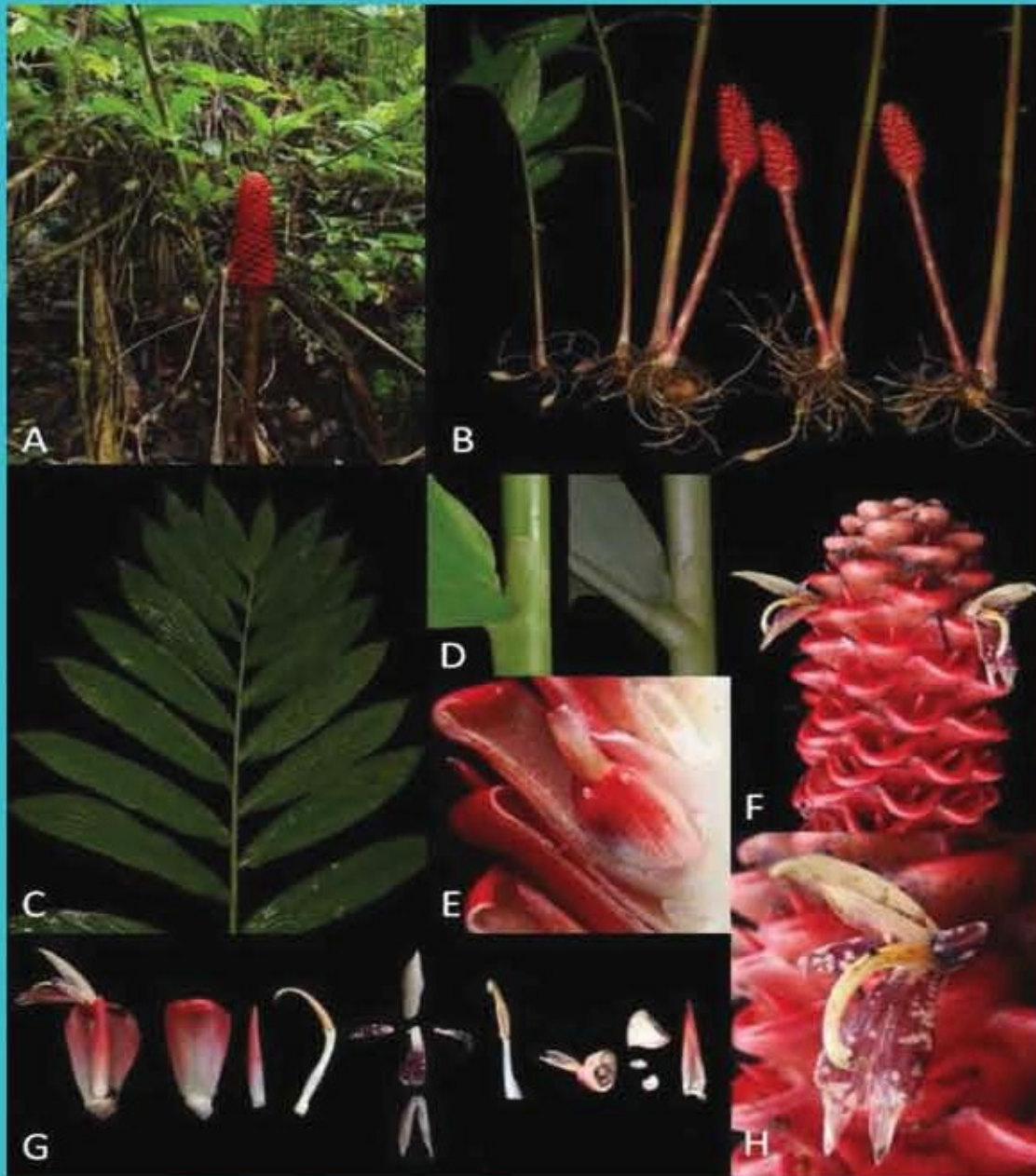




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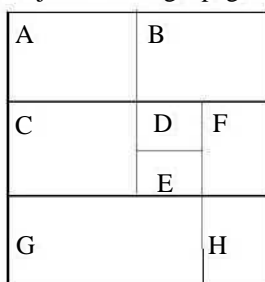
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Cover images: *Zingiber engganoensis* Ardiyani. A. Habit B. Leafy shoot and the inflorescence showing rhizomes, roots and root-tuber C. Leaves D. Ligule and swollen petiole E. Dissection of inflorescence showing fruit F. Spike and flowers G. Dissection of flowers and fruits showing bract, bracteole, two lateral staminodes, two petal lobes, labellum, and the four appendages of the anther H. Flower. Source of materials: E190 (BO). Photo credits: B, C, D by Arief Supriatna. A, E, F, G, H by Marlina Ardiyani.

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***ASPLENium TENERUM* VAR. *PALLIDUM* IS THE CORRECT NAME FOR *A. THUNBERGII* VAR. *BELANGERI* (ASPLENIACEAE)**

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ABSTRACT

VELDKAMP J. F. & WARDANI, W. 2015. *Asplenium tenerum* var. *pallidum* is the correct name for *A. thunbergii* var. *belangeri* (Aspleniaceae). *Reinwardtia* 14(2): 303 – 306. — *Asplenium tenerum* G. Forst. var. *pallidum* (Blume) Veldk. & Wardani, comb. nov. (Aspleniaceae), is the correct name for what usually is known as *A. thunbergii* Kunze var. *belangeri* (Bory) Kunze. Types are designated.

Keywords: *Asplenium*, nomenclature, Pteridophyta.

ABSTRAK

VELDKAMP J. F. & WARDANI, W. 2015. *Asplenium tenerum* var. *pallidum* adalah nama yang diterima untuk *A. thunbergii* var. *belangeri* (Aspleniaceae). *Reinwardtia* 14(2): 303 – 306. — *Asplenium tenerum* G. Forst. var. *pallidum* (Blume) Veldk. & Wardani, comb. nov. (Aspleniaceae) adalah nama yang benar untuk jenis yang dikenal sebagai *A. thunbergii* Kunze var. *belangeri* (Bory) Kunze. Spesimen-spesimen tipe ditunjuk dalam tulisan ini.

Kata kunci: *Asplenium*, Pteridofita, tata nama.

INTRODUCTION

A fern widespread from the Seychelles to South-east Asia, Southern China, Northern Australia, to the Caroline Isl., Fiji, Marquesas, Tahiti, and occasionally cultivated world-wide is known with different varietal names of *Asplenium tenerum* G. Forst. (1786) (Aspleniaceae), or recognized at the specific level as *A. belangeri* (Bory) Kunze (1848), or *A. thunbergii* Kunze (1836). The best known name seems to be *A. thunbergii* Kunze var. *belangeri* (Bory) Kunze. However, the correct name turned out to be a nomenclatural Gordian knot, which we have tried to unravel here.

A chronological sequence of publications seemed most appropriate, which have to be interspersed with later publications in an attempt at clarification of the consequences. The nomenclatural articles cited here are according to the International code of nomenclature (ICN: McNeill *et al.*, 2012).

1786. *Asplenium tenerum* G. Forst. is the oldest name for the species. — Lectotype: *Forster s.n.* (UPS, T-24851; not found in BM, K, S, W), fide Nicolson & Fosberg (2004), designated here.

1795. *Caenopteris auriculata* Thunb. was thought to have been collected in the Cape of Good Hope. Kunze (1836) renamed it to *Asplenium thunbergii* because of *A. auriculatum* Sw. (1817). Schelpe (1965) examined Thunberg's type specimens and concluded that they were mislabelled and represent *A. belangeri* (Bory)

Kunze from Java and thus provide the earliest name at the specific level for it. Roux (1986) followed this conclusion.

1827. Blume misapplied *Darea furcata* (P. J. Bergius, 1786) Willd. (1810), and often he is cited as if he had described a new species. In fact he did not do so: he misidentified his Javanese specimens with Bergius's species originally described from Bourbon (Réunion). He distinguished three new varieties without references to previous literature and they are validly published. Remarkably, these names are not or exceptionally mentioned in the usual reference works and local floras.

As Willdenow also cited *Lonchitis bipinnata* Forsskal (1775) as a synonym, *D. furcata* is a superfluous name and Blume did not create an (unpublished) autonym that would have had priority. It is stated in the code that superfluous names have no autonym (Art. 26.1).

Darea furcata is derived from *Caenopteris furcata* P.J. Bergius (1786) and currently regarded to be a synonym of *A. rutifolium* (P.J. Bergius) Kunze, but at the specific level the correct name should be *A. bipinnatum* (Forsskal) Kunze.

Darea furcata Willd. var. *elongata* Blume, Enum. 2: 207. 1827. — Lectotype: *Blume s.n.* (L, holo, sh. 908.317-427), designated here.

Asplenium tenerum var. *elongatum* ("elongata") (Sw.) Beddome ex Rosenstock (1908) appeared in a list of names of ferns collected by E. Werner in New Guinea. There is an *A. elongatum* Sw. in various Beddome publications (1863, 1892) which for some reason he regarded as a new combination. We found no var. *elongatum* Beddome. He recognised only the var. *acuminatum* Hook., based on *A. doreyi* Kunze (1837).

Rosenstock (1911) did see the Blume material of var. *elongata* in L and we suspect he erred when citing Beddome. Van Alderwerelt (1916) erroneously cited this (in synonymy) as *A. tenerum* var. *elongatum* Rosenst. Neither mentioned Blume's name.

This does not seem to be a new combination by Beddome, as it is *A. elongatum* Sw. (1806). This was regarded as a synonym of *A. tenerum* by Mettenius (1866), Van Alderwerelt (1916), and Copeland (1960). We thought it best to avoid this combination because of these dubious uses.

Darea furcata Willd. var. *rigida* Blume, Enum. 2: 207. 1827. — Lectotype: *Blume s.n.* (L, holo, sh. 908.317-457), designated here.

Darea furcata Willd. var. *pallida* Blume, Enum. 2: 207. 1827. — Lectotype: *Blume 1068* (L, holo, sh. 908.317-384), Java, Cibitung waterfall, designated here.

The choice here between var. *rigida* and var. *pallida* is arbitrary: flip of the coin.

1833. *Darea belangeri* Bory was based on material collected by Bélanger in Java.

1836. *Asplenium thunbergii* var. β Kunze. He cited also Madeira as its provenance. Notwithstanding reports in the literature, Kunze did not make the combination *A. thunbergii* var. *belangeri* here.

1848. Kunze mentioned *A. thunbergii* var. *belangeri* in the synonymy of *A. belangeri* (Bory) Kunze, whereby the combination is invalid. He stated that the report for Madeira was erroneous.

1857. However, *A. belangeri* (Bory) Kunze is a later homonym of *A. belangeri* Bory (1833), and Moore (1857) replaced it by *A. veitchianum* T. Moore.

The earliest varietal name was provided by Blume (1827) and the ensuing combination is proposed here:

***Asplenium tenerum* G. Forst. var. *pallidum* (Blume) Veldk. & Wardani, comb. nov.**

Darea furcata Willd. var. *pallida* Blume, Enum. 2: 207. 1827. — *Asplenium tenerum* G. Forst. var. *laciniata* Mett., Ann. Mus. Bot. Lugd.-Bat. 2: 234. 1866, nom. superfl. — Lectotype: *Blume 1068* (L, holo, sh. 908.317-384), Java, Cibitung Waterfall, designated here.

Caenopteris auriculata Thunb., Nova Acta Acad. Sci.

Imp. Petrop. Hist. Acad. 9: 159, t. E, f. 2. 1795, non *Asplenium auriculatum* Sw. (1817). — *Asplenium thunbergii* Kunze, Linnaea 10: 517. 1836. — Lectotype: *Herb. Thunberg 24761, right hand specimen* (UPS, holo; IDC microfiche 1036), designated here.

Darea belangeri Bory, in Bélanger, Voy. Indes Or. 2: 51. 1833. — *Asplenium thunbergii* (Thunb.) Kunze β *belangeri* Kunze, Linnaea 10: 517. 1836 (Combination NOT made!) — *Asplenium belangeri* (Bory) Kunze, Linnaea 10: 517. 1836, non Bory (1833). — *Asplenium veitchianum* T. Moore, Index Fil. : xlix / 176. 1857 / 1860. — *Asplenium tenerum* G. Forst. var. *belangeri* Miq., Ann. Mus. Lugd.-Bat. 4: 1869, nom. superfl. (incl. var. *pallida* Blume, 1827; var. *laciniata* Mett., 1866) — Syntypes: *Bélanger s.n.* (? G, ? P; Herb. Kunze, LZ, lost), Madeira (error!), Java.

The typical variety can be distinguished as follow (see also fig. 1):

1. a. Pinnae margin entire to crenate .. var. *tenerum*
- b. All pinnae or some of the pinnae with margin lobed almost or up to the costa var. *pallidum*

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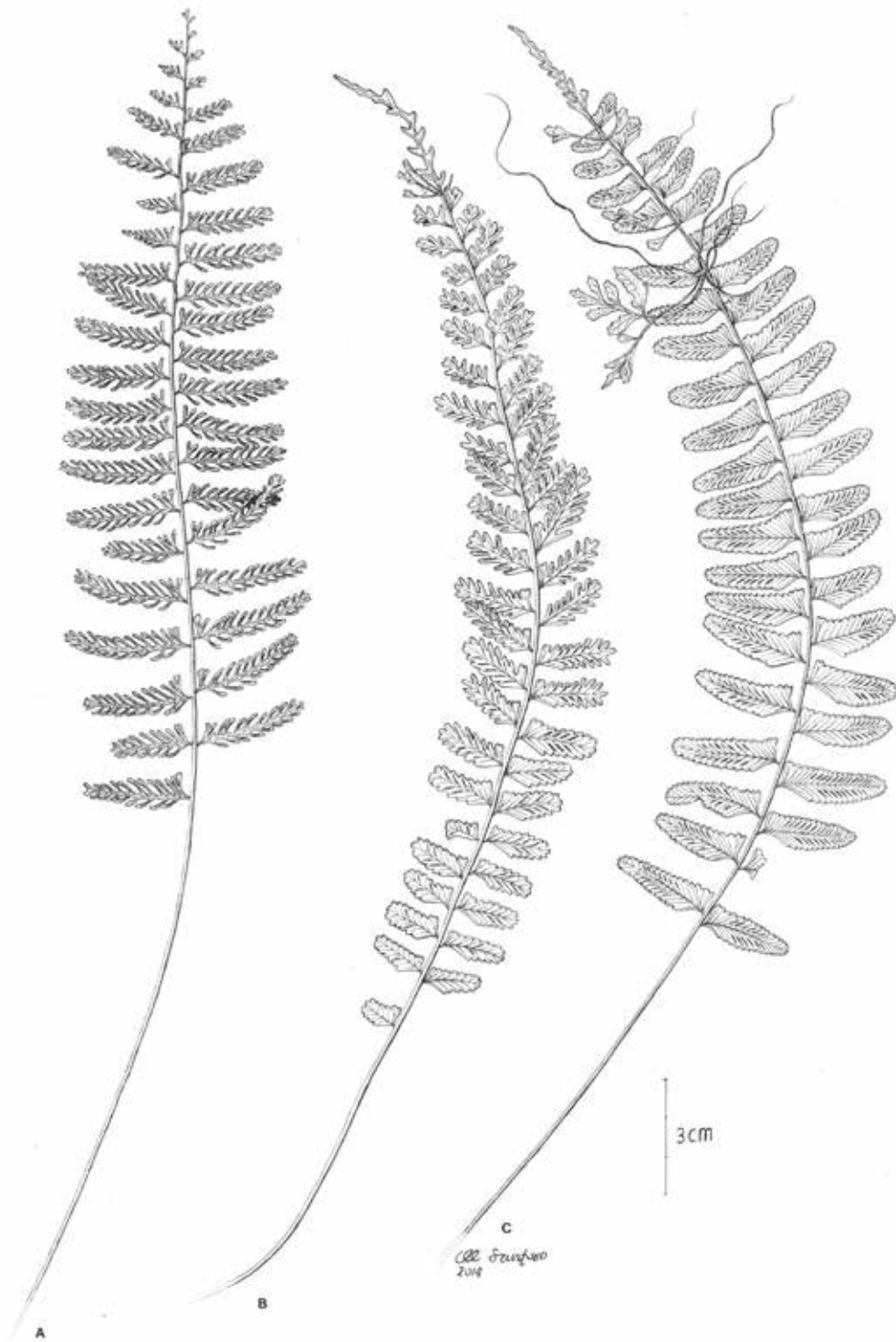


Fig. 1. Typical pinnae form of *Asplenium tenerum* var. *pallidum* (A, B) and var. *tenerum* (C)

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