

**NOMENCLATURAL CHANGES IN THE BRYACEAE
(BRYOPSIDA) FOR NORTH AMERICA II.**

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ABSTRACT

An additional 25 new combinations in Bryaceae are made for the Bryophyte Flora of North America project in the genera *Gemmabryum*, *Imbribryum*, *Rosulabryum*, and *Ptychostomum*.

KEY WORDS: mosses, North America, Bryaceae, *Gemmabryum*, *Imbribryum*, *Ptychostomum*, *Rosulabryum*.

This paper represents the second installment of taxonomic and nomenclatural changes in the family Bryaceae for the Bryophyte Flora of North America. The first paper (Spence 2005) concentrated on the description of the new genera *Leptostomopsis* (C. Müll. Hal.) Spence & Ramsay and *Plagiobryoides* Spence as well as transfers to the reinstated genera *Haplodontium* Hampe and *Ptychostomum* Hornschuch. Below many additional species are transferred to the newly described genera *Gemmabryum* Spence & Ramsay and *Imbribryum* Pedersen and more transfers are made to *Ptychostomum* and *Rosulabryum* Spence.

Gemmabryum J.R. Spence & H.P. Ramsay

Gemmabryum was described by Spence and Ramsay (2005) for the Flora of Australia, with 25 species transferred. Although many of these also occur in North America, numerous additional species restricted to North America or the Northern Hemisphere exist as well that fit within the concept of *Gemmabryum*. An additional 10 species found in the Bryophyte Flora of North America region are here transferred to the genus.

Gemmabryum barnesii (J.B. Wood ex W.P. Schimper) J.R. Spence, **comb. nov.** Basionym: *Bryum barnesii* J.B. Wood ex W.P. Schimper, Synopsis Muscorum Europaeorum, Ed. Secunda 471. 1876.

Gemmabryum bicolor (Dickson) J.R. Spence, **comb. nov.** Basionym: *Bryum bicolor* Dickson, Fasciculus Plantarum Cryptogamicarum Britanniae 4: 16. 1801.

Gemmabryum californicum (Sullivant) J.R. Spence, **comb. nov.** Basionym: *Bryum californicum* Sullivant, Exploration and Surveys for a Railroad Route from the Mississippi River to the Pacific Ocean, Description of the Mosses and Liverworts 4(5): 188. 6. 1856.

Gemmabryum demaretianum (Arts) J.R. Spence, **comb. nov.** Basionym: *Bryum demaretianum* Arts, Journal of Bryology 17: 263. 1992.

Gemmabryum gemmiferum (Wilczek & Demaret) J.R. Spence, **comb. nov.** Basionym: *Bryum gemmiferum* Wilczek & Demaret, Bulletin du Jardin Botanique National de Belgique 46: 529. f. 5. 1976.

Gemmabryum gemmilucens (Wilczek & Demaret) J.R. Spence, **comb. nov.** Basionym: *Bryum gemmilucens* Wilczek & Demaret, Bulletin du Jardin Botanique National de Belgique 46: 537. f. 9. 1976.

Gemmabryum mexicanum (Montagne) J.R. Spence, **comb. nov.** Basionym: *Brachymenium mexicanum* Montagne, Annales des Sciences Naturelles; Botanique, sér. 2, 9: 54. 1838.

Gemmabryum ruderale (Crundwell & Nyholm) J.R. Spence, **comb. nov.** Basionym: *Bryum ruderale* Crundwell & Nyholm, Botaniska Notiser 116: 95. 1963.

Gemmabryum valparaisense (Thériot) J.R. Spence, **comb. nov.**
Basionym: *Bryum valparaisense* Thériot, Revista Chilena de Historia Natural 21: 14. 4 f. 1. 1917.

Gemmabryum violaceum (Crundwell & Nyholm) J.R. Spence, **comb. nov.** Basionym: *Bryum violaceum* Crundwell & Nyholm, Botaniska Notiser 116: 94. 1963.

Imbribryum N. Pedersen

This genus was described based on molecular and morphological data by Pedersen and Hedenäs (2005) and Pedersen (2005). It consists primarily of the large imbricate-leaved species in *Bryum* section *Alpiniformia*. Four North American species are transferred.

Imbribryum gemmiparum (De Notaris) J.R. Spence, **comb. nov.**
Basionym: *Bryum gemmiparum* De Notaris, Commentario della Società Crittogamologica Italiana 2: 212 [112] [Cronaca Briol. Ital. 1: 25]. 1865.

Imbribryum microchaeton (Hampe) J.R. Spence, **comb. nov.**
Basionym: *Bryum microchaeton* Hampe, Annales des Sciences Naturelles; Botanique, sér. 5, 4: 342. 1865.

Imbribryum mildeanum (Juratzka) J.R. Spence, **comb. nov.** Basionym: *Bryum mildeanum* Juratzka, Verhandlungen der Zoologisch-botanischen Gesellschaft in Wien 12: 967. 1862.

Imbribryum miniatum (Lesquereux) J.R. Spence, **comb. nov.**
Basionym: *Bryum miniatum* Lesquereux, Memoirs of the California Academy of Sciences 1: 23. 1868.

***Ptychostomum* Hornschuch**

Continuing fieldwork and examination of collections has documented or confirmed the existence of several additional species in North America. The following 10 species found in North America are transferred to the genus.

- Ptychostomum acutiforme* (Limpricht) J.R. Spence **comb. nov.**
Basionym: *Bryum acutiforme* Limpricht, Tromsø Museums
Aarshefter 21-22: 156. 1901.
- Ptychostomum axel-blyttii* (H. Philibert) J.R. Spence, **comb. nov.**
Basionym: *Bryum axel-blyttii* H. Philibert, Revue Bryologique
16: 61. 1889.
- Ptychostomum archangelicum* (Bruch & W.P. Schimper in B.S.G.)
J.R. Spence, **comb. nov.** Basionym: *Bryum archangelicum*
Bruch & Schimper in B.S.G., Bryol. Eur. 4: 153, pl.
333. 1846.
- Ptychostomum badium* (Bridel) J.R. Spence, **comb. nov.** Basionym:
Bryum caespiticium var. *badium* Bridel, Bryol. Univ. 1: 850.
1827.
- Ptychostomum bryoides* (R. Brown) J.R. Spence **comb. nov.**
Basionym: *Pohlia bryoides* R. Brown, Chloris Melvilliana 38:
1823.
- Ptychostomum funkii* (Schwägrichen) J.R. Spence **comb. nov.**
Basionym: *Bryum funkii* Schwägrichen, Species Muscorum
Frondosorum, Supplementum Primum 2: 89. pl. 69.
1816.
- Ptychostomum kunzei* (Hornschuch) J.R. Spence **comb. nov.**
Basionym: *Bryum kunzei* Hornschuch, Flora 2(1): 90. 1819.
- Ptychostomum nitidulum* (Lindberg) J.R. Spence **comb. nov.**
Basionym: *Bryum nitidulum* Lindberg, Öfversigt of
Förhandlingar: Kongl. Svenska Vetenskaps-Akademien 23:
545. 1866.
- Ptychostomum ovatum* (Hedwig) J.R. Spence, **comb. nov.** Basionym:
Gymnostomum ovatum Hedwig, Species Muscorum
Frondosorum 31. pl. 2: 1-3. 1801.

Ptychostomum teres (Lindberg) J.R. Spence **comb. nov.** Basionym:
Bryum teres Lindberg, Öfversigt af Förhandlingar: Kongl.
Svenska Vetenskaps-Akademien 23: 545. 1866.

Rosulabryum J.R. Spence

One species is transferred to this genus as there is a need for the name to be made available quickly for other pending studies, including the forthcoming Moss Flora of Colorado. The status and taxonomy of the genus in North America will be analyzed in a separate paper (Spence in prep.).

Rosulabryum flaccidum (Bridel) J.R. Spence, **comb. nov.** Basionym:
Bryum flaccidum Bridel, Bryologia Universa 1: 667. 1826.

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