



## Notes on Early Land Plants Today. 74. Validation of a few names in liverworts (Marchantiophyta)

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For the forthcoming world checklist of hornworts and liverworts (Söderström *et al.* *in press*) a few names to be used need to be validated.

The format of this note follows Söderström *et al.* (2012). Four names are validated here.

***Cololejeunea dankiaensis* Tixier, sp. nov.** Based on:—*Cololejeunea dankiaensis* Tixier, *Rev. Bryol. Lichénol.* 36 (3/4): 581, 1969 [1970] (Tixier 1969) *nom. inval.* (ICN Art. 37.1; based on more than one gathering). Type:—VIETNAM. Dalat, Mt. Lang Bian, 1900 m, 12 XI 1958, *P. Tixier s.n.* (PC-0104199, holotype). Note:—Tixier (1969) cited two specimens as types, one from Vietnam and one from Cambodia, thus not fulfilling the requirements of ICN Art. 37.1 (McNeill *et al.* 2012). The description in Tixier (1969: 581) together with the single type specimen specified here validates the name.

***Cololejeunea ensifera* Tixier, sp. nov.** Based on:—*Cololejeunea ensifera* Tixier, *Rev. Bryol. Lichénol.* 36 (3/4): 562, 1969 [1970] (Tixier 1969) *nom. inval.* (ICN Art. 37.1; based on more than one gathering). Type:—CAMBODIA. Kampot, massif du Bokor, 1000 m, 17.XI.1967, *P. Tixier 2820* (PC-0104191, holotype). Note:—Tixier (1969) cited two specimens as types, one from Vietnam and one from Cambodia. The description in Tixier (1969: 562) together with the type specimen specified here validates the name.

***Plagiochila loriloba* (Herzog) L.Söderstr., comb. nov.** Basionym:—*Plagiochila cuneata* var. *loriloba* Herzog, *Hedwigia* 72: 232, 1932 (Herzog 1932). Type:—COLOMBIA. El Cauca: Mt. Purace, 11–13 June 1922, *E.P. Killip 6686/a* (JE-04007579, holotype). Note:—Carl (1931: 48) was the first to mention the taxon, but he did not provide any description. Herzog (1932) provided a description when transferring it to *Plagiochila cuneata* Lindenb. *et* Gottsche *in* Gottsche *et al.* (1847: 632) as a variety of the latter. Groth *et al.* (2002) showed that the two taxa were different both morphologically and molecularly and recognized it at species level. However, they did not notice that Carl's name was not validly published. Thus, we here validate the name at specific level.

***Solenostoma orbicularifolium* (Piippo ex C.Gao et Bai) Váňa, comb. nov.** Basionym:—*Jungermannia orbicularifolia* Piippo ex C.Gao et Bai, *Philipp. Scientist* 38: 129, 2001 (Gao & Bai 2001). Type:—CHINA. Jilin: Changbai Co., Mt. Changbai, 1180 m, *C. Gao 7311* (IFSBH, holotype). ≡ *Solenostoma orbicularifolium* C.Gao, *Fl. Hepat. Chin. Boreali-Orient.*: 205, 1981 (Gao & Chang 1981), *nom. inval.* (ICN Art. 37.2; based on more than one gathering). ≡ *Jungermannia orbicularifolia* (C.Gao) Piippo, *J. Hattori Bot. Lab.* 68: 134, 1990 (Piippo 1990), *nom. inval.* (ICN Art. 41.1; basionym not valid). Note:—C.Gao in Gao & Chang (1981) first described the taxon but cited two gatherings. Piippo (1990) made a new combination of Gao's name but as she did not select any type, she did not validate the name. Gao & Bai (2001) cited the description in Gao & Chang (1981) and specified only one gathering from the original description and thus validly described it as a new taxon in *Jungermannia*. With the current concept of *Jungermannia* and *Solenostoma* (cf. Crandall-Stotler *et al.* 2009, Shaw *et al.* 2015) a transfer to the latter is needed.

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