



Notes on Early Land Plants Today. 14. Transfer of two *Macrodiplophyllum* species to *Douinia* (Scapaniaceae, Marchantiophyta)

NADEZDA A. KONSTANTINOVA¹, ANNA A. VILNET¹, LARS SÖDERSTRÖM^{2,4},
ANDERS HAGBORG³ & MATT VON KONRAT³

¹N.A. Avrorin Polar-Alpine Botanical Garden—Institute of Kola SC RAS, 184236 Kirovsk-6, Russia; nadya50@list.ru, anya_v@list.ru

²Department of Biology, Norwegian University of Science and Technology, N-7491 Trondheim, Norway; lars.soderstrom@bio.ntnu.no

³Department of Botany, The Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605–2496, USA; hagborg@pobox.com, mvonkonrat@fieldmuseum.org

⁴Author for correspondence

Vilnet et al. (2011) demonstrated that the genus *Macrodiplophyllum* is heterogeneous. Two species, *Macrodiplophyllum imbricatum* and the type species *Macrodiplophyllum plicatum* group together with *Douinia*, while the third species, *Macrodiplophyllum microdontum* (Mitten 1891: 196) Persson (1949: 508) is basal to a *Scapania* (Dumortier 1831: 38) Dumortier (1835: 14) clade. The two former needs to be transferred to *Douinia* unless the genus *Douinia* is transferred to *Scapania*.

Formal treatment

The format of this note follows what is outlined in Söderström *et al.* (2012).

Douinia (C.E.O.Jensen) H.Buch, *Commentat. Biol.* 3: 13, 1928 (Buch 1928).

Basionym:—*Diplophyllia* subgen. *Douinia* C.E.O.Jensen, *Danmarks Mosser*: 145, 1915 (Jensen 1915).

= *Macrodiplophyllum* (H.Buch) Perss., *Svensk Bot. Tidskr.* 43: 507, 1949 (Persson 1949), **syn. nov.**

Basionym:—*Diplophyllum* subgen. *Macrodiplophyllum* H.Buch, *Commentat. Biol.* 3: 29, 1928 (Buch 1928).

Douinia plicata (Lindb.) Konstant. et Vilnet, **comb. nov.**

Basionym:—*Diplophyllum plicatum* Lindb., *Acta Soc. Sci. Fenn.* 10: 235, 1872 (Lindberg 1872).

Lectotype (**here designated**):—RUSSIA. Sakhalin: Dui, May 1861, *P. von Glehn* (H-SOL no. 2245 008!).

Note:—In the protolog Lindberg (1872) cited three specimens collected by different people and at different times (“*Hab.* ad Traiziska, supra arborem putridum unacum *Stereodonte plicatulo*, sterile, Aug. 1860, et ad Tunai, lignum cariosum inhabitans, sterile, medio Sept. 1860, Schmidt; ad Dui, loco simili inter *Stereod. adscendentem* et *plicatulum*, ♂ et fr. jun., Maji 1861, Glehn”). Two of the specimens mentioned in the protolog are preserved in H-SOL, the one collected by Schmidt in Traiziska and the specimen collected by Glehn. Only Glehn’s specimen includes male plants and plants with immature sporophytes. It is therefore chosen by us as the lectotype.

≡ *Macrodiplophyllum plicatum* (Lindb.) Perss., *Svensk Bot. Tidskr.* 43: 508, 1949 (Persson 1949).

Douinia imbricata (M.Howe) Konstant. et Vilnet, **comb. nov.**

Basionym:—*Scapania imbricata* M.Howe, *Bull. New York Bot. Gard.* 2: 104, 1901 (Howe 1901).

Type:—CANADA. British Columbia: Crater Lake, at foot of Chilcoot Pass, altitude about 900 m., 24 May 1898, *R.S. Williams* (NY-733871, 733872, 733868).

≡ *Macrodiplophyllum imbricatum* (M.Howe) Perss., *Svensk Bot. Tidskr.* 43: 508, 1949 (Persson 1949).

References

- Buch, H. (1928) Die *Scapanien* Nordeuropas und Sibiriens - Systematischer Teil. *Commentationes Biologicae. [Societas Scientiarum Fennica]* 3: 1–177.
- Dumortier, B.C. (1831) *Sylloge Jungermannidearum Europae indigenarum, earum genera et species systematice complectens*. J. Casterman, Tournay, 100 pp. <http://dx.doi.org/10.5962/bhl.title.22343>
- Dumortier, B.C. (1835) *Recueil d'Observations sur les Jungermanniacées. I. Révision des genres*. J.-A. Blanquart, Tournay, 27 pp.
- Howe, M.A. (1901) An enumeration of the Hepaticae collected by R. S. Williams, 1898-1899. Contribution to the botany of the Yukon Territory. *Bulletin of the New York Botanical Garden* 2: 101–105.
- Lindberg, S.O. (1872) Contributio ad Floram cryptogamam Asiae boreali-orientalis. *Acta Societatis Scientiarum Fennicae* 10: 221–280.
- Mitten, W. (1891) An Enumeration of all species of Musci and Hepaticae recorded from Japan. *Transactions of the Linnean Society of London, Botany* 3: 153–206.
- Persson, H. (1949) Studies in the bryophyte flora of Alaskan-Yukon. *Svensk Botanisk Tidskrift* 43: 491–533.
- Söderström, L., Hagborg, A. & von Konrat, M. (2012) Notes on Early Land Plants Today. *Phytotaxa* 65: 41–42.
- Vilnet, A.A., Konstantinova, N.A. & Troitsky, A.V. (2011 “2010”) Molecular insight on phylogeny and systematics of the Lophoziaceae, Scapaniaceae, Gymnomitriaceae and Jungermanniaceae. *Arctoa* 19: 31–50.