

ADDITIONAL NEW NAMES AND COMBINATIONS IN *SCHISTIDIUM* (GRIMMIACEAE)

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Despite its distinctness, the genus *Schistidium* Bruch & Schimp. has not long been universally accepted and usually it was merged with the catch-all genus *Grimmia* Hedw. Consequently, many distinct species of *Schistidium* were originally placed in *Grimmia*. The turning point for acceptance of *Schistidium* as a genus in its own right was the excellent taxonomic treatment of the *Schistidium apocarpum* (Hedw.) Bruch & Schimp. complex by Blom (1996, 1998) which covered Fennoscandia and the conterminous areas of Central Europe, as well as temperate and arctic Asia and North America, in which this author showed convincingly that the so-called *S. apocarpum* was actually an aggregate of a good number of distinct and well defined species. Since then taxonomic studies of this genus have developed dynamically in various regions of the globe and have shown that *Schistidium* is a fairly large genus with apparently many undescribed species, especially outside Europe. A number of species originally described in *Grimmia* have been transferred to *Schistidium* (Ochyra 1999; Ochyra & Muñoz 2000) or described as new to science (Ignatova *et al.* 2011). Because there are several distinct taxa clearly belonging within *Schistidium* but which originally were given names under *Grimmia*, the following new nomenclatural changes are proposed. Some of these were originally described by Cardot (1908) from Japan as varieties of the broadly conceived *Grimmia apocarpa* Hedw. but they appear to be distinct species and therefore are raised to species.

Schistidium aomoriense (Cardot) Ochyra & Bednarek-Ochyra, *stat. et comb. nov.*

BASIONYM: *Grimmia apocarpa* Hedw. var. *aomoriensis* Cardot, Bull. Herb. Boissier, Sér. 2, **8**: 332. 1908.

Schistidium austropatens Ochyra & Bednarek-Ochyra, *nom. nov.*

TYPONYM: *Grimmia austropatens* Müll. Hal., Hedwigia **38**: 121. 1899 ['austro-patens'], *hom. illeg.*

Schistidium denticulatum (Cardot) Ochyra & Bednarek-Ochyra, *stat. et comb. nov.*

BASIONYM: *Grimmia apocarpa* Hedw. var. *denticulata* Cardot, Bull. Herb. Boissier, Sér. 2, **8**: 332. 1908.

Schistidium filicaule (Müll. Hal.) Ochyra & Bednarek-Ochyra, *comb. nov.*

BASIONYM: *Grimmia filicaulis* Müll. Hal., Nuov. Giorn. Bot. Ital. N. Ser. **3**: 108. 1896.

Schistidium kiyoshii (S. Okamura) Ochyra & Bednarek-Ochyra, *comb. nov.*

BASIONYM: *Grimmia kiyoshii* S. Okamura, J. Coll. Sc. Imp. Univ. Tokyo **38**(4): 12, *f.* 5. 1916.

Schistidium limbatulum (Müll. Hal.) Ochyra & Bednarek-Ochyra, *comb. nov.*

BASIONYM: *Grimmia limbatula* Müll. Hal., Nuov. Giorn. Bot. Ital. N. Ser. **3**: 108. 1896.

Schistidium mamillatum (Cardot) Ochyra & Bednarek-Ochyra, *stat. et comb. nov.*

BASIONYM: *Grimmia apocarpa* Hedw. var. *mamillata* Cardot, Bull. Herb. Boissier, Sér. 2, **8**: 332. 1908.

Schistidium microphyllum (Cardot) Ochyra & Bednarek-Ochyra, *stat. et comb. nov.*

BASIONYM: *Grimmia apocarpa* Hedw. var. *microphylla* Cardot, Bull. Herb. Boissier, Sér. 2, **8**: 332. 1908.

Schistidium microtheca (Cardot) Ochyra & Bednarek-Ochyra, *stat. et comb. nov.*

BASIONYM: *Grimmia apocarpa* Hedw. var. *microtheca* Cardot, Bull. Herb. Boissier, Sér. 2, **8**: 332. 1908.

ACKNOWLEDGEMENTS. We are grateful to Arthur Copping (Roydon, Diss, UK) for checking the English. This study was partly financed through the statutory fund of the Institute of Botany of the Polish Academy of Sciences and it also gained financial support from the Polish Ministry of Science and Higher Education through grants No. N N 303 469 338 for the first author and No. N N 303 796 940 for the second author and this assistance is gratefully acknowledged.

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Received 10 June 2011