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## Three new synonyms of *Pohlia* (Bryaceae) from China

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**Abstract:** Three species of *Webera* and *Pohlia* described from China were reduced to new synonyms of other species of *Pohlia*. *Webera ciliifera* Broth. is a synonym of *Pohlia elongata* Hedw., *W. pygmaea* Broth. is a synonym of *P. minor* Schleich. ex Schwaegr. and *P. subflexuosa* Broth. is a synonym of *P. flexuosa* Hook.

A critical review of the following three species which were collected by Handel-Mazzetti in China between 1914 and 1918 and described by Brotherus (1922, 1924, 1929) revealed that they are conspecific with other species of *Pohlia* described from Europe.

1. *Pohlia elongata* Hedw., Spec. Musc.: 171. 1801.

Syn. nov.: *Webera ciliifera* Broth., Sitzungsber. Akad. Wiss. Wein Math. Nat. Kl. 133: 568. 1924; *Pohlia ciliifera* (Broth.) Redf. & Tan, Tropical Bryol. 10: 67. 1995. Fig. 1.

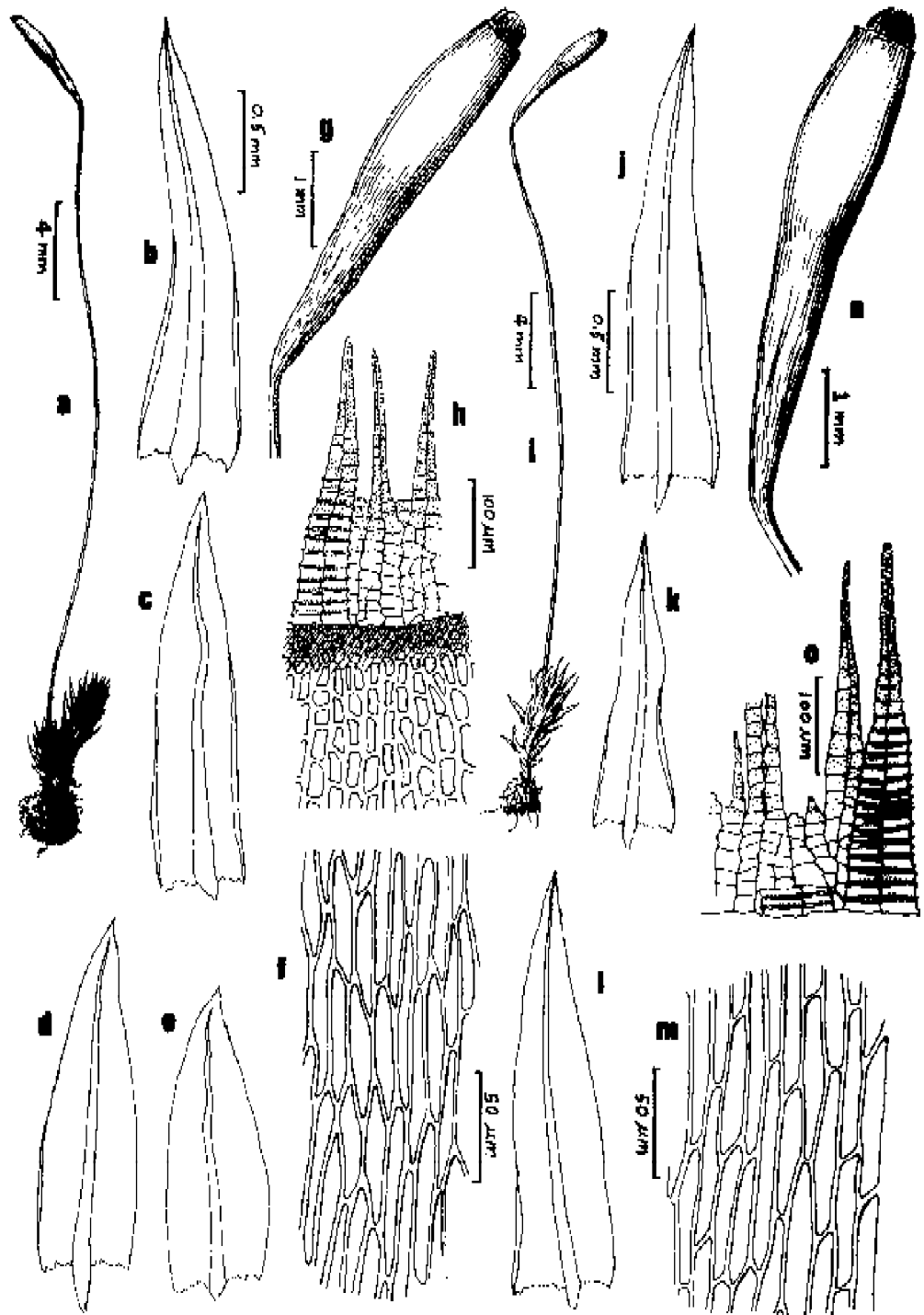
We recently examined the type specimen of *Webera ciliifera* [„Yunnanfu“ (now Kunming), *Handel-Mazzetti 60*, H-BR] and another specimen of *W. elongata* (Hedw.) Schwaegr. collected by Handel-Mazzetti from Yunnan (see Brotherus 1929). We consider the two species synonymous.

2. *Pohlia minor* Schleich. ex Schwaegr., Spec. Musc. Suppl. 1(2): 70. 1816.

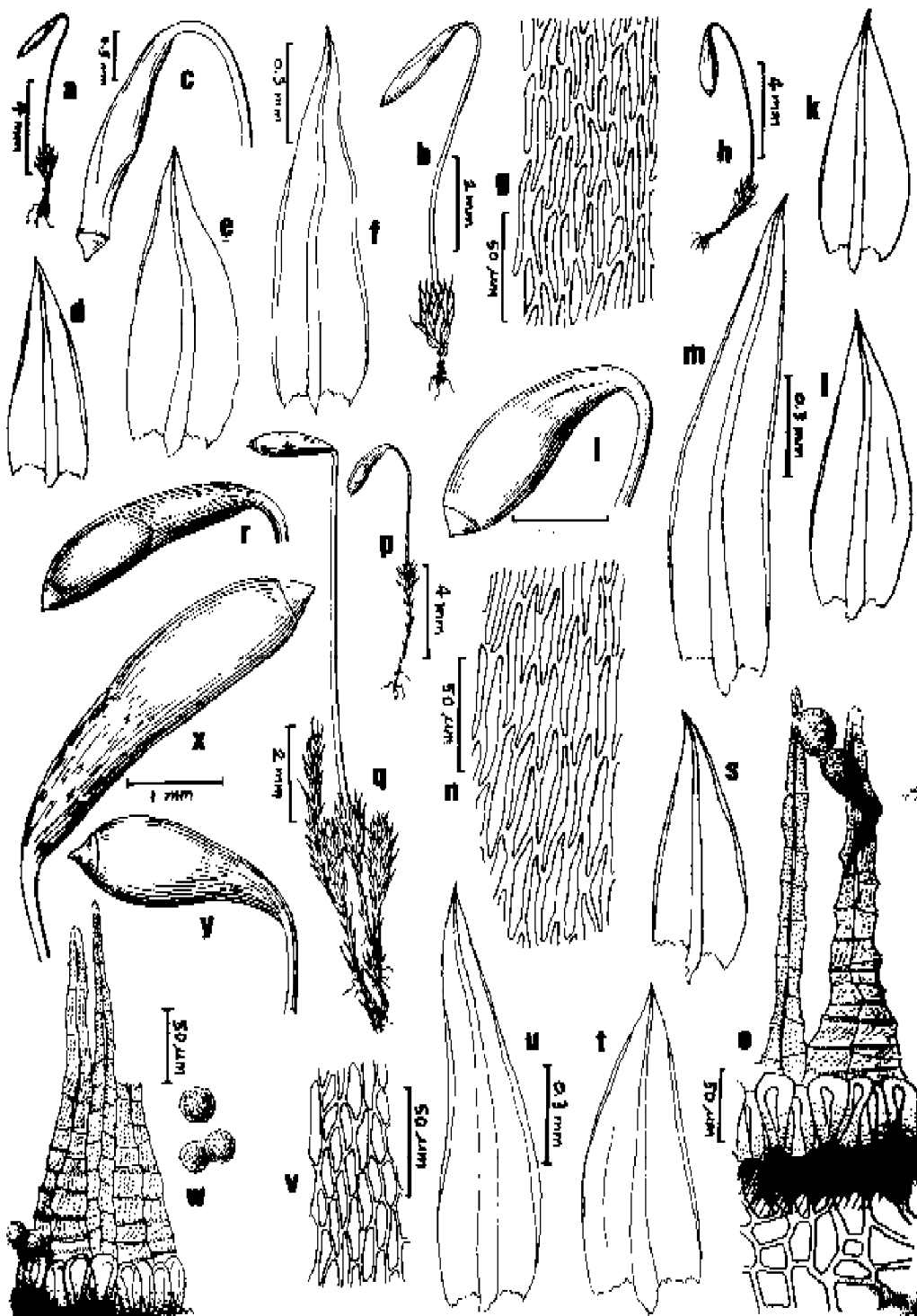
Syn. nov.: *Webera pygmaea* Broth. in Handel-Mazzettii, Symb. Sin. 4: 52. 1929; *Pohlia pygmaea* (Broth.) Redf. & Tan, Tropical Bryol. 10: 67. 1995. Fig. 2.

According to the protologue (Brotherus 1929), the type of *Webera pygmaea* was collected from Yunnan and the species was characterized by small plant size and also the peristome characters. After the examination of the holotype preserved at H-BR (Lijiang, Yulong Mts., 4000-4300 m., Jul 1914, *Handel-Mazzetti 3546*) and the interpretation of the original description and illustration of *W. pygmaea*, we consider it a synonym of *P. minor*.

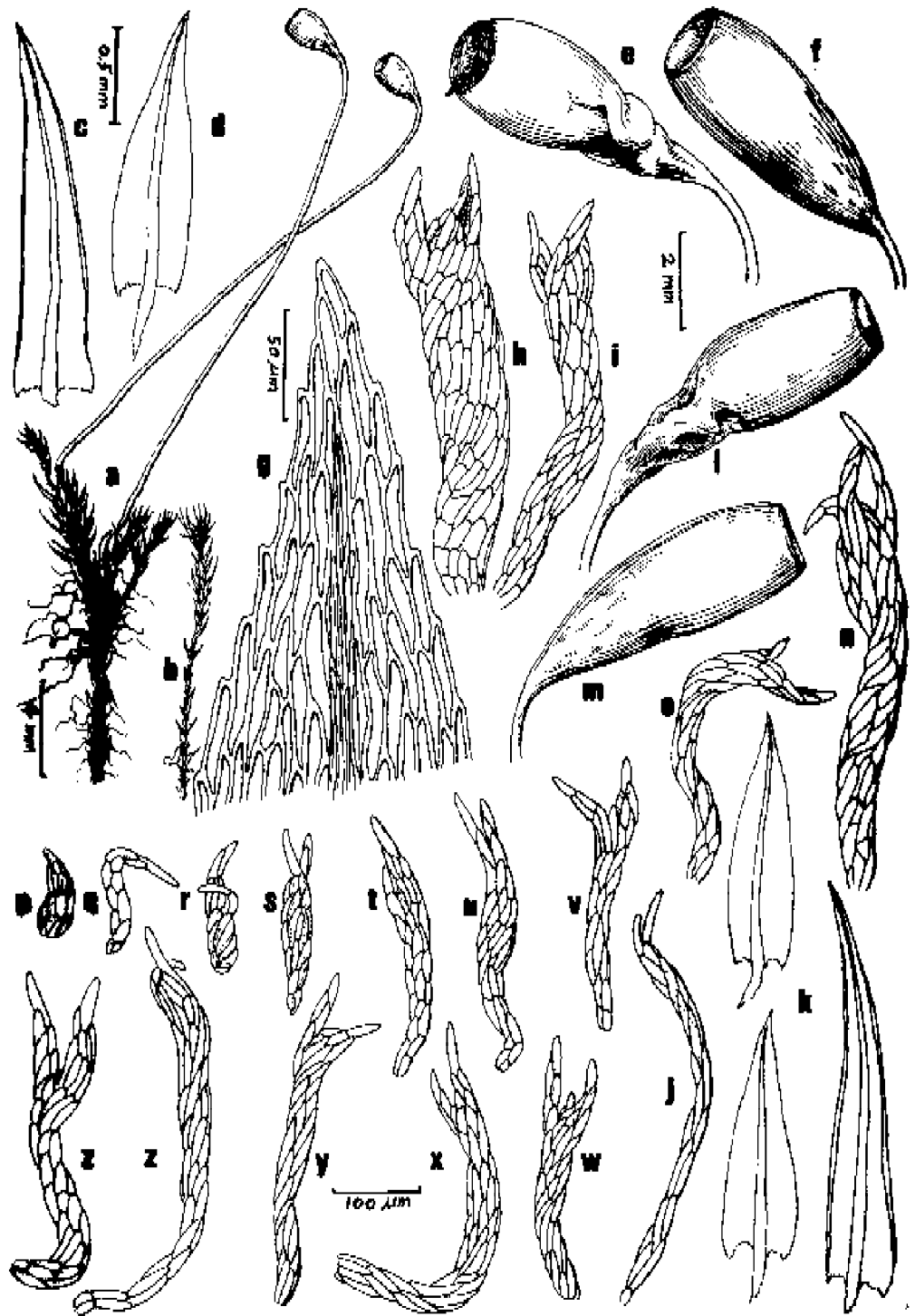
3. *Pohlia flexuosa* Hook., Icon. Pl. Par. 1: 19, f. 5. 1836.



**Figure 1.** *Pohlia elongata*: a & i. plants; b-e, j-l. leaves; f & m. cells at mid-leaf; g & n. capsules; h & o. peristome teeth. [Figs. a to h drawn from type of *Webera ciliifera* and Figs. i-o drawn from a specimen of *P. elongata* from Kunming (*Handel-Mazzetti* 79, H-BR)].



**Figure 2.** *Pohlia minor*: a, b, h, p & q. plants; c, i, r, x & y. capsules; d-f, k-m & s-u. leaves; g, n & v. cells at middle and upper parts of leaf; o & w. peristome teeth. [Figs. a to g drawn from type of *Webera pygmaea* (H-BR); Figs. h to o drawn from X.-J. Li 85-275 from Yulong Mts., Yunnan (KUN-HKAS), and Figs. p to y drawn from M. Zang 5216 from Deqing, Yunnan (KUN-HKAS)].



**Figure 3.** *Pohlia flexuosa*: a & b. plants; c, d & k. leaves; e, f, l & m. capsules; h, i, j, n to z. gemmae. [Figs. a to i drawn from type of *P. subflexuosa* (H-BR), Figs. j to o drawn from A. J. Sharp 399 from Mt. Morrison, Taiwan (NICH), and Figs. p to z drawn from Z. Iwatsuki 2158 from Nichinan, Japan (Bryophyta Exsiccata Fasc. 2, 1979, NICH)].

Syn. nov.: *Pohlia subflexuosa* Broth., Sitzungsber. Akad. Wiss. Wien Math. Nat. Kl. 131: 213. 1923; *Webera subflexuosa* (Broth.) Broth. in Handel-Mazzetti, Symb. Sin. 4: 53. 1929. Fig. 3.

In 1923, Brotherus described *Pohlia subflexuosa* from Hsinhwa of Hunan Province. We studied the type specimen of this species (*Handel-Mazzetti 11947*, H-BR) and compared it with the description of *P. flexuosa* and several specimens of the latter from Europe and Asia determined by various authorities and can see no differences. *Pohlia flexuosa* usually bears characteristic gemmae and the same gemmae can be found in the type specimen of *P. subflexuosa*. Since this type of gemma is absent in other species of *Pohlia* in China, we think that the two taxa are synonymous.

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