



A taxonomic revision of the tribe Pleuroweisieae (Pottiaceae, Bryophyta) in South America

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Abstract

The genera *Anoetangium*, *Gymnostomum*, *Hymenostylium*, and *Molendoa*, included in the tribe Pleuroweisieae, are studied in South America. After a thorough revision of both herbarium material and our own recent collections from the area, we recognize eight species among these genera. In *Hymenostylium*, *H. recurvirostrum* and *H. aurantiacum* are accepted, the latter newly reported for the territory. *Hymenostylium contextum* and *H. kunzeanum* are placed in the synonymy of *H. recurvirostrum* and *Weissia stillicidiorum* and *Hydrogonium taylorii* of *H. aurantiacum*. In *Gymnostomum*, only *G. calcareum* is recognized in South America. *Gymnostomum tenerrimum* is considered a synonym of *G. calcareum* and *G. aeruginosum* is tentatively excluded from the area. In *Molendoa*, *M. sendtneriana* and *M. peruviana* comb. nov. are recognized. *Anoetangium calidum*, *Molendoa andina*, *M. subobtusifolia*, and *Trichostomum glaucoviride* are proposed as synonyms of *M. sendtneriana* and *Anoetangium herzogii*, *A. platyphyllum*, *A. lechlerianum* and *Triquetrella cucullata* of *M. peruviana*. *Molendoa fuegiana* and *M. guentheri* are excluded from *Molendoa* and considered synonyms of *Didymodon australasiae*. In *Anoetangium*, *A. aestivum*, *A. euchloron* and *A. stracheyanum* are accepted. *Anoetangium brachyphyllum* and *Zygodon tenellus* are treated as synonyms of *A. euchloron*, *A. pflanzii* of *A. aestivum* and *A. lechlerianum* var. *laetior* and *Zygodon linearis* of *A. stracheyanum*. *Anoetangium herzogii*, *A. calidum*, and *A. lechlerianum* var. *limbatulum* are excluded from *Anoetangium*. The first is considered conspecific with *Molendoa peruviana* and the rest with *M. sendtneriana*. The genus *Tuerckheimia* represented by *T. guatemalensis* is excluded from South America. Lectotypes for twenty two names (*Anoetangium euchloron* f. *elata*, *A. herzogii*, *A. lechlerianum*, *A. lechlerianum* var. *laetior*, *A. lechlerianum* var. *limbatulum*, *A. patagonicum*, *A. pflanzii*, *A. sendtnerianum*, *A. sordidum*, *A. tenerrimum*, *Gymnostomum longirostre*, *G. recurvirostrum*, *Hymenostylium contextum*, *H. longopulvinatum*, *Molendoa fuegiana*, *Trichostomum glaucoviride*, *Triquetrella cucullata*, *Weissia stillicidiorum*, *W. venezuelensis*, *Zygodon excelsus*, *Z. linearis* and *Z. tenellus*) are proposed. A key, descriptions, illustrations and distribution maps are provided for each species.

Key words: *Anoetangium*, *Gymnostomum*, *Hymenostylium*, lectotypes, *Molendoa*, new records, taxonomy, *Tuerckheimia*

Introduction

Pleuroweisieae was proposed as a subfamily of Pottiaceae by Limpricht (1886), and later treated as a tribe within Eucladioideae by Chen (1941). This latter author included three genera in the tribe Pleuroweisieae: *Pleuroweisia* Limpr. ex Schliephacke (1885: 359), *Anoetangium* Schwägrichen (1811: 33) and *Molendoa* Lindberg (1878: 29), and seven in Eucladioideae: *Eucladium* Bruch & Schimper (1846: 93), *Gymnostomum* Nees von Esenbeck & Hornschuch (1823: 112), *Gyroweisia* Schimper (1876: 36), *Hymenostylium* Bridel (1827: 81), *Hymenostyliella* Bartram (1939: 108), *Reimersia* Chen (1941: 62), and *Tridontium* Hooker (1840: pl. 148). Saito (1975), in his monograph of Japanese Pottiaceae, treated Chen's Eucladioideae as tribe Pleuroweisieae in the subfamily Pottioideae, including within it Leptodontieae, Barbuleae and Pottieae. According to Saito (1975), this tribe is characterized by the hardly differentiated basal laminal cells, plane basal leaf margins, the low gemmae-formation, and eperistomate or reduced peristome in the capsule.

Tuerckheimia guatemalensis Brotherus (1910: 1)

In South America, this species was reported from a single locality in Brazil (Yano & Barros 2004). After revision of the specimen kept at SP [Brazil, Mato Grosso, Munic. Alto Taquarí, ca 25 km à Sudeste da Cidade, estrada de acesso à Fazendas, córrego da Laje, 21 February 1996, *Pietrobon da Silva et al.* 3021 (SP)], it must be referred to *Anoetangium euchloron*. Therefore, *T. guatemalensis* must be excluded from the studied area.

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