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# Bryophytes of Turkey: An Annotated Reference List of the Species with Synonyms from the Recent Literature and an Annotated List of Turkish Bryological Literature

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**Abstract:** Based on published records, in Turkey 3 species of *Anthocerotopsida*, 163 species and intraspecific taxa of *Hepaticopsida* and 721 species and intraspecific taxa of *Bryopsida* are recognised. They are listed in alphabetical order in a reference list to achieve a certain standardisation in the use of names. Including synonyms, in total 1731 names are treated. Critical taxa, doubtful records or taxonomical remarks are briefly discussed in 77 annotations. In addition, an up-to-date list of 219 references (from 1829 to January 2004) on the bryological literature of Turkey is given. The references are annotated and provide information on content, especially on the new taxa published in the older literature.

**Key Words:** *Anthocerotopsida*, *Bryopsida*, check-list, *Hepaticopsida*, literature, nomenclature, taxonomy, Turkish bryophytes

## Türkiye Biryofitleri - Güncel Literatürden Sinonimlerle Birlikte, Açıklamalı Referans Liste ve Türkiye Biryolojik Literatürünün Açıklamalı Listesi

**Özet:** Yayımlanmış kayıtlar temelinde, Türkiye'den 3 *Anthocerotopsida* türü, 163 *Hepaticopsida* ve 721 *Bryopsida* taksonu belirlenmiş; isimlerin kullanımında belirli standardı sağlamak için alfabetik olarak bir başvuru listesinde sıralanmışlardır. Sinonimlerle birlikte, toplam 1731 isim işlem görmüştür. Kritik taksonlar, kuşkulu kayıtlar veya taksonomik vurgular, 77 açıklamada kısaca tartışılmıştır. Ek olarak, Türkiye biryolojik literatürü üzerine yapılmış 219 referansın (1829'dan Ocak 2004'e) güncellenmiş bir listesi verilmiştir. Referanslar açıklamalı olup, özellikle yeni taksonların yayımlandığı eski literatür hakkında bilgi sağlayıcıdır.

**Anahtar Sözcükler:** *Anthocerotopsida*, *Bryopsida*, çek-list, *Hepaticopsida*, nomenklatur, taksonomi, Türkiye Biryofitleri

### Introduction

The present reference list, a new check-list for Turkish bryophytes and annotated list on the bryological literature of Turkey, is submitted as a first step towards a bryophyte flora of Turkey. The aim of the work is to enumerate as accurately as possible all acceptable species of bryophytes known from Turkey, to achieve a certain standardisation in the use of names, which is urgently needed. At the same time, it replaces the older check-lists of Çetin (1988a, 1988 b) and Frey & Kürschner (1991)

and the first annotated reference list on the bryophytes of the Near and Middle East including Turkey (Kürschner, 1997) that today are out of date.

### Reference list of Turkish bryophytes

The reference list of Turkish bryophytes is confined to names of species, as well as intraspecific taxa (subspecies, varieties), and includes all names hitherto published in the literature relevant for Turkey. The list contains 3 species

of *Anthocerotopsida*, 163 species and intraspecific taxa of *Hepaticopsida*, and 721 species and intraspecific taxa of *Bryopsida*, which are arranged strictly in alphabetical order, to make finding a taxon easier. Including synonyms, in total 1731 names (genera, species, subspecies, varieties) are treated.

The nomenclature follows Koperski et al. (2000), in extra-European taxa Grolle & Long (2000) for the *Hepaticopsida*, and Corley et al. (1981) and Corley & Crundwell (1991) for the *Bryopsida*. In a number of genera (e. g., *Amblystegium* Schiffn., *Bryum* Hedw., *Cratoneuron* (Sull.) Spruce, *Grimmia* Hedw., *Gymnocolea* (Dumort.) Dumort., *Jungermannia* L., *Palustriella* Ochyra, *Tortula* Hedw., or *Syntrichia* Brid.) there exist in the recent literature conflicting opinions on particular species and synonyms. In these cases the opinions of specialists have generally been followed.

Authors' citations are given in full, except when the describing (or combining) author wrote in a publication by another author (in citations), where the name following in is omitted. Author abbreviations follow Brummitt & Powell (1992) for the most part. Important changes are C. Müll. → Müll. Hal., and K. Müll. → Müll. Frib. (cf. Ludwig et al., 1996), as well as the correct citation of B. S. G. or B., S. & G. for Bruch, Schimper & GümbeL, the authors of the *Bryologia Europaea* (Bruch et al., 1836-1855). As GümbeL has acted only as an illustrator, all taxa refer to Bruch & Schimper (Fascicles 1-43, 1836-1850) or Schimper only (Fascicles 44-65, December 1850-1856, mainly pleurocarpous mosses). Accepted names are given in bold and the complete nomenclatural reference is given additionally. Synonyms are given in italic only and indented, followed by an indication (arrow) of the correct and accepted name (not italic).

In 77 annotations (indicated as numbers in square brackets), the taxonomy, nomenclature and synonymies of critical taxa are briefly discussed, based on recent literature sources.

## Reference list

### **Anthocerotophytina**

**Anthoceros** L., Spec. Plant.: 1139. 1753

*Anthoceros dichotomus* Raddi → **Phaeoceros bulbiculosus**

*Anthoceros husnotii* Steph. → **Anthoceros punctatus**

*Anthoceros laevis* L. → **Phaeoceros laevis**

**Anthoceros punctatus** L., Spec. Plant.: 1139. 1753

**Phaeoceros** Proskauer, Bull. Torrey Bot. Cl. 78: 346. 1951

**Phaeoceros bulbiculosus** (Brotéro) Proskauer, Rapp. Comment. 8. Congr. Int. Bot. Paris 14/16: 69. 1954

**Phaeoceros laevis** (L.) Proskauer, Bull. Torrey Bot. Cl. 78: 347. 1951

### **Hepaticophytina**

**Aneura** Dumort., Comment. Bot. 115. 1822

**Aneura pinguis** (L.) Dumort., Syll. Jungerm. Europ.: 86. 1831.

**Anthelia** (Dumort.) Dumort., Recueil Observ. Jungerm.: 18. 1835

**Anthelia julacea** (L.) Dumort., Recueil Observ. Jungerm.: 21. 1835

**Apometzgeria** Kuwah., Rev. Bryol. Lichén. 34: 212. 1966

**Apometzgeria pubescens** (Schrank) Kuwah., Rev. Bryol. Lichén. 34: 212. 1966

**Asterella** P. Beauv., Dict. Sci. Nat. 3: 257. 1805

**Asterella gracilis** (F. Weber) Underw., Bot. Gaz. 20: 61. 1895.

*Asterella ludwigii* auct. → **Asterella gracilis**

**Athalamia** Falc., Trans. Linn. Soc. London 20: 397. 1851

**Athalamia hyalina** (Sommerf.) S. Hatt., J. Hattori Bot. Lab. 12: 54. 1954

**Athalamia spathysii** (Lindenb.) S. Hatt., J. Hattori Bot. Lab. 12: 54. 1954

*Aytonia rupestris* Forst. → **Plagiochasma rupestre**

**Barbilophozia** Loeske, Verh. Bot. Ver. Prov. Brandenburg 49: 37. 1907

**Barbilophozia attenuata** (Mart.) Loeske, Ver. Bot. Ver. Prov. Brandenburg 49: 37. 1907

**Barbilophozia barbata** (Schmidel ex Schreb.) Loeske, Ver. Bot. Ver. Prov. Brandenburg 49: 37. 1907

- Barbilophozia hatcheri* (A. Evans) Loeske var. *grandiretis* H. Buch, Ann. Bot. Fenn. 14: 70. 1977
- Barbilophozia hatcheri* (A. Evans) Loeske var. *hatcheri*, Ver. Bot. Ver. Prov. Brandenburg 49: 37. 1907
- Bazzania* S. F. Gray, Nat. Arr. Brit. Pl. 1: 704, 775. 1821, corr. Carrington („*Bazzanius*“), nom. cons., orth. cons.
- Bazzania flaccida* (Dumort.) Grolle, Lindbergia 1: 200. 1973
- Bazzania tricrenata* (Wahlenb.) Lindb., Musci Fenn. Exsicc. 2: [2]. 1872
- Bazzania trilobata* (L.) S. F. Gray, Nat. Arr. Brit. Pl. 1: 704. 1821
- Blasia* L., Spec. Plant.: 1138. 1753
- Blasia pusilla* L., Spec. Plant. 1138.: 1753
- Blepharostoma* (Dumort.) Dumort., Recueil Observ. Jungerm.: 18. 1835
- Blepharostoma trichophyllum* (L.) Dumort., Recueil Observ. Jungerm.: 18. 1835
- Calypogeia* Raddi, Jungermannigrafia Etrusca: 31. 1818, corr. Corda („*Calypogeja*“), nom. cons., orth. cons.
- Calypogeia arguta* Nees & Mont., Naturgesch. Eur. Leberm. 3: 24. 1838
- Calypogeia azurea* Stotler & Crotz, Taxon 32: 74. 1983
- Calypogeia fissa* (L.) Raddi, Jungermannigrafia Etrusca: 33. 1818
- Calypogeia muelleriana* (Schiffn.) Müll. Frib., Beih. Bot. Centralbl. 10: 217. 1901
- Calypogeia sphagnicola* (Arnell & J. Perss.) Warnst. & Loeske, Verh. Bot. Ver. Prov. Brandenb. 47: 320. 1905.
- Calypogeia trichomanis* auct. → *Calypogeia azurea*
- Cephalozia* (Dumort.) Dumort., Recueil Observ. Jungerm.: 18. 1835
- Cephalozia bicuspidata* (L.) Dumort., Recueil Observ. Jungerm.: 18. 1835
- Cephalozia catenulata* (Huebener) Lindb., Acta Soc. Sci. Fenn. 10: 262. 1872
- Cephalozia macrantha* Kaal. & W. E. Nicholson, → *Cephalozia pleniceps*
- Cephalozia pleniceps* (Austin) Lindb., Bot. Not. [1883]: 18. 1883
- Cephalozia reclusa* (Taylor) Dumort. → *Cephalozia catenulata*
- Cephaloziella* (Spruce) Schiffn., Nat. Pflanzenfam. 3: 98. 1893
- Cephaloziella baumgartneri* Schiffn., Ver. Zool. Bot. Ges. Wien 56: 273. 1906
- Cephaloziella divaricata* (Sm.) Schiffn. var. *stellulifera* Spruce → *Cephaloziella stellulifera*
- Cephaloziella divaricata* (Sm.) Schiffn., Nat. Pflanzenfam. 3: 99. 1893
- Cephaloziella hampeana* (Nees) Schiffn., Moosfl. Harz.: 92.. 1903
- Cephaloziella rubella* (Nees) Warnst., Krypt.-Fl. Brandenburg. 1: 231. 1902.
- Cephaloziella starkei* auct. → *Cephaloziella divaricata*
- Cephaloziella stellulifera* (Taylor ex Spruce) Schiffn., Oesterr. Bot. Zeitschr. 55: 289. 1905
- Cephaloziella turneri* (Hook.) Müll. Frib., Leberm. 2: 202. 1913
- Chiloscyphus* Corda, Naturalientausch [12]: 651. 1829, corr. Dumort. („*Cheiloscypus*“), nom. cons., orth.cons.
- Chiloscyphus fragilis* (Roth) Schiffn. → *Chiloscyphus pallescens*
- Chiloscyphus pallescens* (Hoffm.) Dumort., Syll. Jungerm. Eur.: 67. 1831
- Chiloscyphus polyanthus* (L.) Corda var. *pallescens* (Hoffm.) Hartm. → *Chiloscyphus pallescens*
- Chiloscyphus polyanthus* (L.) Corda, Naturalientausch[12]: 651. 1829
- Chiloscyphus rivularis* (Schrad.) Hazsl. → *Chiloscyphus polyanthus*
- Cladopodiella* H. Buch, Mem. Soc. F. Fl. Fenn. 1: 89. 1927
- Cladopodiella fluitans* (Nees) H. Buch, Ann. Bot. Soc. Zool.-Bot. Fenn. „Vanamo“ 2: 109. 1932
- Clevea* Lindb. → *Athalamia*
- Clevea hyalina* (Sommerf.) Lindb. → *Athalamia hyalina*
- Clevea rouseliana* (Montg.) Leitg. ex Steph. → *Athalamia hyalina*

*Clevea spathysii* (Lindenb.) Müll. Frib. → *Athalamia spathysii*

*Cololejeunea* (Spruce) Schiffn., Nat. Pflanzenfam. 3: 117. 1893

*Cololejeunea calcarea* (Lib.) Schiffn., Nat. Pflanzenfam. 3: 122. 1893

*Cololejeunea rossettiana* (C. Massal.) Schiffn., Nat. Pflanzenfam.. 3: 122. 1893

*Conocephalum* Hill, Gener. Nat. Hist. ed. 2: 118. 1773, corr. F. H. Wigg. („*Conocephala*“), nom. cons., orth. cons.,

*Conocephalum conicum* (L.) Dumort., Comment. Bot.: 115. 1822

*Corsinia* Raddi, Opusc. Sci. (Bologna) 2: 354. 1818

*Corsinia coriandrina* (Spreng.) Lindb., Hepat. Utvekl.: 30. 1877

*Diplophyllum* (Dumort.) Dumort., Recueil Observ. Jungerm.: 15. 1835

*Diplophyllum albicans* (L.) Dumort., Recueil Observ. Jungerm.: 16. 1835

*Diplophyllum taxifolium* (Wahlenb.) Dumort., Recueil Observ. Jungerm.: 16. 1835

*Fegatella conica* (L.) Corda, → *Conocephalum conicum*

*Fimbr(i)aria* Nees → *Asterella*

*Fimbriaria ludwigii* auct. → *Asterella gracilis*

*Fossombronina* Raddi, Jungermanniografia Etrusca: 29. 1818

*Fossombronina angulosa* (Dicks.) Raddi, Mem. Soc. Ital. Sci. Modena 18: 40. 1820

*Fossombronina caespitiformis* De Not., Hepat. Eur. Exsicc.: 123. 1863

*Fossombronina foveolata* Lindb., Helsingfors Dagblad [1873] (353): 2. 1873 - [1]

*Fossombronina husnotii* Corb., Mém. Soc. Nat. Cherbourg 26: 353. 1889

*Fossombronina pusilla* (L.) Nees, Naturgesch. Eur. Leberm. 3: 319. 1838

*Frullania* Raddi, Jungermanniografia Etrusca: 9. 1818

*Frullania dilatata* (L.) Dumort., Recueil Observ. Jungerm.: 13. 1835

*Frullania dilatata* (L.) Dumort. var. *anomala* Corb. → *Frullania dilatata* - [2]

*Frullania dilatata* (L.) Dumort. var. *blanda* De Not. - [3]

*Frullania jackii* Gottsche, Hepat. Eur. Exsicc.: 294. 1863

*Frullania tamarisci* (L.) Dumort. var. *atrovirens* Carr., Trans. Roy. Soc. Edinb. 7: 457. 1863

*Frullania tamarisci* (L.) Dumort. var. *tamarisci*, Recueil Observ. Jungerm.: 13: 1835

*Gongylanthus* Nees, Nat. Eur. Leberm. 2: 388. 1836

*Gongylanthus ericetorum* (Raddi) Nees, Nat. Eur. Leberm. 2: 407. 1836

*Grimaldia* Raddi 1818, non Schrank 1805 → *Mannia*

*Grimaldia dichotoma* auct. → *Mannia androgyna*

*Grimaldia fragrans* (Balbis) Corda ex Nees → *Mannia fragrans*

*Gymnocolea* (Dumort.) Dumort., Recueil Observ. Jungerm.: 17. 1835

*Gymnocolea acutiloba* (Schiffn.) Müll. Frib., Lebermoose 1: 745. 1910 - [4]

*Gymnocolea inflata* (Huds.) Dumort., Recueil Observ. Jungerm.: 17. 1835

*Gymnomitrium* Corda, Naturalientausch [12]: 651. 1829

*Gymnomitrium concinnatum* (Lightf.) Corda var. *concinnatum*, Naturalientausch [12]: 651. 1829

*Gymnomitrium concinnatum* (Lightf.) Corda var. *intermedium* Limpr., Neue Musci Schlesien: 186. 1876

*Isopaches* H. Buch → *Lophozia*

*Isopaches bicrenatus* (Hoffm.) H. Buch → *Lophozia bicrenata*

*Jamesoniella* (Spruce) F. Lees, London Cat. Brit. Moss. (ed. 2): 25. 1881

*Jamesoniella autumnalis* (DC.) Steph., Spec. Hepat. 2: 92. 1901

*Jubula* Dumort., Recueil Observ. Jungerm.: 12. 1835

*Jubula hutchinsiae* (Hook.) Dumort. subsp. *hutchinsiae* var. *sullivantii* Spruce → *Jubula pennsylvanica*

*Jubula hutchinsiae* (Hook.) Dumort. subsp. *javanica* (Steph.) Verd. → *Jubula javanica*

- Jubula javanica* Steph., Spec. Hepat. 4: 688. 1911
- Jubula pennsylvanica* (Steph.) A. Evans, Rhodora 7: 55-56. 1905 - [5]
- Jungermannia* L., Spec. Plant. 1: 1131. 1753
- Jungermannia amplexicaulis* Dumort. → *Jungermannia sphaerocarpa*
- Jungermannia atrovirens* Dumort., Syll. Jungerm. Eur.: 51. 1831
- Jungermannia caucasica* Vána, Preslia 42: 96. 1970
- Jungermannia gracillima* Sm., Engl. Bot. 32: tab. 223b. 1811
- Jungermannia handelii* (Schiffn.) Amak, J. Hattori Bot. Lab. 22: 63. 1960 - [6]
- Jungermannia hyalina* Lyell, Brit. Jungermann.: tab. 63. 1814
- Jungermannia lanceolata* auct. → *Jungermannia leiantha*
- Jungermannia leiantha* Grolle, Taxon 15: 187. 1966
- Jungermannia lignicola* (Schiffn.) Grolle, J. Japan. Bot. 39: 237. 1964
- Jungermannia obovata* Nees, Naturgesch. Eur. Leberm. 1: 332. 1833
- Jungermannia riparia* Taylor → *Jungermannia atrovirens*
- Jungermannia sphaerocarpa* Hook. var. *amplexicaulis* (Dumort.) Frye & Clark, Univ. Washington Publ. Biol. 6: 296. 1943
- Jungermannia sphaerocarpa* Hook. var. *sphaerocarpa*, Brit. Jungermann.: tab. 74. 1815
- Jungermannia subtilissima* (Schiffn.) Grolle, J. Japan. Bot. 39: 237. 1964
- Jungermannia tristis* Nees → *Jungermannia atrovirens*
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- Leiocolea alpestris* (F. Weber) Isov., Ann. Bot. Fenn. 15: 80. 1978 - [7]
- Leiocolea badensis* (Gottsche) Joerg., Bergens Mus. Skrifter 16: 166. 1934
- Leiocolea bantriensis* (Hook.) Joerg., Bergens Mus. Skrifter 16: 164. 1934
- Leiocolea collaris* (Nees) Schljak. → *Leiocolea alpestris*
- Leiocolea turbinata* (Raddi) H. Buch, Ann. Bryol. 10: 4. 1937
- Lejeunea* Lib., Ann. Gén. Sci. Phys. 6: 372. 1820, corr. Hampe („*Lejeunia*“), nom. cons., orth. cons.
- Lejeunea cavifolia* (Ehrh.) Lindb., Acta Soc. Sci. Fenn. 10: 43. 1871
- Lejeunea lamacerina* (Steph.) Schiffn., Hedwigia 41: 278. 1902
- Lejeunea patens* Lindb., Acta Soc. Sci. Fenn. 10: 482. 1875
- Lejeunea serpyllifolia* Lib. → *Lejeunea cavifolia*
- Lejeunea ulicina* (Taylor) Taylor → *Microlejeunea ulicina*
- Lepidozia* (Dumort.) Dumort., Recueil Observ. Jungerm.: 19. 1835
- Lepidozia reptans* (L.) Dumort., Recueil Observ. Jungerm.: 19: 1835
- Lophocolea* (Dumort.) Dumort., Recueil Observ. Jungerm.: 17. 1835 - [8]
- Lophocolea bidentata* (L.) Dumort. var. *bidentata*, Recueil Observ. Jungerm.: 17. 1835
- Lophocolea bidentata* (L.) Dumort. var. *rivularis* (Raddi) Schiffn., Lotos 48: 333. 1900
- Lophocolea cuspidata* (Nees) Limpr. → *Lophocolea bidentata* var. *rivularis*
- Lophocolea heterophylla* (Schrad.) Dumort., Recueil Observ. Jungerm.: 18. 1835
- Lophocolea minor* Nees, Naturgesch. Eur. Leberm. 2: 330. 1836
- Lophozia* (Dumort.) Dumort., Recueil Observ. Jungerm.: 17. 1835
- Lophozia alpestris* auct. → *Lophozia sudetica*
- Lophozia badensis* (Gottsche) Schiffn. → *Leiocolea badensis*
- Lophozia bicrenata* (Hoffm.) Dumort., Recueil Observ. Jungerm.: 17. 1835
- Lophozia collaris* (Nees) Dumort. → *Leiocolea alpestris*
- Lophozia excisa* (Dicks.) Dumort., Recueil Observ. Jungerm.: 17. 1835



**Lophozia incisa** (Schrad.) Dumort., Recueil Observ. Jungerm.: 17. 1835

**Lophozia longidens** (Lindb.) Macoun, Cat. Canad. Pl., Lich. Hepat. 7: 18. 1902

**Lophozia longiflora** (Nees) Schiffn., Lotos 5: 257. 1903

*Lophozia muelleri* (Nees) Dumort. → *Leiocolea alpestris*

*Lophozia porphyroleuca* (Nees) Schiffn. → *Lophozia longiflora*

*Lophozia silvicola* H. Buch → *Lophozia ventricosa*

**Lophozia sudetica** (Huebener) Grolle, Trans. Brit. Bryol. Soc. 6: 262. 1971

*Lophozia turbinata* (Raddi) Steph. → *Leiocolea turbinata*

**Lophozia ventricosa** (Dicks.) Dumort., Recueil Observ. Jungerm.: 17. 1835

**Lunularia** Adans., Fam. Pl. (Adanson) 2: 15. 1763

**Lunularia cruciata** (L.) Dumort. ex Lindb., Not. Saellsk. F. Fl. Fenn. Foerh. 9: 298. 1868

*Madotheca* → *Porella*

*Madotheca cordaeana* (Huebener) Dumort. → *Porella cordaeana*

*Madotheca laevigata* (Schrad.) Dumort. → *Porella arboris-vitae*

*Madotheca platyphylla* (L.) Dumort. → *Porella platyphylla*

*Madotheca platyphylloidea* (Schwein.) Dumort. → *Porella platyphylla*

*Madotheca porella* (Dicks.) Nees → *Porella pinnata*

*Madotheca rivularis* Nees → *Porella cordaeana*

**Mannia** Opiz, Naturalientausch [12]: 646. 1829

**Mannia androgyna** (L.) A. Evans, Chron. Bot. 4: 225. 1938

*Mannia dichotoma* auct. → *Mannia androgyna*

**Mannia fragrans** (Balb.) Frye & L. Clark, Univ. Wash. Publ. Biol. 6: 62. 1937

**Marchantia** L., Spec. Plant.: 1137. 1753

*Marchantia alpestris* (Nees) Burgeff → *Marchantia polymorpha* subsp. *montivagans*

**Marchantia paleacea** Bert., Opusc. Sci. (Bologna): 242. 1817

*Marchantia polymorpha* L. subsp. *alpestris* (Nees) Gams → *Marchantia polymorpha* subsp. *montivagans*

**Marchantia polymorpha** L. subsp. *montivagans* Bischl. & Boisselier, J. Bryol. 16: 364. 1991

**Marchantia polymorpha** L. subsp. *polymorpha*, Spec. Plant.: 1137. 1753

**Marsupella** Dumort., Comment. Bot.: 114. 1822

**Marsupella emarginata** (Ehrh.) Dumort., Recueil Observ. Jungerm.: 24. 1835

**Marsupella funckii** (F. Weber & D. Mohr) Dumort. var. *funckii*, Recueil Observ. Jungerm.: 24. 1835

**Marsupella funckii** (F. Weber & D. Mohr) Dumort. var. *major* (Nees) Boulay, Musc. France 2: 148. 1904 - [9]

**Metzgeria** Raddi, Jungermanniografia Etrusca: 34. 1818

**Metzgeria conjugata** Lindb., Acta Soc. Sci. Fenn. 10: 495. 1875

**Metzgeria furcata** (L.) Dumort., Recueil Observ. Jungerm.: 26. 1835 - [10]

*Metzgeria furcata* (L.) Dumort. var. *ulvula* (Nees) Gottsche → *Metzgeria furcata*

*Metzgeria pubescens* (Schrank) Raddi → *Apometzgeria pubescens*

**Microlejeunea** Steph., Hedwigia 27: 61. 1888

**Microlejeunea ulicina** (Taylor) A. Evans, Mem. Torrey Bot. Cl. 8: 176. 1902

**Mylia** S. F. Gray, Nat. Arr. Brit. Pl. 1: 693. 1821, corr. Lindb. („Mylius“), nom. cons., orth. cons.

**Mylia taylorii** (Hook.) S. F. Gray, Nat. Arr. Brit. Pl. 1: 693. 1821

**Nardia** S. F. Gray, Nat. Arr. Brit. Pl. 1: 694. 1821, corr. Carrington („*Nardius*“), nom. cons., orth. cons.

**Nardia compressa** (Hook.) S. F. Gray, Nat. Arr. Brit. Pl. 1: 694. 1821

*Nardia handelii* Schiffn. → *Jungermannia handelii*

*Nardia handelii* Schiffn. var. *flaccida* Schiffn. → *Jungermannia handelii*

*Nardia lignicola* Schiffn. → *Jungermannia lignicola*

*Nardia subtilissima* Schiffn. → *Jungermannia subtilissima*

*Nowellia* Mitt., Nat. Hist. Acores West. Isl.: 321. 1870

*Nowellia curvifolia* (Dicks.) Mitt., Nat. Hist. Acores West. Isl.: 321. 1870

*Oxymitra* Bisch. ex Lindenb., Nov. Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 14: 124. 1829

*Oxymitr(i)a paleacea* Bisch. ex Lindenb. → *Oxymitra incrassata*

*Oxymitra incrassata* (Brotero) Sérgio & Sim-Sim, J. Bryol. 15: 659-663. 1989

*Pellia* Raddi, Jungermanniografia Etrusca: 38. 1818

*Pellia borealis* Lorb. → *Pellia epiphylla*

*Pellia endiviifolia* (Dicks.) Dumort., Recueil Observ. Jungerm.: 27. 1835

*Pellia epiphylla* (L.) Corda, Naturalientausch [12]: 654. 1829

*Pellia fabron(n)iana* auct. → *Pellia endiviifolia*

*Pellia neesiana* (Gottsche) Limpr., Krypt.-Fl. Schlesien 1: 329. 1876

*Petalophyllum* Nees & Gottsche ex Lindenb., Nov. Min. Cogn. Stirp. Pugillus 8: 29. 1844

*Petalophyllum ralfsii* (Wils.) Nees & Gottsche, Nov. Min. Cogn. Stirp. Pugillus 8: 30. 1844

*Plagiochasma* Lehm. & Lindenb., Nov. Min. Cogn. Stirp. Pugillus 4: 13. 1832

*Plagiochasma rupestre* (J. R. Forst. & G. Forst.) Steph., Spec. Hepat. 1: 80. 1898.

*Plagiochila* (Dumort.) Dumort., Recueil Observ. Jungerm.: 14: 1835

*Plagiochila asplenioides* (L.) Dumort. var. *major* Nees → *Plagiochila asplenioides*

*Plagiochila asplenioides* (L.) Dumort. var. *minor* Lindenb. → *Plagiochila porelloides*

*Plagiochila asplenioides* (L.) Dumort. subsp. *porelloides* (Nees) Kaal. → *Plagiochila porelloides*

*Plagiochila asplenioides* (L.) Dumort. var. *asplenioides*, Recueil Observ. Jungerm.: 14. 1835

*Plagiochila asplenioides* (L.) Dumort. var. *riparia* Breidl., Mitt. Nat. Ver. Steiermark 30: 293. 1893

*Plagiochila porelloides* (Nees) Lindenb., Spec. Hepat. 1: 61. 1840

*Plectocolea* (Mitt.) Mitt. → *Jungermannia*

*Plectocolea crenulata* (Sm.) A. Evans → *Jungermannia gracillima*

*Plectocolea hyalina* (Lyell) Mitt. → *Jungermannia hyalina*

*Plectocolea obovata* (Nees) Mitt. → *Jungermannia obovata*

*Porella* L., Spec. Plant.: 1106. 1753

*Porella arboris-vitae* (With.) Grolle, Trans. Brit. Bryol. Soc. 5: 770. 1969

*Porella baueri* (Schiffn.) C. Jens., Danmarks Mosser 1: 240. 1915 - [11]

*Porella cordaeana* (Huebener) Moore, Proc. Roy. Irish Acad. 2: 618. 1876

*Porella laevigata* (Schrad.) Pfeiff. → *Porella arboris-vitae*

*Porella obtusata* (Taylor) Trev., Mem. Real Ist. Lombard. Sci. Math.-Nat. sér. 3: 407. 1877

*Porella pinnata* L., Spec. Plant.: 1106. 1753

*Porella platyphylla* (L.) Pfeiff., Fl. Niederhessen 2: 234. 1855

*Porella platyphylloidea* (Schwein.) Lindb. → *Porella platyphylla*

*Porella rivularis* (Nees) Pfeiffer → *Porella cordaeana*

*Porella thuja* auct. → *Porella obtusata*

*Preissia* Corda, Naturalientausch [12]: 647. 1829

*Preissia quadrata* (Scop.) Nees, Naturgesch. Eur. Leberm. 4: 135. 1838

*Radula* Dumort., Comment. Bot.: 112. 1822

*Radula complanata* (L.) Dumort., Syll. Jungerm. Eur.: 38. 1831

*Radula complanata* (L.) Dumort. subsp. *lindenbergiana* (C. Hartm.) R. M. Schuster → *Radula lindenbergiana*

*Radula lindenbergiana* Gottsche ex J. B. Jack → *Radula lindenbergiana*

*Radula lindenbergiana* Gottsche ex C. Hartm., Handb. Skand. Fl., ed. 9, 2: 98. 1866



- Reboulia* Raddi, Opusc. Sci. 2: 357. 1818, corr. Nees (Rebouillia"), nom. cons., orth. cons.
- Reboulia hemisphaerica* (L.) Raddi var. *hemisphaerica*, Opusc. Sci. (Bologna) 2: 357. 1818
- Reboulia hemisphaerica* (L.) Raddi var. *macrocephala* Mass. in Sommier, Fl. Giglio: 118. 1898
- Reboulia hemisphaerica* (L.) Raddi var. *microspora* Schiffn., Oesterr. Bot. Zeitschr. 58: 228. 1908 - [12]
- Riccardia* S. F. Gray, Nat. Ar. Brit. Pl. 1: 679. 1821, corr. Trevis. („Riccardius"), nom. cons., orth. cons.
- Riccardia chamaedryfolia* (With.) Grolle, Trans. Brit. Bryol. Soc. 5: 772. 1969
- Riccardia multifida* (L.) S. F. Gray, Nat. Arr. Brit. Pl. 1: 684. 1821
- Riccardia palmata* (Hedw.) Carruth., J. Bot. 3: 302. 1865.
- Riccardia pinguis* (L.) S. F. Gray → *Aneura pinguis*
- Riccardia sinuata* (Hook.) Trevis → *Riccardia chamaedryfolia*
- Riccia* L., Spec. Plant.: 1138. 1753
- Riccia arvensis* Austin → *Riccia bifurca*
- Riccia bicarinata* Lindb., Rev. Bryol. Lichén. 4: 41. 1877
- Riccia bifurca* Hoffm., Deutschl. Fl. 2: 95. 1795
- Riccia bischoffii* Hübener → *Riccia ciliifera*
- Riccia canaliculata* Hoffm., Deutsch. Fl. 2: 96. 1795
- Riccia ciliata* Hoffm., Deutsch. Fl. 2: 95. 1795
- Riccia ciliifera* Link ex Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 14: 119. 1829
- Riccia crozalsii* Lev., Rev. Bryol. Lichén. 29: 73. 1902
- Riccia crystallina* L., Spec. Plant.: 1138. 1753
- Riccia fluitans* L., Spec. Plant.: 1139. 1753
- Riccia frostii* Austin, Bull. Torrey Bot. Cl. 6: 17. 1875
- Riccia glauca* L. var. *glauca*, Spec. Plant.: 1139. 1753
- Riccia glauca* L. var. *subinermis* (Lindb.) Warnst., Krypt. Fl. Brandenburg 1: 70. 1901
- Riccia gougetiana* Durieu & Mont., Ann. Sci. Nat. Bot. sér. 3, 11: 35. 1849
- Riccia macrocarpa* Lev., Bull. Soc. Bot. Ital.: 114. 1894
- Riccia michelii* Raddi, Opusc. Sci. (Bologna) 2: 352. 1818
- Riccia nigrella* DC., Fl. France 5, ed. 6: 193. 1815
- Riccia palaestina* S. Arnell → *Riccia frostii*
- Riccia papillosa* Moris, App. Elench. Stirp. Sard. 1828
- Riccia raddina* Jack & Lev. ex Steph. → *Riccia sorocarpa*
- Riccia rhenana* Lorb. ex Müll. Frib., Hedwigia 80: 94. 1941
- Riccia sorocarpa* Bisch., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 17: 1053. 1835
- Riccioarpus* Corda, Naturalientausch [12]: 651. 1829
- Riccioarpus natans* (L.) Corda, Naturalientausch [12]: 651. 1829
- Riella* Mont., Ann. Sci. Nat. Bot. sér. 3, 18: 11. 1852
- Riella helicophylla* (Bory & Mont.) Mont., Ann. Sci. Nat. Bot. sér. 3, 18: 12. 1852
- Scapania* (Dumort.) Dumort., Recueill. Observ. Jungerm.: 14. 1835
- Scapania aequiloba* (Schwägr.) Dumort., Recueil Observ. Jungerm.: 14. 1835
- Scapania aspera* M. Bernet & H. Bernet, Cat. Hep. Suisse: 42. 1888
- Scapania compacta* (Roth) Dumort., Recueil Observ. Jungerm.: 14. 1835
- Scapania convexa* Pears. → *Scapania umbrosa*
- Scapania curta* (Mart.) Dumort., Recueil Observ. Jungerm.: 14. 1835
- Scapania irrigua* (Nees) Nees, Nat. Eur. Leberm. 1: 193. 1833
- Scapania nemorea* (L.) Grolle, Rev. Bryol. Lichén. 32: 160. 1963
- Scapania nemorea* (L.) Grolle var. *fallaciosa* Schiffn. → *Scapania nemorea*
- Scapania nemorosa* (L.) Dumort. → *Scapania nemorea*
- Scapania umbrosa* (Schrad.) Dumort., Recueil Observ. Jungerm.: 14. 1835

*Scapania undulata* (L.) Dumort. var. *dentata* (Dumort.) Douin, Rev. Bryol. Lichén. 28: 48. 1901 - [13]

*Scapania undulata* (L.) Dumort. var. *undulata*, Recueill Observ. Jungerm.: 14. 1835

*Scapania verrucosa* Heeg, Rev. Bryol. Lichén. 20: 81. 1893

*Solenostoma* Mitt. → *Jungermannia*

*Solenostoma crenulatum* (Sm.) Mitt. → *Jungermannia gracillima*

*Solenostoma triste* (Nees) Müll. Frib. → *Jungermannia atrovirens*

*Solenostomoa sphaerocarpum* (Hook.) Steph. → *Jungermannia sphaerocarpa*

*Southbya* Spruce, Ann. Magaz. Nat. Hist. ser. 2, 3: 501. 1849

*Southbya nigrella* (De Not.) Henriq., Bol. Soc. Brot. 4: 244. „1886“, 1887

*Southbya tophacea* (Spruce) Spruce, Trans. Bot. Soc. Edinb. 3: 198. 1849

*Sphaerocarpos* Boehm., Def. Gen. Pl. Ed. 3: 501. 1760

*Sphaerocarpos europaeus* Lorb. → *Sphaerocarpos texanus*

*Sphaerocarpos michelii* Bellardi, App. Fl. Pedemont.: 52. 1792

*Sphaerocarpos texanus* Austin, Bull. Torrey Bot. Cl. 6: 158. 1877

*Sphaerocarpus terrestris* Sm. → *Sphaerocarpus michelii*

*Targionia* L., Spec. Plant.: 1136. 1753

*Targionia hypophylla* L., Spec. Plant.: 1136. 1753

*Targionia lorbeeriana* Müll. Frib., Hedwigia 79: 78. 1940

*Tritomaria* Schiffn. ex Loeske, Hedwigia 49: 13. 1909

*Tritomaria exsecta* (Schmidel) Loeske, Hedwigia 49: 13. 1909

*Tritomaria exsectiformis* (Breidl.) Loeske, Hedwigia 49: 13. 1909

*Tritomaria quinquedentata* (Huds.) H. Buch, Mem. Soc. F. Fl. Fenn. 8: 290. 1932

## Bryophytina

*Abietinella* Müll. Hal. → *Thuidium*

*Abietinella abietina* (Hedw.) M. Fleisch. → *Thuidium abietinum*

*Abietinella abietina* (Hedw.) M. Fleisch. var. *hystricosa* (Mitt.) Sakurai → *Thuidium abietinum* var. *hystricosum*

*Abietinella hystricosa* (Mitt.) Broth. → *Thuidium abietinum* var. *hystricosum*

*Acaulon* Müll. Hal., Bot. Zeitung 5: 99. 1847

*Acaulon minus* (Hook. & Taylor) A. Jaeger → *Acaulon muticum*

*Acaulon mediterraneum* Limpr. → *Acaulon muticum*

*Acaulon muticum* (Hedw.) Müll. Hal., Bot. Zeitung 5: 99. 1847

*Acaulon piligerum* (De Not.) Limpr. → *Acaulon triquetrum*

*Acaulon triquetrum* (Spruce) Müll. Hal., Bot. Zeitung 5: 100. 1847

*Acrocladium cuspidatum* (Hedw.) Lindb. → *Calliergonella cuspidata*

*Aloina* Kindb., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 6: 22. 1882

*Aloina aloides* (Schultz) Kindb., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 7: 136. 1883

*Aloina aloides* Kindb. var. *ambigua* (Bruch & Schimp.) E. J. Craig → *Aloina ambigua*

*Aloina ambigua* (Bruch & Schimp.) Limpr., Laubm. Deutschl. 1: 638. 1888

*Aloina bifrons* (De Not.) Delgadillo, Bryologist 76: 273. 1973

*Aloina brevirostris* (Hook. & Grev.) Kindb., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 7: 137. 1883

*Aloina ericaefolia* Kindb. → *Aloina ambigua*

*Aloina pilifera* (Bruch & Schimp.) Crum & Steere → *Aloina bifrons*

*Aloina rigida* (Hedw.) Limpr., Laubm. Deutschl. 1: 637. 1888

*Aloina rigida* (Hedw.) Limpr. subsp. *aloides* (Schultz) Warnst. → *Aloina aloides*

*Aloina rigida* (Hedw.) Limpr. var. *pilifera* (Bruch & Schimp.) Limpr. → *Aloina bifrons*

*Aloina stellata* (Schreb.) Kindb. var. *pilifera* (Bruch & Schimp.) Schiffn. → *Aloina bifrons*

**Amblyodon** Bruch & Schimp., Bryol. Eur. 4: 3. 1841, (Amblyodum") nom. cons., orth. cons.

**Amblyodon dealbatus** (Hedw.) Bruch & Schimp., Bryol. Eur. 4: 7. 1841

*Amblystegiella confervoides* (Brid.) Loeske → *Amblystegium confervoides*

*Amblystegiella subtililis* (Hedw.) Loeske → *Amblystegium subtile*

**Amblystegium** Schimp., Bryol. Eur. 6: 45. 1853

**Amblystegium confervoides** (Brid.) Schimp., Bryol. Eur. 6: 50. 1853

**Amblystegium fluviatile** (Hedw.) Schimp., Bryol. Eur. 6: 55. 1853

**Amblystegium humile** (P. Beauv.) Crundw., J. Bryol. 11: 603. 1981

*Amblystegium juratzkanum* Schimp. → *Amblystegium serpens* var. *juratzkanum*

*Amblystegium kurdicum* Schiffn. → *Leptodictyum kurdicum*

*Amblystegium riparium* (Hedw.) Schimp. → *Leptodictyum riparium*

**Amblystegium serpens** (Hedw.) Schimp. var. *juratzkanum* (Schimp.) Rau & Herv., Cat. N. Amer. Musc.: 44. 1880 - [14]

*Amblystegium serpens* (Hedw.) Schimp. var. *rigidiusculum* → *Amblystegium serpens* var. *serpens*

**Amblystegium serpens** (Hedw.) Schimp. var. *serpens*, Bryol. Eur. 6: 53. 1853 - [14]

**Amblystegium subtile** (Hedw.) Schimp., Bryol. Eur. 6: 48. 1843

**Amblystegium tenax** (Hedw.) C. E. O. Jensen, Skand. Bladmossfl.: 483. 1939

**Amblystegium varium** (Hedw.) Lindb., Musci Scand.: 32. 1879

**Amphidium** Schimp., Coroll. Bryol. Eur.: 39. 1856

**Amphidium mougeotii** (Bruch & Schimp.) Schimp., Coroll. Bryol. Eur.: 40. 1856

**Anacolia** Schimp., Syn. Musc. Eur. 2: 513. 1876

**Anacolia webbii** (Mont.) Schimp., Syn. Musc. Eur. 2: 513. 1876

**Andreaea** Hedw., Spec. Musc. Frond.:47. 1801

**Andreaea rupestris** Hedw., Spec. Musc. Frond.: 47.1801

*Anisothecium* Mitt. → *Dicranella*

*Anisothecium rufescens* (Dicks.) Lindb. → *Dicranella rufescens*

*Anisothecium varium* (Hedw.) Mitt. → *Dicranella varia*

*Anoetangium crustatum* → *Gymnostomum viridulum*

*Anoetangium handelii* Schiffn. → *Anoetangium sendtnerianum*

**Anoetangium** Schwägr., Spec. Musc. Frond. Suppl. 1: 33. 1811

**Anoetangium sendtnerianum** Bruch & Schimp., Bryol. Eur. 1: 91. 1846

**Anomobryum** Schimp., Syn. Musc. Eur.: 382. 1860

*Anomobryum concinnatum* (Spruce) Lindb. → *Anomobryum julaceum*

**Anomobryum julaceum** (P. Gaertn., E. Mey. & Scherb.) Schimp. var. *concinnatum* (Spruce) J. E. Zetterst., K. Svensk. Vet. Ak. Handl. 5: 34. 1865

**Anomobryum julaceum** (P. Gaertn., E. Mey. & Scherb.) Schimp. var. *julaceum*, Syn. Musc. Eur.: 382. 1860

*Anomobryum filiforme* (Dicks.) Husnot → *Anomobryum julaceum*

*Anomobryum juliforme* Solms → *Anomobryum julaceum*

**Anomodon** Hook. & Taylor, Muscol. Brit.: 79. 1818

*Anomodon apiculatus* Sull. → *Anomodon rugelii*

**Anomodon attenuatus** (Hedw.) Huebener, Musc. Germ.: 562. 1833

**Anomodon rugelii** (Müll. Hal.) Keissl., Ann. Naturh. Mus. Wien 15: 214. 1900

**Anomodon viticulosus** (Hedw.) Hook. & Taylor, Musc. Brit.: 79. 1818

**Antitrichia** Brid., Muscol. Recent. Suppl.: 136. 1819

*Antitrichia breidleriana* Schiffn. → *Antitrichia californica*

**Antitrichia californica** Sull., Trans. Amer. Phil. Soc. 13: 11. 1865

- Antitrichia curtispindula* (Hedw.) Brid., Muscol. Recent. Suppl.: 136. 1819
- Archidium* Brid., Bryol. Univ. 1: 747. 1826
- Archidium alternifolium* (Hedw.) Schimp., Syn. Musc. Eur., ed. 2: 28. 1876
- Aschisma* Lindb., Utkast Nat. Grup. Eur. Bladmoss.: 28. 1878
- Aschisma carniolicum* (F. Weber & D. Mohr) Lindb., Utkast Nat. Grup. Eur. Bladmoss.: 28. 1878
- Astomum crispum* (Hedw.) Hampe → *Weissia longifolia*
- Astomum levieri* Limpr. → *Weissia levieri*
- Atrichum* P. Beauv., Mag. Encycl. 5: 329. 1804
- Atrichum angustatum* (Brid.) Bruch & Schimp., Bryol. Eur. 4: 237. 1844
- Atrichum tenellum* (Röhl.) Bruch & Schimp., Bryol. Eur. 4: 237. 1844
- Atrichum undulatum* (Hedw.) P. Beauv., Prodr. Aethéogam.: 42. 1805
- Aulacomnium* Schwägr., Spec. Musc. Frond. Suppl. 3 (1). 1827, („*Aulacomnion*“), nom. cons., orth. cons.
- Aulacomnium androgynum* (Hedw.) Schwägr., Spec. Musc. Frond. Suppl. 3. 1827
- Aulacomnium palustre* (Hedw.) Schwägr., Spec. Musc. Frond. Suppl. 3. 1827
- Barbula* Hedw., Spec. Musc. Frond.: 115. 1801
- Barbula aaronis* (Lor.) Hilp. → *Trichostomopsis aaronis*
- Barbula acuta* (Brid.) Brid. → *Didymodon acutus*
- Barbula commutata* Jur. → *Barbula convoluta* var. *commuata*
- Barbula convoluta* Hedw. var. *commutata* (Jur.) Husn., Fl. Mousses Nord-Quest, ed. 2: 164. 1882 - [15]
- Barbula convoluta* Hedw. var. *convoluta* Spec. Musc. Frond.: 120. 1801
- Barbula cordata* (Jur.) Braithw. → *Didymodon cordatus*
- Barbula cylindrica* (Taylor) Schimp. → *Didymodon vinealis* var. *flaccidus*
- Barbula cylindrica* (Taylor) Schimp. var. *sinuosa* (Mitt.) Lindb. → *Didymodon sinuosus*
- Barbula ehrenbergii* (Lor.) M. Fleisch., Musci Arch. Indic., sér. 4: n. 161. 1901
- Barbula enderesii* Garov., Bryol. Austr. Excurs.: 37. 1840
- Barbula fallax* Hedw. → *Didymodon fallax*
- Barbula ferruginea* Schimp. ex Besch. → *Didymodon ferrugineus*
- Barbula glauca* (Ryan) H. Möller → *Didymodon glaucus*
- Barbula hornschuchiana* Schultz → *Pseudocrossidium hornschuchianum*
- Barbula lurida* (Spreng.) Lindb. → *Didymodon luridus*
- Barbula nicholsonii* Culm. → *Didymodon nicholsonii*
- Barbula recurvirostra* (Hedw.) Dixon → *Bryoerythrophyllum recurvirostrum*
- Barbula reflexa* (Brid.) Brid. → *Didymodon ferrugineus*
- Barbula revoluta* Brid. → *Pseudocrossidium revolutum*
- Barbula rigidula* (Hedw.) Mitt. → *Didymodon rigidulus*
- Barbula rigidula* (Hew.) Mitt. var. *glauca* (Ryan) J. J. Amann → *Didymodon glaucus*
- Barbula sinuosa* (Mitt.) Garov. → *Didymodon sinuosus*
- Barbula spadicea* (Mitt.) Braithw. → *Didymodon spadiceus*
- Barbula tophacea* (Brid.) Mitt. → *Didymodon tophaceus*
- Barbula tophacea* (Brid.) Mitt. var. *brevifolia* (Bruch & Schimp.) Dixon → *Didymodon tophaceus* var. *brevifolius*
- Barbula trifaria* auct. → *Didymodon luridus*
- Barbula unguiculata* Hedw., Spec. Musc. Frond.: 118. 1801
- Barbula vinealis* Brid. → *Didymodon vinealis*
- Barbula vinealis* Brid. var. *flaccida* Bruch & Schimp. → *Didymodon vinealis* var. *flaccidus*
- Bartramia* Hedw., Spec. Musc. Frond.: 164. 1801
- Bartramia halleriana* Hedw., Spec. Musc. Frond.: 164. 1801

**Bartramia ithyphylla** Brid., Muscol. Recent. 2: 132. 1803

*Bartramia oederiana* Sw. → *Plagiopus oederianus*

**Bartramia pomiformis** Hedw. var. **elongata** Turner, Ann. Bot. (König & Sims) 1: 527. 1805

**Bartramia pomiformis** Hedw. var. **pomiformis**, Spec. Musc. Frond.: 164. 1801

*Bartramia norvegica* Lindb. → *Bartramia halleriana*

**Bartramia stricta** Brid., Muscol. Recent. 2: 132. 1803

**Blindia** Bruch & Schimp., Bryol. Eur. 2: 17. 1846

**Blindia acuta** (Hedw.) Bruch & Schimp. var. **acuta**, Bryol. Eur. 2: 19. 1846

**Blindia acuta** (Hedw.) Bruch & Schimp. var. **rupestris** (Hedw.) Korcz., Not. Syst. Sect. Crypt. Inst. Bot. Komarovii 13: 289. 1960

**Brachythecium** Schimp., Bryol. Eur. 6: 5. 1853

**Brachythecium albicans** (Hedw.) Schimp., Bryol. Eur. 6: 23. 1853

*Brachythecium albicans* (Hedw.) Schimp. var. *dumetorum* Limpr. → *Brachythecium albicans*

**Brachythecium campestre** (Müll. Hal.) Schimp., Bryol. Eur. 6: 16. 1853

**Brachythecium collinum** (Müll. Hal.) Schimp., Bryol. Eur. 6: 19. 1853

*Brachythecium curtum* (Lindb.) Lindb. → *Brachythecium oedipodium*

**Brachythecium erythrorrhizon** Schimp., Bryol. Eur. 6: 18. 1853

*Brachythecium fendleri* (Sull.) A. Jaeger → *Brachythecium collinum*

**Brachythecium geheebii** Milde, Hedwigia 6: 161. 1869

**Brachythecium glareosum** (Spruce) Schimp., Bryol. Eur. 6: 23. 1853

**Brachythecium laetum** (Brid.) Schimp., Bryol. Eur. 6: 24. 1853 - [16]

**Brachythecium latifolium** Kindb., Forh. Vidensk.-Selsk. Christiana 1888: 8. 1888

**Brachythecium mildeanum** (Schimp.) Schimp. ex Milde, Bot. Zeitung 20: 452. 1862

**Brachythecium oedipodium** (Mitt.) A. Jaeger, Ber. St. Gall. Naturw. Ges. 1876-1877: 330. 1878

*Brachythecium olympicum* Jur. → *Brachythecium velutinum* var. *salicinum*

*Brachythecium oxycladon* (*oxycladum*) auct. → *Brachythecium laetum*

**Brachythecium plumosum** (Hedw.) Schimp., Bryol. Eur. 6: 8. 1853

**Brachythecium populeum** (Hedw.) Schimp., Bryol. Eur. 6: 7. 1853

**Brachythecium reflexum** (Starke) Schimp. var. **reflexum**, Bryol. Eur. 6: 12. 1853

**Brachythecium reflexum** (Starke) Schimp. var. **subglaciale** Limpr., Laubm. Deutschl. 3: 115. 1896

**Brachythecium rivulare** Schimp., Bryol. Eur. 6: 17. 1853

**Brachythecium rutabulum** (Hedw.) Schimp., Bryol. Eur. 6: 15. 1853

**Brachythecium salebrosum** (F. Weber & D. Mohr) Schimp., Bryol. Eur. 6: 20. 1853

*Brachythecium salebrosum* (F. Weber & D. Mohr) Schimp. var. *palustre* Schimp. → *Brachythecium mildeanum*

*Brachythecium salicinum* Schimp. → *Brachythecium velutinum* var. *salicinum*

**Brachythecium starkei** (Brid.) Schimp. var. **complanatum** Limpr., Laubm. Deutschl. 3: 100. 1896

**Brachythecium starkei** (Brid.) Schimp. var. **starkei**, Bryol. Eur. 6: 14. 1853

**Brachythecium trachypodium** (Brid.) Schimp., Bryol. Eur. 6: 11. 1853

**Brachythecium umbilicatum** Jur. & Milde, Verh. Zool.-Bot. Ges. Wien 20: 600. 1870

*Brachythecium velutinum* (Hedw.) Schimp. var. *validum* C. E. Jensen → *Brachythecium velutinum* var. *velutinum*

*Brachythecium validum* (C. E. O. Jensen) Broth. → *Brachythecium velutinum* var. *velutinum*

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- Camptothecium nitens* (Hedw.) Schimp. → Tomentypnum nitens
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*Palustriella commutata*

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*commutata* var. *fluctuans*

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*commutata* var. *fluctuans*

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*falcatum* (Brid.) Mönk. → *Palustriella commutata* var.  
*falcata*

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*Cynodontium polycarpum* var. *strumiferum*

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- Ditrichum heteromallum* (Hedw.) E. Britton, N.  
Amer. Fl. 15: 46. 1913
- Ditrichum pallidum* (Hedw.) Hampe, Flora 50: 182.  
1867
- Ditrichum pusillum* (Hedw.) Hampe, Flora 50: 182.  
1867 – [33]
- Ditrichum pusillum* (Hedw.) Hampe var. *tortile*  
(Schr.) I. Hagen → *Ditrichum pusillum*
- Ditrichum subulatum* Hampe, Flora 50: 182. 1867
- Dolichotheca* Lindb. → *Herzogiella*
- Dolichotheca seligeri* (Brid.) Loeske → *Herzogiella*  
*seligeri*
- Drepanocladus* (Müll. Hal.) G. Roth, Hedwigia 38  
(Beibl.): 6. 1899, nom. cons., typ. cons.
- Drepanocladus aduncus* (Hedw.) Warnst. var.  
*aduncus*, Beih. Bot. Centralbl. 13: 400. 1903
- Drepanocladus aduncus* (Hedw.) Warnst. var.  
*kneiffii* (Schimp.) Mönk., Laubm. Eur.: 755. 1927 – [34]
- Drepanocladus aduncus* (Hedw.) Warnst. var.  
*polycarpus* (Voit) G. Roth, Eur. Laubm. 2: 559. 1904
- Drepanocladus capillifolius* (Warnst.) Warnst. →  
*Drepanocladus longifolius*
- Drepanocladus exannulatus* (Schimp.) Warnst. →  
*Warnstorfia exannulata*
- Drepanocladus fluitans* (Hedw.) Warnst. →  
*Warnstorfia fluitans*



*Drepanocladus longifolius* (Mitt.) Borth. ex Paris, Coll., nom. Broth.: 10. 1910 – [35]

*Drepanocladus lycopodioides* (Brid.) Warnst., Beih. Bot. Centralbl. 14: 401. 1903

*Drepanocladus polycarpus* (Voit) Warnst. → *Drepanocladus aduncus* var. *polycarpus*

*Drepanocladus revolvens* (Sw.) Warnst., Beih. Bot. Centralbl. 13: 402. 1903

*Drepanocladus uncinatus* (Hedw.) Warnst. → *Sanionia uncinata*

*Drepanocladus vernicosus* (Mitt.) Warnst. → *Hamatocaulis vernicosus*

*Encalypta* Hedw., Spec. Musc. Frond.: 60. 1801

*Encalypta alpina* Sm., Engl. Bot. 20: 1419. 1805

*Encalypta ciliata* Hedw., Spec. Musc. Frond.: 61. 1801

*Encalypta contorta* Hoppe ex Lindb. → *Encalypta streptocarpa*

*Encalypta intermedia* Jur., Verh. Zool.-Bot. Ges. Wien 20: 595. 1870

*Encalypta leptodon* Bruch ex Brid. → *Encalypta rhaptocarpa*

*Encalypta rhaptocarpa* Schwägr., Spec. Musc. Frond. Suppl. 1: 56. 1811 - [36]

*Encalypta rhaptocarpa* Schwägr. var. *leptodon* Lindb. → *Encalypta rhaptocarpa*

*Encalypta spathulata* Müll. Hal., Syn. Musc. Frond.: 519. 1849

*Encalypta streptocarpa* Hedw., Spec. Musc. Frond.: 62. 1801

*Encalypta vulgaris* Hedw. var. *mutica* Brid., Mant. Musc.: 28. 1819

*Encalypta vulgaris* Hedw. var. *vulgaris*, Spec. Musc. Frond.: 60. 1801

*Entodon* Müll. Hal., Linnaea 18: 704. 1845

*Entodon concinnus* (De Not.) Paris, Index Bryol. 2: 130. 1904

*Entodon orthocarpus* (Brid.) Lindb. → *Entodon concinnus*

*Entodon schleicheri* (Schimp.) Demet., Rev. Bryol. 12: 87. 1885

*Entodon schreberi* (Brid.) Mönk. → *Pleurozium schreberi*

*Entosthodon* Schwägr., Spec. Musc. Frond. Suppl. 2: 44. 1811

*Entosthodon attenuatus* (Dicks.) Bryhn, K. Norsk. Vid. Selsk. Skrift 1908: 25. 1908

*Entosthodon curvisetus* (Schwägr.) Müll. Hal., Syn. Musc. Frond. 1: 120. 1848

*Entosthodon fascicularis* (Hedw.) Müll. Hal., Syn. Musc. Frond. 1: 120. 1848

*Entosthodon obtusus* (Hedw.) Lindb., Oefv. Foerh. Kongl. Svenska Vetensk.-Akad. 21: 221. 1865

*Entosthodon pallescens* Jur., Ins. Cypren.: 170. 1865

*Ephemerum* Hampe, Flora 20: 285. 1837

*Ephemerum cohaerens* (Hedw.) Hampe, Flora 20: 285. 1837

*Ephemerum minutissimum* Lindb. → *Ephemerum serratum* var. *angustifolium*

*Ephemerum recurvifolium* (Dicks.) Boulay, Fl. Crypt. Est, Musc.: 694. 1872

*Ephemerum serratum* (Hedw.) Hampe var. *angustifolium* (Bruch & Schimp.) Bruch & Schimp., Bryol. Eur. 1: 9. 1849

*Ephemerum sessile* (Bruch) Müll. Hal., Syn. Musc. Frond. 1: 33. 1848

*Ephemerum stellatum* H. Philib., Rev. Bryol. 6: 63. 1879

*Epipterygium* Lindb., Oefv. Foerh. Kongl. Vetensk.-Akad. 19: 603. 1863

*Epipterygium tozeri* (Grev.) Lindb., Oefv. Förh. Kongl. Svenska Vetensk.-Akad. 21: 576. 1865

*Eucladium* Bruch & Schimp., Bryol. Eur. 1: 93. 1846

*Eucladium verticillatum* (Brid.) Bruch & Schimp. var. *dalmaticum* Par., Ind. Bryol.: 439. 1896

*Eucladium verticillatum* (Brid.) Bruch & Schimp. var. *verticillatum*, Bryol. Eur. 1: 93. 1846

*Eurhynchium* Schimp., Bryol. Eur. 5: 217. 1854

*Eurhynchium angustirete* (Broth.) T. Kop., Mem. Soc. F. Fl. Fenn. 43: 53. 1967

*Eurhynchium circinatum* (Brid.) Schimp. → *Scorpiurium circinatum*



*Eurhynchium confertum* (Dicks.) Milde →  
Rhynchostegium confertum

*Eurhynchium crassinervium* (Wilson) Schimp.,  
Bryol. Eur. 5: 230. 1854

*Eurhynchium diversifolium* Schimp. → *Eurhynchium*  
*pulchellum* var. *diversifolium*

*Eurhynchium euchloron* (Müll. Hal.) Jur. & Milde →  
*Palamocladium euchloron*

*Eurhynchium flotowianum* (Sendtn.) Kartt., Taxon  
39: 317. 1990

*Eurhynchium hians* (Hedw.) Sande Lac. var. *hians*,  
Ann. Mus. Bot. Lugduno-Batavum 2: 299. 1866 – [37]

*Eurhynchium hians* (Hedw.) Sande Lac. var.  
*rigidum* (Boulay) Düll, Bryol. Beitr. 5: 189. 1985 – [37]

*Eurhynchium meridionale* (Schimp.) De Not.,  
Comm. Critt. Ital. 1: 249. 1863

*Eurhynchium myosuroides* (Brid.) Schimp. →  
*Isothecium myosuroides*

*Eurhynchium praelongum* (Hedw.) Schimp., Bryol.  
Eur. 5: 224. 1854

*Eurhynchium praelongum* (Hedw.) Schimp. var.  
*stokesii* (Turner) Dix. → *Eurhynchium praelongum*

*Eurhynchium pulchellum* (Hedw.) Jenn. var.  
*diversifolium* (Schimp.) C. E. O. Jensen, Skand.  
Bladmossfl.: 438. 1939

*Eurhynchium pulchellum* (Hedw.) Jenn. var.  
*praecox* (Hedw.) Dixon, Rev. Bryol. Lichén. 6: 111. 1934

*Eurhynchium pulchellum* (Hedw.) Jenn. var.  
*pulchellum*, Man. Moss. W. Pennsylv.: 350. 1913 – [38]

*Eurhynchium pumilum* (Wilson) Schimp., Coroll.  
Bryol. Eur.: 119. 1856 – [39]

*Eurhynchium rusciforme* Milde → *Platyhypnidium*  
*riparioides*

*Eurhynchium schleicheri* (R. Hedw.) Jur., Verh.  
Zool.-Bot. Ges. Wien 16: 942. 1866

*Eurhynchium speciosum* (Brid.) Jur., Verh. Zool.-  
Bot. Ges. Wien 13: 500. 1863

*Eurhynchium stokesii* (Turner) Schimp. →  
*Eurhynchium praelongum*

*Eurhynchium striatulum* (Spruce) Schimp., Bryol.  
Eur. 5: 221. 1854

*Eurhynchium striatum* (Hedw.) Schimp., Coroll.  
Bryol. Eur.: 119. 1856

*Eurhynchium swartzii* (Turner) Curn. → *Eurhynchium*  
*hians*

*Eurhynchium swartzii* (Turner) Curn. var. *rigidum*  
(Boulay) Thér. → *Eurhynchium hians* var. *rigidum*

*Eurhynchium swartzii* (Turner) Curn. var. *robustum*  
Limpr. → *Eurhynchium hians* var. *rigidum*

*Eurhynchium zetterstedtii* Størmer → *Eurhynchium*  
*angustirete*

*Fabronia Raddi*, Atti Accad.Sci. Siena 9: 230. 1808

*Fabronia ciliaris* (Brid.) Brid., Bryol. Univ. 2: 171.  
1827

*Fabronia octoblepharis* Schwägr. → *Fabronia ciliaris*

*Fabronia pusilla* Raddi, Atti Accad. Sci. Siena 9: 231.  
1808

*Fabronia pusilla* Raddi var. *ciliata* Lesq. & Jam. →  
*Fabronia pusilla*

*Fissidens* Hedw., Spec. Musc. Frond.: 152. 1801

*Fissidens adianthoides* Hedw., Spec. Musc.Frond.:  
157. 1801

*Fissidens algarvicus* Solms. → *Fissidens curvatus*

*Fissidens bambergeri* Schimp. ex Milde, Bot. Zeitung  
22: 12. 1864 – [40]

*Fissidens bryoides* Hedw., Spec. Musc. Frond.: 153.  
1801

*Fissidens bryoides* Hedw. subsp. *incurvus* (Starke ex  
Röhl) Bertsch → *Fissidens incurvus*

*Fissidens bryoides* Hedw. var. *viridulus* (Sw.) Broth.  
→ *Fissidens viridulus*

*Fissidens bryoides* Hedw. var. *rivularis* Spruce →  
*Fissidens rivularis*

*Fissidens crassipes* Wilson ex Bruch & Schimp.  
subsp. *crassipes*, Bryol. Eur. 1: 197. 1849

*Fissidens crassipes* Wilson ex Bruch & Schimp. var.  
*philibertii* Besch. → *Fissidens crassipes* subsp. *warnstorffii*

*Fissidens crassipes* Wilson ex Bruch & Schimp.  
subsp. *warnstorffii* (M. Fleisch.) Brugg.-Nann., Proc. Kon.  
Ned. Akad. Wetensch., Ser. C, Biol. Med. Sci. 85: 74.  
1982

*Fissidens crispus* Mont., Ann. Ci. Nat. Bot., sér. 2, 9:  
57. 1838 – [41]

- Fissidens cristatus* Wilson ex Mitt. → *Fissidens dubius*
- Fissidens cristatus*** Wilson ex Mitt. var. ***mucronatus*** (Limpr.) Waldh., Foert. Skand. Vaext. Moss 2: 18. 1937 – [42]
- Fissidens curvatus* Hornsch., Linnaea 15: 148. 1841 – [43]
- Fissidens dubius* P. Beauv., Prodr. Aethéogam.: 57. 1805
- Fissidens exilis* Hedw., Spec. Musc. Frond.: 152. 1801
- Fissidens gracilifolius* Brugg.-Nann. & Nyholm, Ill. Fl. Nord.Mosses 1: 10. 1986
- Fissidens incurvus* Starke ex Röhl, Deutschl. Fl., ed. 2, Kryptog. Gew. 3: 76. 1813
- Fissidens intralimbatus* R. Ruthe → *Fissidens viridulus* var. *intralimbatus*
- Fissidens limbatus* Sull. → *Fissidens crispus*
- Fissidens limbatus* Sull. var. *bambergeri* (Milde) Düll → *Fissidens bambergeri*
- Fissidens mildeanus* Schimp. ex Milde → *Fissidens crassipes* subsp. *crassipes*
- Fissidens monguillonii* Thér., Bull. Soc. Agric. Sarthe 1899: 112. 1899
- Fissidens pusillus* (Wilson) Milde, Bryol. Siles.: 82. 1869
- Fissidens rivularis* (Spruce) Bruch & Schimp. var. *monguillonii* (Thér.) Podp. → *Fissidens monguillonii*
- Fissidens rivularis* (Spruce) Bruch & Schimp., Bryol. Eur. 1: 199. 1851
- Fissidens rufulus* Bruch & Schimp., Bryol. Eur. 1: 199. 1851
- Fissidens serrulatus* Brid., Spec. Musc. 1: 170. 1806
- Fissidens taxifolius* Hedw. subsp. *pallidicaulis* (Mitt.) L. Corb., Rev. Bryol. Lichén. 15: 31. 1945
- Fissidens taxifolius* Hedw. subsp. ***taxifolius***, Spec. Musc. Frond.: 155. 1801
- Fissidens viridulus* (Sw.) Wahlenb. var. *bambergeri* (Milde) Waldh. → *Fissidens bambergeri*
- Fissidens viridulus* (Sw.) Wahlenb. var. *intralimbatus* (R. Ruthe) Düll, Bryol. Beitr. 4: 32. 1984
- Fissidens viridulus* (Sw.) Wahlenb. var. *pusillus* Wilson → *Fissidens pusillus*
- Fissidens viridulus* (Sw.) Wahlenb. var. *tenuifolius* (Boulay) A. J. E. Smith → *Fissidens gracilifolius*
- Fissidens viridulus* (Sw.) Wahlenb. var. *viridulus*, Fl. Lapp.: 334. 1812
- Fissidens warnstorffii* M. Fleisch. → *Fissidens crassipes* subsp. *warnstorffii*
- Fontinalis*** Hedw., Spec. Musc. Frond.: 298. 1801
- Fontinalis antipyretica*** Hedw. var. *antipyretica*, Spec. Musc. Frond.: 298. 1801
- Fontinalis antipyretica*** Hedw. var. *gigantea* (Sull.) Sull., Icon. Musc. (Sullivant): 106. 1864
- Fontinalis antipyretica*** Hedw. var. *gracilis* (Lindb.) Schimp., Syn. Musc. Eur., ed. 2: 552. 1876
- Fontinalis antipyretica*** Hedw. var. *heldreichii* (Müll. Hal.) Ruthe, Flora 69: 343. 1886 – [44]
- Fontinalis duriaei*** Schimp. → *Fontinalis hypnoides* var. *duriaei*
- Fontinalis gracilis*** Lindb. → *Fontinalis antipyretica* var. *gracilis*
- Fontinalis hypnoides*** Hartm. var. *duriaei* (Schimp.) Husn., Musc. Gall.: 287. 1892
- Funaria*** Hedw., Spec. Musc. Frond.: 172. 1801.
- Funaria anomala*** Jur., Ins. Cypern: 170. 1865
- Funaria attenuata* (Dicks.) Lindb. → *Entosthodon attenuatus*
- Funaria convexa*** Spruce, Musc. Pyren.: no. 149. 1847
- Funaria curviseta* (Schwägr.) Milde → *Entosthodon curvisetus*
- Funaria dentata* Crome subsp. *mediterranea* (Lindb.) J. J. Amann → *Funaria muhlenbergii*
- Funaria dentata* Crome var. *convexa* (Spruce) Bott. in Loeske → *Funaria convexa*
- Funaria fascicularis* (Hedw.) Lindb. → *Entosthodon fascicularis*
- Funaria handelii*** Schiffn., Ann. Naturh. Mus. Wien 27: 493. 1913
- Funaria hygrometrica*** Hedw. subsp. *calvescens* (Schwägr.) Kindb., Eur. N. Amer. Bryin. 2: 330. 1897

- Funaria hygrometrica* Hedw. subsp. *hygrometrica*,  
Spec. Musc. Frond.: 172. 1801  
*Funaria mediterranea* Lindb. → *Funaria muhlenbergii*  
*Funaria microstoma* Bruch ex Schimp., Flora 23:  
850. 1840  
*Funaria muhlenbergii* Turner, Ann. Bot. 2: 198.  
1805  
*Funaria obtusa* (Hedw.) Lindb. → *Entosthodon*  
*obtusus*  
*Funaria pulchella* H. Philib., Rev. Bryol. 11: 41.  
1884  
*Funaria calcarea* Wahlenb. var. *mediterranea* (Lindb.)  
C. Jensen & Medel → *Funaria muhlenbergii*  
*Georgia* Ehrh. ex Müll. Hal. → *Tetraphis*  
*Georgia browniana* (Dicks.) Müll. Hal. →  
*Tetradontium brownianum*  
*Georgia pellucida* (Hedw.) Rabenh. → *Tetraphis*  
*pellucida*  
*Grimmia* Hedw., Spec. Musc. Frond.: 75. 1801  
*Grimmia affinis* Hornsch. → *Grimmia longirostris*  
*Grimmia alpestris* (F. Weber & D. Mohr) Schleich.,  
Cat. Pl. Helv., ed. 2: 29. 1807  
*Grimmia anodon* Bruch & Schimp., Bryol. Eur. 3:  
110. 1845  
*Grimmia apiculata* Hornsch. → *Grimmia fusco-lutea*  
*Grimmia caespiticia* (Brid.) Jur., Laubm.-Fl.  
Oesterr.-Ung.: 172. 1882  
*Grimmia campestris* Burchell ex Hook. → *Grimmia*  
*laevigata*  
*Grimmia capillata* De Not., Mem. Reale Accad. Sci.  
Torino 39: 248. 1836  
*Grimmia commutata* Huebener → *Grimmia ovalis*  
*Grimmia crassifolia* Broth., Act. Soc. Sc. Fenn. 19:  
84. 1892  
*Grimmia crassifolia* Lindb. var. *cucullata* Baumgartner  
→ *Grimmia crassifolia*  
*Grimmia cribrosa* Hedw. → *Coscinodon cribrosus*  
*Grimmia crinita* Brid. var. *capillata* (De Not.) De Not.  
→ *Grimmia capillata*  
*Grimmia crinita* Brid., Muscol. Recent. Suppl. 1: 95.  
1806  
*Grimmia cucullata* Henderson → *Grimmia crassifolia*  
*Grimmia decipiens* (Schultz) Lindb., Handb. Skand.  
Fl., ed. 8: 386. 1861  
*Grimmia dissimulata* E. Maier, Candollea 56: 282.  
2002  
*Grimmia donniana* Sm., Engl. Bot. 18: 1259. 1804  
*Grimmia elatior* Bruch ex Bals.-Criv. & De Not.,  
Mem. Reale Accad. Sci. Torino 40: 340. 1838  
*Grimmia elongata* Kaulf., Deutschl. Fl. (Sturm) Abt.  
2, Cryptog.: t. 24. 1812  
*Grimmia funalis* (Schwägr.) Bruch & Schimp., Bryol.  
Eur. 3: 119. 1845  
*Grimmia fusco-lutea* Hook., Musci Exot. 1: 62. 1818  
– [45]  
*Grimmia gibbosa* Agnew → *Campylostelium pitardii*  
*Grimmia hartmanii* Schimp. var. *hartmanii*, Syn.  
Musc. Eur.: 214. 1860  
*Grimmia hartmanii* Schimp. var. *montenegrina*  
(Beck & Szyszyl) Giac., Atti Ist. Bot. Univ. Lab. Critt.  
Pavia, sér. 5, 4: 223. 1947  
*Grimmia laevigata* (Brid.) Brid., Bryol. Univ. 1: 183.  
1826  
*Grimmia lisae* De Not., Musc. Ital. Spic.: 15. 1837  
*Grimmia longirostris* Hook., Musci Exot. 1: 62.  
1818 – [46]  
*Grimmia mesopotamica* Schiffn. → *Grimmia fusco-*  
*lutea*  
*Grimmia meteorae* Townsend → *Grimmia nutans*  
*Grimmia montana* Bruch & Schimp., Bryol. Eur. 3:  
128. 1845  
*Grimmia nutans* Bruch, Flora 12: 390. 1829 – [47]  
*Grimmia orbicularis* Bruch ex Wilson, Engl. Bot.  
Suppl. 4: no. 2888. 1844 – [48]  
*Grimmia orbicularis* Bruch ex Wilson var. *persica*  
Schiffn. → *Grimmia orbicularis*  
*Grimmia ovalis* (Hedw.) Lindb., Acta Soc. Sci. Fenn.  
10: 75. 1871  
*Grimmia pitardii* L. Corb. → *Campylostelium pitardii*  
*Grimmia plagiopoda* Hedw., Spec. Musc. Frond.: 78.  
1801

*Grimmia poecilostoma* Cardot & Sébille, Rev. Bryol. 28: 118. 1901 – [49]

*Grimmia pulvinata* (Hedw.) Sm. var. *africana* (Hedw.) Hook. f. & Wilson, Fl. Nov.-Zel. 2: 75. 1854

*Grimmia pulvinata* (Hedw.) Sm. var. *obtusata* (Brid.) Huebener → *Grimmia pulvinata* var. *africana*

*Grimmia pulvinata* (Hedw.) Sm. var. *pulvinata*, Engl. Bot. 24: 1728. 1807

*Grimmia reflexidens* Müll. Hal., Syn. Musc. Frond. 1: 795. 1849

*Grimmia singarense* Schiffn. → *Schistidium singarense*

*Grimmia stirtonii* Schimp. → *Grimmia trichophylla*

*Grimmia subcaespiticea* Schiffn. → *Grimmia reflexidens*

*Grimmia tenerrima* Renauld & Cardot → *Grimmia alpestris*

*Grimmia tergestina* Tomm. ex Bruch & Schimp., Bryol. Eur. 3: 126. 1845

*Grimmia tergestina* Tomm. ex Bruch & Schimp. var. *poecilostoma* (Cardot & Sébille) Loeske → *Grimmia poecilostoma*

*Grimmia trichophylla* Grev., Fl. Edinensis: 235. 1824

*Grimmia trichophylla* Grev. subsp. *lisae* (De Not.) Boulay → *Grimmia lisae*

*Grimmia trichophylla* Grev. var. *brachycarpa* De Not. → *Grimmia lisae*

*Grimmia trichophylla* Grev. var. *meridionalis* Müll. Hal. → *Grimmia lisae*

*Grimmia trichophylla* Grev. var. *robusta* (Ferg.) A. J. E. Smith → *Grimmia dissimulata*

*Grimmia trichophylla* Grev. var. *subsquarrosa* → *Grimmia lisae*

*Gymnostomum* Nees & Hornsch., Bryol. Germ. 1: 153. 1823

*Gymnostomum aeruginosum* Sm., Fl. Brit. 3: 1163. 1804

*Gymnostomum calcareum* Nees & Hornsch., Bryol. Germ. 1: 153. 1823

*Gymnostomum lanceolatum* Cano, Ros & Guerra, Nova Hedwigia 59: 143. 1994

*Gymnostomum luisieri* (Sérgio) Sérgio ex Crundw. → *Gymnostomum viridulum*

*Gymnostomum recurvirostrum* Hedw. → *Hymenostylium recurvirostrum*

*Gymnostomum rupestre* Schleich. ex Schwägr. → *Gymnostomum aeruginosum*

*Gymnostomum tenue* Schrad. ex Hedw. → *Gyroweisia tenuis*

*Gymnostomum viridulum* Brid., Bryol. Eur. 1: 66. 1826

*Gyroweisia* Schimp., Syn. Musc. Eur., ed. 2: 38. 1876

*Gyroweisia luisieri* Sérgio → *Gymnostomum viridulum*

*Gyroweisia reflexa* (Brid.) Schimp., Syn. Musc. Eur., ed. 2: 39. 1876

*Gyroweisia tenuis* (Hedw.) Schimp., Syn. Musc. Eur., ed. 2: 38. 1876 – [50]

*Gyroweisia tenuis* (Hedw.) Schimp. var. *badia* Limpr. → *Gyroweisia tenuis*

*Habrodon* Schimp., Syn. Musc. Eur.: 505. 1860

*Habrodon perpusillus* (De Not.) Lindb., Oefv. Foerh. Kongl. Vet.-Akad. 20: 401. 1863

*Hamatocaulis* Hedenäs, Lindbergia 15: 27. 1989

*Hamatocaulis vernicosus* (Mitt.) Hedenäs, Lindbergia 15: 27. 1989

*Haplohymenium* Dozy & Molk., Musci Fr. Ined. Archip. Indici: 127. 1846

*Haplohymenium triste* (Ces.) Kindb., Rev. Bryol. 26: 25. 1899

*Hedwigia* P. Beauv., Mag. Encycl. 5: 304. 1804

*Hedwigia albicans* Lindb. → *Hedwigia ciliata*

*Hedwigia ciliata* (Hedw.) Ehrh. ex P. Beauv. var. *ciliata*, Prodr. Aethéogam.: 15: 1805

*Hedwigia ciliata* (Hedw.) Ehrh. ex P. Beauv. var. *leucophaea* Bruch & Schimp.,

*Hedwigia stellata* Hedenäs, J. Bryol. 18: 144. 1994

*Helodium* Warnst., Krypt.-Fl. Brandenb., Laubm. 2: 675. 1905

*Helodium blandowii* (F. Weber & D. Mohr) Warnst., Krypt.-Fl. Brandenb., Laubm. 2: 692. 1905

- Hennediella heimii* (Hedw.) R. H. Zander →  
Desmatodon hemii
- Herzogiella* Broth., Nat. Pflanzenfam., ed. 2, 11:  
466. 1925
- Herzogiella seligeri* (Brid.) Z. Iwats., J. Hattori Bot.  
Lab. 33: 374. 1970
- Heterocladium* Schimp., Bryol. Eur. 5: 151. 1852
- Heterocladium dimorphum* (Brid.) Schimp., Bryol.  
Eur. 5: 153. 1852
- Heterocladium heteropterum* Schimp., Bryol. Eur.  
5: 154. 1852
- Homalia* Brid., Bryol. Univ. 2: 807, 812. 1827,  
(„Omalia“), nom. cons., orth. cons.
- Homalia besserii* Lobarz., Naturwiss. Abh. (Vienna) 1:  
48. 1847
- Homalia lusitanica* Schimp., Coroll.: 101. 1856
- Homalia trichomanoides* (Hedw.) Schimp., Bryol.  
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- Homalia webbiana* (Mont.) Schimp., Ind. Bryol.:  
567. 1896
- Homalia woronowii* Thér. → *Homalia webbiana*
- Homalothecium* Schimp., Bryol. Eur. 5: 91. 1851
- Homalothecium algerianum* Besch. → *Homalothecium*  
*philippeanum*
- Homalothecium aureum* (Spruce) H. Rob.,  
Bryologist 65: 96. 1962
- Homalothecium fallax* (H. Philib.) Delogne →  
*Homalothecium lutescens* var. *fallax*
- Homalothecium geheebii* (Milde) Wigh →  
*Brachythecium geheebii*
- Homalothecium lutescens* (Hedw.) H. Rob. var.  
*fallax* (H. Philib.) Hedenäs & L. Söderstr., Ann. Bot. Fenn.  
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- Homalothecium lutescens* (Hedw.) H. Rob. var.  
*lutescens*, Bryologist 65: 98. 1962
- Homalothecium nitens* (Hedw.) H. Rob. →  
*Tomentypnum nitens*
- Homalothecium philippeanum* (Spruce) Schimp.,  
Bryol. Eur. 5: 93. 1851
- Homalothecium sericeum* (Hedw.) Schimp., Bryol.  
Eur. 5: 93. 1851
- Homomallium* (Schimp.) Loeske, Hedwigia 46: 314.  
1907
- Homomallium incurvatum* (Brid.) Loeske, Hedwigia  
46: 314. 1907
- Hookeria* Sm., Trans. Linn. Soc. London 9: 275.  
1808
- Hookeria lucens* (Hedw.) Sm., Trans. Linn. Soc.  
London 9: 275. 1808
- Hydrogonium ehrenbergii* (Lor.) A. Jaeger → *Barbula*  
*ehrenbergii*
- Hygroamblystegium fluviatile* (Hedw.) Loeske →  
*Amblystegium fluviatile*
- Hygroamblystegium irriguum* (Hook. & Wilson)  
Loeske → *Amblystegium tenax*
- Hygroamblystegium tenax* (Hedw.) Jenn. →  
*Amblystegium tenax*
- Hygroamblystegium varium* (Hedw.) Mönk. →  
*Amblystegium varium*
- Hygrohypnum* Lindb., Acta Soc. Sci. Fenn. 10: 277.  
1872
- Hygrohypnum dilatatum* (Schimp.) Loeske →  
*Hygrohypnum duriusculum*
- Hygrohypnum duriusculum* (De Not.) D. W.  
Jamieson, Taxon 29: 152. 1980.
- Hygrohypnum eugyrium* (Schimp.) Broth., Nat.  
Pflanzenfam. 1: 1040. 1908
- Hygrohypnum luridum* (Hedw.) Jenn. var. *luridum*,  
Mann. Moss. W. Pennsylv.: 287. 1913
- Hygrohypnum luridum* (Hedw.) Jenn. var.  
*subsphaericarpum* (Brid.) C. E. O. Jensen, Consp. Musc.  
Eur.: 572. 1954
- Hygrohypnum palustre* Loeske → *Hygrohypnum*  
*luridum*
- Hygrohypnum smithii* (Sw.) Broth., Nat.  
Pflanzenfam. 1. 1039. 1908
- Hylocomium* Schimp., Bryol. Eur. 5: 169. 1852
- Hylocomium brevirostre* (Brid.) Schimp., Bryol. Eur.  
5: 178. 1852
- Hylocomium pyrenaicum* (Spruce) Lindb., Musc.  
Scand.: 37. 1879
- Hylocomium splendens* (Hedw.) Schimp., Bryol.  
Eur. 5: 173. 1852



- Hymenostomum* R. Br. → *Weissia*
- Hymenostomum brachycarpum* Nees & Hornsch. → *Weissia brachycarpa*
- Hymenostomum tortile* (Schwägr.) Bruch & Schimp. → *Weissia condensa*
- Hymenostylium** Brid., *Bryol. Univ.* 2: 81. 1827
- Hymenostylium recurvirostrum** (Hedw.) Dixon, *Rev. Bryol. Lichén.* 6: 96. 1934
- Hyocomium** Schimp., *Bryol. Eur.* 5: 235. 1853
- Hyocomium armoricum** (Brid.) Wijk & Margad., *Taxon* 10: 24. 1961
- Hyophila** Brid., *Bryol. Univ.* 1: 760. 1827
- Hyophila involuta** (Hook.) A. Jaeger, *Ber. St. Gall. Naturw. Ges.* 1871-72: 354. 1873
- Hypnum** Hedw., *Spec. Musc. Frond.*: 236. 1801
- Hypnum andoi** A. J. E. Smith, *J. Bryol.* 11: 606. 1981
- Hypnum bambergeri** Schimp., *Syn. Musc. Eur.*, ed. 2: 698. 1860
- Hypnum callichroum** Brid., *Bryol. Univ.* 2: 631. 1827
- Hypnum cupressiforme** Hedw. var. *cupressiforme*, *Spec. Musc. Frond.*: 291. 1801 – [51]
- Hypnum cupressiforme* Hedw. var. *ericetorum* Schimp. → *Hypnum jutlandicum*
- Hypnum cupressiforme* Hedw. var. *filiforme* Brid. → *Hypnum cupressiforme* var. *cupressiforme*
- Hypnum cupressiforme* Hedw. fo. *filiforme* Krahmer → *Hypnum cupressiforme* var. *cupressiforme*
- Hypnum cupressiforme* Hedw. subsp. *imponens* (Hedw.) Boulay → *Hypnum imponens*
- Hypnum cupressiforme* Hedw. var. *julaceum* Brid. → *Hypnum vaucheri*
- Hypnum cupressiforme** Hedw. var. *lacunosum* Brid., *Muscol. Recent.* 2: 136. 1801
- Hypnum cupressiforme* Hedw. var. *mammillatum* Brid. → *Hypnum andoi*
- Hypnum cupressiforme** Hedw. var. *resupinatum* (Taylor) Schimp., *Coroll. Bryol. Eur.*: 133. 1856
- Hypnum cupressiforme* Hedw. var. *tectorum* Brid. → *Hypnum cupressiforme* var. *lacunosum*
- Hypnum cupressiforme* Hedw. var. *uncinatum* Schimp. → *Hypnum cupressiforme* var. *cupressiforme*
- Hypnum ericetorum* (Schimp.) Loeske → *Hypnum jutlandicum*
- Hypnum fastigiatum* Brid. → *Hypnum recurvatum*
- Hypnum fertile** Sendtn., *Denkschr. Bayer. Bot. Ges. Regensburg* 3:147. 1841
- Hypnum hamulosum** Schimp., *Bryol. Eur.* 6: 96. 1854
- Hypnum imponens** Hedw., *Spec. Musc. Frond.*: 290. 1801
- Hypnum jutlandicum** Holmen & E. Warncke, *Bot. Tidsskr.* 65: 179. 1969
- Hypnum lacunosum* (Brid.) Hoffm. ex Brid. → *Hypnum cupressiforme* var. *lacunosum*
- Hypnum lindbergii** Mitt., *J. Bot.* 2: 123. 1864
- Hypnum mammillatum* (Brid.) Loeske → *Hypnum andoi*
- Hypnum ravaudii* Boul. subsp. *fastigiatum* (Hampe) Wijk & Margad. → *Hypnum recurvatum*
- Hypnum recurvatum** (Lindb. & Arnell) Kindb., *Enum. Bryin. Exot.*: 100. 1891
- Hypnum resupinatum* Taylor → *Hypnum cupressiforme* var. *resupinatum*
- Hypnum revolutum** (Mitt.) Lindb., *Oefv. Foerh. Kongl. Svenska Vetensk.-Akad.* 23: 542. 1867
- Hypnum tectorum* Funck ex Brid. → *Hypnum cupressiforme* var. *lacunosum*
- Hypnum vaucheri** Lesq., *Mem. Soc. Sci. Nat. Neuchâtel* 3: 48. 1846
- Isopterygiopsis** Z. Iwats., *J. Hattori Bot. Lab.* 33: 379. 1970
- Isopterygiopsis muelleriana** (Schimp.) Z. Iwats., *J. Hattori Bot. Lab.* 33: 379. 1970
- Isopterygiopsis pulchella** (Hedw.) Z. Iwats., *J. Hattori Bot. Lab.* 63: 450. 1987
- Isopterygium depressum* (Brid.) Mitt. → *Taxiphyllum wisgrillii*
- Isopterygium muellerianum* (Schimp.) A. Jaeger → *Isopterygiopsis muelleriana*
- Isopterygium pulchellum* (Hedw.) A. Jaeger & Sauerb. → *Isopterygiopsis pulchella*



*Isopterygium seligeri* (Brid.) Dixon → Herzogiella seligeri

*Isothecium* Brid., Bryol. Univ. 2: 355. 1827

*Isothecium alopecuroides* (Dubois) Isov. var. *alopecuroides*, Ann. Bot. Fenn. 18: 202. 1981

*Isothecium alopecuroides* (Dubois) Isov. var. *robustum* (Schimp.) Düll, Bryol. Beitr. 5: 193. 1985

*Isothecium filescens* (Brid.) Mönk. → Eurhynchium striatulum

*Isothecium myosuroides* Brid., Bryol. Univ. 2: 369. 1827

*Isothecium myurum* Brid. → *Isothecium alopecuroides*

*Isothecium stoloniferum* Hook. ex Brid. → *Isothecium myosuroides*

*Isothecium viviparum* Lindb. → *Isothecium alopecuroides*

*Kiaeria* I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. 1: 109. 1914

*Kiaeria starkei* (F. Weber & D. Mohr) I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. 1: 114. 1914

*Leptobarbula* Schimp., Rev. Bryol. 1: 1875

*Leptobarbula berica* (De Not.) Schimp., Syn. Musc. Eur., ed. 2: 181. 1876

*Leptobryum* (Bruch & Schimp.) Wilson, Bryol. Brit.: 219. 1855

*Leptobryum pyriforme* (Hedw.) Wilson, Bryol. Brit.: 219. 1855

*Leptodictyum* (Schimp.) Warnst., Krypt.-Fl. Brandenburg, Laubm. 2: 878. 1906 – [52]

*Leptodictyum kochii* (Schimp.) Warnst. → *Amblystegium humile*

*Leptodictyum kurdicum* (Schiffn.) Broth., Nat. Pflanzenfam. 2: 337. 1925 – [53]

*Leptodictyum riparium* (Hedw.) Warnst., Krypt.-Fl. Brandenburg, Laubm. 2: 878. 1906

*Leptodon* D. Mohr, Observ. Bot.: 27. 1803

*Leptodon smithii* (Hedw.) F. Weber & D. Mohr, Ind. Mus. Pl. Crypt.: 2. 1803

*Lescuraea* Schimp., Bryol. Eur. 5: 101. 1851

*Lescuraea decipiens* (Limpr.) Loeske → *Lescuraea saxicola*

*Lescuraea denudata* (Kindb.) Mönk. → *Pseudoleskea radicata* var. *denudata*

*Lescuraea incurvata* (Hedw.) E. Lawton → *Pseudoleskea incurvata*

*Lescuraea mutabilis* (Brid.) Lindb. ex I. Hagen var. *saxicola* (Schimp.) I. Hagen → *Lescuraea saxicola*

*Lescuraea mutabilis* (Brid.) Lindb. ex I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. 9: 53. 1909

*Lescuraea patens* (Lindb.) Arnell & C. E. O. Jensen → *Pseudoleskea patens*

*Lescuraea radicata* (Mitt.) Mönk. var. *denudata* (Kindb.) E. Lawton → *Pseudoleskea radicata* var. *denudata*

*Lescuraea radicata* (Mitt.) Mönk. → *Pseudoleskea radicata*

*Lescuraea saxicola* (Schimp.) Milde, Bryol. Siles.: 288. 1869

*Lescuraea striata* (Schwägr.) Schimp. → *Lescuraea mutabilis*

*Leskea catenulata* (Schrad.) Mitt. → *Pseudoleskeella catenulata*

*Leskea* Hedw., Spec. Musc. Frond.: 211. 1801

*Leskea incurvata* Hedw. → *Pseudoleskea incurvata*

*Leskea polycarpa* Ehrh. ex Hedw., Spec. Musc. Frond.: 225. 1801

*Leskea tectorum* (Brid.) Lindb. → *Pseudoleskeella tectorum*

*Leskeella* (Limpr.) Loeske → *Pseudoleskeella*

*Leskeella incrassata* (Lindb.) Broth., Nat. Pfl. Fam. 1: 996. 1907 – [54]

*Leskeella nervosa* (Brid.) Loeske → *Pseudoleskeella nervosa*

*Leskeella tectorum* (Brid.) I. Hagen → *Pseudoleskeella tectorum*

*Leucobryum* Hampe, Linnaea 13: 42. 1839

*Leucobryum albidum* auct. eur. → *Leucobryum juniperoideum*

*Leucobryum glaucum* (Hedw.) Ångstr., Summa Veg. Scand. 1: 94. 1846

- Leucobryum juniperoideum* (Brid.) Müll. Hal., *Linnaea* 18: 689. 1845
- Leucodon* Schwägr., *Spec. Musc. Frond. Suppl.* 1: 1. 1816
- Leucodon balcanicus* Velen. → *Leucodon sciuroides*
- Leucodon caucasicus* Jur. & Milde → *Leucodon immersus*
- Leucodon flagellaris* Broth., *Act. Soc. Sci. Fenn.* 19: 138. 1892
- Leucodon immersus* Lindb., *Oerfv. Finsk. Vet. Soc. Foerh.* 12: 72. 1870
- Leucodon sciuroides* (Hedw.) Schwägr. var. *morensis* (Schwägr.) De Not., *Syll. Musc. Ital.*: 79. 1838
- Leucodon sciuroides* (Hedw.) Schwägr. var. *sciuroides*, *Spec. Musc. Frond. Suppl.* 1: 1. 1816
- Metaneckera* Steere, *Bryologist* 70: 344. 1967
- Metaneckera menziesii* (Drumm.) Steere, *Bryologist* 70: 344. 1967
- Microbryum curvicolle* (Hedw.) R. H. Zander → *Phascum curvicolle*
- Microbryum davallianum* (Sm.) R. H. Zander → *Pottia davalliana*
- Microbryum floerkeanum* (F. Weber & D. Mohr) Schimp. → *Phascum floerkeanum*
- Microbryum rectum* (With.) R. H. Zander → *Pottia recta*
- Microbryum starckeanum* (Hedw.) R. H. Zander → *Pottia starckeanum*
- Microbryum starckeanum* (Hedw.) R. H. Zander var. *brachyodus* (Bruch & Schimp.) R. H. Zander → *Pottia mutica*
- Mildeella* Limpr. → *Pottia*
- Mildeella bryoides* (Dicks.) Limpr. → *Pottia bryoides*
- Mniobryum* Limpr. → *Pohlia*
- Mniobryum albicans* (Wahlenb.) Limpr. → *Pohlia wahlenbergii*
- Mnium* Hedw., *Spec. Musc. Frond.*: 188. 1801
- Mnium affine* Blandow → *Plagiomnium affine*
- Mnium affine* Blandow var. *elatum* Bruch & Schimp. → *Plagiomnium elatum*
- Mnium affine* Blandow var. *rugicum* (Laurer) Bruch & Schimp. → *Plagiomnium ellipticum*
- Mnium affine* Blandow var. *rutheanum* (Warnst.) Mönk. → *Plagiomnium ellipticum*
- Mnium ambiguum* H. Müll. → *Mnium lycopodioides*
- Mnium confertidens* (Lindb. & Arnell) Kindb. → *Plagiomnium confertidens*
- Mnium cuspidatum* Hedw. → *Plagiomnium cuspidatum*
- Mnium ellipticum* Brid. → *Plagiomnium ellipticum*
- Mnium hornum* Hedw., *Spec. Musc. Frond.*: 188. 1801
- Mnium longirostre* Brid. → *Plagiomnium rostratum*
- Mnium lycopodioides* Schwägr. subsp. *orthorrhynchum* (Hartm.) Wijk & Margad. → *Mnium thomsonii*
- Mnium lycopodioides* Schwägr., *Spec. Musc. Frond. Suppl.* 2: 24. 1826
- Mnium magnifolium* Horik. → *Rhizomnium magnifolium*
- Mnium marginatum* (Dicks.) P. Beauv., *Prodr. Aethéogam.*: 75. 1805 – [55]
- Mnium marginatum* (Dicks.) P. Beauv. var. *riparium* (Mitt.) Husn. → *Mnium marginatum*
- Mnium medium* Bruch & Schimp. → *Plagiomnium medium*
- Mnium orthorrhynchum* auct. → *Mnium thomsonii*
- Mnium punctatum* Hedw. → *Rhizomnium punctatum*
- Mnium punctatum* Hedw. var. *elatum* Schimp. → *Rhizomnium magnifolium*
- Mnium riparium* Mitt. → *Mnium marginatum*
- Mnium rostratum* anon. → *Plagiomnium rostratum*
- Mnium rugicum* Laurer → *Plagiomnium ellipticum*
- Mnium seligeri* Jur. → *Plagiomnium elatum*
- Mnium spinosum* (Voit) Schwägr., *Spec. Musc. Frond. Suppl.* 1:130. 1816
- Mnium spinulosum* Bruch & Schimp., *Bryol. Eur.* 4: 206. 1846
- Mnium stellare* Hedw., *Spec. Musc. Frond.*: 191. 1801

**Mnium thomsonii** Schimp., Syn. Musc. Eur., ed. 2:  
485. 1876

*Mnium undulatum* Hedw. → *Plagiomnium undulatum*

*Molendoa* Lindb. → *Anoetangium*

*Molendoa sendtneriana* (Bruch & Schimp.) Limpr. →  
*Anoetangium sendtnerianum*

**Myurella** Schimp., Bryol. Eur. 6: 39. 1853

*Myurella apiculata* (Sommerf.) Schimp. → *Myurella*  
*tenerrima*

**Myurella julacea** (Schwägr.) Schimp., Bryol. Eur. 6:  
41. 1853 – [56]

*Myurella julacea* (Schwägr.) Schimp. var. *scabrifolia*  
Lindb. ex Limpr. → *Myurella julacea*

**Myurella tenerrima** (Brid.) Lindb., Musc. Scand. 37.  
1879

**Neckera** Hedw., Spec. Musc. Frond.: 200. 1801

*Neckera besseri* (Lobarz.) Jur. → *Homalia besseri*

**Neckera complanata** (Hedw.) Huebener, Muscol.  
Germ.: 576. 1833

**Neckera crista** Hedw., Spec. Musc. Frond.: 206.  
1801

*Neckera mediterranea* H. Philib. → *Metaneckera*  
*menziesii*

*Neckera menziesii* Drumm. → *Metaneckera menziesii*

**Neckera pumila** Hedw., Spec. Musc. Frond.: 205.  
1801

*Neckeradelphus* Steere → *Metaneckera*

*Neckeradelphus menziesii* (Drumm.) Steere →  
*Metaneckera menziesii*

**Oligotrichum** Lam. & DC., Fl. Franc., ed. 3, 2: 491.  
1805

**Oligotrichum hercynicum** (Hedw.) Lam. & DC., Fl.  
Franc., ed. 2, 2: 492. 1805

**Oncophorus** (Brid.) Brid., Bryol. Univ. 1: 389. 1826

**Oncophorus virens** (Hedw.) Brid., Bryol. Univ. 1:  
399. 1826

*Orthodicranum* Loeske → *Dicranum*

*Orthodicranum montanum* (Hedw.) Loeske →  
*Dicranum montanum*

*Orthodicranum tauricum* (Sapjegin) Smirnova →  
*Dicranum tauricum*

**Orthothecium** Schimp., Bryol. Eur. 5: 105. 1851

**Orthothecium intricatum** (Hartm.) Schimp., Bryol.  
Eur. 5: 108. 1851

**Orthotrichum** Hedw., Spec. Musc. Frond.: 162.  
1801

**Orthotrichum acuminatum** H. Philib., Rev. Bryol. 8:  
28. 1881

**Orthotrichum affine** Schrad. ex Brid. subsp. *affine*,  
Muscol. Recent. 2: 22. 1801

**Orthotrichum affine** Schrad. ex Brid. subsp.  
*fastigiatum* (Brid.) Hartm., Handb. Skand. Fl., ed. 4:  
322. 1838

**Orthotrichum alpestre** Hornsch. ex Bruch &  
Schimp., Bryol. Eur. 3: 75. 1849

**Orthotrichum anomalum** Hedw., Spec. Musc.  
Frond.: 162. 1801 – [57]

*Orthotrichum anomalum* Hedw. subsp. *saxatile* (Brid.)  
Boulay → *Orthotrichum anomalum*

**Orthotrichum cupulatum** Hoffm. ex Brid. var.  
*bistratosum* Schiffn., Ann. Naturh. Mus. Wien 27: 492.  
1913

**Orthotrichum cupulatum** Hoffm. ex Brid. var.  
*cupulatum*, Muscol. Recent. 2: 25. 1801

**Orthotrichum cupulatum** Hoffm. ex Brid. var.  
*riparium* Huebener, Musc. Germ.: 381. 1833

**Orthotrichum diaphanum** Schrad. ex Brid., Muscol.  
Recent. 2: 29. 1801

*Orthotrichum fallax* Bruch ex Brid. → *Orthotrichum*  
*pumilum*

*Orthotrichum fastigiatum* Bruch ex Brid. →  
*Orthotrichum affine* subsp. *fastigiatum*

*Orthotrichum franzonianum* De Not. ex Venturi →  
*Orthotrichum rupestre* var. *franzonianum*

**Orthotrichum gymnostomum** Bruch ex Brid.,  
Bryol. Univ. 1: 782. 1827

**Orthotrichum laevigatum** E. Zetterst., Oefv. Foerh.  
Kongl. Svenska Vetensk.-Akad. 19: 363. 1862

*Orthotrichum leiocarpum* Bruch & Schimp. →  
*Orthotrichum striatum*

**Orthotrichum Iyellii** Hook. & Taylor, Musc. Brit.: 76.  
1818

- Orthotrichum obtusifolium* Brid., Muscol. Recent. 2: 23. 1801
- Orthotrichum pallens* Bruch ex Brid., Bryol. Univ. 1: 788. 1827
- Orthotrichum patens* Bruch ex Brid., Bryol. Univ. 1: 787. 1827
- Orthotrichum pumilum* Sw., Monthly Rev. 34: 538. 1801 – [58]
- Orthotrichum pumilum* Sw. subsp. *fallax* (Bruch) Bertsch → *Orthotrichum pumilum*
- Orthotrichum rivulare* Turner, Muscol. Hibern. Spic.: 96. 1804
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *franzonianum* (De Not.) Venturi, Musc. Gall.: 157. 1887
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *kurdicum* Schiffn., Ann. Naturh. Mus. Wien 27: 492. 1913
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *rupestre*, Spec. Musc. Frond. Suppl. 1: 27. 1816
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *sturmii* (Hoppe & Hornsch.) Boulay, Musc. France: 327. 1884
- Orthotrichum saxatile* Brid. → *Orthotrichum anomalum*
- Orthotrichum schimperi* Hammar → *Orthotrichum pumilum*
- Orthotrichum speciosum* Nees, Deutschl. Fl., Abt. 2, Cryptog. 3: 5. 1819
- Orthotrichum sprucei* Mont., London J. Bot. 4: 186. 1845
- Orthotrichum stramineum* Hornsch. ex Brid. var. *patens* (Brid.) Venturi → *Orthotrichum patens*
- Orthotrichum stramineum* Hornsch. ex Brid. var. *stramineum*, Bryol. Univ. 1: 789. 1827
- Orthotrichum stramineum* Hornsch. ex Brid. var. *vexabile* Limpr., Laubm. Deutschl. 2: 68. 1890
- Orthotrichum striatum* Hedw., Spec. Musc. Frond.: 163. 1801
- Orthotrichum sturmii* Hoppe & Hornsch. → *Orthotrichum rupestre* var. *sturmii*
- Orthotrichum tenellum* Bruch ex Brid., Bryol. Univ. 1: 786. 1827
- Orthotrichum tortidentium* F. Lara, Garilleti & Mazimpaka, Nova Hedwigia 63: 517-524. 1996
- Orthotrichum urnigerum* Myrin, Coroll. Fl. Upsal.: 71. 1833
- Oxyrrhynchium* (Schimp.) Warnst. → *Eurhynchium*
- Oxyrrhynchium hians* (Hedw.) Loeske → *Eurhynchium hians*
- Oxyrrhynchium pumilum* (Wilson) Loeske → *Eurhynchium pumilum*
- Oxyrrhynchium schleicheri* (R.Hedw.) Roell → *Eurhynchium schleicheri*
- Oxyrrhynchium speciosum* (Brid.) Warnst. → *Eurhynchium speciosum*
- Oxystegus* (Limpr.) Hilp., Beih. Bot. Centralbl. 50: 666. 1933
- Oxystegus cylindricus* (Brid.) Hilp. → *Oxystegus tenuirostris*
- Oxystegus cylindricus* (Brid.) Hilp. subsp. *hibernicus* (Mitt.) Podp. → *Oxystegus hibernicus*
- Oxystegus cylindricus* (Brid.) Hilp. var. *irriguus* (Limpr.) Podp., Consp.: 176. 1954 – [59]
- Oxystegus hibernicus* (Mitt.) Hilp., Beih. Bot. Centralbl. 50: 667. 1933
- Oxystegus tenuirostris* (Hook. & Taylor) A. J. E. Smith, J. Bryol. 9: 393. 1977
- Palamocladium* Müll. Hal., Flora 82: 465. 1896
- Palamocladium euchloron* (Müll. Hal.) Wijk & Margad., Taxon 9: 52. 1960
- Palustriella* Ochyra, J. Hattori Bot. Lab. 67: 223. 1989
- Palustriella commutata* (Hedw.) Ochyra var. *commutata*, J. Hattori Bot. Lab. 67: 224. 1989
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- Palustriella commutata* (Hedw.) Ochyra var. *fluctuans* (Schimp.) Ochyra, J. Hattori Bot. Lab. 67: 226. 1989
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*Sphagnum teres*

*Sphagnum subsecundum* Nees var. *inundatum*  
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*inundatum*

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*subpapillosissima*

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- Syntrichia ruralis* (Hedw.) F. Weber & D. Mohr var. *hirsuta* (Venturi) Podp. → *Syntrichia papillosissima*
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- Thuidium recognitum* (Hedw.) Lindb. subsp. *philibertii* (Limpr.) Dixon → *Thuidium philibertii*
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- Thuidium tamariscinum*** (Hedw.) Schimp., *Bryol. Eur.* 5: 163. 1852
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- Tortula* Hedw., Spec. Musc. Frond.: 122. 1801
- Tortula abanchesii* Luisier → *Syntrichia caninervis* subsp. *caninervis*
- Tortula acaulon* (With.) R. H. Zander → *Phascum cuspidatum*
- Tortula aestiva* (Hedw.) P. Beauv. → *Tortula muralis* var. *aestiva*
- Tortula atherodes* R. H. Zander → *Phascum cuspidatum*
- Tortula atrovirens* (Sm.) Lindb., Oefv. Foerh. Kongl. Svenska Vetensk.-Akad. 21: 236. 1864
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- Tortula calcicola* Grebe → *Syntrichia calcicola*
- Tortula calcicolens* W. Kramer → *Syntrichia calcicola*
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- Tortula caninervis* (Mitt.) Broth. subsp. *caninervis* → *Syntrichia caninervis* subsp. *caninervis*
- Tortula caninervis* (Mitt.) Broth. subsp. *spuria* (Amann) W. Kramer → *Syntrichia caninervis* subsp. *gypsophila*
- Tortula caninervis* (Mitt.) Broth. subsp. *spuria* (Amann) W. Kramer var. *gypsophila* (G. Roth) W. Kramer → *Syntrichia caninervis* var. *gypsophila*
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- Tortula desertorum* Broth. → *Syntrichia caninervis* subsp. *caninervis*
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- Tortula intermedia* (Brid.) De Not. subsp. *handelii* (Schiffn.) Wijk & Margad. → *Syntrichia handelii*

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*Tortula laevipila* (Brid.) Schwägr. → *Syntrichia laevipila* var. *laevipila*

*Tortula laevipila* (Brid.) Schwägr. var. *meridionalis* (Schimp.) Wijk & Margad. → *Syntrichia laevipila* var. *laevipilaeformis*

*Tortula laevipilaeformis* De Not. → *Syntrichia laevipila* var. *laevipilaeformis*

*Tortula lanceolata* R. H. Zander → *Pottia lanceolata*

*Tortula latifolia* Bruch ex Hartm. → *Syntrichia latifolia*

*Tortula marginata* (Bruch & Schimp.) Spruce, London J. Bot. 4: 192. 1845

*Tortula modica* R. H. Zander → *Pottia intermedia*

*Tortula montana* (Nees) Lindb. → *Syntrichia intermedia*

*Tortula mucronifolia* Schwägr. → *Syntrichia mucronifolia*

*Tortula muelleri* Hook. f. & Wilson var. *parnassica* Schiffn. → *Syntrichia princeps* var. *parnassica*

*Tortula muralis* L. ex Hedw. var. *aestiva* Brid. ex Hedw., Spec. Musc. Frond.: 124. 1801

*Tortula muralis* Hedw. var. *israelis* (Bizot & Bilewsky) Bizot → *Tortula israelis*

*Tortula muralis* L. ex Hedw. var. *muralis* Spec. Musc. Frond.: 123. 1801

*Tortula norvegica* (F. Weber) Wahlenb. ex Lindb. → *Syntrichia norvegica*

*Tortula obtusifolia* (Schwägr.) Mathieu, Fl. Gen. Belgique, Bryoph.: 48. 1853

*Tortula papillosa* Wilson → *Syntrichia papillosa*

*Tortula papillosissima* (Copp.) Broth. → *Syntrichia papillosissima*

*Tortula perlimbata* Geheeb ex Cardot → *Tortula solmsii*

*Tortula princeps* De Not. → *Syntrichia princeps*

*Tortula princeps* De Not. subsp. *echinata* (Schiffn.) W. Kramer → *Syntrichia princeps* var. *echinata*

*Tortula princeps* De Not. subsp. *parnassica* (Schiffn.) W. Kramer → *Syntrichia princeps* var. *parnassica*

*Tortula protobryoides* R. H. Zander → *Pottia bryoides*

*Tortula pseudodesertorum* Fröhl. → *Syntrichia caninervis* subsp. *caninervis*

*Tortula pseudohandelii* Fröhl. → *Syntrichia caninervis* var. *pseudodesertorum*

*Tortula pulvinata* (Jur.) Limpr. → *Syntrichia virescens*

*Tortula revolvens* (Schimp.) G. Roth var. *obtusata* Reimers, Hedwigia 79: 284. 1940

*Tortula ruraliformis* (Besch.) Ingham var. *ruraliformis* → *Syntrichia ruraliformis* var. *ruraliformis*

*Tortula ruraliformis* (Besch.) Ingham var. *subpapillosissima* (Bizot & R. B. Pierrot) W. Kramer → *Syntrichia subpapillosissima*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. → *Syntrichia ruralis*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. var. *arenicola* Braithw. → *Syntrichia ruraliformis* var. *ruraliformis*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. subsp. *calcicola* (J. J. Amann) Giacom. → *Syntrichia calcicola*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. subsp. *calcicolens* (W. Kramer) Düll → *Syntrichia calcicola*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. subsp. *hirsuta* (Venturi) W. Kramer → *Syntrichia papillosissima*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. subsp. *hirsuta* (Venturi) W. Kramer var. *submamillosa* W. Kramer → *Syntrichia subpapillosissima*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. subsp. *norvegica* (F. Weber) Dixon → *Syntrichia norvegica*

*Tortula ruralis* (Hedw.) P. Gaertn., E. Mey. & Scherb. var. *ruraliformis* (Besch.) De Wild. → *Syntrichia ruraliformis* var. *ruraliformis*

*Tortula santorinensis* Schiffn. → *Tortula solmsii*

*Tortula sinensis* (Müll. Hal.) Broth. → *Syntrichia sinensis*

*Tortula solmsii* (Schimp.) Limpr., Laubm. Deutschl. 1: 660. 1888

*Tortula subulata* Hedw. → *Syntrichia subulata*

*Tortula subulata* Hedw. var. *angustata* (Schimp.)  
Limpr. → *Syntrichia subulata* var. *angustata*

*Tortula subulata* Hedw. var. *angustifolia* (Milde) Wijk  
& Margad. → *Syntrichia subulata* var. *angustifolia*

*Tortula subulata* Hedw. var. *graeffii* Warnst. →  
*Syntrichia subulata* var. *graeffii*

*Tortula subulata* Hedw. var. *subinermis* (Bruch &  
Schimp.) Wilson → *Syntrichia subulata* var. *subinermis*

*Tortula vahliana* (Schultz) Mont., Fl. Chil. 7: 153.  
1850

*Tortula virescens* (De Not.) De Not. subsp. *virescens*  
var. *virescens* → *Syntrichia virescens*

*Tortula viridifolia* (Mitt.) Blockeel & A. J. E. Smith →  
*Pottia crinita*

*Tortula wilsonii* var. *crinita* (Bruch & Schimp.) R. H.  
Zander → *Pottia crinita*

*Trichostomopsis* Cardot, Rev. Bryol. 36: 73. 1909

*Trichostomopsis aaronis* (Lor.) Agnew & Townsend,  
Israel J. Bot. 19: 258. 1970

*Trichostomopsis umbrosa* (Müll. Hal.) Robins.,  
Phytologia 20: 115. 1970

*Trichostomum* Bruch, Flora 12: 295. 1829

*Trichostomum brachydontium* Bruch var.  
*brachydontium*, Flora 12: 393. 1829 – [74]

*Trichostomum brachydontium* Bruch subsp.  
*cuspidatum* (Braithw.) Giac. → *Trichostomum*  
*brachydontium* var. *cuspidatum*

*Trichostomum brachydontium* Bruch var.  
*cuspidatum* (Braithw.) L. I. Savicz, Bot. Mater Otd.  
Sporov. Rast. Bot. Inst. Komarova Akad. Nauk SSSR 11:  
208. 1956 – [74]

*Trichostomum brachydontium* Bruch subsp.  
*densum* (Bruch & Schimp.) Giac., Atti Ist. Ot. Univ. Lab.  
Critt. Pavia, sér. 5, 4: 204. 1947 – [74]

*Trichostomum brachydontium* Bruch subsp. *mutabile*  
(Bruch) Giac. → *Trichostomum brachydontium* var.  
*brachydontium*

*Trichostomum brachydontium* Bruch var. *littorale*  
(Mitt.) C. E. O. Jensen, Foert. Skand. Vext. Moss 2: 25.  
1937

*Trichostomum crispulum* Bruch, Flora 12: 395.  
1829 – [75]

*Trichostomum crispulum* Bruch var. *brevifolium*  
(Müll. Hal.) Bruch & Schimp. → *Trichostomum crispulum*

*Trichostomum crispulum* Bruch var. *elatum* Schimp.  
→ *Trichostomum crispulum*

*Trichostomum mutabile* Bruch → *Trichostomum*  
*brachydontium*

*Ulota* D. Mohr, Ann. Bot. 2: 540. 1806

*Ulota bruchii* Hornsch. ex Brid., Bryol. Univ. 1: 794.  
1827

*Ulota crispa* (Hedw.) Brid., Muscol. Recent. Suppl.:  
112. 1819

*Ulota hutchinsiae* (Sm.) Hammar, Monogr. Orthotr.  
Ulot. Suec.: 27. 1852

*Ulota intermedia* Schimp. → *Ulota crispa*

*Warnstorfia* Loeske, Hedwigia 46: 310. 1907

*Warnstorfia exannulata* (Schimp.) Loeske, Hedwigia  
46: 310. 1907

*Warnstorfia fluitans* (Hedw.) Loeske, Hedwigia 46:  
310. 1907

*Webera* Hedw. → *Pohlia*

*Weissia* Hedw., Spec. Musc. Frond.: 64. 1801

*Weissia brachycarpa* (Nees & Hornsch.) Jur.,  
Laubm.-Fl. Oesterr.-Ung.: 9. 1882

*Weissia condensa* (Voit) Lindb., Oefv. Foerh. Kongl.  
Svenska Vetensk.-Akad. 21: 230. 1863

*Weissia controversa* Hedw., Spec. Musc. Frond.: 67.  
1801 – [76]

*Weissia controversa* Hedw. var. *crispata* (Nees &  
Hornsch.) Nyholm → *Weissia controversa*

*Weissia controversa* Hedw. var. *wimmeriana*  
(Sendtn.) Blockeel & A. J. E. Smith → *Weissia*  
*wimmeriana*

*Weissia crispa* (Hedw.) Mitt. → *Weissia longifolia*

*Weissia crispata* (Nees & Hornsch.) Müll. Hal. →  
*Weissia controversa*

*Weissia fallax* Sehm. → *Weissia controversa*

*Weissia leptocarpa* Schimp. ex Besch., Deux. Exc.  
Bot. Espagne Portugal: 171. 1880

*Weissia levieri* (Limpr.) Kindb., Eur. N. Amer. Bryin.  
2: 285. 1897



**Weissia longifolia** Mitt., Ann. Mag. Nat. Hist. 8: 317. 1851

*Weissia microstoma* (Hedw.) Müll. Hal. → *Weissia brachycarpa*

**Weissia rutilans** (Hedw.) Lindb., Öfvers. Fört. Kongl. Svenska Vetensk.-Akad. 20: 417. 1863

*Weissia tortilis* (Schwägr.) Müll. Hal. → *Weissia condensata*

*Weissia viridula* Brid. → *Weissia controversa*

**Weissia wimmeriana** (Sendtn.) Bruch & Schimp., Bryol. Eur. 1: 64. 1846 – [77]

**Zygodon** Hook. & Taylor, Musc. Brit.: 70. 1818

*Zygodon baumgartneri* Malta → *Zygodon rupestris*

*Zygodon mougeotii* Bruch & Schimp. → *Amphidium mougeotii*

**Zygodon rupestris** Schimp. ex Lorentz, Bryol. Notizb.: 32. 1865

*Zygodon viridissimus* (Dicks.) Brid. var. *vulgaris* Malta → *Zygodon rupestris*

**Zygodon viridissimus** (Dicks.) Brid., Bryol. Univ. 1: 592. 1826

### Annotations

- 1 Recorded without locality data by Smith (1990)
- 2 var. *anomala* is only a poorly developed modification of the typical taxon (cf. Düll & Meinunger, 1989)
- 3 An unknown taxon reported erroneously for Turkey by Bornmüller (1931) (Grolle, pers. comm.)
- 4 A critical taxon, treated as a synonym to *G. inflata* by some authors (Grolle & Long, 2000)
- 5 A north American taxon, doubtfully recorded for Turkey by Schiffner (1909). The record probably refers to *J. javanica*
- 6 Including *Nardia handelii* Schiffn. var. *flaccida* Schiffn., a doubtful taxon (Vánia, 1974)
- 7 According to Gradstein & van Melick (1996) and Dirkse et al. (1999) synonymous to *L. bantriensis*
- 8 According to Engel & Schuster (1984), the genus *Lophocolea* is synonymous to the genus *Chiloscyphus*
- 9 A critical taxon, may be without taxonomical value. Recorded for Turkey by Schiffner (1909).

- 10 Incl. var. *ulvula* (Nees) Gottsche, a doubtful taxon
- 11 Based on isoenzyme analysis (Boisselier-Dubayle et al., 1998) only a hybrid between *P. cordaeana* and *P. platyphylla* of no specific rank
- 12 Known only from the type (Schiffner, 1908)
- 13 A very variable taxon. The recognition of intraspecific taxa is doubtful and needs further investigations
- 14 The recognition of the intraspecific taxa is difficult. *A. serpens* var. *serpens* and var. *juratzkanum* therefore are treated as synonyms by some authors (cf. Frey et al., 1995)
- 15 The recognition of intraspecific taxa is critical and needs further investigations.
- 16 According to Robinson & Ignatov (1997), *B. laetum* is the correct name for the European *B. oxycladon* (*oxycladum*)
- 17 Contrary to Corley et al. (1981), *B. olympicum* Jur. is not accepted as a species, but synonymous to *B. velutinum* var. *salicinum* (Düll, 1985, 1995; Koperski et al., 2000)
- 18 A critical taxon which needs further investigations
- 19 Incl. *B. capillare* var. *macrocarpum* Huebener, a taxon of no taxonomical value
- 20 Ochi (1982), Ochi & Ochyra (1986) and Eddy (1988) have pointed out that the oldest name for a plant showing the characters of *B. bicolor* and *B. dunense* is *B. dichotomum*, based on a type specimen from New Zealand. This view is supported by Holyoak (2003)
- 21 A critical taxon. According to Blockeel & Long (1998), it is synonymous to *B. caespiticium* var. *imbricatum*
- 22 A critical taxon, closely related to *B. pallens*.
- 23 It was recorded by Nyholm (1993) without locality information: A new locality for the taxon is given: Niğde, Aladağlar, Narpız Boğazı, 2250 m, on limestone rock, leg.: P. Hein, 15 Aug. 1992 (A283)
- 24 The taxon is accepted by Hedenäs (1997a) as an own species
- 25 *Grimmia pitardii* L. Corb. was placed into the genus *Campylostelium* by Maier (1998). But recently Greven (2003) stated that, it can be maintained

- better in *Grimmia*, on account of several characters which it shares with *Grimmia*
- 26 A mainly tropical taxon (cf. Burley & Pritchard, 1990), doubtfully recorded for Turkey by TonguĀ-YayintaĀ (2001)
- 27 A new combination seems to be necessary for this taxon. If valid, it should be related to *Eurhynchium crassinervium*
- 28 *C. molluscum* is exceedingly variable. Most of the intraspecific taxa are poorly marked, as intermediates between it occur. The status of the varieties therefore is doubtful and experimental studies are required
- 29 *C. polycarpum* and *C. strumiferum* can be distinguished only by sporophyte morphology. As within a population both type, as well as intermediates occur, a separation on a species level is doubtful
- 30 Incl. var. *muticus* (Brids.) Brid., which is only a habitat modification (Düll & Meinunger, 1989; Zander 1993)
- 31 Based on molecular data (Stech, 1999), the species is referred recently to the genus *Dichodontium*
- 32 var. *flavescens* can be hardly separated from the type species and intermediate forms exist. It normally occur in montane habitats (cf. Nyholm 1986)
- 33 Incl. var. *tortile* (Schrad.) I. Hagen. The taxonomic value of this variety is doubtful
- 34 Recorded erroneously for Turkey by Schiffner (1908) (cf. Zarnowiec, 2001)
- 35 Hedenäs (1997 b) treats *D. capillifolius* as a synonym of *D. longifolium*. Recorded erroneously for Turkey by Henderson (1957) (cf. Zarnowiec, 2001)
- 36 Incl. var. *leptodon* Lindb. The taxonomic value of this variety is doubtful, as several intermediate forms exist
- 37 The recognition of intraspecific taxa is doubtful and needs further investigations
- 38 The recognition of intraspecific taxa is doubtful and needs further investigations
- 39 Based on molecular studies (Stech & Frahm, 1999), this taxon should be placed in the genus *Rhynchostegiella*
- 40 In contrast to Corley et al. (1981), *F. bambergeri* is accepted as a species (cf. Koperski et al., 2000)
- 41 According to Pursell (1997), *F. limbatus* is synonymous to *F. crispus*
- 42 A new combination seems to be necessary for this taxon. If valid, it should be related to *Fissidens dubius*
- 43 According to Bruggeman-Nannenga & Pursell (1995), *F. algarvicus* is synonymous to *F. curvatus*
- 44 Known only from the type, as *Rhynchostegium haussknechtii* Jur. (Juratzka & Milde, 1870) transferred to *Fontinalis* by Ignatov (1995)
- 45 According to Crum (1994) and Greven (1999), *G. apiculata* is synonymous to *G. fusco-lutea*
- 46 According to MuĀoz (1998) and Greven (1999), *G. affinis* is synonymous to *G. longirostris*
- 47 Known only from the type. According to Greven (1995), the Greek *G. meteorae* Townsend is synonymous to *G. nutans*
- 48 Incl. var. *persica* Schiffn. According to MuĀoz (2000), this variety is of no taxonomical value
- 49 According to Greven (1995), *G. poecilostoma* is treated as a separate species
- 50 Incl. var. *badia* Limpr. According to Düll & Meinunger (1989), this variety is of no taxonomical value
- 51 Incl. var. *filiforme* Brid. This variety (or forma) is of no taxonomical value. The recognition of intraspecific taxa remains critical and needs further investigations
- 52 In accordance with Anderson et al. (1990), Blockeel & Long (1998), and Crosby et al. (1999), *Leptodictyum* is accepted as a genus (cf. also Hedenäs, 1990)
- 53 Known only from the type (Schiffner, 1913)
- 54 A new combination seems to be necessary for this taxon. If valid, it should be related to *Pseudoleskeella*
- 55 Incl. var. *riparium* (Mitt.) Husn. The taxonomic value of this variety is doubtful

- 56 Incl. var. *scabrifolia* Lindb. ex Limpr. The taxonomic value of this variety is doubtful
- 57 Incl. var. *saxatile* (Brid.) Bouzlay. The taxonomic value of this variety is doubtful
- 58 Incl. subsp. *fallax* (Bruch) Bertsch. The taxonomic value of this intraspecific taxon is doubtful
- 59 A new combination seems to be necessary for this taxon. If valid, it should be related to *Oxystegus tenuirostris*
- 60 Zander (1993) divided the genus into *Tortula*, *Microbryum* and *Chenia*
- 61 A critical taxon which needs further investigations
- 62 The taxonomic status of *P. capillaris*, which is treated as a synonym of *P. arnellii* by Nyholm (1998), remains questionable
- 63 According to Hedenäs (1990) and Stech & Frahm (1999), *Platyhypnidium* is accepted as an own genus
- 64 A xerotropical African species, doubtfully recorded for Turkey by Çetin (1988a)
- 65 A hybrid between *P. aloides* (male) and *P. nanum* (female) without an accepted name. Known in the literature as *P. nanum* var. *longisetum* (Hampe) Schimp.
- 66 A hybrid between *P. aloides* (female) and *P. nanum* (male) without an accepted name. Known in the literature as *P. aloides* var. *minimum* (Crome) Molendo
- 67 Recently, Guerra & Cano (2000) placed this species within the genus *Protobryum*, due to intermediate sporophyte characters between *Phascum* and *Pottia*
- 68 In accordance with Dirkse & Bouman (1995), *R. litorea* is accepted as an own species
- 69 According to Dirkse & Bouman (1995), the correct name of *R. jacquinii* and *R. teesdalei* is *R. teneriffae* (cf. also Blockeel & Long, 1998; Crosby et al., 1999)
- 70 A west-Mediterranean-Atlantic species of the *R. riparioides* complex (→ *Platyhypnium rusciforme*) which is erroneously recorded for Turkey by Yayıntaş & Erdağ (1995)
- 71 Niğde, Aladağlar, Narpız Boğazı, 2550 m, on calcareous rock, leg.: P. Hein, 17 Aug. 1992 (A357)
- 72 The taxonomical concept follows Blom (1996, 1998)

- 73 In accordance with Düll (1994) and Brassard (1979), *T. comata* is included in the variety *excurrens*
- 74 The recognition of intraspecific taxa remains critical and needs further investigations (cf. Zander, 1993)
- 75 Incl. var. *brevifolium* (Müll. Hal.) Bruch & Schimp. and var. *elatum* Schimp. The taxonomic value of these varieties remains doubtful
- 76 The recognition of intraspecific taxa remains critical and needs further investigations
- 77 The recognition of intraspecific taxa remains critical and needs further investigations

#### List of Turkish bryological literature, arranged in alphabetical order of authors

Since the publication of the first annotated reference list on the bryological literature (Kürschner, 1997), intensive collecting activities by Turkish bryologists took place (for the current state of knowledge see Erdağ & Kırmacı, 2003), increasing the number of bryological publications from 101 in 1997 to 219 now. Many new records for Turkey or to the 'grids' adopted from Henderson's grid-square-system (Henderson, 1959-1961b) were reported, which complete our knowledge of the distribution and occurrence of the different taxa within the country, and one species, *Cinclidotus bistratosus* (Kürschner & Lübenau-Nestle, 2000), was described as new to science. In addition to these floristic papers several studies on the different bryophyte communities of Turkey were published, which give a first impression of the bryophytic vegetation, the communities and syntaxonomic and synhierarchic affinities, the ecology and habitat requirements of single taxa, and the phytogeographical relationships. All these publications, together with the following annotated list of references can be seen as a step toward a future bryophyte flora of Turkey, which is urgently needed for a better understanding of the phytodiversity and the ecology of this remarkable but often neglected group of plants.

The reference list gives a complete citation of each title, arranged in alphabetical order of authors and then chronologically following the first author. It includes all publications, from the early beginning in 1829 (F. A. Müller, p. 390, description of *Grimmia nutans* Bruch, which was collected by M. Fleischer on rocks near İzmir),

the early collection phase of C. Haussknecht 1865, 1868 (cf. Juratzka & Milde, 1870), C. F. Forsyth-Major 1886 (Samsun Dağ, cf. Barbey, 1890), P. Sintenis 1894 (cf. Schiffner, 1896), and J. Nemetz 1894-1897 (İstanbul area, cf. Fritsch 1899), to January 2004. The journal names are given in full to make a finding them in library catalogues or on the Internet easier. The references are annotated (the annotations are placed in square brackets [ ]) and provide short information on the content such as new records, new species or new varieties, if keys to species are given, if locality data are included or descriptions, illustrations or distribution maps are given. Especially for the older publications, difficult to obtain and/or not well known by Turkish bryologists, this list may be a helpful addition as a stimulus for future work.

Inevitably some references will have been overlooked. This may be true especially for monographs and taxonomic revisions, which often include hidden locality or collection data from Turkey, but also for some publications published in private or only locally distributed journals. Nevertheless, we hope that the bibliography is more or less complete and adequate to enable a user to locate quickly such titles as seem appropriate to his or her requirements.

## A

ABAY G & B ÇETIN (2003) *Plagiothecium laetum* Bruch, SCHIMP. & GÜMBEL. – In: BLOCKEEL T L, G ABAY, B ÇETIN, H BEDNAREK-OCHYRA, R OCHYRA, R I LEWIS-SMITH, C M MATTERI, R M FARIAS, I NOVOTNY, P ROA, J ENROTH, J VAN ROOY, M M SCHIAVONE & J VANA (contributors): New national and regional bryophyte records, 7 – *Journal of Bryology* 25: 141-144.

[Reports erroneously *Plagiothecium laetum* as a new record from the Black Sea area (Rize-Artvin). This species was already recorded by Müller (1998)].

ABAY G & B ÇETIN (2003) The moss flora (Musci) of Ilgaz Mountain National Park. – *Turkish Journal of Botany* 27: 321-332.

[Reports 109 taxa from the Ilgaz Mountain National Park (Vilayet Kastamonu), together with locality data. 15 taxa are new records for the A2 grid square].

ABRAMOVA A L & I I ABRAMOV (1979) Materialky k flore mkhov Turtsii – Materies ad bryofloram Turciae. – *Novosti Sistematiiki Nizshikh Rastenij* (Leningrad) 16: 161-163. (In Russian).

[A report on the collections made in 1916 by S. Y. Turkevich in the Trabzon area.; 14 hepatics and 60 mosses are reported].

ACAR O & A YAYINTAŞ (1994) Die Moosflora von Dumanlı Dag (Izmir). – *Journal of the Faculty of Science, Ege University* 16: 16-23.

[Reports 41 species and locality data from the area with some illustrations].

ANDO H (1976) Studies on the genus *Hypnum* Hedw. (III). – *Journal of Science of the Hiroshima University Series B, Division 2 (Botany)* 16: 1-46.

[Cited *Hypnum vaucheri* forma *vaucheri* from Afghanistan, Iran, and Turkey].

ANDO H (1989) Studies on the genus *Hypnum* Hedw. (VI). – *Hikobia* 10: 269-291.

[Cited *Hypnum cupressiforme* var. *cupressiforme* from Iran, Turkey, and Yemen, and var. *lacunosum* from Turkey].

ANDO H (1992) Studies on the genus *Hypnum* Hedw. (VIII). – *Hikobia* 11: 111-123.

[Cited *Hypnum cupressiforme* var. *filiforme* from Turkey].

AYAŞLIGİL Y (1987) Der Köprülü Kanyon Nationalpark. Seine Vegetation und ihre Beeinflussung durch den Menschen. – *Landschaftsökologie Weihenstephan Band 5*: 1-309.

[Phytosociological study of the vegetation of the Köprülü Kanyon National Park (Antalya province); includes 11 mosses (*Fissidens taxifolius*, *Grimmia pulvinata*, *G. trichophylla*, *Homalothecium sericeum*, *Leptodon smithii*, *Pterogonium gracile*, *Schistidium apocarpum*, *Scorpiurium circinatum*, *Tortella tortuosa*, *Tortula inermis*, *T. ruralis*) and 2 hepatics (*Plagiochasma rupestre*, *Targionia hypophylla*) in appendix 3].

AYDIN Ş & T KESERCİOĞLU (2001) Chromosome studies on some Turkish species of *Grimmia* Hedw., *G. laevigata* (Brid.) Brid., *G. ovalis* (Hedw.) Lindb., *G. pulvinata* (Hedw.) Sm., *G. trichophylla* Grev. – *Cryptogamie, Bryologie* 22: 175-177.

[Reports the mitotic chromosome numbers of 4 Turkish species of *Grimmia*, including locality data].

AYDIN Ş & T KESERCİOĞLU (2003) Mitotic chromosome studies on *Tortula muralis*, *Syntrichia intermedia*, *S. princeps* and *S. ruraliformis* from Turkey. – *Lindbergia* 28: 45-47.

[Reports the mitotic chromosome numbers of 4 Turkish species of *Tortula* and *Syntrichia*, including locality data].

## B

BARBEY W (1890) *Lydie, Lycie, Carie* 1842, 1883, 1887. *Etudes Botaniques*. – Lausanne, 82 p.

[Reports *Pterogonium gracile* collected by C. F. Forsyth-Major from Haghios Ilias (Samsun Dag)].

BAYDAR S & T ÖZDEMİR (1996) The mosses (Musci) of Altındere Valley National Park. – *Turkish Journal of Botany* 20: 53-57. (In Turkish, with English summary).

[List of 40 mosses with collection data, based on the authors' collections, 4 being new to the A4 grid square].

BISCHLER H (1978) *Plagiochasma* Lehm. et Lindenb. II. Les taxa européens et africains. – *Revue bryologique et lichénologique* 44: 223-300.



- [Illustrated revision of *Plagiochasma* with key to the species, notes on the synonymy, description of the species and notes on the systematic affinities, ecology and distribution; includes collection data from Afghanistan, Oman, Turkey and Yemen, and distribution maps].
- BISCHLER H (1979) *Plagiochasma* Lehm. et Lindenb. III. Les taxa d'Asie et d'Océanie. – Journal of the Hattori Botanical Laboratory 45: 25-79.
- [Illustrated revision of *Plagiochasma* with key to the species, notes on the synonymy, description of the species and notes on the systematic affinities, ecology and distribution; includes collection data from Afghanistan, Iran, Oman, Turkey and Yemen, and distribution maps].
- BISCHLER H & S JOVET-AST (1986) The hepatic flora of South-West Asia: a survey. Proceedings of the Royal Society of Edinburgh 89 B: 229-241.
- [General account of the phytogeographical relationships, distribution patterns of some Marchantiales and habitat adaptations of the hepatic flora].
- BISCHLER-CAUSSE H (1989) *Marchantia* L. The Asiatic and Oceanic taxa. – Bryophytorum Bibliotheca 38: 1-317.
- [Taxonomic revision with keys to the species and subspecies, details of specimens, illustrations, notes on synonymy, phylogeny, habitat and distribution; includes *M. papillata* subsp. *grossibarba* from Afghanistan and country records for Afghanistan, Iran, Israel, Lebanon, Syria, Turkey, and Yemen].
- BLOM H H (1996) A revision of the *Schistidium apocarpum* complex in Norway and Sweden. – Bryophytorum Bibliotheca 49: 1-333.
- [Illustrated revision of the *Schistidium apocarpum* complex with key to the species, notes on the synonymy, description of species, ecology and distribution; includes collection data from Afghanistan, Egypt (Sinai), Iraq, Iran, and Turkey and distribution maps. *Schistidium crassi-pilum* sp. nov., *S. elegantulum* sp. nov., *S. papillosum*, and *S. pruinatum* are reported for the first time from Turkey, and *S. elegantulum* and *S. singarense* for the first time from Iran].
- BORNMÜLLER J (1908a) Florulae Lydiae. – Mitteilungen des Thüringischen Botanischen Vereins, Neue Folge 24: 1-140.
- [Hepaticae and Musci frondosi on pp. 136-137; list of 15 moss and 9 hepatic taxa (identified by V. Schiffner) with collection data; includes *Antitrichia breidleriana* sp. nov. (nom. nud.) and *Reboulia hemisphaerica* var. *microspora* var. nov. (nom. nud.); for description and validation cf. Schiffner (1908)].
- BORNMÜLLER J (1909) Ergebnisse einer im Juni des Jahres 1899 nach dem Sultan-dahg in Phrygien unternommenen Reise nebst einigen anderen Beiträgen zur Kenntnis der Flora dieser Landschaft Inner-Anatoliens. – Beihefte zum Botanischen Centralblatt, Abteilung 2, 24: 440-503.
- [Hepaticae and Musci on p. 499; list of 1 hepatic and 7 moss taxa (identified by V. Schiffner) with collection data (cf. also Schiffner, 1901)].
- BORNMÜLLER J (1931) Zur Bryophyten-Flora Kleinasiens. – Magyar Botanikai Lapok 30: 1-21.
- [Checklist of 123 moss and 22 hepatic taxa with collection data based on the author's collection and older data].
- BREMER B (1980) A taxonomic revision of *Schistidium* (Grimmiaceae, Bryophyta). – Lindbergia 6: 89-117.
- [Revision with key to the species, details of specimens, notes on taxonomy, habitat and distribution, including collection data from the Near and Middle East].
- BRULLO S, R LO GIUDICE & M PRIVITERA (1991a) Phytogeographical considerations on the psammophilous mosses from Mediterranean area. – Botanika Chronika 10: 873-887.
- [Phytosociological study of bryophyte communities occurring on sandy soils (coastal dunes); includes relevés from Israel (Erez), southern Turkey (Manavgat), and north-western Turkey (Çanakkale, Karabiga)].
- C
- CANO M J, J GUERRA & R M ROS (1993) A revision of the moss genus *Crossidium* (Pottiaceae) with the description of the new genus *Microcrossidium*. – Plant Systematics and Evolution 188: 213-235.
- [A worldwide revision with key to the species, details of specimens, illustrations, notes on synonymy, phylogeny, habitat and distribution].
- CRUNDWELL A C, H J DURING & B P KOUTSTAAL (1978) *Tortula grandiretis* Broth. in the Netherlands and in Turkey. – Lindbergia 4: 255-257.
- [Description of the species with notes on the floristic affinities and ecology, including one find from Turkey (SW Turkey, Egirdir area)].
- CRUNDWELL A C & E NYHOLM (1977) *Dicranella howei* Ren. & Card. and its relationships to *D. varia* (Hedw.) Schimp. – Lindbergia 4: 35-38.
- [Treatment of the systematic affinities of the 2 taxa, including collection data from Afghanistan, Iran, and Turkey].
- CRUNDWELL A C & E NYHOLM (1974) *Funaria muhlenbergii* and related European species. – Lindbergia 2: 222-229.
- [A taxonomical treatment of 3 *Funaria* species with collection data from Turkey and other European countries].
- CRUNDWELL A C & E NYHOLM (1979) Some additions to the bryophyte flora of Turkey. I. Hepaticae. – Journal of Bryology 10: 479-489.
- [List of 1 anthocerotite and 60 hepatic taxa with collection data, based on the authors' collections; includes 20 hepatics new to the bryoflora of Turkey].
- CZECZOTT H (1939) A contribution to the knowledge of the flora and vegetation of Turkey. – Feddes Repertorium, Beiheft 107: 1-281.
- [Musci on pp. 267-271; list of 22 mosses with collection data (mainly identified by J. Thériot), 4 being new to Turkey].



- ÇETİN B & E YURDAKULOL (1985) The moss (Musci) flora of Gereede-Aktaş (Bolu) forest. – Doğa Bilim Dergisi Seri A 2, 9: 29-39. (In Turkish, with English summary).  
[List of 133 species with collection data based on the authors' collections, 38 being new for the A 2 grid square].
- ÇETİN B & E YURDAKULOL (1986) The liverworts (Hepaticae) of Bolu district (Gereede-Aktaş forest - Yedigöller National Park). – Doğa, Türk Biyoloji Dergisi Seri C 10: 53-56. (In Turkish, with English summary).  
[List of 12 species with collection data based on the authors' collections, 2 being new to Turkey]. (In Turkish, with English summary).
- ÇETİN B (1988a) Checklist of mosses of Turkey. – Lindbergia 14: 15-23.  
[Checklist of 654 taxa (73 new to Turkey) based on the literature and an examination of herbarium specimens; includes a useful literature list].
- ÇETİN B (1988b) Checklist of the liverworts and hornworts of Turkey. – Lindbergia 14: 12-14.  
[Checklist of 145 taxa based on the literature and an examination of herbarium specimens; includes a useful literature list].
- ÇETİN B (1988c) *Cinclidotus nyholmiae*, a new species from Köprülü Canyon National Park (Antalya) in Turkey. – Journal of Bryology 15: 269-273.  
[Includes description, illustrations and collection data of the new species].
- ÇETİN B (1988d) Some mosses (Musci) of Dilek Peninsula National Park. – Doğa, Türk Botanik Dergisi Seri C 12: 207-214. (In Turkish, with English summary).  
[List of 29 mosses with collection data, based on the author's collections; includes 2 illustrated new records (*Fissidens adianthoides*, *Encalypta rhabdocarpa* var. *leptodon*) for Turkey].
- ÇETİN B & E YURDAKULOL (1988) The moss flora of Yedigöller National Park. – Doğa, Türk Botanik Dergisi Seri C 12: 128-146. (In Turkish, with English summary).  
[Key to 88 mosses from the area based on collections of the authors', 12 being new for the A 2 grid square and 1, *Fissidens monguillonii*, new to Turkey].
- ÇETİN B (1989a) A new moss (Musci) record for Turkey. – Doğa, Türk Botanik Dergisi Seri C 13: 139-142. (In Turkish, with English summary).  
[Erroneously reports *Cinclidotus fontinaloides* as new to Turkey (cf. Tchihatcheff, 1860)].
- ÇETİN B (1989b) A new moss (Musci) record for Turkey. – Doğa, Türk Botanik Dergisi Seri C 13: 143-146. (In Turkish, with English summary).  
[Reports *Plagiothecium cavifolium* from Bolu area (A2 grid square) together with collection data and an illustration].
- ÇETİN B (1989c) A new moss (Musci) record for Turkey. *Fontinalis antipyretica* ssp. *antipyretica* var. *gracilis* (Lindb.) Schimp. – Doğa, Türk Botanik Dergisi Seri C 13: 452-455. (In Turkish, with English summary).  
[Includes collection data and an illustration].
- ÇETİN B (1989d) *Pohlia wahlenbergii* (Web. & Mohr) Andrews var. *calcareea* (Warnst.) Warburg, a new moss (Musci) record for Turkey. – Doğa, Türk Botanik Dergisi Seri C 13: 147-150. (In Turkish, with English summary).  
[Includes collection data and an illustration].
- ÇETİN B (1989e) *Porella pinnata* L., a new liverwort (Hepaticae) recorded from Turkey. – Doğa, Türk Botanik Dergisi Seri C 13: 134-138. (In Turkish, with English summary).  
[Includes collection data and an illustration].
- ÇETİN B (1989f) Some mosses (Musci) of Antalya district [Köprülü Canyon National Park, Güllükdağı (Termessos) National Park and Kurşunlu waterfalls]. – Doğa, Türk Botanik Dergisi Seri C 13: 456-469. (In Turkish, with English summary).  
[Key to 90 mosses from Antalya area, 55 being new to the C12 grid square].
- ÇETİN B (1989g) The liverworts (Hepaticae) of Antalya district (Kurşunlu waterfalls - Köprülü Canyon National Park). – Doğa, Türk Botanik Dergisi Seri C 13: 151-156. (In Turkish, with English summary).  
[List of 15 species with collection data based on the author's collection, 10 being new to the C 12 grid square, and 1, *Marchantia paleacea*, new to Turkey].
- ÇETİN B (1990) A new record for the moss flora of Turkey. – Turkish Journal of Botany 14: 160-162.  
[Reports *Fissidens serrulatus* from Artvin district (A4 grid square) together with collection data].
- ÇETİN B (1991) *Hygrohypnum duriusculum* (De Not.) Jamieson: a new record for the moss flora of Turkey. – Lindbergia 17: 3-4.  
[Includes collection data and ecological notes].
- ÇETİN B (1993) An investigation of the Köyceğiz-Dalyan specially protected area as regards to bryophyte flora. – Turkish Journal of Botany 17: 255-261.  
[List of 74 species (65 moss, 8 hepatic and 1 hornwort taxa) from the area, with keys to genera and species, and notes on habitat].
- ÇETİN B & N BAKAR (1997) *Ptilium crista-castrensis* (Hedw.) De Not., a new record for the moss flora of Turkey. – Lindbergia 22: 143-144.  
[Includes collection data and an illustration].
- ÇETİN B & G UYAR (1997a) The moss flora of Sinop and its environs (Ayancık, Boyabat and Gerze). – Turkish Journal of Botany 21: 231-244.  
[Reports 112 taxa (Musci) from the Black Sea area including collection data and keys, 54 being new to the A3 grid square].
- ÇETİN B & G UYAR (1997b) *Campylium polygamum* (B., S. & G.) J. Lange & C. Jens., a new record for the moss flora of Turkey. – Lindbergia 22: 43.

[Reports *Campylium polygamum* from the Sinop-Ayancik area, together with collection data and an illustration].

- ÇETIN B (1999a) The liverworts (Hepaticae) of Sinop and its environs (Ayancik, Boyabat and Gerze). – Turkish Journal of Botany **23**: 113-116.

[List of 19 species with collection data based on the author's collections, 8 being new to the A 3 grid square. *Blaisia pusilla* is reported for the second time from Turkey].

- ÇETIN B (1999b) The moss flora of the Uludağ National Park (Bursa/Turkey). – Turkish Journal of Botany **23**: 187-193.

[List of 85 taxa with collection data based on the author's collection; *Polytrichum commune* var. *perigoniale* is reported for the first time from Turkey].

- ÇETIN B (1999c) The Liverworts of Uludağ National Park (Bursa). – Turkish Journal of Botany **23**: 277-280.

[List of 23 taxa with collection data based on the author's collection; 4 being new to the A 1 grid square].

- ÇETIN B (1999d) *Barbula glauca* (Ryan) Müll., a new record for the moss flora of Turkey. – Turkish Journal of Botany **23**: 69-70.

[Reports *B. glauca*, which was reported already by Walther (1979) as *B. rigidula* var. *glauca* erroneously as a new record for Turkey].

- ÇETIN B & G UYAR (1999a) *Bryum curvatum* Kaur. & H. Arn., a new record for the moss flora of Turkey. – Journal of Bryology **21**: 76-77.

[Includes collection data (Kızılcahama Soğuksu National Park) and an illustration].

- ÇETIN B & G UYAR (1999b) *Lescurea radicata* (Mitt.) Mönk. and *L. radicata* var. *denudata* (Kindb.) Lawton newly found in Turkey. – Lindbergia **24**: 75-76.

[Reports 2 taxa, new to the bryophyte flora of Turkey. Includes collection data and illustrations].

## D

- DELGADILLO C M (1975) Taxonomic revision of *Aloina*, *Aloinella* and *Crossidium* (Musci). – The Bryologist **78**: 245-303.

[Worldwide treatment of *Aloina*, *Aloinella* and *Crossidium* with key to the species, descriptions and illustrations, notes on taxonomy, phylogeny, habitat and distribution; includes locality data from Israel, Jordan, Lebanon, Sinai, Syria and Turkey].

- DÜLL R (1985) Distribution of European and Macaronesian mosses (Bryophytina), part II. – Bryologische Beiträge **5**: 110-232.

[Reports *Leucodon flagellaris* Broth. from Turkey, without locality data].

- DÜLL R (1996) The current state of bryophyte investigation in the Mediterranean area. – Bocccone **5**: 271-278.

[General and rather incomplete account on the floristic knowledge of the northern Mediterranean area, including Turkey. Curiously, this work did not take notice of any literature on Southwest Asia (including Turkey) or recently published papers on Turkish

bryophytes. Israel, Lebanon and Syria are excluded from the investigation].

## E

- ERDAĞ A & A YAYINTAŞ (1999) A contribution to the moss flora of western Turkey: Moss flora of the Kaz Mountain (Balıkesir, Turkey). – Turkish Journal of Botany **23**: 117-125.

[List of 139 species with collection data based on the senior author's collections, 12 being new to the B6 grid square, and 1, *Brachythecium latifolium*, new to Turkey].

- ERDAĞ A (2000) Moss records from northeast of Turkey. – Journal of the Faculty of Sciences, Ege University **23**: 103-110.

[List of 61 taxa in tabular form, 7 taxa being new to the A4 grid square, with locality data].

- ERDAĞ A & H KÜRSCHNER (2000) *Orthotrichum sprucei* Mont. (Orthotrichaceae, Musci), new to the moss flora of Turkey. – Nova Hedwigia **71**: 145-150.

[Reports this hygrophytic species, previously known only from the British Isles and western Europe, for West Anatolia].

- ERDAĞ A (2001) A contribution to the bryophyte flora of western Turkey: the bryophyte flora of Madran Mountain and the Çine Valley (Aydın, Turkey). – Turkish Journal of Botany **25**: 31-42 (2001).

[List of 133 species with collection data based on the author's collections, 35 being new to the C 11 grid square].

- ERDAĞ A, H KÜRSCHNER & G PAROLLY (2001) Three new records to the bryophyte flora of Turkey. – Nova Hedwigia **73**: 239-246.

[One species, *Grimmia capillata* De Not., and 2 varieties, *Pohlia nutans* (Hedw.) Lindb. var. *bicolor* (Hoppe & Hornsch.) Hult., and *Stegonia latifolia* (Schwaegr.) Vent. ex Broth. var. *pilifera* (Brid.) Broth., are added to the bryophyte flora of Turkey].

- ERDAĞ A (2002) A note on *Cheilothea chloropus* (Brid.) Lindb. (Ditrichaceae, Musci) in Turkey. – Turkish Journal of Botany **26**: 119-123.

[Reports, for the first time, fruiting specimens of *Cheilothea chloropus* from Turkey. Includes locality data, description and illustrations].

- ERDAĞ A & H KÜRSCHNER (2002) *Orthotrichum rivulare* Turn. (Orthotrichaceae, Bryopsida), a hygrophytic species new to the bryophyte flora of Turkey and Southwest Asia. With a key to the Turkish *Orthotrichum* species. – Nova Hedwigia **74**: 251-256.

[Reports this hygrophytic species, previously not known from South-west Asia. In addition, a key to the hitherto known 27 *Orthotrichum* species from Turkey is presented].

- ERDAĞ A (2003) *Syntrichia papillosa* (Wilson) Jur. (Pottiaceae, Bryopsida), an epiphytic species new to the bryophyte flora of Turkey. – Cryptogamie, Bryologie **24**: 167-171.

[Reports, for the first time, *Syntrichia papillosa* from Turkey (Vilayet Trabzon, Tonya county). Includes locality data, description and illustrations].

- ERDAĞ A & M KIRMACI (2003) Bryology in Turkey. – *Bryological Times* 111: 5-7.  
[Reports briefly the current state of knowledge in Turkish bryology].
- ERDAĞ A, M KIRMACI & H KÜRSCHNER (2003) The *Hedwigia ciliata* (Hedw.) Ehrh. ex P. Beauv. complex in Turkey, with a new record, *H. ciliata* var. *leucophaea* Bruch & Schimp. (Hedwigiaceae, Bryopsida). – *Turkish Journal of Botany* 27: 349-365.  
[The *Hedwigia ciliata* complex (*H. ciliata* var. *ciliata*, *H. ciliata* var. *leucophaea*, *H. stellata*) is revised, including a key to the species, descriptions, illustrations, locality data and the distribution in Turkey].
- ERDAĞ B, M KIRMACI, Y EMEK & A ERDAĞ (2003) A note on spore production and in vitro spore germination capacities of *Cheilothela chloropus* (Brid.) Lindb., *Funaria convexa* Spruce and *Pleuridium acuminatum* Lindb. (Bryopsida). – *Bulletin of Pure and Applied Sciences (India)*, 21B: 149-153.  
[The first report on spore production and in vitro germination capacity of 3 Turkish mosses].
- EVEREST A, B ÇETİN & D AYAS (1998) The determination of bryophytes in Kahramanmaraş-Andırın. – *Mersin Üniversitesi Mühendislik ve Fen Bilimleri Dergisi* 1998: 105-109. (in Turkish)  
[List of 17 species].
- EVEREST A & L ELLIS (1999) A contribution to the bryophyte flora of southern Turkey. – *Cryptogamie, Bryologie* 20: 43-48.  
[List of 3 hepatics and 29 mosses from the Mersin-Çamliyayla and Amanos area, with collection data].
- EVEREST A & L ELLIS (2003) A contribution to the moss flora of the Taurus Mountains, southern Turkey. – *Cryptogamie, Bryologie* 24: 33-42.  
[List of 69 mosses from the Bolkar Dağları (Anamur to Kozan area), with collection data].
- F
- FREY W & H KÜRSCHNER (1981) The bryological literature of southwest Asia. – *Journal of the Hattori Botanical Laboratory* 50: 217-229.  
[Reviews the state of bryofloristic knowledge of the Near and Middle East, including Turkey; extensive literature list].
- FREY, W, R GROLLE & H KÜRSCHNER (1991) Taxonomie und Verbreitung von *Asterella* P. Beauv. (Hepaticae, Marchantiidae) im Vorderen Orient. Studien an arabischen Bryophyten 16. – *Nova Hedwigia* 52: 305-318.  
[Floristic treatment of *Asterella* with key to the 3 species, detailed descriptions, illustrations and notes on taxonomy and distribution; *A. elegans*, previously reported erroneously from Turkey, is deleted from the flora].
- FREY W & H KÜRSCHNER (1991) Conspectus Bryophytorum Orientalum et Arabicorum. An annotated catalogue of the bryophytes of Southwest Asia. – *Bryophytorum Bibliotheca* 39: 1-181.  
[First attempt at a complete check-list of the bryophytes from the Near and Middle East (Afghanistan, Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates and Yemen, including Cyprus and Sinai) with notes on taxonomy; 4 anthocerotae, 210 hepatic and 922 moss taxa are reported; extensive literature list].
- FRIEDEL K (1899) Beitrag zur Flora von Constantinopel. Bearbeitung der von J. Nemetz in den Jahren 1894-1897 in den Umgebungen von Constantinopel gesammelten Pflanzen. I. Kryptogamen. – *Denkschriften der Kaiserlichen Akademie der Wissenschaften Wien, Mathematisch-naturwissenschaftliche Klasse, Abteilung 2*, 68: 219-250.  
[Hepaticae on pp. 243-244, Musci on pp. 245-246; list of 7 hepatic (identified by F. Matouschek, V. Schiffner) and 19 moss taxa (identified by F. Matouschek) with collection data].
- FROELICH J (1959) Bryophyten aus Vorderasien. – *Annalen des Naturhistorischen Museums in Wien* 63: 31-32.  
[List of 3 hepatic and 40 moss taxa with collection data (collected by K. H. Rechinger in Iraq and Turkey); includes the descriptions of *Barbula rigidula* var. *desertorum* var. nov. and *Polytrichum alpinum* var. *pyriforme* var. nov.].
- G
- GALLEGO M T, M J CANO, R M ROS & J GUERRA (1999) The genus *Aloina* (Pottiaceae, Musci) in the Mediterranean region and neighbouring areas. – *Nova Hedwigia* 69: 173-194.  
[Illustrated revision of *Aloina* with key to the species, description of the species and notes on the synonymy and distribution; includes collection data from Israel, Jordan, Lebanon, Oman, Saudi Arabia, Turkey, and Yemen].
- GALLEGO M T, J GUERRA M J CANO, R M ROS & M C SANCHEZ-MOYA (2000) The status and distribution of *Syntrichia virescens* var. *minor* (Pottiaceae, Musci). – *The Bryologist* 103: 375-378.  
[*Syntrichia virescens* (De Not.) Ochyra var. *minor* (Bizot) Ochyra, Syn.: *Tortula virescens* (De Not.) De Not. subsp. *bizotii* (Laz.) W. Kramer, is proposed at the rank of a species, *S. minor* (Bizot) Gallego et al. The species is described, lectotypified and illustrated].
- GALLEGO M T, M J CANO, R M ROS & J GUERRA (2002a) New taxonomic data on a Circum-Tethyan group of *Syntrichia* (Pottiaceae, Bryophyta): the *S. caninervis* complex. – *Systematic Botany* 27: 643-653.  
[The *Syntrichia caninervis* complex is revised and an identification key is presented. *S. pseudodesertorum* is included as a synonym of *S. caninervis* var. *caninervis*, *S. pseudohandelii* is reduced to the rank of a variety as *S. caninervis* var. *pseudohandelii*. Includes SEM photos of the diagnostic characters and distributional remarks (Afghanistan, Iran, Iraq, Jordan, Syria, Turkey)].
- GALLEGO M T, M J CANO, R M ROS & J GUERRA (2002b) An overview of *Syntrichia ruralis* complex (Pottiaceae: Musci) in the Mediterranean region and neighbouring areas. – *Botanical Journal of the Linnean Society* 138: 209-224.

- [The *Syntrichia ruralis* complex is revised and an identification key is presented. *S. subpapillosissima* is elevated to the rank of species, *S. ruralis* var. *submamillosa* is regarded as synonymous with *S. subpapillosissima*. *Tortula densa* is included in the variability shown by *S. calcicola*. *S. ruralis* var. *substereidosa* is included in the synonymy of *S. virescens*. Includes SEM photos of the diagnostic characters and distributional remarks (Iran, Iraq, Turkey)].
- GALLEGO MORALES M T (2002) Revisión taxonómica del género *Syntrichia* Brid. (Pottiaceae, Musci) en el área circun mediterránea y Macaronesia. – PhD thesis, Universidad de Murcia, 293 pp.
- [Examination of the genus *Syntrichia* in the circum-Mediterranean area and Macaronesia, including descriptions and illustrations. 23 taxa are recognised. Nomenclatural novelties proposed are *S. caninervis* var. *pseudodesertorum* and *S. subpapillosissima*].
- GÖKLER İ, H INOUE & M ÖZTÜRK (1983/1984) A new record for Turkey, *Pellia neesiana* (Gott.) Limpr. – Ege University Journal of Science Faculty, Series B 7: 85-89 (publ. April 1984).
- [Reports a new record with description and collection data].
- GÖKLER İ, M ÖZTÜRK & T KESERCİOĞLU (1985/1986) Checklist of liverworts (Hepaticae) recorded from Turkey. – Ege University Journal of Faculty of Science, Series B 8: 1-10 (publ. April 1985).
- [Checklist of 143 taxa based mainly on older literature, showing the distribution within the country on a grid basis (Turkish grid square system introduced by Davis, 1965)].
- GÖKLER İ (1986) Taxonomical investigations on some liverworts (Hepaticae) distributed in Turkey. II. Marchantiales and Anthocerotales. – Doğa, Türk Biyoloji Dergisi Seri C 10: 353-361. (In Turkish, with English summary).
- [Morphological and anatomical study of 5 common Marchantiidae (*Conocephalum conicum*, *Lunularia cruciata*, *Marchantia polymorpha*, *Plagiochasma rupestre*, *Targionia hypophylla*) and *Anthoceros punctatus*].
- GÖKLER İ & M ÖZTÜRK (1986) Taxonomical investigations on some liverworts (Hepaticae) distributed in Turkey. 1. Jungermanniales Anacrogynae and J. Acrogynae. – Doğa, Türk Biyoloji Dergisi Seri C 10: 163-170. (In Turkish, with English summary).
- [Morphological and anatomical study of 7 Jungermanniidae (*Fossombronia pusilla*, *Frullania dilatata*, *Lophocolea cuspidata*, *Metzgeria furcata*, *Pellia endiviifolia*, *Porella cordeana*, *P. platyphylla*) and distributional notes].
- GÖKLER İ & M ÖZTÜRK (1987a) A new record for Turkey, *Porella thuja* (Dicks.) C. Jens. – Doğa, Turkish Journal of Botany 11: 313-315.
- [Reports a new record with description, illustration, collection data and worldwide distribution].
- GÖKLER İ & M ÖZTÜRK (1987b) New concepts concerning the methods used in the identification of liverworts (Hepaticae). – Doğa, Türk Botanik Dergisi Seri C 11: 306-312. (In Turkish, with English summary).
- [General account on the available methods used in bryophyte taxonomy].
- GÖKLER İ (1989) A new record for the hepatic flora of Turkey. *Lejeunea lamacerina* (Steph.) Schiffn. – Doğa, Türk Botanik Dergisi Seri C 13: 470-473. (In Turkish, with English summary).
- [Reports a new record with illustrations, description and locality data].
- GÖKLER İ & M ÖZTÜRK (1989) An investigation on the liverworts (Hepaticae) of Black Sea region. – Doğa, Türk Botanik Dergisi Seri C 13: 242-248.
- [List of 27 hepatic taxa based on the authors' collections with collection data; *Bazzania trilobata* is reported for the first time from Turkey].
- GÖKLER İ & M ÖZTÜRK (1991) Liverworts of Turkey and their position in South-West Asia. – Candollea 46: 359-366.
- [Checklist of 145 taxa based mainly on older literature, showing the distribution within the country on a grid basis (Turkish grid square system introduced by Davis, 1965); includes remarks on the phytogeographical relationships and a new record, *Asterella lindenbergiana*, which is only a *Corsinia coriandrina* (cf. Kürschner, 1996)].
- GÖKLER İ (1992) An investigation on the liverworts of West Anatolia. – Doğa, Turkish Journal of Botany 16: 1-8. (In Turkish, with English summary).
- [Reports 2 anthocerotite and 34 hepatic taxa with collection data based on the author's collections, 4 being new to the C11 grid square and 7 new to the western part of Turkey (Aegean region)].
- GÖKLER İ & M ÖZTÜRK (1992) Liverworts (Marchantiopsida) from the Artvin province (A4, A5). - XI. Ulusal Biyoloji Kongresi, 24-27 Haziran 1992, Elazığ, pp. 185-194. (In Turkish).
- [Reports 16 liverwort taxa with locality data].
- GÖKLER İ (1993a) A taxonomical investigation of the liverworts of the Aegean region. – Dokuz Eylül Üniversitesi Yayınları İzmir 6: 33-44. (In Turkish, with English summary).
- [Reports 7 hepatic taxa with descriptions and locality data].
- GÖKLER İ (1993b) Studies on the taxonomy and ecology of some western Anatolian liverworts. – Eğitim Bilimleri Dergisi, Buca Eğitim Fakültesi Yayın Organı, İzmir 2: 79-85. (In Turkish, with English summary).
- [Reports 6 hepatic taxa with descriptions, ecological notes, locality data and worldwide distribution].
- GÖKLER İ & M ÖZTÜRK (1994a) Liverworts (Marchantiopsida) from the İstanbul province (A1). – XII. Ulusal Biyoloji Kongresi, 6-8 Temmuz 1994, Edirne, pp. 174-178. (In Turkish).
- [Reports 15 hepatic taxa with locality data].
- GÖKLER İ & M ÖZTÜRK (1994b) Studies on the taxonomy and ecology of liverworts of the Kütahya province. – Ege Üniversitesi Fen Fakültesi Dergisi Seri B 16: 1525-1529. (In Turkish, with English summary).
- [Reports 9 hepatic taxa with collection data and some notes to the ecology].



- GÖKLER İ (1996) Studies on the liverwort flora of North Anatolia and Caucasus regions. – In: ÖZTÜRK, M. A., Ö. SEÇMEN & G. GÖRK (eds.): Plant Life in Southwest and Central Asia, pp. 479-486. – Ege University Press, İzmir.
- [Reports 91 taxa from North Anatolia and 146 taxa from the Caucasus region in form of a check-list. 71 taxa are common to both areas, whereas 2 species, *Jungermannia lignicola* and *J. subtilissima* are restricted to North Anatolia being obviously endemic].
- GÖKLER İ & M ÖZTÜRK (1996) Liverworts of Turkish Thrace. – *Bocconea* **5**: 319-323.
- [Reports 12 hepatic taxa from Turkish Thrace, 8 of which are reported for the first time, with locality data].
- GÖKLER İ (1998) Liverworts (Marchantiopsida) of the Altındere Valley National Park. – *Turkish Journal of Botany* **22**: 409-412.
- [Reports 33 liverworts from the Maçka surroundings (including Sumela Meryemana Monastery) based on the author's collections].
- GÖKLER İ & V AYSEL (1998) A new aquatic liverwort for the Flora of Turkey. – *Turkish Journal of Botany* **22**: 355-357.
- [Reports *Riccia fluitans* from western Turkey (Selçuk area) together with a description and collection data].
- GÖKLER İ & H ÖZENOĞLU (1999a) Taxonomy and ecology of liverworts of Kazdağı national park and its environs. – *Çevre-Koruma Dergisi*, **8**: 22-26. (in Turkish)
- [Reports 22 taxa and locality data, 5 taxa being new to the B6 grid square]
- GÖKLER İ & H ÖZENOĞLU (1999b) Liverworts (Marchantiopsida) of Bilecik city. – 1. International Symposium on Protection of Natural Environment and Ehlrami Karaçam, p. 239-245. (In Turkish)
- [Reports 22 taxa from Bilecik province].
- GÖKLER İ (2000) Bryophyta. In: GÜNER, A., N. ÖZHATAY, T. EKİM & K. H. C. BASER (eds.): Flora of Turkey and the East Aegean Islands Vol. 11, p. 396-399. – Edinburgh University Press, Edinburgh.
- [A list of 59 references on Turkish bryophytes is given].
- GÖKLER İ, H ÖZENOĞLU & F KIREMIT (2000) A new liverwort for the Flora of Turkey. – *Turkish Journal of Botany* **24**: 81-83.
- [Reports *Riccia crozalsii* as new for the bryophyte flora of Turkey with collection data and illustrations].
- GREVEN H C (1995) *Grimmia* Hedw. (Grimmiaceae, Musci) in Europe. – Leiden, 160 p.
- [Illustrated revision of *Grimmia* (incl. *Coscinodon cribrosus*, *C. humilis*, *Hydrogrimmia mollis*) with key to the species, notes on synonymy, description of the species and notes on the systematic affinities, ecology and distribution. Includes collection data from Afghanistan, Iran, Israel, Jordan, Sinai, Syria, and Turkey and remarks on *G. lisae*, which was described by De Notaris (1837) from plants collected by D.Lisa in 'collibus Taurinensibus' (cited erroneously as Toroslar Dağları), and *G. nutans*, described by Bruch in Müller (1829, p. 390) from plants collected by M.Fleischer on rocks near Smyrna (İzmir)].
- GREVEN, H C (2003) *Grimmias* of the world. – Leiden, 247 p.
- [93 species and 360 valid and legitimate synonyms are reported. For each species, synonyms, descriptions, illustrations, geographical remarks and references are given. Includes a key to the *Grimmia* species of South-west Asia].
- H
- HANDEL-MAZZETTI H V (1905) Hepaticae. In: PENTHER, A. & E. ZEDERBAUER: Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias-Dagh, S. 387-388. – *Annalen des Naturhistorischen Museums in Wien* **20**: 359-464.
- [List of 1 anthocerate and 5 hepatic taxa with collection data].
- HANDEL-MAZZETTI H V (1909) Musci. In: HANDEL-MAZZETTI, H. v.: Ergebnisse einer botanischen Reise in das Pontische Randgebirge im Sandschak Trapezunt, unternommen im Jahre 1907, S. 124-132. – *Annalen des Naturhistorischen Museums in Wien* **23**: 6-212.
- [List of 138 mosses with collection data and details of localities, 14 being new to the flora].
- HATTORI S (1976) Studies on the Asiatic species of the genus *Porella* (Hepaticae). VI. – *Journal of the Hattori Botanical Laboratory* **40**: 121-138.
- [Descriptions and illustrations of Asiatic *Porella* species; includes *P. arboris-vitae*, new to Turkey with collection data].
- HENDERSON D M (1955-1958a) Contributions to the bryophyte flora of Turkey: II. – Notes from the Royal Botanic Garden Edinburgh **22**: 189-193 (publ. Sept. 1957).
- [List of 38 moss and 1 hepatic taxa with collection data and some taxonomic notes, based on the collections of P. H. Davis 1954 in south-eastern Turkey; adds 10 taxa to the known bryoflora].
- HENDERSON D M (1955-1958b) Contributions to the bryophyte flora of Turkey: III. – Notes from the Royal Botanic Garden Edinburgh **22**: 611-620 (publ. Dec. 1958).
- [List of 64 moss, 4 hepatic and 2 anthocerate taxa with collection data and some taxonomical notes, based on the collections of P. H. Davis & O. Polunin 1956 in western and south-western Turkey, and J. McNeill 1956 in central and south-eastern Turkey; 1 new species, *Grimmia cucullata* is described and illustrated].
- HENDERSON D M & C W MUIRHEAD (1955-1958a) Contributions to the bryophyte flora of Turkey. – Notes from the Royal Botanic Garden Edinburgh **22**: 29-43 (publ. Oct. 1955).
- [List of 109 moss and 20 hepatic taxa with collection data and some taxonomic notes, based on the collections of P. H. Davis 1949 in western Turkey, and P. H. Davis & J. Dodds 1952 in central and south-eastern Turkey and the Black Sea area; adds 42 moss and 10 hepatic taxa to the known bryoflora].
- HENDERSON D M & C W MUIRHEAD (1955-1958 b) Eastern Mediterranean bryophytes. – Notes from the Royal Botanic Garden Edinburgh **22**: 121-129 (publ. Oct. 1956).



- [List of 63 moss, 7 hepatic and 1 anthocerotale taxa with collection data, some taxonomic, and distribution data, based on the collections of P. H. Davis 1943 in Lebanon and Syria; includes an illustration of *Tortula papillosissima*].
- HENDERSON D M (1959-1961a) Contributions to the bryophyte flora of Turkey: IV. – Notes from the Royal Botanic Garden Edinburgh **23**: 263-278 (publ. June 1961).
- [List of 108 moss and 8 hepatic taxa with collection data, based on the extensive collections of P. H. Davis & I. C. Hedge 1957 and a few records of L. F. H. Merton 1958 from the vicinity of Ankara].
- HENDERSON D M (1959-1961b) Contributions to the bryophyte flora of Turkey: V. Summary of present knowledge. – Notes from the Royal Botanic Garden Edinburgh **23**: 279-301 (publ. June 1961).
- [Summarizes the present state of bryofloristic knowledge in tabular form, showing the distribution within the country on a grid basis (Turkish grid square system introduced by Davis, 1965); includes a short plantgeographical overview].
- HENDERSON D M & H T PRENTICE (1963) Bryophyta. – In: HEDGE, I. C. & P. WENDELBO: Studies in the flora of Afghanistan 1, pp. 29-31. – Årbok for Universitetet i Bergen. Mat.-Naturv.Serie **18**: 1-56.
- [List of 20 moss and 1 hepatic taxa with collection data, based on the collections of I. C. Hedge & P. Wendelbo].
- HENDERSON D M (1963-1964) Contributions to the bryophyte flora of Turkey: VI. – Notes from the Royal Botanic Garden Edinburgh **25**: 279-291 (publ. July 1964).
- [List of 103 moss and 15 hepatic taxa with collection data, based on the collections of D. M. Henderson & J. D. A. Stainton 1960 and a few records of L. F. H. Merton 1958 from the vicinity of Ankara].
- HENDERSON D M & H T PRENTICE (1969) Contributions to the bryophyte flora of Turkey: VIII. – Notes from the Royal Botanic Garden Edinburgh **29**: 235-262.
- [Check-list in tabular form of mosses, anthocerotales and hepatics, showing the distribution within the country on a grid square system; useful literature list].
- HOFMANN H (1997) A monograph of the genus *Palamocladium* (Brachytheciaceae, Musci). – *Lindbergia* **22**: 3-20.
- [Illustrated revision of *Palamocladium* with key to the species, notes on the synonymy, description of the species, ecology and distribution; includes collection data from Iran, Turkey (*P. euchloron*) and Yemen (Socotra, *P. leskeoides*) and distribution maps].
- HOFMANN H (1998): A monograph of the genus *Homalothecium* (Brachytheciaceae, Musci). – *Lindbergia* **23**: 119-159.
- [Illustrated revision of *Homalothecium* with key to the species, notes on the synonymy, description of the species, ecology and distribution; includes collection data in the appendix from Iran and Turkey].
- I
- IGNATOV M S (1995) On the identity of *Rhynchostegium haussknechtii* (Musci, Brachytheciaceae). – *Fragmenta Floristica et Geobotanica* **40**: 197-199.
- [*R. haussknechtii*, described from eastern Turkey and known only from the type collection appears to be identical to *Fontinalis antipyretica* var. *heldreichii*; with illustration of the lectotype].
- J
- JOVET-AST S (1957) *Riccia frostii* Aust. au Sahara et en Turquie. – *Revue bryologique et lichénologique* **26**: 67-68.
- [Adds a further locality of *R. frostii*, collected by H. de Lesse in the vicinity of Amasya, to Turkey].
- JOVET-AST S, H BISCHLER & R BAUDOIN (1976) Essai sur le peuplement hépaticologique de la région méditerranéenne. – *Journal of the Hattori Botanical Laboratory* **41**: 87-94.
- [Study on the ecological requirements of selected Mediterranean liverworts, with notes on ecology and distribution maps (covering Israel and Turkey)].
- JOVET-AST S (1986) Les *Riccia* de la région méditerranéenne. – *Cryptogamie, Bryologie et Lichénologie, Supplement* **3**: 287-431.
- [Floristic treatment of the genus *Riccia* in the Mediterranean area with key to the species, descriptions and illustrations and some general distribution remarks on Oman, Saudi Arabia, and Yemen].
- JURATZKA J & J MILDE (1870) Beitrag zur Moosflora des Orientes. Kleinasien, das westliche Persien und den Caucasus umfassend. *Verhandlungen der Zoologisch-botanischen Gesellschaft in Wien*. **20**: 589-602.
- [List of c. 150 moss taxa with collection data, based on the collections of C. Haussknecht 1865 and 1868; includes the descriptions of *Atrichum haussknechtii* sp. nov., *Barbula haussknechtii* sp. nov., *Brachythecium umbilicatum* sp. nov., *Bryum dalachanicum* sp. nov., *B. juratzkae* sp. nov., *Encalypta intermedia* sp. nov., *Entosthodon angustifolius* sp. nov., *Fissidens persicus* sp. nov., *Leucodon caucasicus* sp. nov., *Rhynchostegium haussknechtii* sp. nov. (cf. Ignatov, 1995), *Trichostomum mildeanum* sp. nov., and *T. persicum* sp. nov.].
- K
- KEÇELİ T & B ÇETİN (2000) The moss flora of Çankırı-Eldivan Mountain. – *Turkish Journal of Botany* **24**: 249-258.
- [List of 54 species with collection data based on the authors' collections, 15 being new to the A2 grid square].
- KESERCIOĞLU T & S SARUHAN (1996) Cytotaxonomical studies on some liverworts (Marchantiopsida) distributed in West Anatolia: *Lunularia cruciata* (L.) Dum., *Reboulia hemisphaerica* (L.) Raddi, *Conocephalum conicum* (L.) Underw., *Pellia epiphylla* (L.) Corda, *Pellia endiviifolia* (Dicks.) Dum., *Targionia hypophylla* L. – In: ÖZTÜRK, M. A., Ö. SEÇMEN & G. GÖRK (eds.): *Plant Life in Southwest and Central Asia*, pp. 487-499. – Ege University Press, İzmir.

[Cytotaxonomy and idiograms of chromosomes of 6 species are presented; includes collection data from West Anatolia]

KOPONEN T (1980) A synopsis of Mniaceae (Bryophyta). IV. Taxa in Europe, Macaronesia, NW Africa and the Near East. – *Anales Botanici Fennici* 17: 125-162.

[Floristic treatment of the Mniaceae (32 taxa) with key to the genera (*Cinclidium*, *Cyrtomnium*, *Mnium*, *Plagiomnium*, *Rhizomnium*, *Trachycystis*) and species, notes on synonymy and illustrations; includes collection data from Afghanistan, Iran, Iraq, Israel, Lebanon, Syria, and Turkey].

KOPONEN T (1982) Miscellaneous notes on Mniaceae (Bryophyta). XI. Distribution of *Plagiomnium rostratum*. – *Memoranda Societatis pro Fauna et Flora Fennica* 58: 17-20.

[Mapping of the total distribution of *P. rostratum*; includes collection data from Afghanistan, Iraq and Turkey].

KOPONEN T (1993) Miscellaneous notes on Mniaceae (Bryophyta). XVI. *Plagiomnium undulatum* (Hedw.) T. Kop. in Ethiopia. – *Bulletin du Jardin Botanique National de Belgique* 62: 397-402.

[Mapping of the distribution of *P. undulatum*; includes the area of the Near and Middle East].

KRAMER W (1978) Contribution to the taxonomy and distribution of several taxa of *Tortula* Hedw. sect. *Rurales* De Not. (Musci) with bistratose lamina. – *The Bryologist* 81: 378-385.

[Taxonomic treatment of *T. caninervis*, *T. handelii*, *T. handelii* var. *ferganensis* (comb. nov.) and *T. pseudo-handelii*; includes illustrations, notes on synonymy and collection data from Afghanistan, Iran, Lebanon, Syria, and Turkey; *T. desertorum*, *T. pseudo-desertorum*, and *T. saharae* are reduced to synonyms of *T. caninervis*, and *T. handelii* is reported as new to Iran, while *T. pseudo-handelii* is new to Iran and Turkey].

KRAMER W (1980) *Tortula* Hedw. sect. *Rurales* De Not. (Pottiaceae, Musci) in der östlichen Holarktis. – *Bryophytorum Bibliotheca* 21: 1-165.

[Systematic treatment of *Tortula* (*Syntrichia*) from the Near and Middle East, with key to the species, illustrations, descriptions, locality data (Afghanistan, Iran, Iraq, Israel, Jordan, Lebanon, Sinai, Syria, Turkey), and notes on taxonomy and distribution; includes several new names, statuses and new combinations, and the descriptions and illustrations of *Tortula ruralis* subsp. *hirsuta* var. *submamillosa* var. nov., *T. ruralis* subsp. *ruralis* var. *substereidosa* var. nov., and *T. virescens* var. *iranica* var. nov.].

KUCERA J (1998) *Gymnostomum lanceolatum* Cano, Ros & Guerra (Pottiaceae, Musci) also in Turkey and Croatia. – *Journal of Bryology* 20: 515-516.

[Includes collection data].

KÜRSCHNER H (1996) Towards a bryophyte flora of the Near and Middle East. New records from Iran, Jordan, Kuwait, Lebanon, Oman, Saudi Arabia, Syria, and Turkey. – *Nova Hedwigia* 63: 261-271.

[List of 31 new records with collection data for various countries of the Near and Middle East based on the author's collections and older collections (e.g., C. B. Arzeni from Lebanon, W. N. Koeltz,

L. F. H. Merton, and S. Agnew from Iran, O. Volk and S.-W. Breckle from Afghanistan); adds 15 taxa to the known flora of Iran, 3 to Jordan, 2 to Kuwait, 1 to Oman, 3 to Syria, and 3 to Turkey). Includes also the locality data of 39 previously reported taxa (cf. Frey & Kürschner, 1991) from Afghanistan, Iran, Jordan, Lebanon, Saudi Arabia, Syria, and Turkey].

KÜRSCHNER H (1997) An annotated, corrected, and updated list of the bryological literature of Southwest Asia. – *Cryptogamie, Bryologie et Lichénologie* 18: 1-46.

[A comprehensive and annotated list of 294 references on bryological literature of the Near and Middle East; includes a guide to national (Afghanistan, Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates, Yemen) and regional (e.g., Egypt/Sinai) literature and an index of collectors with reference to author(s) and date].

KÜRSCHNER H, Ö TONGUÇ & A YAYINTAŞ (1997) First record of *Hedwigia stellata* (Musci, Hedwigiaceae) from Turkey. – *Fragmenta Floristica et Geobotanica* 42: 586-588.

[Reports *H. stellata* from Muğla province, SW Turkey together with collection data, diagnostic characters, distribution map, and SEM photographs].

KÜRSCHNER H & G PAROLLY (1998) *Tortula brevissima* Schiffn., a new record for the moss flora of Turkey. – *Lindbergia* 23: 110-112.

[Includes description, collection data and an illustration].

KÜRSCHNER H, Ö TONGUÇ & A YAYINTAŞ (1998) Life strategies in epiphytic bryophyte communities of the southwest Anatolian *Liquidambar* forests. – *Nova Hedwigia* 66: 435-450.

[Phytosociological study (description of 2 communities) with detailed remarks on syntaxonomy, community structure, ecological conditions, habitat sites and distribution of the communities; includes a life-strategy analysis, demonstrating the strong correlation of life-forms, life-strategies and adaptations to the ecological conditions].

KÜRSCHNER H (1999a) Life strategies of epiphytic bryophytes in Mediterranean *Pinus* woodlands and *Platanus orientalis* alluvial forests of Turkey. – *Cryptogamie, Bryologie* 20: 17-33.

[Phytosociological study (description of two communities) with detailed remarks on syntaxonomy, community structure, ecological conditions, habitat sites and distribution of the communities; includes a life-strategy analysis, demonstrating the strong correlation of life-forms, life-strategies and adaptations to the ecological conditions].

KÜRSCHNER H & G PAROLLY (1999a) Syntaxonomy, synecology and life strategies of selected saxicolous bryophyte communities of West Anatolia and a first syntaxonomic conspectus for Turkey. – *Nova Hedwigia* 68: 365-391.

[Phytosociological and life-strategical study of epilithic bryophyte communities of western Turkey (Beşparmak Dağları/Bafa Gölü) with notes on community structure, ecological conditions, habitat sites, distribution, life-form and life-strategy spectra; includes a syntaxonomic conspectus of the presently known bryophyte communities and their higher ranked syntaxa for Turkey].

KÜRSCHNER H & G PAROLLY (1999b) The Epipterygio-Ricciatum frostii ass. nov.: ecology and life strategies of an ephemeral bryophyte community in western Turkey. – *Lindbergia* **24**: 84-92.

[Phytosociological and life-strategical study of an ephemeral bryophyte community, characteristic of the acid, sandy stream and cutbanks along brooks and rivers left exposed after the winter floods. Includes notes on the community structure, ecology, life-forms and life strategies, as well as distribution maps of the characteristic species].

KÜRSCHNER H & G PAROLLY (1999c) On the occurrence of *Grimmia reflexidens* (Musci, Grimmiaceae) in Turkey. – *Fragmenta Floristica et Geobotanica* **44**: 287-290.

[*G. reflexidens*, a largely neglected boreal-alpine taxon is reported for the second time from Turkey; includes collection data, illustrations and ecological notes].

KÜRSCHNER H & G PAROLLY (1999d) On the occurrence of *Isoetes histrix* in the Menderes Massif of western Turkey – a synecological study and the first record of an Isoetion community for Turkey. – *Botanische Jahrbücher für Systematik* **121**: 423-451.

[A phytosociological study of an Isoetion community including some bryophyte species such as *Bartramia stricta*, *Bryum alpinum*, *Cheilothela chloropus*, *Corsinia coriandrina*, *Fissidens viridulus*, *Fossombronina angulosa*, *Leptodictyum riparium*, *Oxymitra incrassata*, *Riccia macrocarpa*, *Scleropodium touretii* and *Timmia barbuloidea*].

KÜRSCHNER H & R LÜBENAU-NESTLE (2000) *Cinclidotus bistratosus* (Cinclidotaceae, Musci), a new species to the hygrophytic moss flora of Turkey. – *Nova Hedwigia* **70**: 471-478.

[Includes description, illustrations and collection data of the new species].

KÜRSCHNER H (2001) Towards a bryophyte flora of the Near and Middle East. 3. An artificial key to the Anthocerotophytina and Hepaticophytina in the Near and Middle East. – *Nova Hedwigia* **72**: 161-200.

[A hornwort and liverwort flora of the Near and Middle East is presented, including all hitherto reported records (altogether 206 species). It includes keys to all groups and species, illustrations of main characters, notes on the occurrence, and remarks on questionable or erroneously recorded taxa].

KÜRSCHNER H (2004) Life strategies and adaptations in bryophytes from the Near and Middle East. – *Turkish Journal of Botany* **28**: 73-84.

[A review article on life strategies and ecomorphological adaptations (xerothalloide and xeropotioide life syndromes), based on hitherto known and analysed communities of the Near and Middle East, including Turkey. The examples given impressively demonstrate the common adaptive trends].

## L

LEBLEBICI E (1974) Batı Anadolu karayosunları, 1. Bozdağ ve yöreleri. *Bitki*, cilt 1, 4: 563-575.

[reports 113 taxa with locality data, 9 taxa being new to Turkey and 23 taxa being new to the grid square B6].

## M

MAIER E (2002) *Grimmia dissimulata* E. Maier sp. nova, and the taxonomic position of *Grimmia trichophylla* var. *meridionalis* Müll. Hal. (Musci, Grimmiaceae). – *Candollea* **56**: 281-300.

[The new *G. dissimulata* is reported from Turkey. Includes descriptions, illustrations, distributional and ecological remarks from *G. lisae* De Not., *G. meridionalis* (Müll.Hal.) E. Maier stat. nov., and *G. trichophylla* Grev., with a key to the 4 species].

MATOUSCHEK F (1905) Muscineae. In: PENTHER, A. & E. ZEDERBAUER: *Ergebnisse einer naturwissenschaftlichen Reise zum Erdschias Dagh*, S. 385-387. – *Annalen des Naturhistorischen Museums in Wien* **20**: 359-464.

[List of 41 mosses with collection data].

MAZIMPAKA V, F LARA & R GARILLETI (2000) *Orthotrichum tortidontium* new for Turkey. – *Lindbergia* **25**: 15-16.

[*Orthotrichum tortidontium*, previously known from Spain and Morocco, is reported from a disjunct eastern Mediterranean locality; includes description, collecting data and a distribution map].

MC ADAM S V (1981) The identity of a gathering of *Eurhynchium speciosum* (Brid.) Jur. from Turkey. – *Journal of Bryology* **11**: 560-562.

[Note on the morphological and cytological characters of *E. speciosum* and *E. swartzii*, to clarify the taxonomic affinities].

MÜLLER F A (1829) Erstes Verzeichnis sardinischer Laubmoose, wie auch derjenigen welche von meinem Freunde Herrn Fleischer bei Smyrna aufgefunden worden sind, nebst Beschreibungen und Abbildungen einiger neuer Arten. – *Flora* **12**: 385-396.

[Includes the description of *Grimmia nutans* Bruch in Müller (p. 390), which was collected by M.Fleischer on rocks near Smyrna (İzmir, Turkey)].

MÜLLER F (1998) Four new bryophytes for Turkey: *Bazzania flaccida* (Dum.) Grolle, *Leiocolea bantriensis* (Hook.) Joerg., *Brachythecium geheebii* Milde and *Plagiothecium laetum* B. S. G. – *Journal of Bryology* **20**: 516-518.

[Includes collection data of the new records, ecological notes and some additional species which were collected by the author during a field trip in May 1997 in NE Turkey (Trabzon, Rize, Artvin, Yusufeli areas)].

MUÑOZ J (1998) A taxonomic revision of *Grimmia* Subgenus *Orthogrimmia* (Musci, Grimmiaceae). – *Annals of the Missouri Botanical Garden* **85**: 367-403.

[Illustrated revision of *Grimmia* subg. *Orthogrimmia* with key to the species, notes on the synonymy, description of the species and distributional remarks; includes collection data from Afghanistan and Turkey. *Grimmia reflexidens* C. Müll. is reported for the first time from Turkey].

MUÑOZ J (2000) New synonyms in *Grimmia* (Grimmiaceae). – *Journal of Bryology* **22**: 99-102.

[*G. orbicularis* Wils. var. *persica* Schiffn. is reduced to a synonym of *G. orbicularis*].

MUÑOZ J & F PANDO (2000) A world synopsis of the genus *Grimmia* (Musci, Grimmiaceae). – *Monographs in Systematic Botany from the Missouri Botanical Garden* **83**: 1-133.

[A synopsis of 71 accepted species, with synonyms and notes on the distribution of each species. Includes locality data from Afghanistan, Iran, Iraq, Israel, Jordan, Lebanon, Saudi Arabia, Syria, Turkey, and Yemen].

## N

NICHOLSON W E (1920) Mosses from the Caspian and Black Sea regions. – *The Bryologist* **23**: 90-91.

[List of 2 hepatic and 15 moss taxa from the southern shore of the Caspian Sea and the Elburz Mts. (without exact locality data), based on the collections of W. J. Parsons 1917].

NYHOLM E & K WIGH (1973): Cytotaxonomical studies in some Turkish mosses. – *Lindbergia* **2**: 105-113.

[Reports, partly for the first time, mitotic chromosome numbers of 16 mosses].

## O

ÖZDEMİR T (1994) The moss flora (Musci) of Sürmene district in Trabzon. – *Turkish Journal of Botany* **18**: 331-335. (In Turkish, with English summary).

[List of 30 mosses with collection data, based on the author's collections, 26 being new to the A 4 grid square].

ÖZDEMİR T & S BAYDAR (1997) Some taxa of Bryophyta in the Tirebolu district (Giresun). – *Turkish Journal of Botany* **21**: 335-339.

[Reports 50 taxa (43 Musci, 7 Hepaticae) of the Black Sea area (Giresun province), including collection data, 6 being new to the 4 grid square].

ÖZDEMİR T & B ÇETİN (1999) The moss flora of Trabzon and environs. – *Turkish Journal of Botany* **23**: 391-404.

[Reports 120 taxa of the Black Sea area (Trabzon province), including collection data, 25 being new to the A4 grid square].

ÖZDEMİR T (2001) The bryophyte flora of Giresun Province centre and near vicinity. – *Turkish Journal of Botany* **25**: 275-283.

[List of 73 species with collection data based on the author's collections, 13 being new for grid square A4].

ÖZDEMİR T (2001) A new record to the Moss flora of Turkey: *Tortella inflexa* (Bruch) Broth. – *Turkish Journal of Botany* **25**: 365-366.

[Includes collection data and an illustration].

ÖZTÜRK M & I GÖKLER (1988) Ecology of West-Anatolian liverworts. – *Bryological Times* **47**: 1-3.

[General account on the bryofloristic knowledge of western Turkey (Aegean region), with notes on some bryophyte communities, their distribution and ecology].

ÖZENOĞLU H & I GÖKLER (2002) Liverworts (Marchantiopsida) of the Dilek Peninsula National Park. – *Turkish Journal of Botany* **26**: 297-301

[Reports 26 liverworts from the area with collection data, among them 6 new to the C11 grid-square].

## P

PAPP B & M SABOVLJEVIC (2003) Contribution to the bryophyte flora of Turkish Thrace. – *Studia Botanica Hungarica* **34**: 43-54.

[A total of 142 bryophyte taxa (17 liverworts, 125 mosses) are reported from Turkish Thrace. 4 species, i.e. *Didymodon sicculus*, *Fissidens polyphyllus*, *Orthotrichum microcarpum*, and *Seligeria paucifolia*, are new records for Turkey. *Bryum rubens*, *Fissidens serrulatus* and *Schistidium singarense* are erroneously reported as new records (cf. Blom)].

PAROLLY G (1995) Die Steinschuttfluren (*Heldreichietea*) des Westlichen und Mittleren Taurus (Türkei). Pflanzensoziologische, floristische und ökologische Untersuchungen. – *Dissertationes Botanicae* **247**: 1-374.

[Phytosociological study of the scree formations of the Toros Mountains; includes a few mosses (*Bryum provinciale*, *B. rutilans*, *Tortella tortuosa*, *Tortula norvegica* var. *norvegica*, *T. princeps* subsp. *Echinata*) in the phytosociological relevés].

## R

RAEYMAEKERS G (1983) *Philonotis rigida* Brid. in Europe. – *Lindbergia* **9**: 29-33.

[Floristic study with locality data from Lebanon and Turkey].

REIMERS, H. (1927): Die von Prof. Dr. K. Krause in Kleinasien besonders im Pontus, 1926 gesammelten Leber- und Laubmoose. – *Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem* **10**: 27-42.

[List of 1 anthocerate, 6 hepatic and 29 moss taxa with collection data, some taxonomic notes and remarks on the world wide distribution].

ROBINSON H & R K GODFREY (1960) Contribution to the bryophyte flora of Turkey. – *Revue bryologique et lichénologique* **29**: 244-253 (publ. March 1961).

[List of 14 hepatic and 96 moss taxa with collection data, based on the collections of R. K. Godfrey 1952].

## S

SCHIFFNER V (1896) Ueber die von Sintenis in Türkisch-Armenien gesammelten Kryptogamen. – *Österreichische Botanische Zeitschrift* **46**: 274-278.



- [List of 2 hepatic and 12 moss taxa with collection data, based on the collections of P. Sintenis 1894; includes the descriptions of *Amblystegium fallax* var. *crassicosatum* var. nov., *Philonotis calcarea* var. *orthophylla* var. nov., and *Pseudoleskea atrovirens* var. *revoluta* var. nov.].
- SCHIFFNER V (1897) Musci Bornmülleriani. Ein Beitrag zur Cryptogamenflora des Orients. – Österreichische Botanische Zeitschrift **47**: 125-132.
- [List of 4 hepatic and 35 moss taxa with collection data, based on the collections of J. Bornmüller from Iran and Turkey (Iter Persico-turcicum 1892-1893, "Plantae Anatoliae orientalis 1889, 1890"); includes the descriptions of *Bryum pseudotriquetrum* var. *bornmülleri* var. nov., *Grimmia orbicularis* var. *persica* var. nov., and *Tortula bornmülleri* sp. nov.].
- SCHIFFNER V (1901) Einige Materialien zur Moosflora des Orients. – Österreichische Botanische Zeitschrift **51**: 156-161.
- [List of 3 hepatic and 16 moss taxa with collection data, based on the collections of J. Bornmüller from Turkey (Iter Anatolicum tertium 1899), Iran (Iter Persico-turcicum 1892-1893) and Syria (Iter Syriacum 1897); includes the description of *Philonotis calcarea* var. *seriatifolia* var. nov.].
- SCHIFFNER V (1908) Beiträge zur Kenntnis der Bryophyten von Persien und Lydien. – Österreichische Botanische Zeitschrift **58**: 225-231, 304-318, 341-349 (mit 3 Tafeln).
- [List of 1 anthocerot, 16 hepatic and 82 moss taxa with collection data, based on the collections of J. Bornmüller from Iran (Iter Persicum alterum 1902) and Turkey (Lydiae et Cariae 1906), J. A. Knapp 1884 from Iran, and T. Strauß 1903, 1904 from Iran; includes the descriptions and illustrations (3 plates) of *Antitrichia breidleriana* sp. nov., *Fimbriaria silachorensis* sp. nov., *Grimmia caespiticia* var. *bornmüllerorum* var. nov., *Hypnum decipiens* var. *napaeiforme* var. nov., *Leskea laxiramea* sp. nov., *Philonotis seriata* var. *persica* var. nov., *Reboulia hemisphaerica* var. *microspora* var. nov., *Rhynchostegiella jacquini* var. *persica* var. nov., *Timmia grosseserrata* sp. nov., *Tortula astoma* sp. nov., *T. dema-wendica* sp. nov., and *Webera pentasticha* sp. nov.].
- SCHIFFNER V (1909) Hepaticae. - In: HANDEL-MAZZETTI, H. v.: Ergebnisse einer botanischen Reise in das Pontische Randgebirge im Sandschak Trapezunt. – Annalen des Naturhistorischen Museums in Wien **23**: 133-141 (mit 2 Tafeln).
- [List of 50 hepatic taxa with collection data and details of localities; includes the descriptions and illustrations of *Nardia handelii* sp. nov., *N. handelii* var. *flaccida* var. nov., *N. lignicola* sp. nov., and *N. subtilissima* sp. nov.].
- SCHIFFNER V (1913) Bryophyta aus Mesopotamien und Kurdistan, Syrien, Rhodos, Mytilini und Prinkipo. Gesammelt von Dr. Heinrich Frh. v. Handel-Mazzetti (Wissenschaftliche Ergebnisse der Expedition nach Mesopotamien, 1910). – Annalen des Naturhistorischen Museums in Wien **27**: 472-504.
- [List of 113 moss and 12 hepatic taxa with collection data and some taxonomic notes, based on the collections of H. v. Handel-Mazzetti 1910; includes the descriptions and illustrations of *Amblystegium kurdicum* sp. nov., *Anoetangium handelii* sp. nov., *Fontinalis mesopotamica* sp. nov., *Funaria handelii* sp. nov., *Grimmia mesopotamica* sp. nov., *G. singarensis* sp. nov., *G. subcaespiticia* sp. nov., *Mniobryum latifolium* sp. nov., *Orthotrichum cupulatum* var. *bistratosum* var. nov., *O. rupestre* var. *kurdicum* var. nov., *Pterygoneurum cavifolium* var. *muticum* var. nov., *Riccia frostii* var. *crystallinoides* var. nov., *R. frostii* var. *major* var. nov., *Tortula aestiva* var. *brevifolia* var. nov., *T. brevissima* sp. nov., and *T. handelii* sp. nov.].
- SEÇMEN Ö, E LEBLEBİCİ & İ GÖKLER (1989) A new liverwort for Turkey: *Ricciolepis natans* (L.) Corda. – Doga, Türk Botanik Dergisi Seri C **13**: 311-313. (In Turkish, with English summary).
- [Reports a new record with collection data, illustration and notes on taxonomy].
- Sİ HE (1997) A revision of *Homalia* (Musci: Neckeraceae). – The Journal of the Hattori Botanical Laboratory **81**: 1-52.
- [*Homalia woronowii* Thér., reported also from Turkey (cf. Çetin, 1988a) is reduced to synonymy with *H. webbiana* (Mont.) Schimp. in Par.; includes a distribution map of *H. webbiana* and some notes on *Neckera besseri* (Lob.) Jur.].
- T
- TCHIHATCHEFF P DE (1860) Asie Mineure Vol. III, Tome 2, Botanique. – Paris, 676 p.
- [Musci and Hepaticae on pp. 658-661; list of 32 moss and 4 hepatic taxa with collection data, based on the author's collections in Turkey].
- TONGUÇ Ö (1998) Determination of heavy metal levels in some moss species around thermic power stations. – Turkish Journal of Biology **22**: 171-180.
- [Not seen].
- TONGUÇ YAYINTAŞ Ö (2000): Some moss records from the Aegean and Mediterranean region of Turkey. – OT Sistematiik Botanik Dergisi **7**: 209-215.
- [Reports 120 mosses from the Muğla and Antalya area; *Ditrichum pusillum* (Hedw.) Hampe is reported for the first time from Turkey].
- TONGUÇ YAYINTAŞ Ö (2001): Moss flora of Muğla and its environment. – OT Sistematiik Botanik Dergisi **8**: 95-111.
- [Reports 130 mosses from the Muğla area with locality data; *Barbula enderesii* Garov., *Pohlia atropurpurea* (Wahlenb.) Lindb. and *Bryum algovicum* Sendt. ex Müll. Hal. were reported for the first time from Turkey].
- TONGUÇ Ö & A YAYINTAŞ (1996) Mosses of Çal Mountain (Manisa). – Turkish Journal of Botany **20**: 59-63. (In Turkish, with English summary).
- [List of 47 taxa, 6 being new for the B6 grid square].
- TOWNSEND C C (1969b) Contributions to the bryophyte flora of Turkey VII. – Notes from the Royal Botanic Garden Edinburgh **29**: 233-234.



[List of 19 moss taxa with collection data based on the collections of C. Barclay 1968].

- TOWNSEND C C (1997) Two mosses new to Turkey. – *Journal of Bryology* 19: 641.

[List of 15 moss and 1 hepatic taxon with collection data, based on the author's collections in the Trabzon district 1988. *Entodon schleicheri* and *Plagiothecium cavifolium* are reported for the first time from Turkey, but the latter erroneously (cf. Çetin, 1989; Yayintas & Tonguç, 1994)].

- TÜRKAN I , E HENDEN, U ÇELİK & S KIVILCIN (1995) Comparison of moss bark samples as biomonitors of heavy metals in a highly industrialised area in Izmir, Turkey. – *Science of the Total Environment* 166: 61-67.

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- TUTEL B (1973) Cryptogamic flora of Turkey. – *Verhandlungen des Internationalen Symposiums über Abies equi-trojani und die türkische Flora*, pp. 233-238. – Istanbul.

[Some general remarks on the state of floristic knowledge within the cryptogamic flora of Turkey; includes some notes on bryophytes].

## U

- UYAR G & B ÇETIN (2000) Two new varieties for the moss flora of Turkey. – *OT Sistematik Botanik Dergisi* 7: 205-209. (In Turkish with English summary).

[Reports *Grimmia trichophylla* Grev. var. *robusta* (Ferg.) A. J. E. Smith, a doubtful record with unclear nature and status of the variety, and *Fontinalis antipyretica* Hedw. var. *gigantea* (Sull.) Sull., with descriptions and locality data].

- UYAR G & B ÇETIN (2001A) Two new varieties for the moss flora of Turkey. – *OT Sistematik Botanik Dergisi* 8: 127-132.

[Reports *Brachythecium velutinum* (Hedw.) B.S.G. var. *validum* C. Jens. and *B. albicans* (Hedw.) B.S.G. var. *dumetorum* Limpr., 2 uncertain varieties of doubtful status which are not longer treated as separate taxa; includes descriptions, illustrations and locality data].

- UYAR G & B ÇETIN (2001B) The moss flora of Ankara – Kızılcahamam Soğuksu National Park. – *Turkish Journal of Botany* 25: 261-273.

[List of 116 species with collection data based on the authors' collections, 32 being new for grid square A2].

- UYAR G, E UNÇ & B ÇETIN (2002) The moss flora of Ankara – Kızılcahamam – Çamkoru and Çamlidere districts. – *Turkish Journal of Botany* 26: 91-101.

[Reports 82 taxa (Musci) from the Kızılcahamam area including collection data, 10 being new to the A2 grid square].

- UYAR G (2003) Two new varieties of *Ctenidium molluscum* (Hedw.) Mitt. (Hypnaceae, Musci) for the moss flora of Turkey. – *Turkish Journal of Botany* 27: 227-229.

[Two new varieties, *C. molluscum* var. *condensatum* (Schimp.) Britt. and *C. molluscum* var. *robustum* Boul. are recorded from the western Black Sea region, including illustrations and collecting data].

## V

- VANA J (1982) The hepatics of well and poorly known areas in temperate Europe and Asia. – *Nova Hedwigia Beiheft* 71: 341-350.

[General account on the floristic knowledge (Afghanistan, Iran, Turkey); includes a useful literature list].

## W

- WAGENITZ G (1962) Zur Kenntnis der Flora und Vegetation Anatoliens (Ergebnisse einer Reise im Herbst 1957). – *Willdenowia* 3: 221-288.

[List of flowering plants with some general remarks on the flora and vegetation of Turkey; includes 4 hepatic and 10 moss taxa with collection data, identified by H. Reimers].

- WALTHER K (1967) Beiträge zur Moosflora Westanatoliens I. – *Mitteilungen aus dem Staatsinstitut für Allgemeine Botanik in Hamburg* 12: 129-186.

[List of two anthocerotae, 55 hepatic and 311 moss taxa with collection data, based on the author's collections in Turkey 1964 and 1965, and collections of C. v. Regel; reports 131 taxa as new to the flora].

- WALTHER K & E LEBLEBICI (1969) Die Moosvegetation des Karagöl-Gebietes im Yamanlar Dag nördlich Izmir. – *Monographs of the Faculty of Science, Ege University* No. 10: 3-48.

[Phytosociological study of the epilithic and epiphytic bryophyte vegetation (description of 20 associations) with notes on syntaxonomy, community structures, ecology and habitat sites; includes a list of 1 anthocerotae, 10 hepatic and 135 moss taxa with collection data, 15 being new to the flora of Turkey].

- WALTHER K (1970) Beiträge zur Moosflora Westanatoliens II. – *Mitteilungen aus dem Staatsinstitut für Allgemeine Botanik in Hamburg* 13: 167-180.

[List of 14 hepatic and 121 moss taxa with collection data, based on the author's collections in Turkey 1967-1969; adds 54 taxa to the known flora].

- WALTHER K (1975) Zur Moosvegetation der *Liquidambar*-Wälder Südwest-Anatoliens. – *Phytocoenologia* 2: 13-18.

[Phytosociological study of the epiphytic bryophyte vegetation (description of 2 associations) with notes on syntaxonomy, community structures, ecology and habitat sites].

- WALTHER K (1979) Die epiphytischen Moosgesellschaften des Nif Dag bei Izmir, West-anatolien. – *Documents Phytosociologiques* 4: 943-950.

[Phytosociological study of the epiphytic bryophyte vegetation (description of 4 associations, 2 of them described as new) with notes on syntaxonomy, community structures, ecology and habitat sites].

WETTSTEIN R V (1889) Beitrag zur Flora des Orientes. Bearbeitung der von Dr. A. Heider im Jahre 1885 in Pisidien und Pamphylien gesammelten Pflanzen. – Sitzungsberichte der Akademie der Wissenschaften in Wien **98**: 348-398.

[Musciinae on p. 364; reports 2 hepatic and 3 moss taxa with collection data].

WHITEHOUSE H L K & A C CRUNDWELL (1992) *Gymnostomum calcareum* Nees & Hornsch. and *G. viridulum* Brid. in Europe, North Africa and the Middle East. – Bulletin of the British Bryological Society **59**: 35-50.

[List of locality data of *G. calcareum* and *G. viridulum*, which were examined and confirmed by the authors during the course of their work (cf. Whitehouse & Crundwell, 1991); includes locality data from Afghanistan, Iran, Iraq, Israel, Jordan, Lebanon, Sinai, Syria, Turkey, and Yemen].

## Y

YAYINTAŞ A & Z IWATSUKI (1988) Some moss records from western Turkey. – Hikobia **10**: 209-213.

[List of 87 moss taxa in tabular form, with notes on altitudinal distribution and the substrata].

YAYINTAŞ A , H TEKEŞOĞLU & A GÖNÜZ (1988) Nif Dağı (İzmir) in karayosunu florası. – IXth Ulusal Biyoloji Kongresi, Sivas, pp. 211-212.

[Not seen].

YAYINTAŞ A , V AYSEL, G GÜNER & A ERDAĞ (1990) Çanakkale ve Gökçeada'nın Kriptogam Florası II. Karayosunları (Musci) 1. X. Ulusal Biyoloji Kongr., pp. 141-153.

[Reports 31 taxa from the area with a key].

YAYINTAŞ A (1993) New moss record for Türkiye, *Plagiothecium curvifolium* Schlieph. ex Limpr. (Plagiotheciaceae). – Journal of the Faculty of Science, Ege University, Series B **15**: 21-23.

[Reports a new record with illustration, description and notes on habitat and distribution].

YAYINTAŞ A & Ö TONGUÇ (1993) *Platydictya confervoides* (Brid.) Crum, a new moss record for Türkiye. – Journal of the Faculty of Science, Ege University, Series B **15**: 17-20.

[Reports a new record with illustration, description and notes on habitat and distribution].

YAYINTAŞ A (1994) A new moss record for Türkiye, *Plagiothecium denticulatum* (Hedw.) B.S.G. var. *obtusifolium* (Turn.) Moore (Plagiotheciaceae). – Journal of the Faculty of Science, Ege University, Series B **16**: 19-21.

[Reports a new record with illustration, description and notes on habitat and distribution].

YAYINTAŞ A, V AYSEL, H GÜNER & Ö TONGUÇ (1994) The moss flora of Bozcaada. – Turkish Journal of Botany **18**: 29-32. (In Turkish, with English summary).

[List of 36 taxa, 8 being new for the B6 grid square].

YAYINTAŞ A & Ö TONGUÇ (1994a) A new moss record for Turkey, *Plagiothecium succulentum* (Wils.) Lindb. (Plagiotheciaceae). – Turkish Journal of Botany **18**: 517-518.

[Reports a new record with illustration, description and notes on habitat and distribution].

YAYINTAŞ A & Ö TONGUÇ (1994b) New moss records from Thrace for A1. – Journal of the Faculty of Science, Ege University, Series B **16**: 51-61.

[List of 54 taxa with collection data, new to Turkish Thrace (square A1)].

YAYINTAŞ A & A ERDAĞ (1995) Some mosses from İhlara Valley. – Journal of the Faculty of Science, Ege University, Series B **18**: 1-7.

[Reports 21 mosses from Central Anatolia (İhlara Valley), see annotation 70]

YAYINTAŞ A, M HIGUCHI & Ö TONGUÇ (1996) The moss flora of Istranca (Kırklareli) Mountains in Turkey. – Journal of the Faculty of Science, Ege University, Series B **19**: 33-45.

[List of 92 taxa, most of have been reported already by Yayintaş & Tonguç (1994b), with *Dicranella rufescens* (With.) Schimp. new to Turkey. *Cinclidotus fontinaloides* is erroneously reported as new to Turkey (cf. Tchihatcheff, 1860)].

YAYINTAŞ A & Ö TONGUÇ (1996) Moss records from Edirne, Tekirdağ and Çanakkale provinces in Turkey. – Journal of the Faculty of Science, Ege University, Series B **19**: 47-53.

[List of 38 taxa, most of have been reported already by Yayintaş & Tonguç (1994b), including *Tortula atrovirens* (= *Desmatodon convolutus*), which is erroneously reported as new to Turkey (cf. Juratzka & Milde, 1870)].

YÜCEL E & S TOKUR (1989) Eskişehir yöresi bazı Bryidae alt sınıfı türleri üzerinde floristik çalışmalar. – Anadolu Üniversitesi, Fen-Edebiyat Fakültesi Dergisi, vol. **2**: 9-16. (In Turkish with English summary)

[Reports 9 species and locality data from the area].

YÜCEL E (1995) *Leptodictyum humile* (P. Beauv.) Crum 'nin morfolojik ve ekolojik özellikleri. – Ekoloji **14**: 19-21. (In Turkish).

[A note on ecology and morphology of *Leptodictyum humile* with an illustration].

YÜCEL E & R E MAGILL (1997) Eskişehir bölgesi karayosunları (Musci) üzerine bir araştırma. – Anadolu Üniversitesi Fen Fakültesi Dergisi **3**: 47-54. (In Turkish, with English summary).

[Not seen; reports 20 taxa].

## Z

ZANDER R H (1977) The tribe Pleuroweisieae (Pottiaceae, Musci) in Middle America. – The Bryologist **80**: 233-269.

[*Anoetangium handelii* Schiffn., reported from Turkey (leg. H. v. Handel-Mazzetti; cf. Schiffner, 1913, type specimen) is reduced to synonymy with *Molendoa sendtneriana* (B.S.G.) Limpr.; includes a distribution map of *M. sendtneriana*].

ZANDER R H (1993) Genera of the Pottiaceae: mosses of harsh environments. – Bulletin of the Buffalo Society of Natural Sciences 32: 1-378.

[Taxonomic treatment of the Pottiaceae with keys to the genera, descriptions, excellent illustrations by P. M. Eckel, and notes on evolutionary relationships, taxonomy, habitats and distribution; includes several new names, statuses and new combinations, e.g., *Crossidium woodii* comb. nov. (*Pseudaloina woodii* Delg., cf. Delgadillo 1982), *Syntrichia virescens* var. *iranica* comb. nov. (*Tortula virescens* var. *iranica* Kramer, cf. Kramer, 1980) or *Weissia artocosana* nom. nov. for *Symblypharis socotrana* Mitt. = *Pseudosymblypharis socotrana* (Mitt.) Thér., cf. Mitten, 1888].

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- [A worldwide taxonomic revision of the *D. aduncus* aggregate; includes a key to the species (*D. capillifolius*, *D. polycarpus*, *D. aduncus*, *D. stagnatus*), synonyms, descriptions, illustrations and distributional remarks (Iran, Turkey)].

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