

New synonyms in *Plagiochila* (Hepaticae) II

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Abstract – Five Neotropical *Plagiochila* binomials are newly placed in synonymy: *P. arsenii* (= *P. patula*), *P. guadelupensis*, *P. oxyphylla* (= *P. stricta*), *P. potrerillana* (= *P. fuscolutea*) and *P. subflorida* (= *P. vincentina*). Lectotypes are designated for *P. potrerillana* and *P. guadelupensis*.

Plagiochila / synonyms / neotropics

About 700 taxa of Plagiochilaceae have been published from the tropics of the New World, many of them based on incomplete descriptions and without proper illustrations. Revisionary studies of type material of Plagiochilaceae in the framework of a future treatment in “Flora Neotropica” revealed the presence of further synonyms in several recently revised and illustrated species (*P. fuscolutea* & *P. vincentina*, Heinrichs, 2002; *P. patula* & *P. stricta*, Heinrichs *et al.*, 1998). As in Heinrichs & Renker (2001), the new synonyms are listed and parts of the type material are depicted.

Plagiochila fuscolutea Taylor, *London J. Bot.* 5: 263. 1846.

= *Plagiochila potrerillana* Steph., *Spec. Hep.* 6: 195. 1921, **syn. nov.** **Type:** Ecuador, Potrerillo, Oriente-Paramó Kurikinga, 3500 m, *Allioni* 719 (**lectotype**, here designated, G 024056 [ster.]); *ibid.*, *Allioni* 715 (paralectotype, G 025301 [ster.]).

A phenotype with strongly ampliate leaves already identified as *P. fuscolutea* by Inoue (in sched.).

Plagiochila patula (Sw.) Lindenb., *Spec. Hepat.* (fasc. 1): 21. 1839.

= *Plagiochila arsenii* Steph., *Spec. Hep.* 6: 125. 1917, **syn. nov.** **Type:** Mexico, *Arsén* 7767 (holotype, G 18134 [ster., scanty]).

The type of *P. arsenii* consists of a few badly preserved shoot fragments of a member of *P. sect. Vagae* Lindenb. with terminal branches and propagules originating from the leaf surface. At least some of the stem leaves possess a long-decurrent ventral leaf base and a weak ventral shoulder (Fig. 1, J), indicating a conspecificity of *P. arsenii* and *P. patula*. Stephani's *Icone* 11746 (Stephani, 1985) obviously shows an untypical branch leaf.

Plagiochila stricta Lindenb., *Spec. Hepat.* (fasc. 1): 20. 1839.

= *Plagiochila oxyphylla* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 480. 1885, **syn. nov.** **Type:** Ecuador, Azuay, forest Llalla, 3000 m, *Spruce s.n.* (isotype, W 1893-6018 [c.per.juv.]).

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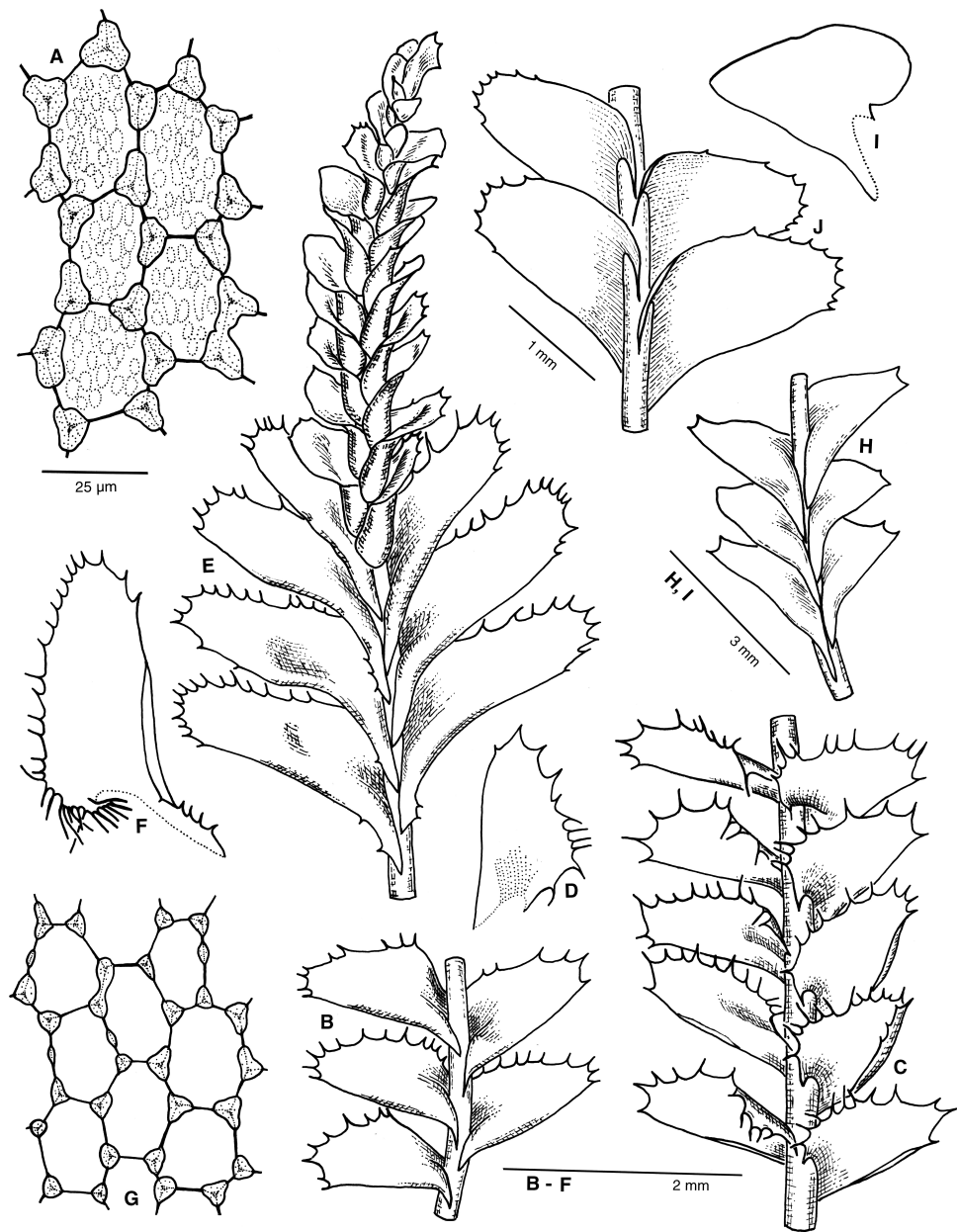


Fig. 1. *Plagiochila stricta* (A-D), *P. vincentina* (E-G), *P. fuscolutea* (H, I), and *P. patula* (J) — A, cells from leaf center with papillae; B, H, parts of shoots, dorsal view; C, J, parts of shoots, ventral view; D, E, I, leaves; E, top of shoot with androecium, dorsal view; G, cells from leaf base [A-D from lectotype of *P. guadelupensis* (G), E-G from holotype of *P. subflorida* (G), H, I from lectotype of *P. potrerillana* (G), J from holotype of *P. arsenii* (G)].

= *Plagiochila guadelupensis* Gottsche ex Steph., *Spec. Hep.* 2: 562. 1905, **syn. nov.** **Type:** Guadeloupe, *l'Herminier s.n.* (**lectotype**, here designated, G 026273 [male, c.per.]); Guadeloupe, Découverte, 800-1200 m, 1868, *Husnot s.n.* (Pl. des Antilles 215) (paralectotypes, G 026272 & G 026274 [c.per.]; material leg. *Duss* not available).

A widespread montane Neotropical species with ± triangular, papillose leaves (Fig. 1, A-D) which occurs also in the Canary Islands (Rycroft *et al.*, 2002). Spruce (1884-1885) points on the close relationship of *P. stricta* (sub *P. oxyphylla*) and *P. pachyloma* Taylor, another species with rough cuticle. However, *P. pachyloma* can be separated from *P. stricta* by the reddish brown marginal leaf border.

Plagiochila vincentina Lindenb., *Spec. Hepat.* (fasc. 2-4): 39. 1840.

= *Plagiochila subflorida* Steph., *Spec. Hep.* 6: 215. 1921, **syn. nov.** **Type:** Lesser Antilles, Grenada (holotype, G 026475 [male]).

The type material of *P. subflorida* (Fig. 1, E-G) represents a small phase of *P. vincentina*. The short basal leaf cells allow a clear separation from the similar *P. breuteliana* Lindenb.

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