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## Three new combinations and one lectotypification of fern and lycophyte taxa from the French overseas territories

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With the exception of French Guiana and Adélie Land, the French Overseas Territories (FOTs) are islands and their biodiversity is remarkable in many ways. Notably, they harbour numerous unique taxa leading to exceptionally high rates of endemism. Among French endemic plants, 95% occur in the FOTs, accounting for ca. 4000 species of tracheophytes and 'bryophytes' (Gargominy *et al.* 2020).

We recently initiated a project entitled "Flore Endémique des Territoires d'Outre-Mer" (i.e., Endemic Flora of the French Overseas Territories; FEnTOM) to summarize the present state of knowledge of plant endemism in the FOTs. Using the most current information and data, we intend to build an up-to-date checklist of all known strict and regional endemic spermatophytes, 'pteridophytes' and 'bryophytes' known in the FOTs (Veron *et al.* in prep.). In compiling this list, we discovered that three nomenclatural combinations remain outstanding for ferns and lycophytes, and we here present them to avoid the use of invalid combinations in the FEnTOM project and to also make appropriate names available in the French national taxonomic database TAXREF (Gargominy *et al.* 2020), as well as international taxonomic databases. These new combinations are consistent with the classification presented in PPG I (2016).

***Antrophyopsis gigantea*** (Bory) Rouhan, Boullet & Schuettp., *comb. nov.*

Basionym: *Antrophyum giganteum* Bory (1833: 36)

Type:— Mauritius. Le Pouce, *C. Bélanger s.n.* (lectotype P [P00483382!], *hic designatus*; isolectotypes P [P00483381!], P [P01482666!]).

Notes:— This species was not included in the study of vittarioid ferns by Schuettpelz *et al.* (2016) and its placement in the phylogeny has yet to be assessed. Nonetheless, it is morphologically most similar to *Antrophyopsis boryana* (Willdenow 1810: 128) Schuettpelz (2016: 717) that was included in the molecular analysis and confirmed as belonging to

*Antrophyopsis* (Benedict 1907: 447) Schuettpelz (2016: 717). It is distinguished from *A. boryana* by sessile, subelliptic to suboblanceolate fronds, but both share the generic characters, notably spherical apical cells of the soral paraphyses and ecostate laminae (i.e. lacking midribs). Although *A. gigantea* was described from Mauritius, it was never observed there again (Badré 2008) and is today known only from La Reunion. As there are three sheets housed at P, we designated as lectotype the sheet with complete leaves given that the base of fronds is critical for distinguishing the species; also, the same sheet bears the more complete labels.

***Lepisorus mucronatus*** (Fée 1852: 82) Li Wang (2010: 35) var. ***durus*** (Copel.) Rouhan, *comb. nov.*

Basionym: *Hymenolepis dura* Copeland (1938: 69, t.20).

Synonym: *Belvisia mucronata* (Fée 1852: 82) Copeland (1947: 192) var. *dura* (Copel.) Hovenkamp & Franken (1993: 523).

Type:—French Polynesia: “Australes”, Rapa, versant sud du Mont Lekie, 330 m, 20 July 1934, *H. St. John & J. Maireau 15621* (holotype BISH [BISH1000333, online image]; isotypes BISH [BISH1000335, online image], BO, K [K000880383!], MICH [1191320, online image], P [P00717795!], UC [UC 542661, online image], US [00134710, online image], W).

Notes:— *Belvisia* Mirbel (1803: 65) is entirely subsumed in *Lepisorus* (Smith 1846: 13) Ching (1933: 47, 56) following studies by Wang *et al.* (2010). The variety *durus* is known from Rapa Island in French Polynesia.

***Phlegmariurus pseudovarius*** (Brownlie) Rouhan & A.R.Field, *comb. nov.*

Basionym: *Lycopodium pseudovarium* Brownlie (1969: 23, t.1, f.13-15).

Synonym: *Huperzia pseudovaria* (Brownlie) Holub (1991: 93).

Type:— New Caledonia. Prov. Sud: Mont Humboldt, 1200 m, February 1872, *B. Balansa 3558* (holotype P [P00523013!]).

Notes:— Following the classification proposed by Field *et al.* (2016) and later retained by PPG I (2016), this species formerly placed in *Huperzia* Bernhardt (1801: 126) belongs in *Phlegmariurus* Holub (1964: 21). It is endemic to New Caledonia, but may possibly also occur in French Polynesia according to recent observations (J. Nitta, pers. com.).

The type at P was determined in 2015 by A. Field as *Phlegmariurus varius* (Brown 1810: 165) A.R.Field & Bostock (2013: 49) due to the lack of the combination *P. pseudovarius*, and because he thought it may be a synonym of *Phlegmariurus varius*. More recent work provides evidence supporting *P. pseudovarius* as distinct, along with at least two other species in this complex (Field, unpublished data).

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