

Typifications of three old names of *Metzgeria* species (Hepaticae): *Jungermannia furcata* L. 1753, *J. linearis* Sw. 1788 and *J. pubescens* Schrank 1792

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Résumé – Les auteurs désignent un lectotype (icône) et un épitype pour *Jungermannia furcata* L. 1753, un lectotype pour *J. linearis* Sw. 1788 et un néotype pour *J. pubescens* Schrank 1792.

Abstract – We designate a lectotype (icon.) and epitype for *Jungermannia furcata* L. 1753, a lectotype for *J. linearis* Sw. 1788 and a neotype for *J. pubescens* Schrank 1792.

Jungermannia furcata / *Jungermannia linearis* / *Jungermannia pubescens* / *Metzgeria*

INTRODUCTION

The new typifications are presented in the following format: basionym with full bibliographic reference, an accepted current name (in bold), designation of lectotype or neotype. In addition an epitype is designated for *Jungermannia furcata* L., whose lectotype is an illustration. Recent full descriptions and illustrations for the treated species are cited. The reasoning for each of the typifications is briefly given in the notes.

NEW TYPIFICATIONS

Jungermannia furcata L., *Sp. Pl.*: 1136. 1753

≡ ***Metzgeria furcata*** (L.) Dumort., *Recueil Observ. Jungerm.*: 26. 1835.

Lectotype (designated here): [icon.] “*Lichenastrum tenuifolium, furcatum, thecis globosis pilosis*” in Dillenius, *Historia Muscorum* t. 74, f. 45 A-C, F-G (excl.

D-E; see Lindberg 1878: 32, 36). 1742 “1741”. — **Epitype** (designated here): OXF (Herb. Dillenius fol. 163, n. 45), isoepitype: H-SOL (ex Herb. Dillenius fol. 163, n. 45)!

Description and illustration. — Schuster, 1992: 679-694, fig. 886-888; Paton, 1999: 552, fig. 278.

Note. — As pointed out by Lindberg (1878), the original material of *Jungermannia furcata* L. is heterogeneous and comprises the dioicous *M. furcata* s. str. and the autoicous, and otherwise clearly distinct *M. conjugata* Lindb. By the above lectotype and epitype designation the uniform, since Lindberg (1878), use of the name *M. furcata* for the dioicous, very widespread species is secured. The epitype designated above consists of dioicous male and female plants, several of the latter with mature calyptra.

Jungermannia furcata L. is the type of *Metzgeria* Raddi 1818, designated by Kuwahara (1966).

Jungermannia linearis Sw., *Nova Gen. Spec. Pl. Prodr.*: 145. 1788.

≡ ***Metzgeria linearis*** (Sw.) Austin, *Bull. Torrey Bot. Club* 6(3): 18. 1875 (Mar.). ≡ *Steearella linearis* (Sw.) Kuwah., *Amer. J. Bot.* 60: 604. 1973.

Lectotype (designated here): Jamaica. Swartz (S[B27989]!), isolecto: G-4076 [Kuwahara 1973], S[B22627]!).

Description and illustration. — Kuwahara, 1973: 603-604, fig. 1-9; 1986: 184-188, fig. 78-79, both as *Steearella linearis*.

Note. — In the protologue, it is reported from “Jamaica, Hispaniola” [= Dominican Rep.]. The application of this name by Lindberg (1878) includes *M. lilliana* Steph. (see Appendix). The latter was treated as a synonym of *M. linearis* by Kuwahara (1973), but as a separate species by Kuwahara (1986). *Metzgeria linearis* s.str. is known only from Jamaica and the Dominican Rep., whereas *M. lilliana* is recorded only from Jamaica and Cuba, leg. Wright (Kuwahara, 1986). The report of *M. linearis* from Cuba by Lindberg (1878) inclusively his fig. 9, which is drawn from a Cuban specimen leg. Wright, is erroneous and referable to *M. lilliana*.

The priority of the combination *M. linearis* (Sw.) Austin 1875 (Mar.) over *M. linearis* (Sw.) Lindb. 1875 (May/Jun.) has already been confirmed in the *Index Hepaticarum* (Bischler & Geissler, 1985).

Jungermannia linearis Sw. is the type of *Metzgeria* sect. *Sclerocaulon* Lindb. (Lindberg, 1878), *M.* subg. *Sclerocaulon* (Lindb.) R.M.Schust. (Schuster, 1992: 665) and a separate genus *Steearella* Kuwah. (Kuwahara, 1973). But the latter has been merged in the synonymy of *Metzgeria* Raddi by Schuster (1991: 148).

Jungermannia pubescens Schrank, *Primitiae Flor. Salisburg.*: 231. 1792.

≡ ***Metzgeria pubescens*** (Schrank) Raddi, *Jungermannioogr. Etrusca*: 35. 1818 (= *Mem. Mat. Fis. Soc. Ital. Sci. Modena, Pt. Mem. Fis.* 18: 46. 1818).

≡ *Apometzgeria pubescens* (Schrank) Kuwah., *Rev. Bryol. Lichénol.* 34: 214. 1966.

Neotype (designated here): Austria. “An feuchten, schattigen Kalkfelsen der Gebirge um Salzburg.” Sauter [Rabenh., *Hep. Europ. (Exs.)* no. 84] (W!; isoneo: FR!, G!, GOET!, JE!, L!, M-0033802!, S!, TUB!).

Description and illustration. — Schuster, 1992: 671-674, fig. 885; Paton 1999: 555-556, fig. 281 as *Apometzgeria pubescens*.

Note. — The application of this name has apparently always been clear. The species is widespread in temperate-boreal Laurasia. Original material from Austria, Salzburg “ad Hintersee ... D. Iraseck” in Schrank, *Primitiae Flor.*

Salisburg.: 231. 1792 could be not located in BR, G, JE, M, MW, S, and W (Grolle 1976: 179). Neither could the original material from Herborn (Hesse) in Germany of Leers (1775) be located.

Jungermannia pubescens Schrank is the type of *Apometzgeria* Kuwah. (Kuwahara, 1966: 212) and *Metzgeria* subg. *Apometzgeria* (Kuwah.) R.M.Schust. (Schuster, 1992).

Appendix

Metzgeria lilliana Steph., *Spec. Hep.* 6: 53. 1917.

≡ *Steereella lilliana* (Steph.) Kuwah., *Bryoph. Biblioth.* 28: 179. 1986.

Holotype: Jamaica, 1909 leg. Maxwell; G-9878.

Description and illustration. – Lindberg 1878: 44 (in part), fig. 9 (wholly) as *Metzgeria linearis*. Stephani, 1985 Icon. no. 7611 as *Metzgeria lilliana*. Kuwahara, 1986: 179-184, fig. 75-77 as *Steereella lilliana*.

For the distinction between *M. linearis* and *M. lilliana* see Kuwahara (1986: 179).

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