

<http://dx.doi.org/10.11646/phytotaxa.273.4.6>

Taxonomic changes in Cleveaceae (Marchantiidae, Marchantiophyta)—a correction

DAVID G. LONG¹ & BARBARA J. CRANDALL-STOTLER²

¹Royal Botanic Garden, Edinburgh EH3 5LR, United Kingdom; d.long@rbge.ac.uk

²Department of Plant Biology, Southern Illinois University, Carbondale, IL 62901, USA; crandall@siu.edu

The recently published combination *Clevea nana* (Lindenb.) Crand.-Stotl. & D.G.Long, which was intended to replace the name *Clevea hyalina* (Sommerf.) Lindb. on the basis of nomenclatural priority, is a later homonym of *Clevea nana* (Shimizu & S.Hatt.) Borovichev & Bakalin published in 2013 for a different taxon. Consequently, the name *Clevea hyalina* is the correct name for the widespread dioicous member of the genus. The heterotypic name *Clevea nana* (Shimizu & S.Hatt.) Borovichev & Bakalin refers to a different monoicous species of the genus that had previously been placed in synonymy of *Clevea pusilla* (Steph.) Rubasinghe & D.G.Long.

Introduction

Based on his study of type specimens, Grolle (1981: 325) concluded that *Fimbriaria nana* Lindenberg (1829: 109) and *Marchantia hyalina* Sommerfelt (1833: 234) [the basionym of *Athalamia hyalina* (Sommerf.) S. Hattori in Shimizu & S. Hattori (1954: 54) as well as *Clevea hyalina* (Sommerf.) Lindberg (1868: 291)] refer to the same taxon and should be synonymized. Since the epithet “*nana*” was blocked in *Athalamia* Falconer (1848: 375) by *Athalamia nana* (Shimizu & S. Hattori 1953: 34) S. Hattori in Shimizu & S. Hattori (1954: 56), the accepted name for the taxon in that genus remained *Athalamia hyalina* (Sommerfelt) S. Hattori. Recently, molecular phylogenetic studies by Rubasinghe *et al.* (2011a) supported the recognition of *Clevea* Lindberg (1868: 289) and *Athalamia* as distinct genera, with only *Athalamia pinguis* Falconer (1848: 375) retained in *Athalamia*. In a subsequent paper (Rubasinghe *et al.* 2011b), *Clevea* was circumscribed to include three species, namely, the widespread and well-known, dioicous *C. hyalina* (Sommerfelt 1833: 234) Lindberg (1868: 291) along with the less well-known, monoicous *C. spathysii* (Lindenberg 1829: 104) Müller (1940: 75) and *C. pusilla* (Stephani 1905: 74) Rubasinghe & D.G.Long in Rubasinghe *et al.*, 2011b: 167. At the same time, *Athalamia nana* [Basionym: *Gollaniella nana* Shimizu & S. Hattori 1953: 34] was placed in synonymy of *C. pusilla* along with three other Asiatic taxa (Rubasinghe *et al.* 2011b: 167).

When the genus *Clevea* was segregated from *Athalamia* (Rubasinghe *et al.* 2011a), the binomial *Fimbriaria nana* became available as an earlier epithet for *Clevea hyalina* but this was not addressed by Rubasinghe *et al.* (2011b). The combination *Clevea nana* (Lindenberg 1829: 291) Crandall-Stotler & D.G. Long was subsequently made in Long *et al.* (2016: 79), with a note that a proposal to conserve the name *Clevea hyalina* would be made to enable this long-familiar name to be retained. However, prior to the Long *et al.*, 2016 publication, Borovichev & Bakalin (2013) rejected the synonymy of *Athalamia nana* under *Clevea pusilla* proposed by Rubasinghe *et al.* (2011b) and published the new combination *Clevea nana* (Shimizu & S.Hattori) Borovichev & Bakalin (2013: 59) for this newly-recognised taxon. Thus, the combination *Clevea nana* (Lindenberg) Crandall-Stotler & Long published in Long *et al.* (2016: 79) is illegitimate since it is a later homonym of *Clevea nana* (Shimizu & S.Hattori) Borovichev & Bakalin (Art. 53.1, McNeill *et al.* 2012). The corrected taxonomic citations for the two affected taxa are as follows:

Corrected synonymy

1. *Clevea hyalina* (Sommerf.) Lindb., Not. Sällsk. pro Fauna et Flora Fennica 9:291, 1868 ≡ *Marchantia hyalina* Sommerf., Magazin Naturvidensk. (Christiana) II. Ser., I, fasc. 2: 234, 1833 ≡ *Athalamia hyalina* (Sommerf.) S. Hatt., J. Hattori Bot. Lab. 12: 54, 1954.

= *Fimbriaria nana* Lindenb., Nov. Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 14 (Suppl.), 109, 1829 ≡ *Clevea nana* (Lindenberg 1829: 291) Crandall-Stotler & D.G.Long, Phytotaxa 252: 79, 2016, *nom. illeg.*, non *Clevea nana* (Shimizu & S.Hattori) Borovichev & Bakalin, *Botanica Pacifica* 2: 59, 2013

2. *Clevea nana* (Shimizu & S.Hattori) Borovichev & Bakalin, *Botanica Pacifica* 2: 59, 2013 ≡ *Gollaniella nana* Shimizu & S.Hattori (1953: 34) ≡ *Athalamia nana* (Shimizu & S.Hattori) S.Hattori in Shimizu & S.Hattori (1954: 54)

Acknowledgements

The authors wish to thank John J. Atwood of the Missouri Botanical Garden for bringing the Borovichev & Bakalin (2013) paper to our attention.

References

- Borovichev, E.A. & Bakalin, V.A. (2013) The survey of Marchantiales from the Russian Far East 1. The review of Cleveaceae (Hepaticae). *Botanica Pacifica* 2 (1): 53–61.
<http://dx.doi.org/10.17581/bp.2013.02106>
- Falconer, H. (1848) Description of *Athalamia*, a new genus of *Marchantieae*. *Annals and Magazine of Natural History* 1: 375.
- Grolle, R. (1981 '1980') Miscellanea hepaticologica 201–210. *Journal of Bryology* 11: 325–334.
<http://dx.doi.org/10.1179/jbr.1980.11.2.325>
- Lindberg, S.O. (1868) Musci Novi Scandinavici. *Notiser ur Sällskapets pro Fauna et Flora Fennica Förhandlingar* 9: 253–299.
- Lindenberg, J.B.W. (1829) *Synopsis Hepaticarum Europaeorum*. Eduard Weberum, Bonnae, pp. 1–133.
- Long, D.G., Forrest, L.L., Villarreal, J.C. & Crandall-Stotler, B.J. (2016) Taxonomic changes in Marchantiaceae, Corsiniaceae and Cleveaceae (Marchantiidae, Marchantiophyta). *Phytotaxa* 252 (1): 77–80.
<http://dx.doi.org/10.11646/phytotaxa.252.1.9>
- McNeill, J., Barrie, F.R., Buck, W.R., Demoulin, V., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Marhold, K., Prado, J., Ptud'homme van Reine, W.F., Smith, G.F., Wiersema, J.H. & Turland, N.J. (Eds.) (2012) *Internal Code of Nomenclature for Algae, Fungi, and Plants (Melbourne Code). Adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011*. Koeltz Scientific Books, Königstein, Germany. [Regnum Vegetabile 154]
- Müller, K. (1940) Beiträge zur Systematik der Lebermoose. *Hedwigia* 79: 72–80.
- Rubasinghe, S.C.K., Milne, R., Forrest, L.L. & Long, D.G. (2011a) Realignment of the genera of Cleveaceae (Marchantiopsida, Marchantiidae). *Bryologist* 114: 116–127.
<http://dx.doi.org/10.1639/0007-2745-114.1.116>
- Rubasinghe, S.C.K., Long, D.G. & Milne, R. (2011b) A new combination and three new synonyms in the genus *Clevea* Lindb. (Marchantiopsida, Cleveaceae). *Journal of Bryology* 33: 166–168.
<http://dx.doi.org/10.1179/1743282011Y.0000000005>
- Shimizu, D. & Hattori, S. (1953) Marchantiales of Japan, I. *Journal of the Hattori Botanical Laboratory* 9: 32–44.
- Shimizu, D. & Hattori, S. (1954) Marchantiales of Japan, III. *Journal of the Hattori Botanical Laboratory* 12: 53–75.
- Sommerfelt, S.C. (1833) Bidrag til Spitzbergens og Beeren-Eilands Flora, efter Herbarier, medbragte af M. Keilhaue. *Magazin for Naturvidenskaberne* 11: 234–252.
- Stephani, F. (1905) Hepaticae species novae XI. *Hedwigia* 44: 72–75.