



Notes on early land plants today. 78. Typification of *Marchesinia cruegeriana*

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Source: Lindbergia, 2022(1)

Published By: Dutch Bryological and Lichenological Society and Nordic Bryological Society

URL: <https://doi.org/10.25227/linbg.01150>

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Notes on early land plants today. 78. Typification of *Marchesinia cruegeriana*

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Homalolejeunea cruegeriana Steph. was described based on material from Trinidad (leg. *Crüger*) and from Petrópolis, Brazil (leg. *Rudolph*, leg. *Ule*). The two collections from Petrópolis are present in the Stephani herbarium in Geneva, and also in BM (L. Ellis, pers. comm.), but the material from Trinidad, which was illustrated in the unpublished *Icones* by Stephani, could not be located and may be considered lost. Since the Rudolph specimen has gynoeceia and therefore fits the original descriptions best (the Ule specimen is sterile), it is designated here as the lectotype. The lectotypification was already proposed by the late Patricia Geissler in sched. but was not formally published. The synonymy of *Marchesinia cruegeriana* (Steph.) Steph. (as '*M. cruegeri*') under *Archilejeunea fuscescens* (Hampe) Fulford, however, was published by Gradstein and Hekking (1989) with credit to P. Geissler. Two further specimens of *Marchesinia cruegeriana* in G identified by Stephani (published in his species hepaticarum under this name), from Suriname ('herb. Leiden 258') and Guadeloupe (leg. *L'Herminier*), also belong *Archilejeunea fuscescens*.

The epithet of *Marchesinia cruegeriana* is frequently spelled '*cruegeri*' (fide A. Hagborg, e-mail of 27 September 2017), which is based on Stephani's (1912) erroneous citation of the basionym of the species as '*Homalolejeunea crügeri*'. Probably because of this error, the species has been confused with *Lejeunea cruegeri* Lindenb. and was cited as '*Marchesinia cruegeri* (Lindenb.) Steph.' under *Lejeunea cruegeri* by Gradstein and Buskes (1985) and Gradstein (1994). The latter species is considered a synonym of *Dibrachiella parviflora* (Nees) X.Q. Shi, R.L. Zhu et Gradst.; = *Archilejeunea parviflora* (Nees) Steph.

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Formal treatment

Archilejeunea juliformis (Nees) Gradst.

= *Homalolejeunea cruegeriana* Steph., Hedwigia 35: 98. 1896 (Stephani 1896). Type: Brazil, Rio de Janeiro State, Petrópolis, Rudolph s.n. (lectotype, **here designated**, G-00067078!; isoelectotype, BM), *ibid.*, Ule s.n. (syntype, G-00067079!; isosyntype, BM).

≡ *Marchesinia cruegeriana* (Steph.) Steph., Spec. Hepat. (Stephani) 5: 151. 1912 '*crügeri*' (Stephani 1912).

= *Archilejeunea fuscescens* (Hampe) Fulford, syn. fide Gradstein and Buskes (1985).

Acknowledgements – I express my gratitude to Anders Hagborg and Lars Söderström for calling my attention to the confusion concerning the name *Marchesinia cruegeriana*, to Michelle Price for supporting my study on the species in the herbarium of Geneva and to Len Ellis for information on the holdings of *Marchesinia cruegeriana* in BM.

References

- Gradstein, S. R. 1994. Lejeuneaceae: Ptychantheae, Brachiolejeuneae. – Flora Neotrop. Monogr. 62: 1–216.
- Gradstein, S. R. and Buskes, G. M. 1985. A revision of neotropical *Archilejeunea* (Spruce) Schiffn. – Beih. Nova Hedwigia 80: 89–112.
- Gradstein, S. R. and Hekking, W. H. A. 1989. A catalogue of the bryophytes of the Guianas. I. Hepaticae and Anthocerotae. – J. Hattori Bot. Lab. 66: 197–230.
- Shi, X.-Q., Gradstein, S. R. and Zhu, R.-L. 2015. Phylogeny and taxonomy of *Archilejeunea* (Spruce) Steph. (Lejeuneaceae subfam. Ptychanthoideae, Marchantiophyta) based on molecular markers and morphology. – Taxon 64: 881–892.
- Stephani, F. 1896. Hepaticarum species novae IX. – Hedwigia 35: 73–140.
- Stephani, F. 1912. Species hepaticarum 5. – George & Cie, pp. 1–176.