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ABSTRACT

A summary of the taxonomic history of the genus *Bartramia* is presented. The genus used to be divided into three sections, viz. *Bartramia*, *Vaginella* and *Strictidium*. The section *Bartramia* is distributed in temperate and tropical montane to subalpine areas and is defined by rounded capsules with a double peristome, papillose spores and one or two subfloral branches and the leaves gradually narrowing and unistratose along the entire length. The section *Vaginella* has an arctic/antarctic to temperate and tropical montane to alpine distribution, and is defined by rounded capsules, papillose spores, one or two subfloral branches and leaves differentiated into a lower broad unistratose, vaginal part and an upper bi- or tristratose, subular part. The section *Strictidium*, which I have not revised, is mainly distributed in drier areas with a Mediterranean climate. The leaf anatomy of *Bartramia stricta* is similar to that of *Anacolia* and the leaves also have axillary hairs of the same type as in *Anacolia*, suggesting that the section *Strictidium* might be more closely related to *Anacolia*. In the section *Bartramia* I have recognized three species, viz. *B. halleriana*, *B. mossmaniana* and *B. pomiformis*. In the section *Vaginella* I have recognized 22 species and altogether 29 taxa, viz. *B. angustifolia*, *B. aurescens*, *B. brachypus*, *B. brevifolia* subsp. *brevifolia*, *B. b.* subsp. *commutata*, *B. breviseta*, *B. conica*, *B. decidualifolia*, *B. gigantea*, *B. hampeana* subsp. *hampeana*, *B. h.* subsp. *hampei*, *B. humilis*, *B. ithyphylla* subsp. *ithyphylla*, *B. i.* subsp. *patens*, *B. ithyphylloides*, *B. longifolia*, *B. mathewsii* subsp. *mathewsii*, *B. m.* subsp. *brasiliensis*, *B. m.* subsp. *synoica*, *B. perumila*, *B. pilicuspes*, *B. polytrichoides*, *B. potosica* subsp. *potosica*, *B. p.* subsp. *synoica*, *B. robusta*, *B. strumosa*, *B. subsymmetrical*, *B. subulata* subsp. *subulata* and *B. s.* subsp. *americana*. Four new subspecies are described, viz. *B. mathewsii* subsp. *brasiliensis*, *B. m.* subsp. *synoica*, *B. potosica* subsp. *synoica* and *B. subulata* subsp. *americana*. Five new combinations are made, viz. *Anacolia campylopus*, *Bartramidula setifolia*, *B. brevifolia* subsp. *commutata*, *B. hampeana* subsp. *hampei* and *B. ithyphylla* subsp. *patens* and 138 names are treated as synonyms.

Key words: *Bartramia*, Bartramiaceae, Musci, taxonomy, revision, species delimitation, distribution, Holarctic, Tropics, Southern hemisphere.

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