

## A TAXONOMIC REVISION OF HYMENOPHYLLACEAE

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### SUMMARY

A new classification of Hymenophyllaceae, consisting of nine genera (*Hymenophyllum*, *Didymoglossum*, *Crepidomanes*, *Polyphlebium*, *Vandenboschia*, *Abrodictyum*, *Trichomanes*, *Cephalomanes* and *Callistopteris*) is proposed. Every genus, subgenus and section chiefly corresponds to the monophyletic group elucidated in molecular phylogenetic analyses based on chloroplast sequences. Brief descriptions and keys to the higher taxa are given, and their representative members are enumerated, including some new combinations.

**Key words:** filmy ferns, Hymenophyllaceae, *Hymenophyllum*, *Trichomanes*.

### INTRODUCTION

The Hymenophyllaceae, or ‘filmy ferns’, is the largest basal family of leptosporangiate ferns and comprises around 600 species (Iwatsuki, 1990). Members are easily distinguished by their usually single-cell-thick laminae, and the monophyly of the family has not been questioned. The intrafamilial classification of the family, on the other hand, is highly controversial – several fundamentally different classifications are used by individual researchers and/or areas. Traditionally, only two genera – *Hymenophyllum* with bivalved involucre and *Trichomanes* with tubular involucre – have been recognized in this family. This scheme was expanded by Morton (1968) who hierarchically placed many subgenera, sections and subsections under two larger genera *Hymenophyllum* and *Trichomanes* and recognized four monotypic genera, *Cardiomanes*, *Hymenoglossum*, *Rosenstockia* and *Serpillopsis*, and all of which have specialized fronds. Since his system carefully covered New World taxa, most of the recent floristic works of Central and South America adopted his scheme (Stolze, 1976; De la Sota, 1977; Kramer, 1978; Smith, 1981; Tryon & Tryon, 1982; Proctor, 1985, 1989; Mickel & Beitel, 1988; Lellinger, 1989; Tryon & Stolze, 1989; Marticorena & Rodriguez, 1995; Pacheco, 1995; Baksh-Comeau, 2000; Sánchez, 2000). Conversely, Copeland (1938b, 1947) split the

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family into 34 genera, basing his work mainly on in situ and herbarium observation of Asian material. His scheme has been adopted in floristic works of Asia (Copeland, 1958; Ching, 1959; De Vol, 1975; Nakaike, 1975; Tagawa & Iwatsuki, 1979; Parris, 1992), but has not yet been applied to New World taxa. Another system consisting of 47 genera was proposed by Pichi Sermolli (1977b), but it has been adopted only in a limited number of publications on African plants (e.g., Pichi Sermolli, 1983). Finally, Iwatsuki integrated a series of his studies of morphological characters (Iwatsuki, 1975, 1977a, b, 1978, 1981, 1982) into a new hierarchical system consisting of eight genera (Iwatsuki, 1984, 1985). Although his system has been adopted in a few recently published floristic works (Iwatsuki, 1995; Du Puy & Orchard, 1993; Green, 1994; Bostock & Spokes, 1998), generic combinations for taxa in regions other than Asia and Australia are still wanting. These taxonomic inconsistencies were compounded with the typification problem of the Linnaean genus *Trichomanes* (see Holttum, 1976 and Pichi Sermolli, 1981) – *Trichomanes crispum* was considered the type in the systems devised by Copeland (1933, 1938b), Pichi Sermolli (1977b) and Iwatsuki (1984), while *T. scandens* was considered the type by Morton (1968) and Nakaike (1975).

Recent molecular phylogenetic studies (Dubuisson, 1997; Pryer et al., 2001; Dubuisson et al., 2003a; Hennequin et al., 2003; Ebihara et al., 2004; Ebihara et al., submitted) have provided new insights into the systematic relationships within the Hymenophyllaceae. The presence of two large monophyletic groups (Pryer et al., 2001) can be interpreted to support the traditional bigeneric system; however some traditional *Trichomanes* taxa (*Cardiomanes*, *Microtrichomanes*, *Pleuromanens*) belong in fact to the *Hymenophyllum* lineage (Pryer et al., 2001; Hennequin et al., 2003; Ebihara et al., 2004; Ebihara et al., submitted). Moreover, the trichomanoid and hymenophylloid lineages, both consisting of nearly the same number of taxa, may possess different historical backgrounds – the *Hymenophyllum* lineage has likely diversified more recently than the *Trichomanes* lineage (Ebihara et al., 2004; Schuettpelz & Pryer, in press). This may explain why the *Trichomanes* lineage displays a greater variety of morphological features and ecological habits than the *Hymenophyllum* lineage. Earlier studies on *Trichomanes* (Dubuisson, 1997; Dubuisson et al., 2003a), as well as our latest study (Ebihara et al., submitted), also based on *rbcL* sequences and representing nearly all taxonomic lineages, did not support any of the above classifications. These inconsistencies are probably caused by strong homoplasy of taxonomic characters due to adaptive evolution (Dubuisson et al. 2003b; Ebihara et al., submitted). We therefore believe that a fundamental taxonomic revision of the Hymenophyllaceae is in order.

Even today, the principles of generic delimitation maintained by Copeland (1938b) seem quite reasonable: naturalness and convenience, and the latter is “subject always to the preceding principle (naturalness)”. It is often argued that a classification completely based on the results of molecular phylogeny is difficult to put into practice, but recognition of unnatural (i.e., polyphyletic/paraphyletic) groups is a disadvantage for biological studies in general. Hence we prefer to reorganize the species into natural (i.e., monophyletic) and also morphologically recognizable groups. We propose to place all species of the hymenophylloid lineage under a single genus *Hymenophyllum* and to subdivide the trichomanoid lineage into eight genera corresponding to eight robust clades in our global analysis (Ebihara et al., submitted). We also treat many of the subclades retrieved (Ebihara et al., submitted) as subgenera if relationships within the

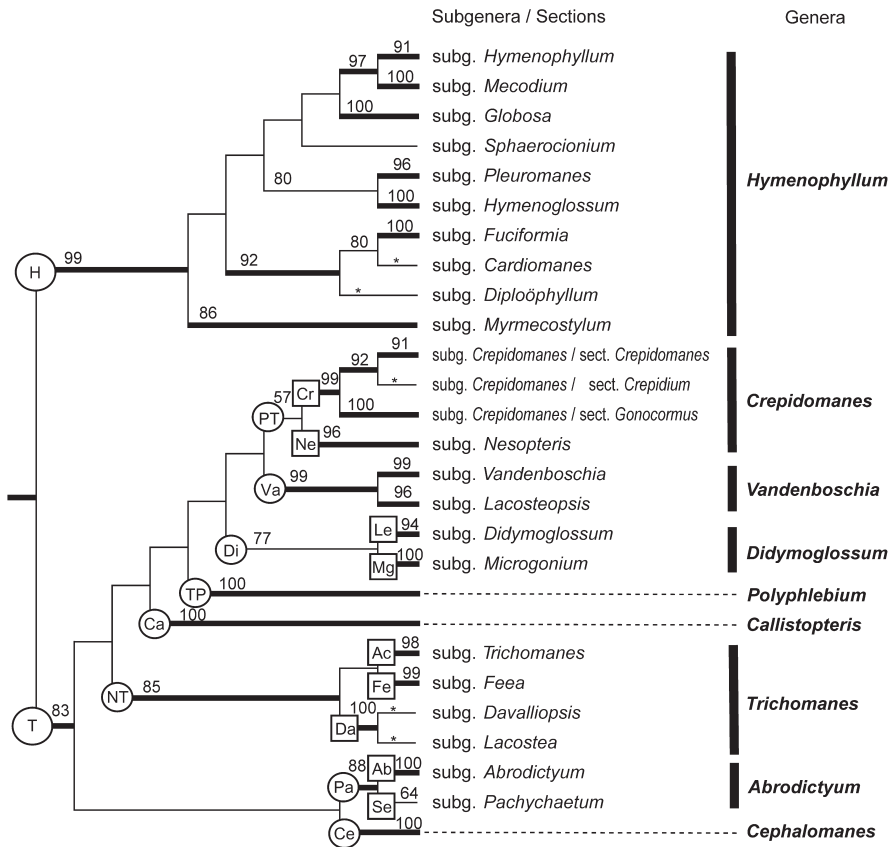


Fig. 1. An explanatory figure of the correspondence between the present system and the results of molecular phylogeny of Hymenophyllaceae. The phylogram is primarily based on the MP tree using chloroplast *rbcL* gene (Ebihara et al., submitted); the topology within the 'H' clade follows that of the MP tree using *rbcL*, *rbcL-accD* and *rps4-trnS* regions (Hennequin et al., in press). Bootstrap values (> 50%) supporting the clades are shown on their branches (bootstrap supports > 80% are shown by bold lines), but the values are replaced by asterisks in the taxa comprising a single sample. All the groups adopted as taxa in the present system are supported by high posterior probabilities (> 0.99) of Bayesian inference (Ebihara et al., submitted; Hennequin et al., in press). The clade names indicated in the tree correspond to those used in Ebihara et al. (submitted). — Ab: *Abrodactyum*; Ac: *Achomanes*; Ca: *Callistopteris*; Ce: *Cephalomanes*; Cr: *Crepidomanes*; Da: *Davalliopsis*; Di: *Didymoglossum*; Fe: *Feea*; H: *Hymenophyllum* s.l.; Le: *Lecanium*; Mg: *Microgonium*; Ne: *Nesopteris*; NT: Neotropical; Pa: *Pachychaetum*; PT: Paleotropical; Se: *Selenodesmium*; T: *Trichomanes* s.l.; TP: *Trichomanes pixidiferum*; Va: *Vandenboschia*.

clade are well resolved in our analysis (Fig. 1); in the absence of support, infrageneric classification within some genera is deferred. Although Ebihara et al. (submitted) illustrated that anatomical and cytological characters are more taxonomically informative than macroscopic characters, we selected macroscopic characters for the keys in this paper even though this makes the keys more complex.

To aid in characterization of taxa recognized by us, representative species of each genus, subgenus or section are enumerated here. Please note that the list includes the minimum number of taxa commonly accepted in recent floristic works, and therefore does not necessarily represent all the members.



## TAXONOMIC TREATMENT

## KEY TO THE GENERA

- 1a. Rhizomes long-creeping ..... 2  
 b. Rhizomes short-creeping or erect ..... 11
- 2a. Rhizomes nearly glabrous or sparsely covered with light-coloured hairs. Involucres usually bivalvate (Fig. 2a) ..... **1. Hymenophyllum**  
 b. Rhizomes covered with reddish to dark-coloured hairs. Involucres usually not bivalvate ..... 3
- 3a. Roots absent or replaced by root-like shoots (Fig. 2c) ..... 4  
 b. Roots present ..... 5
- 4a. Continuous false veinlets parallel to true veins (Fig. 2d) present. Blade venation catadromous (Fig. 2e) ..... **2. Didymoglossum**  
 b. Continuous false veinlets parallel to true veins absent. Blade venation anadromous (Fig. 2f) ..... **3. Crepidomanes** (subg. **Crepidomanes**)
- 5a. Roots few and fine ..... **4. Polyphlebium**  
 b. Roots numerous and robust ..... 6
- 6a. Blades once-pinnate to bipinnatifid ..... 7  
 b. Blades bipinnate to highly divided ..... 8
- 7a. Pinnae asymmetric ..... **5. Vandenboschia**  
 b. Pinnae symmetric ..... **7. Trichomanes** (subg. **Lacostea**)
- 8a. Marginal laminar trichomes present . . . . **7. Trichomanes** (subg. **Trichomanes**)  
 b. Marginal laminar trichomes absent ..... 9
- 9a. Abortive fronds (Fig. 2g) present. . . . . **3. Crepidomanes** (subg. **Nesopteris**)  
 b. Abortive fronds absent ..... 10
- 10a. Minute clavate hairs present on stipes and rachises . . . . . **5. Vandenboschia**  
 b. Minute clavate hairs on stipes and rachises absent . . . . . **6. Abrodictyum**
- 11a. Involucres bivalvate (Fig. 2a) . . . . . **1. Hymenophyllum** (subg. **Fuciformia**)  
 b. Involucres tubular (Fig. 2b) . . . . . 12
- 12a. Blade venation catadromous (Fig. 2e) . . . . . 13  
 b. Blade venation anadromous (Fig. 2f) . . . . . 14
- 13a. Lamina tough, more than one cell thick . . . . . **7. Trichomanes** (subg. **Feea**)  
 b. Lamina membranous, one cell thick . . . . **7. Trichomanes** (subg. **Trichomanes**)

←

Fig. 2. Examples of morphological characters used in the keys. a. Bivalvate involucres (*Hymenophyllum deplanchei*; Ebihara 001228-05, TI); b. tubular involucres with an exerted receptacle (Rc) (*Crepidomanes humile*; Iwatsuki 99H06, TNS); c. root-like shoots (RS) grown out from rhizomes (Rz) (*Crepidomanes bipunctatum*; Ebihara 000225-020, TNS); d. continuous false veinlets (FV) parallel to true veins (TV) (*Didymoglossum bipunctatum*; S. Matsumoto 01-820, TNS); e. catadromous venation – FAV: the first acroscopic vein; FBV: the first basisopic vein in each pinna (*Trichomanes poly-podioides*; T.A. Ohsawa 178-15, TNS); f. anadromous venation (*Vandenboschia birmanica*; A. Narita 1070b, TNS); g. abortive fronds (pointed by an arrow) (*Crepidomanes aphlebioides*; M. Kato et al. C-13883, TI); h. long bristle-like light reddish hairs on a stipe (*Callistopteris apiifolia*; Ebihara 040922-03, TNS); i. reduced lamina cells (*Abrodictyum pluma*; R. Jaman s.n., TNS). — Scale bars: a, b, d, h = 1 mm; c, e, f, i = 5 mm; g = 5 cm.



- 14a. Blades once-pinnate to bipinnatifid . . . . . **8. Cephalomanes**  
 b. Blades bipinnate or more divided . . . . . 15
- 15a. Long bristle-like light reddish hairs (Fig. 2h) present on stipes and rachises . 16  
 b. Long bristle-like light reddish hairs absent on stipes and rachises . . . . . 17
- 16a. Laminar cells reduced (Fig. 2i). Less than 3 rows of cells between midribs and margins . . . . . **6. Abrodictyum**  
 b. Laminar cells not reduced. More than 3 rows of cells between midribs and margins . . . . . **9. Callistopteris**
- 17a. Laminae more than one cell thick . . . . . **7. Trichomanes** (subg. **Davalliopsis**)  
 b. Laminae one cell thick . . . . . 18
- 18a. Laminar cell-walls thin and straight . . . . . **2. Crepidomanes** (subg. **Nesopteris**)  
 b. Laminar cell-walls slightly or quite thick, wavy or pitted . . . . . **6. Abrodictyum**

## 1. HYMENOPHYLLUM

*Hymenophyllum* Sm. (1793) 418. — Lectotype: *Hymenophyllum tunbrigense* (L.) Sm. (selected by Presl (1843) 31).

*Rhizomes* long-creeping, frequently branching, usually filiform or wiry, up to 2 mm diam., nearly glabrous or sparsely covered with multicellular hairs (exceptionally densely covered with hairs in subg. *Fuciformia*), protostele subcollateral, dorsiventral, or ‘reduced’ (with more or less central xylem-like parenchyma), cortices heterogeneous, with few and fine roots. *Stipes* various in length, at a distance from the adjacent ones. *Blades* usually pinnate to quadripinnate or occasionally simple, 165 by 17 cm, venation anadromous, laminae usually one cell thick, but sometimes two or more cells thick. *Sori* paratactic, lips usually bivalvate, receptacles usually included in involucre.

Distribution — Throughout the tropics to temperate regions; c. 250 species.

Habitat — Usually low- to middle-epiphytes on tree trunks, sometimes canopy sun-epiphytes, occasionally epilithic or terrestrial.

Chromosome base number — Various,  $x = 11$  to 36.

Note — *Hymenophyllum* in our sense stands as the largest genus of Hymenophyllaceae, and almost corresponds to *Hymenophyllum* in the traditional and broad sense but also includes some taxa formerly regarded as *Trichomanes* s.l. Iwatsuki (1984) segregated *Sphaerocionium*, which is characterized by distinctive stellate hairs, from the remaining *Hymenophyllum* (s.l.) taxa. Recent studies (Hennequin et al., 2003, in press) suggest that *Sphaerocionium* is nested within *Mecodium*, another easily recognizable group of *Hymenophyllum* s.l., as currently defined. Under our strategy of classification – making each taxon a natural group – *Sphaerocionium* is to be treated as a genus, species belonging to *Mecodium* should be split into more than two genera. To avoid such inconvenience, all species of *Hymenophyllum* s.l. are placed in our *Hymenophyllum*. Because the systematic relationships within this genus are not fully clarified, the current revision treats only subgenera, with each subgenus monophyletic based on our latest study using molecular data (Hennequin et al., in press).

## KEY TO THE SUBGENERA

- 1a. Rhizomes short-creeping or erect . . . . . **8. Subg. Fuciformia**  
 b. Rhizomes long-creeping . . . . . 2
- 2a. Stellate hairs present on blades . . . . . **2. Subg. Sphaerocionium**  
 b. Stellate hairs absent on blades . . . . . 3
- 3a. Blades dichotomously divided . . . . . **2. Subg. Sphaerocionium**  
 b. Blades not dichotomously divided . . . . . 4
- 4a. Blades simple to pinnatifid. . . . . 5  
 b. Blades pinnate . . . . . 7
- 5a. Blades kidney-shaped . . . . . **10. Subg. Cardiomanes**  
 b. Blades not kidney-shaped . . . . . 6
- 6a. Veins of blades simple . . . . . **1. Subg. Hymenophyllum**  
 b. Veins of blades pinnately divided . . . . . **7. Subg. Hymenoglossum**
- 7a. Blades glaucous or covered with whitish multicellular hairs . . . . .  
 . . . . . **5. Subg. Pleuromanes**  
 b. Blades neither glaucous nor covered with whitish multicellular hairs . . . . . 8
- 8a. Laminae more than two cells thick throughout . . . . . **9. Subg. Diploöphyllum**  
 b. Laminae one cell thick, or only partly multi-layered. . . . . 9
- 9a. Stipes with multicellular hairs present . . . . . 10  
 b. Stipes glabrous or with only caducous hairs . . . . . 11
- 10a. Sori on both acroscopic and basiscopic sides of pinnae . . . . .  
 . . . . . **6. Subg. Myrmecostylum**  
 b. Sori confined to acroscopic sides of pinnae . . . . . **1. Subg. Hymenophyllum**
- 11a. Rhizomes thick, more than 0.4 mm diam., nearly glabrous or with scattered pale hairs . . . . . **4. Subg. Globosa**  
 b. Rhizomes filiform, less than 0.4 mm diam., with scattered short brown hairs 12
- 12a. Margins of segments toothed. . . . . **1. Subg. Hymenophyllum**  
 b. Margins of segments entire . . . . . 13
- 13a. Lamina cell walls thin and straight, sori lacking a thickened base . . . . .  
 . . . . . **3. Subg. Mecodium**  
 b. Lamina cell walls more or less thick, sori each with a thickened base, on short acroscopic segments near the rachis . . . . . **1. Subg. Hymenophyllum**

**1. Subgenus Hymenophyllum**

- Didymoglossum* Desv. subg. *Chilodium* C. Presl (1843) 23. — *Hymenophyllum* Sm. subg. *Chilodium* (C. Presl) Croxall (1975) 515. — *Hymenophyllum* Sm. sect. *Chilodium* (C. Presl) C. Chr. (1906) XVI. — Lectotype: *Didymoglossum neesii* (Blume) C. Presl (= *Hymenophyllum denticulatum* Sw.) (selected by Christensen (1906) XVI, as *H. denticulatum* Sw.).
- Meringium* C. Presl (1843) 24, t. VIII, f. B. — *Hymenophyllum* Sm. subg. *Meringium* (C. Presl) Copel. (1937) 14. — *Hymenophyllum* Sm. sect. *Meringium* (C. Presl) Diem & J.S. Licht. (1959) 666. — Type: *Meringium meyenianum* C. Presl (= *Hymenophyllum serrulatum* (C. Presl) C. Chr.).
- Leptocionium* C. Presl (1843) 26, t. XI, f. D. — *Hymenophyllum* Sm. sect. *Leptocionium* (C. Presl) Prantl (1875) 54. — *Hymenophyllum* Sm. subg. *Leptocionium* (C. Presl) H. Christ (1897) 20. — *Hymenophyllum* Sm. subsect. *Leptocionium* (C. Presl) C.V. Morton (1968) 170. — Type: *Leptocionium dicranotrichum* C. Presl (= *Hymenophyllum dicranotrichum* (C. Presl) Sadeb.).

- Hymenophyllum* Sm. subg. *Sphaerodium* C. Presl (1843) 31. — *Hymenophyllum* Sm. sect. *Sphaerodium* (C. Presl) C. Chr. (1906) XVI. — Lectotype: *Hymenophyllum wilsonii* Hook. (selected by Copeland (1938b) 14).
- Hymenophyllum* Sm. subsect. *Dimidiata* C. Presl (1843) 32. — Lectotype: *Hymenophyllum unilaterale* Bory ex Willd. (= *Hymenophyllum peltatum* (Poir.) Desv.) (selected by Morton (1968) 164).
- Hymenophyllum* Sm. subg. *Cycloglossum* C. Presl (1843) 32. — *Hymenophyllum* Sm. sect. *Cycloglossum* (C. Presl) C. Chr. (1906) XV. — Lectotype: *Hymenophyllum caespitosum* Gaudich. (selected by Copeland (1938b) 14).
- Hymenophyllum* Sm. subg. *Craspedophyllum* C. Presl (1843) 33. — *Hymenophyllum* Sm. sect. *Craspedophyllum* (C. Presl) C. Chr. (1906) XV. — *Craspedophyllum* (C. Presl) Copel. (1938b) 27. — Type: *Hymenophyllum marginatum* Hook. & Grev.
- Serpyllopsis* Bosch (1861a) 318. — *Trichomanes* L. subg. *Serpyllopsis* (Bosch) H. Christ (1897) 23. — Type: *Serpyllopsis caespitosa* (Gaudich.) C. Chr. (= *Hymenophyllum caespitosum* Gaudich.).
- Hymenophyllum* Sm. sect. *Pachyloma* H. Christ (1897) 15, based on *Pachyloma* Bosch (1861a) 318, nom. illeg., non DC. (1828) 122, nec Spach (1839) 194. — Type: *Hymenophyllum marginatum* Hook. & Grev.
- Hymenophyllum* Sm. subg. *Hemicyatheon* Domin (1913) 20. — *Hemicyatheon* (Domin) Copel. (1938b) 27. — *Hymenophyllum* Sm. sect. *Hemicyatheon* (Domin) K. Iwats. (1984) 172. — Type: *Hymenophyllum baileyianum* Domin.
- Hymenophyllum* Sm. sect. *Acanthotheca* Nakai (1926) 262. — Type: *Hymenophyllum acanthoides* (Bosch) Rosenst.
- Hymenophyllum* Sm. subg. *Buesia* C.V. Morton (1932) 336. — *Buesia* (C.V. Morton) Copel. (1938b) 47. — *Hymenophyllum* Sm. sect. *Buesia* (C.V. Morton) C.V. Morton (1968) 164. — Type: *Hymenophyllum mirificum* C.V. Morton.
- Hymenophyllum* Sm. subg. *Amphipterum* C. Presl ex Copel. (1937) 68, based on *Amphipterum* C. Presl (1849) 258, nom. nud. — *Amphipterum* (C. Presl ex Copel.) Copel. (1938b) 46. — *Hymenophyllum* Sm. sect. *Amphipterum* (C. Presl ex Copel.) C. Chr. ex K. Iwats. (1984) 171. — Type: *Hymenophyllum fuscum* (Blume) Bosch.
- Hymenophyllum* Sm. subg. *Myriodon* Copel. (1937) 73. — *Myriodon* (Copel.) Copel. (1938b) 47. — *Hymenophyllum* Sm. sect. *Myriodon* (Copel.) C.V. Morton (1968) 168. — Type: *Hymenophyllum odontophyllum* Copel. (= *Hymenophyllum brassii* C. Chr.).
- Rosenstockia* Copel. (1947) 36. — *Hymenophyllum* Sm. subg. *Rosenstockia* (Copel.) R.M. Tryon & A.F. Tryon (1981) 134. — Type: *Rosenstockia rolandi-principis* (Rosenst.) Copel. (= *Hymenophyllum rolandi-principis* Rosenst.).
- Hymenophyllum* Sm. sect. *Eupectinum* Diem & J.S. Licht. (1959) 635. — Type: *Hymenophyllum pectinatum* Cav.
- Hymenophyllum* Sm. sect. *Pseudomecodium* K. Iwats. (1984) 172. — *Pseudomecodium* (K. Iwats.) Satou (1997) 269. — Type: *Hymenophyllum exsertum* (Wall. ex Hook.) Copel.
- Hymenophyllum* Sm. subg. *Euhymenophyllum* C. Presl (1843) 31, nom. illeg.; originally includes the lectotype of the genus, *Hymenophyllum tunbrigense* (L.) Sm.
- Hymenophyllum* Sm. sect. *Serrulata* C. Presl (1843) 32, nom. illeg.; originally includes the lectotype of the genus, *Hymenophyllum tunbrigense* (L.) Sm.
- Hymenophyllum* Sm. subsect. *Evoluta* C. Presl (1843) 32, nom. illeg.; originally includes the lectotype of the genus, *Hymenophyllum tunbrigense* (L.) Sm.
- Hymenophyllum* Sm. sect. *Plumosa* K. Iwats. (1984) 172, nom. illeg., non *Hymenophyllum* Sm. subsect. *Plumosa* Prantl (1875) 55. — Type: *Hymenophyllum levingei* C.B. Clarke.

*Rhizomes* long-creeping, filiform, nearly glabrous or sparsely covered with thick-walled hairs. *Stipes* to 15 cm long. *Blades* simple to quadripinnatifid, narrowly elliptic to sub-deltate, 30 by 15 cm, margins of segments entire. *Sori* usually at the tips of acroscopic segments of pinnae, lips bivalvate, entire or serrate, receptacles included or slightly extruded from involucre.

Distribution — Cosmopolitan; c. 100 species.

Habitat — Usually epiphytic, occasionally epilithic.



Chromosome base number — Various,  $x = 11$  to 28.

Note — This is the largest subgenus of *Hymenophyllum* and shows great diversity both in morphology and cytology. Since recent molecular results (Ebihara et al., 2002; Hennequin et al., 2003; Hennequin et al., in press) suggest most of the subgroups included in this subgenus are probably polyphyletic, further study is necessary for the classification within this subgenus.

REPRESENTATIVE SPECIES:

**New combinations:**

*Hymenophyllum trichophorum* (Alderw.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes trichophorum* Alderw. (1924) 53, the earlier name for the plant formerly called *Amphipterum humatoides* Copel. (1941) 465].

**Other species:**

*Hymenophyllum acanthoides* (Bosch) Rosenst.; *H. armstrongii* (Baker) Kirk; *H. baileyianum* Domin; *H. barbatum* (Bosch) Baker; *H. bivalve* (G. Forst.) Sw.; *H. blandum* Racib.; *H. brassii* C. Chr.; *H. caespitosum* Gaudich.; *H. cupressiforme* Labill.; *H. dentatum* Cav.; *H. denticulatum* Sw.; *H. deplanchei* Mett. ex Kuhn; *H. dicranotrichum* (C. Presl) Sadeb.; *H. dimidiatum* Mett. ex Kuhn; *H. exsertum* Wall. ex Hook.; *H. feejeense* Brack.; *H. foersteri* Rosenst.; *H. fucoides* (Sw.) Sw.; *H. fuscum* (Blume) Bosch; *H. geluense* Rosenst.; *H. gorgoneum* Copel.; *H. holochilum* (Bosch) C. Chr.; *H. johorensis* Holttum; *H. ledermanni* Brause; *H. levingei* C.B. Clarke; *H. lobbii* T. Moore ex Bosch; *H. macrosorum* Alderw.; *H. marginatum* Hook. & Grev.; *H. melanosorum* (Copel.) C.V. Morton; *H. minimum* A. Rich.; *H. mirificum* C.V. Morton; *H. multifidum* (G. Forst.) Sw.; *H. oligosorum* Makino; *H. pachydermicum* Ces.; *H. pectinatum* Cav.; *H. peltatum* (Poir.) Desv.; *H. penangianum* C.G. Matthew & H. Christ; *H. pumilum* C. Moore; *H. revolutum* Colenso; *H. rolandi-principis* Rosenst.; *H. rubellum* Rosenst.; *H. rugosum* C. Chr. & Skottsb.; *H. secundum* Hook. & Grev.; *H. serulatum* (C. Presl) C. Chr.; *H. sibthorpioides* (Bory ex Willd.) Mett.; *H. simonsianum* Hook.; *H. tenellum* (Jacq.) Kuhn; *H. triangulare* Baker; *H. tunbrigense* (L.) Sm.; *H. walleri* Maiden & Betche; *H. wilsonii* Hook.

## 2. Subgenus *Sphaerocionium* (C. Presl) C. Chr.

*Hymenophyllum* Sm. subg. *Sphaerocionium* (C. Presl) C. Chr. (1934) 5. — *Sphaerocionium* C. Presl (1843) 33, t. IV, f. B, t. X, f. B, C. — *Hymenophyllum* Sm. sect. *Sphaerocionium* (C. Presl) C. Chr.

(1906) XV. — Lectotype: *Hymenophyllum hirsutum* (L.) Sw. (selected by Copeland (1937) 10). *Trichomanes* L. sect. *Flabellata* C. Presl (1843) 16. — Lectotype: *Trichomanes digitatum* Sw. (= *Hymenophyllum digitatum* (Sw.) Fosberg) (selected by Morton (1968) 199).

*Hymenophyllum* Sm. sect. *Pilosa* C. Presl (1843) 32. — Lectotype: *Hymenophyllum valvatum* Hook. & Grev. (selected by Morton (1968) 168).

*Sphaerocionium* C. Presl sect. *Pilosa* C. Presl (1843) 34. — Lectotype: *Sphaerocionium schiedeanum* C. Presl (= *Hymenophyllum crispum* Kunth) (selected by Morton (1968) 168).

*Sphaerocionium* C. Presl sect. *Stellata* C. Presl (1843) 34. — Lectotype: *Sphaerocionium interruptum* (Kunze) C. Presl (= *Hymenophyllum plumieri* Hook. & Grev.) (selected by Morton (1968) 169).

*Gonocormus* Bosch sect. *Microtrichomanes* Mett. ex Prantl (1875) 51, based on Gruppe *Microtrichomanes* Mett. (1864) 413, nom. nud. — *Trichomanes* L. sect. *Microtrichomanes* (Mett. ex Prantl) C. Chr. (1906) XIV. — *Microtrichomanes* (Mett. ex Prantl) Copel. (1938b) 35. — *Crepidomanes* (C. Presl) C. Presl subg. *Microtrichomanes* (Mett. ex Prantl) K. Iwats. (1984) 175. — Lectotype: *Gonocormus digitatus* (Sw.) Prantl (= *Hymenophyllum digitatum* (Sw.) Fosberg) (selected by Christensen (1906) XIV).

*Hymenophyllum* Sm. subsect. *Ciliata* Prantl (1875) 55. — Lectotype: *Hymenophyllum lineare* (Sw.) Sw. (selected by Morton (1968) 168).

*Hymenophyllum* Sm. subsect. *Hirsuta* Prantl (1875) 55. — Lectotype: *Hymenophyllum raddianum* Müll. Berol. (= *Hymenophyllum fragile* (Hedw.) C.V. Morton) (selected by Morton (1968) 170).

*Hymenophyllum* Sm. subsect. *Plumosa* Prantl (1875) 55. — Lectotype: *Hymenophyllum plumosum* Kaulf. (selected by Morton (1968) 169).

*Hymenophyllum* Sm. subg. *Apteropteris* Copel. (1937) 176. — *Apteropteris* (Copel.) Copel. (1938b) 34. — *Hymenophyllum* Sm. sect. *Apteropteris* (Copel.) C.V. Morton (1968) 170. — *Sphaerocionium* C. Presl subg. *Apteropteris* (Copel.) K. Iwats. (1984) 173. — Type: *Hymenophyllum malingii* (Hook.f.) Mett.

*Rhizomes* long-creeping, filiform, usually covered with stellate hairs. *Stipes* to 18 cm long. *Blades* pinnate to tripinnatifid, elliptic to subdeltate, 165 by 17 cm, covered with stellate hairs, or with simple hairs. *Sori* at the tips of ultimate segments, bivalvate or tubular, lips entire, receptacles included or slightly extruded from involucre.

Distribution — Cosmopolitan, highly diversified in the Neotropics; c. 70 species.

Habitat — Epiphytic on tree trunks.

Chromosome base number —  $x = 36$ .

Note — Though the *Sphaerocionium* species characterized by their stellate hairs have sometimes been treated as an independent genus (e.g., Copeland, 1938b; Iwatsuki, 1984), we reduced them to a subgenus of *Hymenophyllum* for the reason noted in the description of the genus. Our present definition of *Sphaerocionium* also includes most of the *Microtrichomanes* species (Ebihara et al., 2004) whose hairs have been transformed from stellate into simple. Although Morton (1947) subdivided this group chiefly by the nature and placement of the hairs, recent studies (Ebihara et al., 2004, Hennequin et al., in press) suggest their phylogenetic relationships are more closely related to their geographical distributions.

REPRESENTATIVE SPECIES:

*Hymenophyllum adiantoides* Bosch; *H. aeruginosum* (Poir.) Carmich.; *H. amabile* C.V. Morton; *H. angustum* Bosch; *H. antillense* (Jenman) Jenman; *H. braithwaitei* Ebihara & K. Iwats.; *H. capillare* Desv.; *H. consanguineum* C.V. Morton; *H. crispum* Kunth; *H. dependens* C.V. Morton; *H. digitatum* (Sw.) Fosberg; *H. elegans* A. Spreng.; *H. elegantulum* Bosch; *H. ferrugineum* Colla; *H. fragile* (Hedw.) C.V. Morton; *H. frankliniae* Colenso; *H. fusugasugense* H. Karst. ex Sturm; *H. glaziovii* Baker; *H. hemipteron* Rosenst.; *H. hirsutum* (L.) Sw.; *H. hirtellum* Sw.; *H. horizontale* C.V. Morton; *H. karstenianum* Sturm; *H. lanatum* Fée; *H. lanceolatum* Hook. & Arn.; *H. lindenii* Hook.; *H. lineare* (Sw.) Sw.; *H. lobato-alatum* Klotzsch; *H. lyallii* Hook.f.; *H. malingii* (Hook.f.) Mett.; *H. microcarpum* Desv.; *H. molle* C.V. Morton; *H. multialatum* C.V. Morton; *H. nitidulum* (Bosch) Ebihara & K. Iwats.; *H. obtusum* Hook. & Arn.; *H. palmatifidum* (Müll. Berol.) Ebihara & K. Iwats.; *H. pilosissimum* C. Chr.; *H. plumieri* Hook. & Grev.; *H. plumosum* Kaulf.; *H. pulchellum* Schltld. & Cham.; *H. pyramidatum* Desv.; *H. roraimense* C.V. Morton; *H. ruizianum* (Klotzsch) Kunze; *H. semiglabrum* Rosenst.; *H. sericeum* (Sw.) Sw.; *H. sieberi* (C. Presl) Bosch; *H. simplex* C.V. Morton; *H. speciosum* Bosch; *H. splendidum* Bosch; *H. subobtusum* Rosenst.; *H. subrigidum* H. Christ; *H. tomaniivense* (Brownlie) Ebihara & K. Iwats.; *H. tomentosum* Kunze; *H. trapezoidale* Liebm.; *H. trichophyllum* Kunth; *H. urbanii* Brause; *H. valvatum* Hook. & Grev.; *H. vercundum* C.V. Morton.

### 3. Subgenus *Mecodium* C. Presl ex Copel.

*Hymenophyllum* Sm. subg. *Mecodium* C. Presl ex Copel. (1937) 93, based on *Mecodium* C. Presl (1849) 258, nom. nud. — *Mecodium* (C. Presl ex Copel.) Copel. (1938b) 17. — Lectotype: *Hymenophyllum polyanthos* (Sw.) Sw. (selected by Copeland (1937) 10).

*Hymenophyllum* Sm. sect. *Glabra* Prantl (1875) 54. — Lectotype: *Hymenophyllum polyanthos* (Sw.) Sw. (selected by Morton (1968) 172).

*Hymenophyllum* Sm. sect. *Corrugatae* K. Iwats. (1984) 173. — Type: *Hymenophyllum ooides* F. Muell. & Baker.

*Rhizomes* long-creeping, filiform, nearly glabrous. *Stipes* up to 10 cm long. *Blades* pinnate to tripinnatifid, elliptic to subdeltate, 45 by 6 cm, margins of segments entire. *Sori* at the tips of ultimate segments, lips bivalvate, entire, receptacles included in involucre.

Distribution — Cosmopolitan; more than 35 species.

Habitat — Epiphytic on tree trunks.

Chromosome base number —  $x = 28$ .

Note — This subgenus corresponds to the cosmopolitan species *H. polyanthos* and its local derivatives; it also corresponds to the ‘*H. polyanthos* clade’ in Hennequin et al. (in press). The chromosome base number of  $x = 28$  is a synapomorphy of this subgenus. Although Presl (1849) originally used the generic name *Mecodium* for *H. sanguinolentum*, which is now referred to subg. *Myrmecostylum*, Copeland (1937) selected *H. polyanthos* as the type when he legitimized the name – the type designation may not be correctable even it was later corrected to *H. sanguinolentum* by Copeland himself (1938b).

REPRESENTATIVE SPECIES:

**New combinations:**

*Hymenophyllum novoguineense* (Rosenst.) K. Iwats., *comb. nov.* [based on *Hymenophyllum blumeana* A. Spreng. var. *novoguineense* Rosenst. (1908b) 371].

**Other species:**

*Hymenophyllum abruptum* Hook.; *H. apiculatum* Mett. ex Kuhn; *H. axillare* Sw.; *H. brevifrons* Kunze; *H. copelandii* C.V. Morton; *H. corrugatum* H. Christ; *H. cuneatum* Kunze; *H. darwinii* Hook.; *H. fendlerianum* Sturm; *H. fumarioides* Bory ex Willd.; *H. inaequale* (Poir.) Desv.; *H. kuhni* C. Chr.; *H. mnioides* Baker; *H. myriocarpum* Hook.; *H. ooides* F. Muell. & Baker; *H. paniculiflorum* C. Presl; *H. polyanthos* (Sw.) Sw.; *H. rarum* R. Br.; *H. recurvum* Gaudich.; *H. siliquosum* H. Christ; *H. undulatum* Sw.; *H. whitei* Goy; *H. wrightii* Bosch.

#### 4. Subgenus **Globosa** (Prantl) Ebihara & K. Iwats., *comb. nov.*

Based on *Hymenophyllum* Sm. sect. *Globosa* Prantl (1875) 55. — Lectotype: *Hymenophyllum junghuhnii* Bosch (selected by Morton (1968) 172).

*Sphaerocionium* C. Presl sect. *Glabra* C. Presl (1843) 34, non *Hymenophyllum* Sm. sect. *Glabra* Prantl (1875) 54. — Lectotype: *Hymenophyllum caudiculatum* Mart. (selected by Morton (1968) 172).

*Rhizomes* long-creeping, filiform to wiry, nearly glabrous. *Stipes* to 15 cm long. *Blades* tri- to quadripinnate, elliptic to subdeltate, 60 by 15 cm, margin of segments usually entire, minutely serrate in some species. *Sori* at the tips of ultimate segments, lips bivalvate, entire or serrate, receptacles included in involucre, often capitate.

Distribution — Tropics to temperate regions of Asia and Pacific areas; at least one species is distributed in the southern part of South America; c. 25 species.

Habitat — Epiphytic, or occasionally epilithic.

Chromosome base number —  $x = 36$ .

Note — This subgenus corresponds to the ‘*H. australe* clade’ in Hennequin et al. (in press). It has been confused with the *H. polyanthos* group (subg. *Mecodium* in the present system), but features of the rhizome (e.g., dorsiventral protostele) are clearly different (Hennequin et al., in press). The earliest name given to this group, ‘*Sphaerocionium* sect. *Glabra*’ (Presl, 1843) becomes a later homonym of *Hymenophyllum* sect.

*Glabra* (Prantl, 1875) when it is placed under *Hymenophyllum* according to the latest Code (Greuter et al., 2000, Art. 21.3, Note 1). Therefore the name of this subgenus should be *Globosa*.

REPRESENTATIVE SPECIES:

*Hymenophyllum australe* Willd.; *H. badium* Hook. & Grev.; *H. caudiculatum* Mart.; *H. demissum* (G. Forst.) Sw.; *H. emarginatum* Sw.; *H. fimbriatum* J. Sm. ex Hook.; *H. flexuosum* A. Cunn.; *H. imbricatum* Blume; *H. javanicum* A. Spreng.; *H. junghuhnii* Bosch; *H. longifolium* Alderw.; *H. productum* Kunze; *H. reinwardtii* Bosch; *H. riukuense* H. Christ; *H. salakense* Racib.; *H. thuidium* Harr.; *H. treubii* Racib.

**5. Subgenus *Pleuromanes* (C. Presl) Ebihara & K. Iwats., *comb. nov.***

Based on *Trichomanes* L. subg. *Pleuromanes* C. Presl (1849) 17. — *Pleuromanes* (C. Presl) C. Presl (1849) 258. — *Crepidomanes* (C. Presl) C. Presl subg. *Pleuromanes* (C. Presl) K. Iwats. (1984) 174. — Type: *Trichomanes acutum* C. Presl (1843) 42 (= *Hymenophyllum acutum* (C. Presl) Ebihara & K. Iwats., *comb. nov.*, non *Hymenophyllum acutum* Mett., nom. nud.).

*Craspedoneuron* Bosch (1861a) 322. — *Trichomanes* L. sect. *Craspedoneuron* (Bosch) Prantl (1875) 52. — Type: *Trichomanes album* Blume (= *Hymenophyllum pallidum* (Blume) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes pallidum* Blume (1828) 225]).

*Rhizomes* long-creeping, filiform, sparsely covered with whitish/yellowish hairs. *Stipes* to 12 cm long. *Blades* bi- to tripinnate, elliptic to subdeltate, 35 by 6 cm, covered with whitish/yellowish multicellular hairs or almost glabrous, margins of segments entire. *Sori* at the tips of ultimate segments, lips slightly to distinctly bivalvate, entire, receptacles included or slightly exerted from involucre.

Distribution — Old World tropics, especially in the Pacific region; 5 species.

Habitat — Epiphytic on tree trunks (including tree ferns).

Chromosome base number —  $x = 36$ .

Note — This subgenus contains *H. flabellatum* plus its local forms and *Pleuromanes*, formerly considered a member of *Trichomanes* s.l.; it also corresponds to ‘*H. flabellatum* clade’ in Hennequin et al. (in press).

REPRESENTATIVE SPECIES:

*Hymenophyllum acutum* (C. Presl) Ebihara & K. Iwats.; *H. flabellatum* Labill.; *H. leratii* Rosenst.; *H. pallidum* (Blume) Ebihara & K. Iwats.; *H. rufescens* Kirk.

**6. Subgenus *Myrmecostylum* (C. Presl) Ebihara & K. Iwats., *comb. nov.***

Based on *Myrmecostylum* C. Presl (1843) 27, t. X, f. A. — *Hymenophyllum* Sm. sect. *Myrmecostylum* (C. Presl) C. Chr. (1906) XVI. — Lectotype: *Myrmecostylum tortuosum* (Hook. & Grev.) C. Presl (= *Hymenophyllum tortuosum* Hook. & Grev.) (selected by Christensen (1906) XVI).

*Ptychophyllum* C. Presl (1843) 28, t. XI, f. E. — *Hymenophyllum* Sm. sect. *Ptychophyllum* (C. Presl) C. Chr. (1906) XVI. — Type: *Ptychophyllum plicatum* (Kaulf.) C. Presl (= *Hymenophyllum plicatum* Kaulf.).

*Tetralasma* Phil. (1860) 208. — Type: *Hymenophyllum quadrifidum* Phil. (= *Hymenophyllum plicatum* Kaulf.), no generic combination has been made for this genus.

*Rhizomes* long-creeping, filiform to wiry, sparsely covered with thick-walled hairs. *Stipes* to 15 cm long. *Blades* pinnatifid to quadripinnate, elliptic to subdeltate, 55 by 14 cm, margins of segments entire or serrate. *Sori* at the tips of ultimate segments, lips bivalvate, entire or serrate, receptacles included in involucre.

Distribution — Southern Chile, New Zealand and New Caledonia; at least 8 species are known.

Habitat — Epiphytic on tree trunks, occasionally terrestrial.

Chromosome base number —  $x = 36$ .

Note — This subgenus corresponds to the '*H. sanguinolentum* clade' in Hennequin et al. (in press), and is characterized by brown multicellular hairs on the stipes or blade margins, or alternatively by dentate blade margins. In exceptional cases, *H. sanguinolentum* has nearly glabrous fronds, almost indistinguishable from *H. polyanthos* – but containing of oils that make an impression of the blades on the mounting paper; this feature is a characteristic of this group.

REPRESENTATIVE SPECIES:

*Hymenophyllum krauseanum* Phil.; *H. magellanicum* (Desv.) Willd.; *H. paninese* Ebihara & K. Iwats.; *H. plicatum* Kaulf.; *H. sanguinolentum* (G. Forst.) Sw.; *H. scabrum* A. Rich.; *H. tortuosum* Hook. & Grev.; *H. villosum* Colenso.

### 7. Subgenus **Hymenoglossum** (C. Presl) R.M. Tryon & A.F. Tryon

*Hymenophyllum* Sm. subg. *Hymenoglossum* (C. Presl) R.M. Tryon & A.F. Tryon (1981) 134. — *Hymenoglossum* C. Presl (1843) 35. — *Hymenophyllum* Sm. sect. *Hymenoglossum* (C. Presl) T. Moore (1857) cxii. — Type: *Hymenoglossum cruentum* (Cav.) C. Presl (= *Hymenophyllum cruentum* Cav.).

*Hymenophyllum* Sm. sect. *Integra* C. Presl (1843) 32. — Lectotype: *Hymenophyllum asplenoides* Sw. (selected by Morton (1968) 172).

*Rhizomes* long-creeping, filiform, nearly glabrous. *Stipes* 7–15 cm long. *Blades* simple to pinnatifid, ovate to narrowly ovate, 15 by 4 cm, margins of segments entire. *Sori* at the frond margins, slightly immersed in the laminae, lips bivalvate, entire, receptacles included in involucre.

Distribution — Central to South America and Madagascar; 3 species known.

Habitat — Epiphytic on tree trunks.

Chromosome base number —  $x = 36?$

Note — Hennequin et al. (in press) revealed that *H. heimii* of Madagascar probably has a sister relationship to *H. cruentum* of southern Chile (formerly treated as a monotypic genus, *Hymenoglossum*). A Central-South American species, *H. asplenoides*, is also placed here because of its morphological resemblance to the two species above.

REPRESENTATIVE SPECIES:

*Hymenophyllum asplenoides* Sw.; *H. cruentum* Cav.; *H. heimii* Tardieu.

### 8. Subgenus **Fuciformia** Ebihara & K. Iwats., *subg. nov.*

A subgenere *Globosa* rhizomatibus brevibus et erectis differt.

Based on *Hymenophyllum* Sm. sect. *Fuciformia* H. Christ (1897) 20, nom. nud. — Type: *Hymenophyllum fuciforme* Sw.

*Rhizomes* erect or short-creeping, thick, densely covered with reddish hairs. *Stipes* 3–15 cm long. *Blades* tri- to quadripinnate, ovate to narrowly ovate, 65 by 15 cm, margins of segments entire. *Sori* at the tips of ultimate segments, lips bivalvate, entire or wavy, receptacles included or slightly extruded from involucre.



Distribution — Southern temperate regions (Chile and New Zealand); 2 species.

Chromosome base number —  $x = 36$ .

Habitat — Epiphytic, epilithic or terrestrial.

Note — This subgenus comprises only two species having tufted rhizomes, an exceptional feature in *Hymenophyllum*. Evidence suggests that these two species, which are disjunctly distributed in southern Chile and New Zealand, form a monophyletic group (Hennequin et al., in press).

REPRESENTATIVE SPECIES:

*Hymenophyllum fuciforme* Sw.; *H. pulcherrimum* Colenso.

### 9. Subgenus **Diploöphyllum** (Bosch) Ebihara & K. Iwats., *comb. nov.*

Based on *Diploöphyllum* Bosch (1861a) 322, non *Diplophyllum* (Dumort.) Dumort. (1835) 15, nom. cons., ICBN 2000. — *Hymenophyllum* Sm. sect. *Diploöphyllum* C. Chr. (1906) XV. — *Hymenophyllum* Sm. subsect. *Diploöphyllum* (C. Chr.) C.V. Morton (1968) 174, as '*Diplophyllum*'. — Lectotype and sole species (in the present treatment): *Hymenophyllum dilatatum* (G. Forst.) Sw. (selected by Christensen (1906) XV).

*Rhizomes* long-creeping, wiry, sparsely covered with dark hairs. *Stipes* 2–15 cm long. *Blades* tri- to quadripinnate, ovate or narrowly ovate, 55 by 15 cm, laminae more than two cells thick, margins of segments entire. *Sori* at the tips of ultimate segments, lips bivalvate, entire, receptacles included in involucre.

Distribution — New Zealand, monotypic.

Habitat — Epiphytic on tree trunks.

Chromosome base number —  $x = 36$ .

Note — This monotypic subgenus is characterized by multilayered laminar cells throughout its blades and long-creeping rhizomes. Molecular data (Hennequin et al., in press) suggest this is closely related to the subgenera *Fuciformia* and *Cardiomanes*. Van den Bosch's (1861a) original spelling of this taxon was *Diploöphyllum*, neither '*Diploophyllum*' as used by Copeland (1938b) nor '*Diplophyllum*' by Morton (1968), and its inclusion of a diacritical sign as a diaeresis is legitimate in the latest Code (Greuter et al., 2000, Art. 60.6).

### 10. Subgenus **Cardiomanes** (C. Presl) Ebihara & K. Iwats., *comb. nov.*

Based on *Cardiomanes* C. Presl (1843) 12. — *Trichomanes* L. subg. *Cardiomanes* (C. Presl) H. Christ (1897) 33. — Type and sole species: *Trichomanes reniforme* G. Forst. (1786) 84 (= *Hymenophyllum nephrophyllum* Ebihara & K. Iwats., *nom. nov.* = *Cardiomanes reniforme* (G. Forst.) C. Presl, non *Hymenophyllum reniforme* Hook.).

*Rhizomes* long-creeping, wiry, sparsely covered with dark hairs. *Stipes* 5–25 cm long. *Blades* simple, kidney-shaped, 35 by 13 cm, laminae more than two cells thick, margins of segments entire. *Sori* at the blade margins, tubular, lips entire, receptacles exerted from involucre.

Distribution — New Zealand, monotypic.

Habitat — Epiphytic.

Chromosome base number —  $x = 36$ .

Note — One of the most distinct subgenera of *Hymenophyllum* (formerly included in *Trichomanes* s.l. due to its cup-shaped involucre). A replacement name is necessary when *Cardiomanes reniforme* is moved to *Hymenophyllum*.

## 2. DIDYMOGLOSSUM

*Didymoglossum* Desv. (1827) 330. — *Trichomanes* L. sect. *Didymoglossum* (Desv.) T. Moore (1857) cx. — *Trichomanes* L. subg. *Didymoglossum* (Desv.) C. Chr. (1906) XIV. — Lectotype: *Didymoglossum muscoides* (Sw.) Desv. (= *Didymoglossum hymenoides* (Hedw.) Copel.) (selected by Christensen (1906) XIV, as '*Trichomanes hymenoides* Hedw.').

Distribution — Throughout the tropics; more than 30 species.

Chromosome base number —  $x = 34$ .

Note — Corresponding to the Di clade in Ebihara et al. (submitted), and also to Morton's (1968) *Trichomanes* subgenus *Didymoglossum*. This genus contains three genera sensu Copeland (1938b): *Didymoglossum*, *Microgonium* and *Lecanium* (*Lecanolepis*). All species in *Didymoglossum* are dwarf epiphytes, mainly in tropical regions, and false veinlets are present. Though both Copeland (1938b) and Morton (1968) used the presence of marginal setae as the primary character to distinguish *Microgonium* from *Didymoglossum*, there was evidently secondary loss of marginal hairs in some '*Microgonium*' species (Ebihara et al., submitted). Therefore, submarginal false veinlets stand as the primary character to separate the two subgenera.

### KEY TO THE SUBGENERA

- 1a. Submarginal false veinlets absent . . . . . **1. Subg. *Didymoglossum***  
 b. Submarginal false veinlets present . . . . . **2. Subg. *Microgonium***

### 1. Subgenus *Didymoglossum*

*Hemiphlebium* C. Presl sect. *Lecanium* Prantl (1875) 46, based on *Lecanium* C. Presl (1843) 11, t. I, nom. illeg., non Reinw. (1825) 48. — *Trichomanes* L. sect. *Lecanium* (Prantl) H. Christ (1897) 25. — *Lecanolepis* Pic.Serm. (1973) 449. — Type: *Lecanium membranaceum* (L.) C. Presl (= *Didymoglossum membranaceum* (L.) Vareschi).

*Didymoglossum* Desv. sect. *Flabellata* C. Presl (1843) 23. — Lectotype: *Didymoglossum sphenoides* (Kunze) C. Presl (= *Didymoglossum punctatum* (Poir.) Desv.) (selected by Morton (1968) 191).

*Didymoglossum* Desv. sect. *Pinnata* C. Presl (1843) 23. — Lectotype: *Didymoglossum muscoides* (Sw.) Desv. (= *Didymoglossum hymenoides* (Hedw.) Copel.) (selected by Morton (1968) 191).

*Hemiphlebium* C. Presl (1843) 25, t. IX. — *Trichomanes* L. sect. *Hemiphlebium* (C. Presl) T. Moore (1857) cx. — *Trichomanes* L. subg. *Hemiphlebium* (C. Presl) H. Christ (1897) 23. — Type: *Hemiphlebium pusillum* (Sw.) C. Presl (= *Didymoglossum pusillum* (Sw.) Desv.).

*Rhizomes* long-creeping, frequently branching, usually filiform, to 0.5 mm diam., densely covered with dark-coloured hairs, protosteles collateral to regressed, cortex petiole-like, roots absent, root-like shoots present (sensu Schneider, 2000). *Stipes* often quite reduced, up to 1 cm, at a distance from the adjacent ones. *Blades* usually simple, or sometimes lobed to pinnatifid, elliptic to narrowly ovate, 6 by 6 cm, venation catadromous, often flabelliform, submarginal false veinlets absent, longitudinal false veinlets parallel to the true veins present, internal cell walls thin and straight, setae or scale-like projections sometimes. *Sori* epitactic or pantotactic, often immersed in the laminae, campanulate, lips bilabiate or occasionally truncate, often dark-margined, receptacles exserted.

Distribution — Throughout the tropics, mainly in the New World; more than 20 species.

Habitat — Epilithic or low-epiphytic.

Note — Corresponding to the Le subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

**New combinations:**

*Didymoglossum hildebrandtii* (Kuhn) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes hildebrandtii* Kuhn (1879) 70]; *D. lorencei* (Tardieu) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes lorencei* Tardieu (1977) 147]; *D. motleyi* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes motleyi* Bosch (1861b) 145]; *D. sublimbatum* (Müll. Berol.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes sublimbatum* Müll. Berol. (1854) 737]; *D. tahitense* (Nadeaud) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes tahitense* Nadeaud (1873) 18].

**Other species:**

*Didymoglossum angustifrons* Fée; *D. curtii* (Rosenst.) Pic. Serm.; *D. exiguum* (Bedd.) Copel.; *D. gourlianum* (Grev. ex J. Sm.) Pic. Serm.; *D. hymenoides* (Hedw.) Copel.; *D. krausii* (Hook. & Grev.) C. Presl; *D. liberianse* (Copel.) Copel.; *D. lineolatum* Bosch; *D. melanopus* (Baker) Copel.; *D. membranaceum* (L.) Vareschi; *D. nummularium* Bosch; *D. ovale* E. Fourn.; *D. petersii* (A. Gray) Copel.; *D. pinnatinerviium* (Jenman) Pic. Serm.; *D. punctatum* (Poir.) Desv.; *D. pusillum* (Sw.) Desv.; *D. reptans* (Sw.) C. Presl; *D. rhipidophyllum* (Sloss.) Pic. Serm.

**2. Subgenus *Microgonium* (C. Presl) Ebihara & K. Iwats., *comb. nov.***

Based on *Microgonium* C. Presl (1843) 19, t. VI, f. A, B. — *Hemiphegium* C. Presl sect. *Microgonium* (C. Presl) Prantl (1875) 46. — *Trichomanes* L. sect. *Microgonium* (C. Presl) H. Christ (1897) 24. — Lectotype: *Microgonium cuspidatum* (Willd.) C. Presl (= *Didymoglossum cuspidatum* (Willd.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes cuspidatum* Willd. (1810) 499]) (selected by Christensen (1906) XIV).

*Rhizomes* long-creeping, frequently branching, filiform, to 0.5 mm diam., densely covered with dark hairs, protostele collateral to regressed (see Ebihara et al., submitted), cortex petiole-like, roots absent, root-like shoots present. *Stipes* often quite reduced, to 1 cm, at a distance from the adjacent ones. *Blades* usually simple, or sometimes lobed to pinnatifid, elliptic to narrowly ovate, 3 by 2 cm, venation catadromous, continuous submarginal false veinlets present, longitudinal false veinlets parallel to the true veins present, internal cell walls thin and straight, margins entire and glabrous. *Sori* epitactic or pantotactic, often immersed in the laminae, tubular, lips often dilate, receptacles exerted.

Distribution — Throughout the tropics, mainly in the Old World; more than 10 species.

Habitat — Epilithic or low-epiphytic.

Note — Corresponding to the Mg subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

**New combinations:**

*Didymoglossum bimarginatum* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Microgonium bimarginatum* Bosch (1861b) 143]; *D. ekmanii* (Wess. Boer) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes ekmanii* Wess. Boer (1962) 319, f. 33a, b]; *D. godmanii* (Hook.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes godmanii* Hook. in Baker (1866) 337, t. 8, f. A]; *D. kappelerianum* (Sturm) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes kappelerianum* Sturm in Martius (1859) 276]; *D. kirkii* (Hook.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes kirkii* Hook. in Hook. & Baker (1867) 78]; *D. lenormandii* (Bosch) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes lenormandii* Bosch (1861b) 144]; *D. mindorense* (H. Christ) K. Iwats., *comb. nov.* [based on *Trichomanes mindorense* H. Christ (1908a) 270]; *D. pygmaeum* (C. Chr.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes pygmaeum* C. Chr. (1920) 10, f. 2]; *D. sinuatum* (Bonap.)

Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes sinuatum* Bonap. (1920) 25]; *D. wesselsboeri* Ebihara & Dubuisson, *nom. nov.* [based on *Trichomanes hookeri* C. Presl (1843) 16, non *Didymoglossum hookeri* C. Presl].

**Other species:**

*Didymoglossum cuspidatum* (Willd.) Ebihara & Dubuisson.

### 3. CREPIDOMANES

*Crepidomanes* (C. Presl) C. Presl (1849) 258. — *Trichomanes* L. subg. *Crepidomanes* C. Presl (1849) 17. — *Trichomanes* L. sect. *Crepidomanes* (C. Presl) Prantl (1875) 51. — Type: *Trichomanes intramarginale* Hook. & Grev. (= *Crepidomanes intramarginale* (Hook. & Grev.) C. Presl).

Distribution — Throughout the Old World tropics to northern temperate regions; more than 30 species.

Chromosome base number —  $x = 36$ .

Note — This genus corresponds to the PT clade in Ebihara et al. (submitted), and also to Copeland's (1938b) genera *Crepidomanes*, *Gonocormus*, *Crepidopteris* (*Reediella*) p.p., *Vandenboschia* p.p. and *Microtrichomanes* p.p. Copeland's (1938b) genera *Crepidomanes* and *Gonocormus* are placed here, and a part of *Crepidopteris*, *Vandenboschia* and *Microtrichomanes* are also included. Most species of *Crepidomanes* are epiphytes, mainly in rain forests of the Paleotropics; however, *Nesopteris*, with a short, erect rhizomes, is also included here.

#### KEY TO THE SUBGENERA AND SECTIONS

- 1a. Fronds smaller, less than 15 cm long . . . . . 2
- b. Fronds larger, more than 15 cm long . . . . . **2. Subg. Nesopteris**
- 2a. Elongate marginal cells present in laminae . . . . . **1c. Subg. Crepidomanes sect. Crepidium**
- b. Elongate marginal cells absent in laminae . . . . . 3
- 3a. Proliferation present on stipes . . . . . **1b. Subg. Crepidomanes sect. Gonocormus**
- b. Proliferations absent on stipes . . . . . 4
- 4a. Blades flabellate. . . . . **1b. Subg. Crepidomanes sect. Gonocormus**
- b. Blades pinnate . . . . . **1a. Subg. Crepidomanes sect. Crepidomanes**

#### 1. Subgenus **Crepidomanes**

Distribution — Throughout the Paleotropics.

Note — Corresponding to the Cr subclade in Ebihara et al. (submitted). Three sections are recognized in this subgenus.

#### 1a. Section **Crepidomanes**

*Trichomanes* L. subg. *Minora* Prantl (1875) 51. — Lectotype: *Trichomanes intramarginale* Hook. & Grev. (= *Crepidomanes intramarginale* (Hook. & Grev.) Copel.) (selected by Morton (1968) 181).

*Trichomanes* L. sect. *Taschneria* C. Presl ex C. Chr. (1906) XV, based on *Taschneria* C. Presl (1849) 258, *nom. nud.* — *Crepidomanes* (C. Presl) C. Presl sect. *Taschneria* (C. Presl ex C. Chr.) K. Iwats. (1984) 175. — Type: *Trichomanes filicula* Bory ex Willd. (= *Crepidomanes bipunctatum* (Poir.) Copel.).

*Rhizomes* long-creeping, frequently branching, filiform, 0.1–0.5 mm diam., densely covered with dark hairs, protostele subcollateral, cortex with centrifuge sclerification, roots absent, root-like shoots present. *Stipes* sometimes reduced, or to 8 cm long, at a distance from the adjacent ones. *Blades* simple to quadripinnatifid, elliptic to subdeltate, 12 by 6 cm, venation anadromous, false veinlets often present, submarginally (continuous or interrupted) and/or parallel (but not connected) to true veins, laminae almost always one cell thick, exceptionally thicker (*C. intramarginale*), internal cell walls thin and straight. *Sori* paratactic, tubular, lips usually bilabiate, often deltate, sometimes dilate, receptacles exserted.

Distribution — Throughout the Paleotropics; more than 20 species.

Habitat — Usually epilithic on wet rocks along streams, sometimes epiphytic on tree trunks.

Note — *Crepidomanes* in the strict sense contains only those species that have false veinlets, but recent study (Ebihara et al., submitted) has shown that some species lacking false veinlets (formerly placed under *Vandenboschia* by Copeland) are closely related to species that have them and/or are nested in a clade consisting of species with false veinlets.

REPRESENTATIVE SPECIES:

**New combinations:**

*Crepidomanes africanum* (H. Christ) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes africanum* H. Christ (1909a) 21]; *C. chevalieri* (H. Christ) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes chevalieri* H. Christ (1908b) 106]; *C. draytonianum* (Brack.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes draytonianum* Brack. (1854) 252, pl. 36, f. 3]; *C. fallax* (H. Christ) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes fallax* H. Christ (1909b) 24]; *C. mettenii* (C. Chr.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes mettenii* C. Chr. (1906) 644].

**Other species:**

*Crepidomanes barnardianum* (F.M. Bailey) Tindale; *C. bipunctatum* (Poir.) Copel.; *C. christii* (Copel.) Copel.; *C. clarenceanum* (F. Ballard) Pic. Serm.; *C. frappieri* (Cordem.) J.P. Roux; *C. inopinatum* (Pic. Serm.) J.P. Roux; *C. intramarginale* (Hook. & Grev.) Copel.; *C. kurzii* (Bedd.) Tagawa & K. Iwats.; *C. latealatum* (Bosch) Copel.; *C. latemarginale* (D.C. Eaton) Copel.; *C. melanotrichum* (Schltdl.) J.P. Roux; *C. rupicolum* (Racib.) Copel.; *C. schmidtianum* (Zenker ex Taschner) K. Iwats.; *C. vitiense* (Baker) Bostock.

**1b. Section *Gonocormus* (Bosch) K. Iwats.**

*Crepidomanes* (C. Presl) C. Presl sect. *Gonocormus* (Bosch) K. Iwats. (1984) 174. — *Gonocormus* Bosch (1861a) 321. — *Trichomanes* L. sect. *Gonocormus* (Bosch) H. Christ (1897) 27. — *Trichomanes* L. subg. *Gonocormus* (Bosch) C. Chr. (1906) XIV. — Lectotype: *Gonocormus prolifer* (Blume) Prantl (= *Crepidomanes minutum* (Blume) K. Iwats.) (selected by Christensen (1906) XIV).

*Rhizomes* long-creeping, frequently branching, filiform, c. 0.15 mm diam., covered with dark brown hairs or glabrescent, protostele subcollateral, cortex with centrifugal sclerification, roots absent, root-like shoots present. *Stipes* very short, or to 3 cm long, at a distance from the adjacent ones, proliferations often observed. *Blades* simple to quadripinnatifid, flabellate to narrowly ovate, 12 by 3 cm, venation anadromous, false veinlets absent, internal cell walls thin and straight. *Sori* paratactic or pantotactic, campanulate, lips dilate, receptacles long-exserted.



Distribution — Throughout the Paleotropics; 1 polymorphic species, *Crepidomanes minutum* (Blume) K. Iwats., is recognized here.

Habitat — Epilithic or epiphytic on tree trunks.

Note — The single species ranges from Africa to the Pacific according to Yoroi & Iwatsuki (1977). There is much genetic variation in the *rbcL* sequences of this species from various localities, but it corresponds neither to morphological features nor to geographical distribution (A. Ebihara, unpublished data). Further studies are needed.

### 1c. Section **Crepidium** (C. Presl) Ebihara & K. Iwats., *comb. nov.*

Based on *Didymoglossum* Desv. subg. *Crepidium* C. Presl (1843) 23. — *Trichomanes* L. sect. *Crepidium* (C. Presl) C. Chr. (1906) XV. — *Crepidopteris* Copel. (1938b) 57, nom. illeg., non Benth. (1862). — *Crepidophyllum* C.F. Reed (1948) 88, nom. illeg., non Herzog (1926) 356. — *Reediella* Pic.Serm. (1970) 719. — *Crepidomanes* (C. Presl) C. Presl subg. *Crepidium* (C. Presl) K. Iwats. (1984) 174. — Type: *Didymoglossum humile* (G. Forst.) C. Presl (= *Crepidomanes humile* (G. Forst.) Bosch).

*Rhizomes* long-creeping, frequently branching, filiform, 0.3–0.4 mm diam., densely covered with dark brown or blackish hairs, protosteles subcollateral, cortex with centrifugal sclerification, roots absent, root-like shoots present. *Stipes* 0.2–1.2 cm long, at a distance from the adjacent ones. *Blades* bipinnatifid to tripinnatifid, ovate to narrowly ovate, 1–8 by 2–3 cm wide, venation anadromous, double rows of elongate marginal cells present, false veinlets absent, internal cell walls thin and straight. *Sori* paratactic, tubular, lips dilate, receptacles long-exserted.

Distribution — Old World tropics (Asia to Pacific); at least 1 species, *Crepidomanes humile* (G. Forst.) Bosch.

Habitat — Epilithic or low-epiphytic.

Note — *Crepidium* (*Reediella*), a group characterized by marginal elongated cell rows, has been shown to be an unnatural group (Ebihara et al., submitted) – species having single rows of elongated cells are attributed to another genus, *Polyphlebium*, in the present system. As a result, this section contains only *C. humile*.

### 2. Subgenus **Nesopteris** (Copel.) Ebihara & K. Iwats., *comb. nov.*

Based on *Nesopteris* Copel. (1938b) 65. — *Trichomanes* L. sect. *Nesopteris* (Copel.) C.V. Morton (1968) 190. — *Cephalomanes* C. Presl subg. *Nesopteris* (Copel.) K. Iwats. (1984) 176. — Type: *Nesopteris grandis* (Copel.) Copel. (= *Crepidomanes grande* (Copel.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes grande* Copel. (1911) 70]).

*Rhizomes* suberect, ascending or long-creeping, quite thick, 2.8–3.5 mm diam., densely covered with dark hairs, protosteles massive, cortex homogeneous, roots numerous and robust. *Stipes* to 25 cm long, very close to each other except in *C. aphlebioides*. *Blades* 4- or 5-pinnate, elliptic to narrowly ovate, 15–50(–70) by 10–20(–25) cm, venation anadromous, false veinlets absent, internal cell walls thin and straight. *Sori* paratactic, tubular, lips often dilate, receptacles long-exert.

Distribution — Old World tropics (Asia to Pacific); at least 4 species.

Habitat — Terrestrial or epilithic, occasionally climbing tree trunks.

Note — Large fronds and stout rhizomes observed in members of this subgenus are apparently quite different from those of subgenus *Crepidomanes*. Our study (Ebihara

et al., submitted) revealed that the erect rhizomes of the *Nesopteris* species are probably the result of an exceptional evolution from creeping rhizomes to erect ones, which is in the direction opposite to the evolutionary trait of Hymenophyllaceae. We assume that *C. aphlebioides*, the only species of this subgenus having long-creeping rhizomes, is transitional between the two subgenera.

REPRESENTATIVE SPECIES:

**New combinations:**

*Crepidomanes intermedium* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes intermedium* Bosch (1861b) 179]; *C. thysanostomum* (Makino) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes thysanostomum* Makino (1899) 46].

**Other species:**

*Crepidomanes aphlebioides* (H. Christ) I.M. Turner; *C. grande* (Copel.) Ebihara & K. Iwats.

#### 4. POLYPHLEBIUM

*Polyphlebium* Copel. (1938b) 55. — *Phlebiophyllum* Bosch (1861a) 321, non *Phlebophyllum* Nees in Wallich (1832) 75, 102. — *Trichomanes* L. sect. *Phlebiophyllum* (Bosch) Prantl (1875) 52. — *Trichomanes* L. subg. *Polyphlebium* (Copel.) Allan (1961) 34. — Type: *Polyphlebium venosum* (R.Br.) Copel.

*Rhizomes* long-creeping, frequently branching, filiform, 0.1–0.8 mm diam., densely covered with light brown hairs, protostele subcollateral, cortex with centrifuge sclerification, roots few and fine. *Stipes* 0.3–5.5 cm long, at a distance from the adjacent ones. *Blades* pinnate to quadripinnate, ovate to narrowly ovate, 30 by 6.5 cm, venation anadromous, sometimes a single row of elongate marginal cells present, false veinlets absent, internal cell walls thin and straight. *Sori* paratactic, tubular, lips usually dilate, receptacle long-exserted.

Distribution — Temperate regions of the southern hemisphere, and mountain forests of low altitude regions; c. 15 species.

Habitat — Epilithic on wet rocks or epiphytic on tree-fern trunks.

Chromosome base number —  $x = 36$ .

Note — Corresponding to the Tp clade in Ebihara et al. (submitted). Though constituents of this genus have so far been confused with those of *Crepidomanes* and *Vandenboschia* of the present system, their stem and root features well differentiate them from the others.

REPRESENTATIVE SPECIES:

**New combinations:**

*Polyphlebium angustatum* (Carmich.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes angustatum* Carmich. (1818) 513]; *P. borbonicum* (Bosch) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes borbonicum* Bosch (1861b) 158]; *P. capillaceum* (L.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes capillaceum* L. (1753) 1099]; *P. colensoi* (Hook.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes colensoi* Hook. (1854) t. 979]; *P. diaphanum* (Kunth) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes diaphanum* Kunth (1815) 25]; *P. endlicherianum* (C. Presl) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes endlicherianum* C. Presl (1848) 333]; *P. exsectum* (Kunze) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes exsectum* Kunze (1837) 47, t. 29, f. 2]; *P. hymenophylloides* (Bosch) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes hymenophylloides* Bosch (1863) 209]; *P. ingae* (C. Chr.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes ingae* C. Chr. in C. Chr. & Skottsb. (1920) 3, f. 2]; *P. philippianum* (Sturm) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes philippianum* Sturm (1858) 188]; *P. pyxidi-*

*ferum* (L.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes pyxidiferum* L. (1753) 1098]; *P. vieillardii* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes vieillardii* Bosch (1861c) 90]; *P. wernerii* (Rosenst.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes wernerii* Rosenst. (1908a) 35].

**Other species:**

*Polyphlebium venosum* (R.Br.) Copel.

## 5. VANDENBOSCHIA

*Vandenboschia* Copel. (1938b) 51. — *Trichomanes* L. subg. *Vandenboschia* (Copel.) Allan (1961) 34. — Type: *Vandenboschia radicans* (Sw.) Copel.

Distribution — Throughout the tropics, extending to northern temperate regions; more than 15 species.

Habitat — Hemi-epiphytic on tree trunks or epilithic, occasionally terrestrial.

Chromosome base number —  $x = 36$ .

Note — Corresponding to the Va clade in Ebihara et al. (submitted). Our molecular analysis shows Copeland's genus *Vandenboschia* evidently of polyphyletic origin — he included species of at least four different lineages (the Va, Po, PT, NT clades in Ebihara et al., submitted). *Vandenboschia*, in the present system, refers to *V. radicans*, type of *Vandenboschia*, and its relatives. Nakaike (1975) advocated the application of the generic name *Lacosteopsis* instead of *Vandenboschia* on the grounds that *Vandenboschia* was an invalid generic name since Copeland (1938b) included the type of an existing genus (*T. scandens*) when he established *Vandenboschia* (T. Nakaike, pers. comm.). This confusion was attributed to the controversial typification of *Trichomanes* as noted above. Recent nomenclatural conservation of *T. crispum* against *T. scandens* (Greuter et al., 2000) denied the claim that *Vandenboschia* is an illegitimate name (Morton, 1968; Holttum, 1976).

### KEY TO THE SUBGENERA

- 1a. Blades bipinnate or more finely divided, hemi-epiphytic or epilithic . . . . .  
 . . . . . **1. Subg. *Vandenboschia***  
 b. Blades simply pinnate, hemi-epiphytic . . . . . **2. Subg. *Lacosteopsis***

#### 1. Subgenus *Vandenboschia*

*Rhizomes* short- or long-creeping, irregularly branching, rather thick, to 1.7 mm diam., densely covered with brown to bright brown multicellular hairs, protostele reduced, cortex heterogeneous, roots numerous and robust. *Stipes* 1–16 cm long, clustered or irregularly distanced. *Blades* bipinnate to 5-pinnatifid, ovate to linear-ovate, 40 by 20 cm, venation anadromous, false veinlets absent, laminae often reduced, regular arrangement of elongate cells observed in some species, internal cell walls various (thin to thick, straight to coarsely pitted). *Sori* paratactic, tubular to campanulate, lips sometimes dilate, receptacles long-exserted.

Distribution — Throughout the tropics, extending to northern temperate regions; more than 15 species.

Habitat — Terrestrial in humid places, or epiphytic on tree trunks including tree ferns.

REPRESENTATIVE SPECIES:

**New combinations:**

*Vandenboschia boschiana* (Sturm ex Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes boschianum* Sturm ex Bosch (1861b) 160]; *V. collariata* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes collariatum* Bosch (1859) 368]; *V. gigantea* (Bory ex Willd.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes giganteum* Bory ex Willd. (1810) 514].

**Other species:**

*Vandenboschia birmanica* (Bedd.) Ching; *V. cyrtotheca* (Hillebr.) Copel.; *V. davallioides* (Gaudich.) Copel.; *V. johnstonensis* (F.M. Bailey) Copel.; *V. liukuensis* (Y. Yabe) Copel.; *V. maxima* (Blume) Copel.; *V. radicans* (Sw.) Copel.; *V. speciosa* (Willd.) G. Kunkel; *V. subclathrata* K. Iwats.

**2. Subgenus *Lacosteopsis* (Prantl) Ebihara & K. Iwats., *comb. nov.***

Based on *Trichomanes* L. sect. *Lacosteopsis* Prantl (1875) 53. — *Lacosteopsis* (Prantl) Nakaike (1975) 21. — Lectotype: *Trichomanes luschnatianum* C. Presl (= *Vandenboschia rupestris* Ebihara & K. Iwats., *comb. nov.* [based on *Hymenophyllum rupestre* Raddi (1825) 67, t. 80]) (selected by Christensen (1906) XV, as *Trichomanes rupestre* (Raddi) Bosch).

*Rhizomes* suberect, or short- to long-creeping, irregularly branching, wiry, densely covered with brown to bright brown multicellular hairs, or nearly glabrous in climbing parts, protosteles reduced, cortex heterogeneous, roots numerous and robust at the terrestrial parts. *Stipes* 1–16 cm long, clustered or irregularly distanced. *Blades* usually pinnate, narrowly elliptic to linear-ovate, 50 by 6 cm, venation anadromous, false veinlets absent, laminae often reduced, regular arrangement of elongated cells observed in some species, internal cell walls various (thin to thick, straight to coarsely pitted). *Sori* paratactic, tubular to campanulate, lips sometimes dilate, receptacles long-exserted.

Distribution — Both New World and Old World tropics (excl. Africa); at least 2 species.

Habitat — Hemi-epiphytic, climbing on tree trunks.

REPRESENTATIVE SPECIES:

*Vandenboschia auriculata* (Blume) Copel.; *V. rupestris* (Raddi) Ebihara & K. Iwats.

**6. ABRODICTYUM**

*Abrodictyum* C. Presl (1843) 20, t. VII. — *Trichomanes* L. sect. *Abrodictyum* (C. Presl) T. Moore (1857) ex. — *Cephalomanes* C. Presl subg. *Abrodictyum* (C. Presl) K. Iwats. (1984) 176. — *Habrodictyon* C. Presl ex Bosch (1861a) 321. — Type: *Abrodictyum cumingii* C. Presl.

Distribution — Throughout the tropics; c. 25 species.

Chromosome base number —  $x = 33$  (a few doubtful records  $x = 36$ ).

Note — Corresponding to the Pa clade in Ebihara et al. (submitted). Circumscription of this genus is very similar to Morton's subgenus *Pachychaetum* except for the inclusion of *Abrodictyum* and the exclusion of *Davalliopsis*. Dissected fronds consisting primarily of the axis (lacking laminar cells) is a unique character observed in some species of this genus, but according to molecular results such fronds evolved several times in parallel within this genus.

## KEY TO THE SUBGENERA

- 1a. Distribution in Asia/Pacific . . . . . 2  
 b. Distribution in Africa/America . . . . . **2. Subg. Pachychaetum**  
 2a. Rhizomes long-creeping . . . . . **1. Subg. Abrodictyum**  
 b. Rhizomes erect or short-creeping . . . . . 3  
 3a. Lamina texture membranous . . . . . **1. Subg. Abrodictyum**  
 b. Lamina texture not membranous . . . . . **2. Subg. Pachychaetum**

**1. Subgenus Abrodictyum**

*Trichomanes* L. sect. *Leptomanes* Prantl (1875) 52, nom illeg.; one of the five original species, *Trichomanes smithii* Hook. (= *Abrodictyum cumingii* C. Presl), is also the type of *Trichomanes* L. sect. *Abrodictyum* (C. Presl) T. Moore (1857).

*Rhizomes* suberect, or short- to long-creeping, irregularly branching, rather thick, to 1.7 mm diam., densely covered with brown to bright brown multicellular hairs, proto-stele massive, cortex homogeneous, roots numerous and robust. *Stipes* 1–16 cm long, clustered or irregularly distanced. *Blades* bipinnate to 5-pinnatifid, narrowly ovate to linear-ovate, 40 by 6 cm, venation anadromous, false veinlets absent, laminae often reduced, regular arrangement of elongate cells observed in some species, internal cell walls various (thin to thick, straight to coarsely pitted). *Sori* paratactic, tubular to campanulate, lips sometimes dilate, receptacles long-exserted.

Distribution — Paleotropics (Asia to the Pacific); c. 15 species.

Habitat — Terrestrial in humid places, or epiphytic on tree trunks including tree ferns.

Note — Corresponding to the Ab clade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

**New combinations:**

*Abrodictyum asae-grayi* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes asae-grayi* Bosch (1861b) 180]; *A. brassii* (Croxall) Ebihara & K. Iwats., *comb. nov.* [based on *Macroglena brassii* Croxall (1975) 543]; *A. caudatum* (Brack.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes caudatum* Brack. (1854) 256, pl. 36, f. 5]; *A. clathratum* (Tagawa) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes clathratum* Tagawa (1939) 164]; *A. flavofuscum* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes flavofuscum* Bosch (1861c) 88]; *A. idoneum* (C.V. Morton) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes idoneum* C.V. Morton (1973) 272] (Old World plants formerly called '*T. gemmatum*' are this species, because *T. gemmatum* J. Sm. ex Baker was originally applied to a Neotropical plant (see Morton, 1973)); *A. pluma* (Hook.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes pluma* Hook. (1854) t. 997] (Asian plants formerly identified as '*T. meifolium*' are this species); *A. schlechteri* (Brause) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes schlechteri* Brause (1912) 10]; *A. strictum* (Menzies ex Hook. & Grev.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes strictum* Menzies ex Hook. & Grev. (1831) t. 122].

**Other species:**

*Abrodictyum boninense* Tagawa & K. Iwats.; *A. cumingii* C. Presl.

**2. Subgenus Pachychaetum** (C. Presl) Ebihara & K. Iwats., *comb. nov.*

Based on *Trichomanes* L. subg. *Pachychaetum* C. Presl (1843) 16. — *Cephalomanes* C. Presl subg. *Pachychaetum* (C. Presl) K. Iwats. (1984) 177. — Lectotype: *Trichomanes rigidum* Sw. (= *Abrodictyum rigidum* (Sw.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes rigidum* Sw. (1788) 137]) (selected by Christensen (1906) XV).



*Trichomanes* L. subg. *Macroglena* C. Presl (1848) 333. — *Macroglena* (C. Presl) Copel. (1938a) 49. — *Cephalomanes* C. Presl subg. *Macroglena* (C. Presl) K. Iwats. (1984) 176. — Lectotype: *Trichomanes meifolium* Bory ex Willd. (1810) 509 (= *Abrodictyum meifolium* (Bory ex Willd.) Ebihara & K. Iwats., *comb. nov.*) (selected by Christensen (1906) XV).

*Trichomanes* L. sect. *Selenodesmium* Prantl (1875) 53. — *Selenodesmium* (Prantl) Copel. (1938b) 80. — Lectotype: *Trichomanes rigidum* Sw. (= *Abrodictyum rigidum* (Sw.) Ebihara & Dubuisson) (selected by Christensen (1906) XV).

*Rhizomes* erect or short-creeping, quite thick, about 2 mm diam., covered with brown to blackish hairs, protostele massive, cortex homogeneous, roots numerous and robust. *Stipes* 7–15 cm long, clustered or more or less distanced. *Blades* bipinnate to quadripinnatifid, linear-ovate to subdeltate, 30 by 18 cm, venation anadromous, false veinlets absent, laminae reduced in some species, internal cell walls thick and coarsely pitted. *Sori* paratactic, tubular, lips truncate, receptacles long-exserted.

Distribution — Throughout the tropics; more than 10 species.

Habitat — Usually terrestrial in humid places, occasionally low-epiphytic.

Note — Corresponding to the Pa subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

**New combinations:**

*Abrodictyum cellulolum* (Klotzsch) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes cellulolum* Klotzsch (1844) 531]; *A. cupressoides* (Desv.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes cupressoides* Desv. (1827) 330]; *A. dentatum* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes dentatum* Bosch (1861b) 182]; *A. elongatum* (A. Cunn.) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes elongatum* A. Cunn. (1836) 368]; *A. kalimantanense* (K. Iwats. & M. Kato) Ebihara & K. Iwats., *comb. nov.* [based on *Macroglena kalimantanensis* K. Iwats. & M. Kato (1980) 31, f. 1]; *A. laetum* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes laetum* Bosch (1861c) 90]; *A. obscurum* (Blume) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes obscurum* Blume (1828) 227] (there are two varieties under this species: var. *obscurum* and var. *siamense* (H. Christ) K. Iwats., *comb. nov.* [based on *Trichomanes siamense* H. Christ (1901) 103]); *A. setaceum* (Bosch) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes setaceum* Bosch (1861b) 176]; *A. sprucei* (Baker) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes sprucei* Baker in Hook. & Baker (1867) 87]; *A. tamarisciforme* (Jacq.) Ebihara & Dubuisson, *comb. nov.* [based on *Trichomanes tamarisciforme* Jacq. (1789) 285, t. 21, f. 2].

**Other species:**

*Abrodictyum meifolium* (Bory ex Willd.) Ebihara & K. Iwats.; *A. rigidum* (Sw.) Ebihara & Dubuisson.

## 7. TRICHOMANES

*Trichomanes* L. (1753) 1097. — Type: *Trichomanes crispum* L., type. cons., ICBN 2000 (vs *Trichomanes scandens* L.).

Distribution — The Neotropics, and at least one species in continental Africa; more than 60 species. Unpublished molecular data suggest inclusion of a few other Paleotropical taxa (from Madagascar and the Indian Ocean), but further phylogenetic investigations are needed.

Chromosome base number —  $x = 32$  (a few doubtful records  $x = 36$ ).

Note — Corresponding to the NT clade in Ebihara et al. (submitted). Constituents of this genus include Morton's subgenus *Achomanes* and sect. *Davalliopsis* (placed under subg. *Pachychaetum*) along with *T. scandens* (placed under subg. *Trichomanes*). In

contrast to its long-term acceptance in New World floras, Morton's subgenus *Achomanes* shared few morphological characters other than geographical distribution and chromosome base number. Recent inclusion of *Davalliopsis* in this group (Dubuisson et al., 2003a; Ebihara et al, submitted) made it even more difficult to define morphologically. We therefore recognize four subgenera under this genus, which are easily definable. Monophyly of subgenus *Davalliopsis* and subg. *Lacostea* is clearly shown by our molecular analysis (as the Da subclade), but they are very different in most morphological features.

#### KEY TO THE SUBGENERA

- 1a. Lamina texture membranous, one cell thick . . . . . 2
- b. Lamina texture tough, more than one cell thick . . . . . 5
- 2a. Rhizomes short-creeping or erect . . . . . **1. Subg. *Trichomanes***
- b. Rhizomes long-creeping . . . . . 3
- 3a. Blades tripinnate or more finely divided . . . . . **1. Subg. *Trichomanes***
- b. Blades once-pinnate. . . . . 4
- 4a. Margins of blades hairy . . . . . **1. Subg. *Trichomanes***
- b. Margins of blades glabrous . . . . . **4. Subg. *Lacostea***
- 5a. Venation catadromous in sterile blades . . . . . **2. Subg. *Feea***
- b. Venation anadromous in sterile blades . . . . . **3. Subg. *Davalliopsis***

#### 1. Subgenus *Trichomanes*

*Trichomanes* L. subg. *Eutrichomanes* C. Presl (1843) 16. — *Trichomanes* L. sect. *Eutrichomanes* (C. Presl) T. Moore (1857) cx. — Lectotype: *Trichomanes scandens* L. (selected by Morton (1968) 180; his idea that this and several subsequent synonyms include the type species of *Trichomanes* led him to designate *T. scandens* as lectotypes for these taxa. Although *T. crispum* has recently been fixed to the type of the genus as noted above, Morton's lectotypifications do not need to be changed since they were validly published).

*Trichomanes* L. sect. *Pinnata* C. Presl (1843) 16. — Lectotype: *Trichomanes scandens* L. (selected by Morton (1968) 180).

*Ragatelus* C. Presl (1843) 16. — *Trichomanes* L. sect. *Ragatelus* (C. Presl) C. Chr. (1906) XIV. — Type: *Ragatelus crinitus* (Sw.) C. Presl (= *Trichomanes crinitum* Sw.).

*Homoeotes* C. Presl (1848) 331. — *Ptilophyllum* Bosch sect. *Homoeotes* (C. Presl) Prantl (1875) 48. — *Trichomanes* L. sect. *Homoeotes* (C. Presl) C. Chr. (1906) XIV. — Type: *Homoeotes heterophylla* (Willd.) C. Presl (= *Trichomanes humboldtii* (Bosch) Lellinger).

*Trichomanes* L. subg. *Pseudoachomanes* C. Presl (1849) 16. — *Trichomanes* L. sect. *Pseudoachomanes* (C. Presl) C. Chr. (1906) XIV. — Lectotype: *Trichomanes sinuosum* Rich. ex Willd. (= *Trichomanes polypodioides* L.) (selected by Christensen (1906) XIV, as *T. polypodioides* L.).

*Odontomanes* C. Presl (1849) 20. — *Trichomanes* L. sect. *Odontomanes* (C. Presl) C. Chr. (1906) XIV. — Type: *Odontomanes hostmannianum* (Klotzsch) C. Presl (= *Trichomanes hostmannianum* (Klotzsch) Kunze).

*Trichomanes* L. sect. *Neurophyllum* T. Moore (1857) cx, based on *Neurophyllum* C. Presl (1843) 18, t. IV, f. C, nom. illeg., non Torr. & A. Gray. (1840) 612. — *Neuroman* Trevis. ex Bosch (1859) 347. — Type: *Neurophyllum pinnatum* (Hedw.) C. Presl (= *Trichomanes pinnatum* Hedw.) (selected by Christensen (1906) XIV).

*Ptilophyllum* Bosch subsect. *Sinuosa* Prantl (1875) 47. — Lectotype: *Ptilophyllum sinuosum* (Rich. ex Willd.) Prantl (= *Trichomanes polypodioides* L.) (selected by Morton (1968) 198).

- Ptilophyllum* Bosch sect. *Acarpacrium* Prantl (1875) 48. — *Trichomanes* L. sect. *Acarpacrium* (Prantl) C. Chr. (1906) XIV. — Lectotype: *Ptilophyllum ptilodes* (Bosch) Prantl (= *Trichomanes alatum* Sw.) (selected by Christensen (1906) XIV, as *T. alatum* Sw.).
- Ptilophyllum* Bosch sect. *Trigonophyllum* Prantl (1875) 48. — *Trichomanes* L. sect. *Trigonophyllum* (Prantl) C. Chr. (1906) XIV. — Lectotype: *Ptilophyllum bancroftii* (Hook. & Grev.) Prantl (= *Trichomanes arbuscula* Desv.) (selected by Christensen (1906) XIV, as *T. arbuscula* Desv.).
- Ptilophyllum* Bosch subsect. *Lamellata* Prantl (1875) 48. — *Trichomanes* L. subsect. *Lamellata* (Prantl) C.V. Morton (1968) 194. — Type: *Ptilophyllum martiusii* (C. Presl) Prantl (= *Trichomanes martiusii* C. Presl).
- Trichomanes* L. sect. *Maiora* Prantl (1875) 52. — *Crepidomanes* (C. Presl) C. Presl subg. *Maiora* K. Iwats. (1984) 174. — Lectotype: *Trichomanes scandens* L. (selected by Morton (1968) 181).
- Trichomanes* L. subg. *Holophlebium* H. Christ (1897) 27. — Lectotype: *Trichomanes scandens* L. (selected by Morton (1968) 181).
- Mortoniopteris* Pic.Serm. (1977a) 243. — *Trichomanes* L. sect. *Mortoniopteris* (Pic.Serm.) C. Sánchez (2000) 39. — Type: *Mortoniopteris scandens* (L.) Pic.Serm. (= *Trichomanes scandens* L.).
- Pteromanes* Pic.Serm. (1977a) 244. — Type: *Pteromanes martiusii* (C. Presl) Pic.Serm. (= *Trichomanes martiusii* C. Presl).
- Trichomanes* L. subg. *Achomanes* C. Presl (1843) 15, nom. illeg.; originally including *Trichomanes crispum* L., the type of the genus.
- Ptilophyllum* Bosch (1861a) 321, nom. illeg., non Morris in C.W. Grant (1840) 327, nec (Nutt.) Rehb. (1841) 169; originally including *Trichomanes crinitum* Sw., the type of *Ragatelus* C. Presl (1843).
- Ptilophyllum* Bosch subsect. *Crispa* Prantl (1875) 47, nom. illeg.; originally including *Trichomanes crispum* L., type of the genus.

*Rhizomes* erect, short- or long-creeping, usually fine to quite thick, 1–5 mm diam., occasionally filiform, sparsely or sometimes densely covered with brown to blackish hairs, protostele massive, cortex homogeneous, or occasionally heterogeneous (in *T. scandens*), roots numerous and robust. *Stipes* to 30 cm long, usually close to each other, sometimes more or less distant. *Blades* usually pinnate with symmetric pinnae, occasionally simple or more finely pinnate, ovate to linear-ovate, 70 by 25 cm, venation usually catadromous, or anadromous (in *T. scandens* and *T. anadromum*), sometimes pubescent with unicellular or multicellular hairs, false veinlets present in some species (perpendicular to true veins), internal cell walls slightly thick and wavy, margins sometimes hairy with simple or stellate hairs. *Sori* paratactic, or epitactic (in *T. scandens*), often immersed in the laminae, rarely pedicellate (in *T. pinnatum*), tubular, lips sometimes dilate, receptacles usually long-exserted.

Distribution — Same as that of the genus; more than 30 species.

Habitat — Usually terrestrial in humid places, sometimes epiphytic on tree trunks, exceptionally as canopy epiphytes (*T. pilosum*). Some taxa such as *T. crispum* appear ecologically opportunistic.

Note — Corresponding to the Ac subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

*Trichomanes accedens* C. Presl; *T. alatum* Sw.; *T. anadromum* Rosenst.; *T. anomalum* Maxon & C.V. Morton; *T. arbuscula* Desv.; *T. bicorne* Hook.; *T. crenatum* Bosch; *T. crinitum* Sw.; *T. crispum* L.; *T. cristatum* Kaulf.; *T. dactylites* Sodiro; *T. delicatum* Bosch; *T. eglerti* P.G. Windisch; *T. fimbriatum* Backh. ex T. Moore; *T. galeottii* E. Fourn.; *T. guidoi* P.G. Windisch; *T. holopterum* Kunze; *T. hostmannianum* (Klotzsch) Kunze; *T. humboldtii* (Bosch) Lellinger; *T. kalbreyeri* Baker; *T. lucens* Sw.; *T. ludovicinum* Rosenst.; *T. macilentum* Bosch; *T. martiusii* C. Presl; *T. micayense* Hieron.; *T. pel-lucens* Kunze; *T. pilosum* Raddi; *T. pinnatum* Hedw.; *T. plumosum* Kunze; *T. polypodioides* L.;

*T. robustum* E. Fourn.; *T. roraimense* Jenman; *T. scandens* L.; *T. spruceanum* Hook.; *T. steyermarkii* P.G. Windisch & A.R. Sm.; *T. trigonum* Desv.; *T. vandenboschii* P.G. Windisch; *T. vaupesense* Lelinger; *T. vittaria* DC. ex Poir.

## 2. Subgenus **Feea** (Bory) Hook.

*Trichomanes* L. subg. *Feea* (Bory) Hook. (1844) 114. — *Feea* Bory (1824) 446. — *Ptilophyllum* Bosch sect. *Feea* (Bory) Prantl (1875) 48. — *Trichomanes* L. sect. *Feea* (Bory) H. Christ (1897) 29. — Lectotype: *Feea polypodina* Bory (= *Trichomanes osmundoides* Poir.) (selected by Smith (1875) 349, as *Trichomanes spicatum* Hedw. ex Hook.).

*Hymenostachis* Bory (1824) 588. — *Trichomanes* L. subg. *Hymenostachis* (Bory) Hook. (1844) 114. — *Trichomanes* L. subsect. *Hymenostachis* (Bory) C.V. Morton (1968) 197. — Type: *Trichomanes elegans* Rudge (= *Trichomanes diversifrons* (Bory) Mett.).

*Maschalosorus* Bosch (1861a) 320. — *Trichomanes* L. sect. *Maschalosorus* (Bosch) C. Chr. (1906) XIV. — Type: *Maschalosorus mougeotii* (Bosch) Bosch (= *Trichomanes mougeotii* Bosch).

*Rhizomes* suberect or ascending (leading to a dwarf tree-fern habit), quite thick, 1.5–8 mm diam., apex covered with brown to blackish hairs, basal parts covered by roots, protostele massive, cortex homogeneous, root numerous and robust. *Stipes* to 8 cm long, usually close to each other. *Fronds* dimorphic (except in *T. mougeotii*), simple or without lamina in the fertile fronds, once-pinnate in the sterile fronds, 30 by 8 cm, venation catadromous (in sterile frond), false veinlets absent, laminae usually more than one cell thick in fertile fronds, internal cell walls thick and coarsely pitted. *Sori* paratactic or pantotactic, immersed in the lamina, tubular, lips truncate or slightly dilate, receptacles long-exserted.

Distribution — The Neotropics; more than 5 species.

Habitat — Terrestrial or epilithic.

Note — Corresponding to the Fe subclade in Ebihara et al. (submitted), and also to Copeland's (1938b) genus, *Feea*.

REPRESENTATIVE SPECIES:

*Trichomanes botryoides* Kaulf.; *T. diversifrons* (Bory) Mett.; *T. mougeotii* Bosch; *T. osmundoides* Poir.; *T. trollii* Bergdolt.

## 3. Subgenus **Davalliopsis** (Bosch) Ebihara & K. Iwats., *comb. nov.*

Based on *Davalliopsis* Bosch (1861a) 323. — *Trichomanes* L. sect. *Davalliopsis* (Bosch) Prantl (1875) 53. — *Cephalomanes* C. Presl subg. *Davalliopsis* (Bosch) K. Iwats. (1984) 177. — Lectotype: *Trichomanes prieurii* Kunze (= *Trichomanes elegans* Rich.) (selected by Prantl (1875) 53).

*Rhizomes* erect or ascending, quite thick, 4–15 mm diam., densely covered with dark hairs, protostele massive, cortex homogeneous, roots numerous and robust. *Stipes* to 50 cm long, close to each other. *Blades* tri- to quadripinnatifid, deltate, 60 by 36 cm, venation anadromous, false veinlets absent, laminae usually more than one cell thick, internal cell walls thick and coarsely pitted. *Sori* paratactic, tubular, lips truncate or slightly dilate, receptacles long-exserted.

Distribution — The Neotropics; at least 1 species.

Habitat — Terrestrial.

Note — Corresponding to a part of the Da subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

*Trichomanes elegans* Rich.

#### 4. Subgenus **Lacostea** (Bosch) C. Chr.

*Trichomanes* L. subg. *Lacostea* (Bosch) C. Chr. (1906) 634. — *Lacostea* Bosch (1861a) 320. — *Trichomanes* L. sect. *Lacostea* (Bosch) H. Christ (1897) 29. — Lectotype: *Lacostea brachypus* (Kunze) Prantl (= *Trichomanes pedicellatum* Desv.) (selected by Christensen (1906) XIV, as '*T. pedicellatum* Desv.').

*Rhizomes* long-creeping, frequently branching, rather thick, 0.5–1.2 mm diam., sparsely to densely covered with brown hairs, protostele massive, cortex heterogeneous, roots numerous and robust terrestrially, rootless at the climbing part. *Stipes* very short and unclear, subdistant to remote. *Blades* once-pinnate with symmetric pinnae, occasionally finer (up to tripinnatifid), elliptic, 30 by 9 cm, venation anadromous, false veinlets absent, internal cell walls slightly thick and wavy. *Sori* paratactic, tubular, lips truncate or sometimes dilate, receptacles long-exserted.

Distribution — The Neotropics; more than 4 species.

Habitat — Lianas on tree trunks.

Note — Corresponding to a part of the Da subclade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

*Trichomanes ankersii* C. Parker ex Hook. & Grev.; *T. pedicellatum* Desv.; *T. tanaicum* Hook.; *T. tuerckheimii* H. Christ.

### 8. CEPHALOMANES

*Cephalomanes* C. Presl (1843) 17, t. V. — *Lacostea* Bosch sect. *Cephalomanes* (C. Presl) Prantl (1875) 50. — *Trichomanes* L. subg. *Cephalomanes* (C. Presl) C. Chr. (1906) XIV. — *Trichomanes* L. sect. *Cephalomanes* (C. Presl) C.V. Morton (1968) 189. — Type: *Cephalomanes atrovirens* C. Presl.

*Rhizomes* erect to short-creeping, thick, usually densely covered with old stipes, protostele massive, cortex homogeneous, roots numerous and robust. *Stipes* 2–15 cm long, close to each other. *Blades* once-pinnate with asymmetric pinnae, narrowly elliptic, 10–20 by 3–4(–5) cm, venation anadromous, false veinlets absent, internal cell walls thick and coarsely pitted. *Sori* paratactic, campanulate, lips sometimes dilate, receptacles long-exserted.

Distribution — The Paleotropics (Asia to the Pacific); c. 4 species.

Habitat — Terrestrial or epilithic along streams.

Chromosome base number —  $x = 32$ .

Note — Corresponding to the Ce clade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

*Cephalomanes atrovirens* C. Presl; *C. crassum* (Copel.) M.G. Price; *C. javanicum* (Blume) C. Presl. The Malagasian *Trichomanes madagascariense* (Bosch) Moore has traditionally been placed in this group, but unpublished molecular data suggest its exclusion. Further investigations are needed.

### 9. CALLISTOPTERIS

*Callistopteris* Copel. (1938b) 64. — *Trichomanes* L. sect. *Callistopteris* (Copel.) C.V. Morton (1968) 190. — *Cephalomanes* C. Presl subg. *Callistopteris* (Copel.) K. Iwats. (1984) 176. — Type: *Callistopteris apiifolia* (C. Presl) Copel.

*Rhizomes* erect to short-creeping, quite thick, hairy at apices, protostele massive, cortex homogeneous, roots numerous and robust. *Stipes* 5–25 cm long, close to each other,

densely hairy with long bristle-like light reddish hairs. *Blades* tripinnate to quadripinnate, elliptic to narrowly ovate, 40 by 16 cm, venation anadromous, false veinlets absent, internal cell walls thin and straight. *Sori* paratactic, campanulate, lips truncate, or sometimes bilabiate, receptacles long-exserted.

Distribution — The Paleotropics (Asia to the Pacific); c. 5 species.

Habitat — Usually epilithic on moist rocks, occasionally epiphytic on tree trunks.

Chromosome base number —  $x = 36$ .

Note — Corresponding to the Ca clade in Ebihara et al. (submitted).

REPRESENTATIVE SPECIES:

**New combination:**

*Callistopteris superba* (Backh. ex T. Moore) Ebihara & K. Iwats., *comb. nov.* [based on *Trichomanes superbum* Backh. ex T. Moore (1862) 44].

**Other species:**

*Callistopteris apiifolia* (C. Presl) Copel.; *C. baldwinii* (D.C. Eaton) Copel.; *C. baueriana* (Endl.) Copel.; *C. polyantha* (Hook.) Copel.

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Appendix. Taxonomic placement (genus, subgenus and section) of each basionym of Hymenophyllaceae (excl. later homonyms) in the present classification.

Basionym	Genus	Subgenus / Section
<i>Abrodictyum</i>		
<i>boninense</i> Tagawa & K. Iwats.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>cumingii</i> C. Presl	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>Adiantum</i>		
<i>decurrens</i> Jacq.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>tenellum</i> Jacq.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>trifoliatum</i> L.	<i>Hymenophyllum</i>	?
<i>Amphipterum</i>		
<i>humatoides</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>Apteropteris</i>		
<i>applanata</i> A.M. Gray & R.G. Williams	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>Buesia</i>		
<i>megistocarpa</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>Callistopteris</i>		
<i>calyculata</i> Copel.	<i>Callistopteris</i>	–
<i>mulensis</i> K. Iwats.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>Cephalomanes</i>		
<i>atrovirens</i> C. Presl	<i>Cephalomanes</i>	–
<i>australicum</i> Bosch	<i>Cephalomanes</i>	–
<i>curvatum</i> Bosch	<i>Cephalomanes</i>	–
<i>madagascariense</i> Bosch	<i>Trichomanes</i>	?
<i>oblongifolium</i> C. Presl	<i>Cephalomanes</i>	–
<i>rhomboideum</i> Bosch	<i>Cephalomanes</i>	–
<i>singaporianum</i> Bosch	<i>Cephalomanes</i>	–
<i>wilkesii</i> Bosch	<i>Cephalomanes</i>	–
<i>Crepidomanes</i>		
<i>agasthianum</i> Madhus. & C.A. Hameed	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>chuii</i> Ching & P.C. Chiu	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>dilatatum</i> Ching & Chu H. Wang	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>hainanense</i> Ching	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>indicum</i> C.A. Hameed & Madhus.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>liboense</i> P.S. Wang	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>lunulatum</i> Madhus. & C.A. Hameed	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>malabaricum</i> C.A. Hameed & Madhus.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>nanophyllum</i> Tagawa	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>omeiense</i> Ching & P.C. Chiu	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>paucinerviium</i> Ching	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>pinnatifidum</i> Ching & P.C. Chiu	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>pseudonymanii</i> Hosok.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidium</i> ?
<i>sarawakense</i> K. Iwats.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>smithiae</i> Ching	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>tagawanum</i> K. Iwats.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>tiendongense</i> Ching & C.F. Zhang	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>yunnanense</i> Ching & P.C. Chiu	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>zayüense</i> Ching & S.K. Wu	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>Davallia</i>		
<i>tegaris</i> Desv.	<i>Hymenophyllum</i>	?
<i>Didymoglossum</i>		
<i>acanthoides</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>aculeatum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>affine</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>angustifrons</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>



## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Didymoglossum</i> (cont.)		
<i>anomalum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>braunii</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>brevipes</i> C. Presl	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>cordifolium</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>decipiens</i> Desv.	<i>Polyphlebium</i>	–
<i>dilatatum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>euphlebiun</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>ferox</i> Hassk.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>fructuosum</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>griffithii</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>hedwigii</i> C. Presl	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>holochilum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>hookeri</i> C. Presl	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>insigne</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>laceratum</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>latealatum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>lineolatum</i> Bosch	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>longisetum</i> C. Presl	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>magellanicum</i> Desv.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>nummularium</i> Bosch	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>ovale</i> E. Fourn.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>palmarum</i> Vareschi	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>plicatum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>preslii</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>racemulosum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>serrulatum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>sociale</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>undulatum</i> C. Presl	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>wesselsboeri</i> Ebihara & Dubuisson	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>Feea</i>		
<i>boryi</i> Bosch	<i>Trichomanes</i>	<i>Feea</i>
<i>humboldti</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>nana</i> Bory	<i>Trichomanes</i>	<i>Feea</i>
<i>polypodina</i> Bory	<i>Trichomanes</i>	<i>Feea</i>
<i>Gonocormus</i>		
<i>australis</i> Ching	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>samoensis</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>siamensis</i> Tagawa & K. Iwats.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>Hymenophyllum</i>		
<i>abietinum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>abruptum</i> Hook.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>acrosorum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>aculeolatum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?
<i>adiantoides</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>aequabile</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>affine</i> Brack.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>alatum</i> Sm.	<i>Vandenboschia</i> ?	<i>Vandenboschia</i>
<i>alfredii</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>alishanense</i> De Vol	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>alpinum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>alternatum</i> Fosberg	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>alveolatum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>amabile</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>amoenum</i> Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>andinum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>angulosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>angustatum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>angustifrons</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>angustum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>anisopterum</i> Peter	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>antarcticum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>apicale</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>apiculatum</i> Kuhn	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>apterum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>arbuscula</i> Desv.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>asperulum</i> Kunze	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>assamense</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>asterothrix</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>atrosanguineum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>atrovirens</i> Colenso	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>attenuatum</i> Hook.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>aucklandicum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>australe</i> Willd.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>austrosinicum</i> Ching	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>axillare</i> Sw.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>babindae</i> Watts	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>badium</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>baileyianum</i> Domin	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>bakeri</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>balansae</i> E. Fourn.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>baldwinii</i> D.C. Eaton	<i>Callistopteris</i>	–
<i>balfourii</i> Baker	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>bamlerianum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>batuense</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>berteri</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>beyrichianum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>bibraianum</i> Sturm	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>bicolanum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>bismarckianum</i> H. Christ	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>blandum</i> Racib.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>blepharodes</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>blumeanum</i> A. Spreng.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>bontocense</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>borneense</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>boryanum</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>boschii</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>botryoides</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>bougainvillense</i> Jeff W. Grimes	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>boutoni</i> Baker	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>brachyglossum</i> A. Braun ex Kunze	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>brachypus</i> Sodiro	<i>Hymenophyllum</i>	<i>Sphaerocionium</i> ?
<i>braithwaitei</i> Ebihara & K. Iwats.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>brassii</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>breve</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i> ?

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>brevidens</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>brevifrons</i> Kunze	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>brevistipes</i> Liebm.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>bridgesii</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>bryophilum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>buchtienii</i> Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>caespitosum</i> Gaudich.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>calodictyon</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>campanulatum</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>caparaoense</i> Brade	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>capense</i> Schrad.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>capillaceum</i> Roxb.	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>capillare</i> Desv.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>capurroi</i> de la Sota	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>cardunculus</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>carnosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>catherinae</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>caudatellum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>caudatum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>caudiculatum</i> Mart.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>caulopteron</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>ceratophylloides</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>cernuum</i> A. Gepp	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>cheesemannii</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>chiloense</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>chrysothrix</i> Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>cinnatum</i> A. Gepp	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>clemensiae</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>cocosense</i> A. Rojas	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>coloratum</i> A. Braun ex Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>compactum</i> Bonap.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>consanguineum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>constrictum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>contextum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>contortum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>contractile</i> Sodiro	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>convolutum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>copelandianum</i> Alderw.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>copelandii</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>coreanum</i> Nakai	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>corrugatum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>costaricanum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>crassipetiolatum</i> Stolze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>crispato-alatum</i> Hayata	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>crispatum</i> Wall. ex Hook. & Grev.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>crispatum</i> Wall. ex Hook. & Grev.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>crispum</i> Kunth	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>cristatum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>cristulatum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>cruegeri</i> Müll. Berol.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>cruentum</i> Cav.	<i>Hymenophyllum</i>	<i>Hymenoglossum</i>
<i>cubense</i> Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>cumingii</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>cuneatum</i> Kunze	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>cupressiforme</i> Labill.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>daedaleum</i> Blume	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>darwinii</i> Hook.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>dejectum</i> Baker	<i>Hymenophyllopsis</i>	–
<i>delavayi</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>delicatissimum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>delicatulum</i> Sehnem	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>deltoideum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dendritis</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>densifolium</i> Phil.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dentatum</i> Cav.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>denticulatum</i> Sw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dependens</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>deplanchei</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dichotomum</i> Cav.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dimidiatum</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dimorphum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>dipteroneuron</i> A. Braun ex Kunze	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>discosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>divaricatum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>dregeanum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>durandi</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>dusenii</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>eboracense</i> Croxall	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>ectocarpon</i> Fée	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>elasticum</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>elatius</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>elberti</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>elegans</i> A. Spreng.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>elegantissimum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>elegantulum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>ellipticosorum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>elongatum</i> Jeff W. Grimes	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>emarginatum</i> Sw.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>emersum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>endiviaefolium</i> Desv.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>epiphyticum</i> J.W. Moore	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>erecto-alatum</i> Colenso	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>eriphorum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>erosum</i> Blume	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>exiguum</i> Bedd.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>eximium</i> Kunze	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>exsertum</i> Wall. ex Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>falklandicum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>farallonense</i> Hieron.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>fastigiosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>fecundum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>feejeense</i> Brack.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>fendlerianum</i> Sturm	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>ferax</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>ferrugineum</i> Colla	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>filicula</i> Bory ex Willd.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>finbriatum</i> J. Sm. ex Hook.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>firmum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>flabellatum</i> Labill.	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>flaccidum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>flavo-aureum</i> Bory	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>flexile</i> Makino	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>flexuosum</i> A. Cunn.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>floribundum</i> Kunth	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>foersteri</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>formosum</i> Brack.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>foxworthyi</i> Copel.	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>francavillei</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>frankliniae</i> Colenso	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>franklinianum</i> Colenso	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>fraseri</i> Mett.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>fraternum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>fuciforme</i> Sw.	<i>Hymenophyllum</i>	<i>Fuciformia</i>
<i>fucoides</i> Cav.	<i>Hymenophyllum</i>	<i>Fuciformia</i>
<i>fuertesii</i> Brause	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>fujisanense</i> Nakai	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>fulvum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>fumarioides</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>funckii</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>fusugasugense</i> H. Karst. ex Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>gardneri</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>gardnerianum</i> Sturm	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>geluense</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>glaziovii</i> Baker	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>glebarium</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>gollmeri</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>gorgoneum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>gracile</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>gracilescens</i> Domin	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>gracilius</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>gratum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>grevilleanum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>gunnii</i> Bosch ex Baker	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>haematochromum</i> Sodiro	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>halconense</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>hallieri</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>hamuliferum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>hayatai</i> Masam.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>heimii</i> Tardieu	<i>Hymenophyllum</i>	<i>Hymenoglossum</i>
<i>helicoideum</i> Sodiro	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>hemidimorphum</i> R.C. Moran & B. Øllg.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>hemipteron</i> Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>henkelii</i> Sim	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>henryi</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>l'herminieri</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>herterianum</i> Brause	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>herzogii</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>himalaianum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>hirtellum</i> Sw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>holotrichum</i> Peter	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>hookeri</i> Bory	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>horizontale</i> C. V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>hosei</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>houstonii</i> Jenman	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>howense</i> Brownlie	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>humbertii</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>humboldtianum</i> E. Fourn.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>humile</i> Nees & Blume	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>imbricatum</i> Blume	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>inclinatum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>infortunatum</i> Bory	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>integrivalvatum</i> C. Sánchez	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>integrum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>intercalatum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>interruptum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>intricatum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>involutratum</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>ivohibense</i> Tardieu	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>jalapense</i> Schldl. & Cham.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>jamesoni</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>japonicum</i> Miq.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>javanicum</i> A. Spreng.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>johoreense</i> Holttum	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>junghuhnii</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>kaeteurum</i> Jenman	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>karstenianum</i> Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>kerianum</i> Watts	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>khasianum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>klabatense</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>kohautianum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>krauseanum</i> Phil.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>kuhnii</i> C. Chr.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>kurzii</i> Prantl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>lacinosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>lamellatum</i> Stolze	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>laminatum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>lanatum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>lanceolatum</i> Hook. & Arn.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>latifrons</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>latilobum</i> Bonap.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>ledermanni</i> Brause	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>lehmannii</i> Hieron.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>leptocarpum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>leptodictyon</i> Müll. Berol.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>leratii</i> Rosenst.	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>levingei</i> C.B. Clarke	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>limminghei</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>lindenii</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>



## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>lindigii</i> Mett.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>lindsaeoides</i> Baker	<i>Sphenomeris</i>	–
<i>lingganum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>lobatoalatum</i> Klotzsch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>lobatopapillosum</i> Klotzsch ex Sadeb.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>lobbii</i> T. Moore ex Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>longifolium</i> Alderw.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>lophocarpum</i> Colenso	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>lyallii</i> Hook.f.	<i>Hymenophyllum</i>	<i>Hymenocionium</i>
<i>macroGLOSSUM</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>macrosorum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>macrothecum</i> Fée	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>maderense</i> Gibby & Lovis	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>malaccense</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>mannianum</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>marginatum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>marlothii</i> Brause	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>martii</i> Sturm	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>martinicense</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>matthewsii</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>maxonii</i> H. Christ ex C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>mazei</i> E. Fourn. ex H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>megachilum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>megalocarpum</i> Colenso	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>melanocheilos</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>mentitum</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>menziesii</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>merrillii</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>mettenii</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>meyeri</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>micans</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>micranthum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>microcarpon</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>microcarpum</i> Desv.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>microphyllum</i> Mett.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>microsorum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>millefolium</i> Schldt. & Cham.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>minimum</i> A. Rich.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>minutidenticulatum</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>mirificum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>mniooides</i> Baker	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>modestum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>molle</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>montanum</i> Kirk	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>moorei</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>moritziaum</i> Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>mortonianum</i> Lellinger	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>multialatum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>multiflorum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>myriocarpum</i> Hook.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>nahuelhuapiense</i> Diem & J.S. Licht.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>nanostellatum</i> Lellinger	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>nanum</i> Sodiro	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>natalense</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>neozelandicum</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>nephrophyllum</i> Ebihara & K. Iwats.	<i>Hymenophyllum</i>	<i>Cardiomanes</i>
<i>nigrescens</i> Liebm.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>nigricans</i> Colla	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>nitens</i> R.Br.	<i>Hymenophyllum</i>	<i>Pleuromanens</i>
<i>nitidulooides</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>notabile</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>nutantifolium</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>obtusum</i> Hook. & Arn.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>odontophyllum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>okadai</i> Masam.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>oligocarpum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>oligosorum</i> Makino	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>omeiense</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>ooides</i> F. Muell. & Baker	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>opacum</i> Copel.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>orbignianum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>organense</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>osmundoides</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>ovatum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>oxydon</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pachydermicum</i> Ces.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>palmatum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>palmense</i> Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>paniculiflorum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>paniense</i> Ebihara & K. Iwats.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>pannosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pantotactum</i> Alderw.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>parallelocarpum</i> Hayata	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>parvifolium</i> Baker	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>parvulum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pastoensis</i> Hook.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>patagonicum</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>paucicarpum</i> Jenman	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pectinatum</i> Cav.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pedicellatum</i> Kunze ex Klotzsch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pedicularifolium</i> Ces.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>penangianum</i> C.G. Matthew & H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pendulum</i> Bory	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>perfissum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>perparvulum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>perrieri</i> Tardieu	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>peruvianum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>physocarpum</i> H. Christ	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>piliferum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pilosissimum</i> C. Chr.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pilosum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>platylobum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pleiocarpum</i> Alderw.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>plicatum</i> Kaulf.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>plumieri</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>plumosum</i> Kaulf.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>podocarpon</i> Fée	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>poepigianum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>poilanei</i> Tardieu & C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pollenianum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>polyanthum</i> Hook.	<i>Callistopteris</i>	–
<i>polycarpum</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>polychilum</i> Colenso	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>polyodon</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>poolii</i> Baker	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>portoricense</i> Kuhn	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>praetervisum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>prionema</i> Kunze ex Sturm	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>procerum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>proctoris</i> C. Sánchez	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>producens</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>productoides</i> J.W. Moore	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>productum</i> Kunze	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>protrusum</i> Hook.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pseudotunbridgense</i> Watts	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pteropodum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>puellum</i> Ces.	<i>Abrodictyum</i> ?	<i>Abrodictyum</i> ?
<i>pulchellum</i> Schtdl. & Cham.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pulcherrimum</i> Colenso	<i>Hymenophyllum</i>	<i>Fuciformia</i>
<i>pulchrum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pumilio</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pumilum</i> C. Moore	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>punctisorum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pusillum</i> Schott ex Sturm	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pyncocarpum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>pygmaeum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pyramidatum</i> Desv.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pyriforme</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>quadrifidum</i> Phil.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>quetrihuense</i> Diem & J.S. Licht.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>raapii</i> Gand.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>raddianum</i> Müll. Berol.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>ramosii</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>ramosissimum</i> Ham. ex D. Don	<i>Sphenomeris</i>	–
<i>rarum</i> R.Br.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>recurvum</i> Gaudich.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>reductum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>refrondescens</i> Sodiro	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>reinwardtii</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>remotipinna</i> Bonap.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>remotum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>reniforme</i> Hook.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>repens</i> Dulac	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>retusilobum</i> Hayata	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>revolutum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>ricciaefolium</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>rimbachii</i> Sodiro	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>ringens</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>riukiuiense</i> H. Christ	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>rolandi-principis</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>roraimense</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>rosenstockii</i> Brause	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rubellum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rufescens</i> Kirk	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>rufifolium</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rufifrons</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rufofibrillosum</i> Ching & Z.Y. Liu	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rufum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>rugosum</i> C. Chr. & Skottsbo.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>rupestre</i> Raddi	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>sabinifolium</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>saenzianum</i> L.D. Gómez	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>salakense</i> Racib.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>samoense</i> Baker	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>sampaioanum</i> Brade & Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>scabrum</i> A. Rich.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>schomburgkii</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>secundum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>semibivalve</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>semifissum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>semiglabrum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>semiteres</i> Colla	<i>Hymenophyllum</i>	<i>Fuciformia</i>
<i>serra</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>seselifolium</i> C. Presl	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>shirleyanum</i> Domin	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>siliquosum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>silvaticum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>silveirae</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>simonsianum</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>simplex</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>skottsbergii</i> C. Chr.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>smithii</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>sodiroi</i> C. Chr.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>spathulatum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>speciosum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>spectabile</i> Mett. ex Kuhn	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>sphaerocarpum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>spicatum</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>spinosum</i> Ching	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>spinulosum</i> Kunth	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>splendidum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>sprucei</i> Baker	<i>Hymenophyllum</i>	<i>Sphaerocionium</i> ?
<i>steerei</i> C. Chr.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>streptophyllum</i> E. Fourn.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>sturmii</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>subdeltoideum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>subdemissum</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>subdimidiatum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>subfirmum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>subflabellatum</i> Ces.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>subobtusum</i> Rosenst.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>subrigidum</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>subrotundum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>subtilissimum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>superbum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>suprapaleaceum</i> Ching	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>surinamense</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>tablaziense</i> H. Christ	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>tabulare</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>taliabense</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>tarapotense</i> Stolze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>tasmanicum</i> Bosch	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>tayloriae</i> Farrar & Raine	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>tenellum</i> D. Don	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>tenerrimum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>tenerum</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>terminale</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>thomassetii</i> C.H. Wright	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>thuidium</i> Harr.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>thunbergii</i> Eckl. ex C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>todjambuense</i> Kjellb.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>tomentosum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>torquescens</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>torricellianum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>tortuosum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>trapezoidale</i> Liebm.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>treubii</i> Racib.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i> trianae</i> Hieron.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>triangulare</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>trichocaulon</i> Phil.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>trichomanoides</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>trichophyllum</i> Kunth	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>trifidum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>truncatum</i> Colenso	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>turquinense</i> C. Sánchez	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>ulei</i> H. Christ & Giesenh.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>umbratile</i> Diem & J.S. Licht.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>uncinatum</i> Sim	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>unilaterale</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>urbanii</i> Brause	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>urofrons</i> Ching & C.F. Zhang	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>vacillans</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?
<i>valvatum</i> Hook. & Grev.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>venustum</i> Desv.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>verecundum</i> C.V. Morton	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>veronicoides</i> C. Chr.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>viguieri</i> Tardieu	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>villosum</i> Colenso	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>vincentinum</i> Baker	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>viride</i> Rosenst. ex Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Hymenophyllum</i> (cont.)		
<i>viridissimum</i> Fée	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>vittatum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>walleri</i> Maiden & Betche	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>wercklei</i> H. Christ	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>whangshanense</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>whitei</i> Goy	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>wilsonii</i> Hook.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>wrightii</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>zeelandicum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>zeyheri</i> Bosch	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>zollingerianum</i> Kunze	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>Hymenostachys</i>		
<i>diversifrons</i> Bory	<i>Trichomanes</i>	<i>Feea</i>
<i>elegans</i> C. Presl	<i>Trichomanes</i>	<i>Feea</i>
<i>Leptocionium</i>		
<i>barbatum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>dicranotrichum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>edentulum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>flaccidum</i> Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>sororium</i> C. Presl	<i>Hymenophyllum</i>	<i>Diploophyllum</i>
<i>violaceum</i> Meyen ex Bosch	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>Macroglena</i>		
<i>brassii</i> Croxall	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>kalimantanensis</i> K. Iwats. & M. Kato	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>obtusum</i> Copel.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>toppingii</i> O. Deg. & I. Deg.	<i>Callistopteris</i>	–
<i>truncata</i> Copel.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>Mecodium</i>		
<i>acrocarpum</i> H. Christ ex Ching	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>archboldii</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>contiguum</i> D.A. Sm.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>diversilabium</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>edanoi</i> Copel.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>gongboense</i> Ching	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>hainanense</i> Ching	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>jinfoshanense</i> Ching & Z.Y. Liu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>kansuense</i> Ching & Y.P. Hsu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>likiangense</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>lineatum</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>lofoushanense</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>longissimum</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i> ?
<i>lushanense</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>mexiae</i> Copel.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>mikawanum</i> Seriz.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>ovalifolium</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>paramnioides</i> H.G. Zhou & W.M. Chu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>propinquum</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>stenochladum</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>szechuanense</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>taiwanense</i> Tagawa	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>tenellum</i> Parris	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>tenuifrons</i> Ching	<i>Hymenophyllum</i>	<i>Globosa</i>



## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Mecodium</i> (cont.)		
<i>wangii</i> Ching & P.C. Chiu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>wenh sienense</i> Ching & Y.P. Hsu	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>Meringium</i>		
<i>archboldii</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>bartlettii</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>blumeanum</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>latifolium</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>laxum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>melanosorum</i> Copel.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>meyenianum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>Microgonium</i>		
<i>benlii</i> Pic.Serm.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>berteroanum</i> C. Presl	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>bimarginatum</i> Bosch	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>falsinervulosum</i> M. Nishida	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>minutifolium</i> Tagawa & K. Iwats.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>omphalodes</i> Vieill. ex E. Fourn.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>Microtrichomanes</i>		
<i>zamboanganum</i> Copel.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>Neuromanes</i>		
<i>abruptum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>immersum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>kaulfussii</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>Neurophyllum</i>		
<i>hedwigianum</i> Fée	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>hostmannianum</i> Klotzsch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>thecaphyllum</i> Fée	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>Pleuromanes</i>		
<i>retusum</i> Copel.	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>Ragatelus</i>		
<i>eriphorus</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>Selenodesmium</i>		
<i>recurvum</i> Ching & P.C. Chiu	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>Sphaerocionium</i>		
<i>aureum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>breutelli</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>commutatum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>diversilobum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>glanduliferum</i> C. Presl	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>grevilleanum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>macrocarpum</i> C. Presl	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>nigricans</i> C. Presl	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>productum</i> C. Presl	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>ruizianum</i> Klotzsch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>schiedeanum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>sieberi</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
× <i>tucuchense</i> Jermy & T.G. Walker	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>vestitum</i> C. Presl	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>Trichomanes</i>		
<i>abrotanifolium</i> Bosch	<i>Vandenboschia</i> ?	?
<i>abruptum</i> Fée ex H. Christ	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>accedens</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>achilleaefolium</i> Bory ex Willd.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>acranthum</i> H. Itô	<i>Cephalomanes</i>	–
<i>acrosorpon</i> Fée	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>acrosorum</i> Copel.	<i>Cephalomanes</i>	–
<i>acutilobum</i> Ching	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>acuto-obtusum</i> Hayata	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>acutum</i> C. Presl	<i>Hymenophyllum</i>	<i>Pleuromanens</i>
<i>adanthinum</i> Bory	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>adiantoides</i> L.	<i>Asplenium</i>	–
<i>adscendens</i> Kunze	<i>Trichomanes</i> ?	?
<i>aerugineum</i> Bosch	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>aeruginosum</i> Poir.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>aethiopicum</i> Burm.f.	<i>Asplenium</i>	–
<i>africanum</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>alagense</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>alatum</i> Sw.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>album</i> Blume	<i>Hymenophyllum</i>	<i>Pleuromanens</i>
<i>alternans</i> Carruth. ex Seem.	<i>Polyphlebium</i>	–
<i>amabile</i> Nakai	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>amazonicum</i> H. Christ	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>ambiguum</i> Mart.	<i>Polyphlebium</i>	–
<i>ambongoense</i> Bonap.	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>anadromum</i> Rosenst.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>anceps</i> Hook.	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>andrewsii</i> Newman	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>angustatum</i> Carmich.	<i>Polyphlebium</i>	–
<i>angustilaciniatum</i> Bonap.	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>angustimarginatum</i> Bonap.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>angustissimum</i> C. Presl	<i>Polyphlebium</i>	–
<i>ankersii</i> C. Parker ex Hook. & Grev.	<i>Trichomanes</i>	<i>Lacosteia</i>
<i>anomalum</i> Maxon & C.V. Morton	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>antillarum</i> Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>aphlebioides</i> H. Christ	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>apicilare</i> E. Fourn.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidium</i>
<i>apiifolium</i> C. Presl	<i>Callistopteris</i>	–
<i>apodum</i> Hook. & Grev.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>arbuscula</i> Desv.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>armstrongii</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>asae-grayi</i> Bosch	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>asnykii</i> Racib.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>asplenioides</i> Sw.	<i>Hymenophyllum</i>	<i>Hymenoglossum</i>
<i>assimile</i> Mett. ex Kuhn	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>astylum</i> Kaulf.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>attenuatum</i> Hook.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>auratum</i> Fée	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>aureovestitum</i> Proctor	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>aureum</i> Bosch	<i>Polyphlebium</i>	–
<i>auriculatum</i> Blume	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>axillare</i> Sodiro	<i>Polyphlebium</i> ?	–
<i>badium</i> E. Fourn.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>baileyanum</i> Watts	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>ballardianum</i> Alston	<i>Didymoglossum</i>	<i>Microgonium</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>bancroftii</i> Hook. & Grev.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>barklianum</i> Baker	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>barnardianum</i> F.M. Bailey	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>batrachoglossum</i> Copel.	<i>Abrodictyum</i> ?	?
<i>bauerianum</i> Endl.	<i>Callistopteris</i>	–
<i>beccarianum</i> Cés.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>beckeri</i> Krause ex Phil.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>belangeri</i> Bory	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>bicorne</i> Hook.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>bifidum</i> Vent. ex Willd.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>bifolium</i> Blume	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>bilabiatum</i> Nees & Blume	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>bilobatum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>bipunctatum</i> Poir.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>birmanicum</i> Bedd.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>bissei</i> C. Sánchez	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>bivalve</i> G. Forst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>blepharistomum</i> Copel.	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>blumei</i> Hassk.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>bojeri</i> Hook. & Grev.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>bonapartei</i> C. Chr.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i> ?
<i>bonincolum</i> Nakai	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>boninense</i> Koidz.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>borbonicum</i> Bosch	<i>Polyphlebium</i>	–
<i>borneense</i> Alderw.	<i>Cephalomanes</i>	–
<i>boryanum</i> Kunze	<i>Cephalomanes</i>	–
<i>boschianum</i> Sturm ex Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>botryoides</i> Kaulf.	<i>Trichomanes</i>	<i>Feea</i>
<i>bovini</i> Bosch	<i>Trichomanes</i>	?
<i>brachyblastos</i> Mett. ex Kuhn	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>brachypus</i> Kunze	<i>Trichomanes</i>	<i>Lacostea</i>
<i>bradei</i> H. Christ	<i>Polyphlebium</i>	–
<i>brasiliense</i> Desv.	<i>Polyphlebium</i>	–
<i>braunii</i> Bosch	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>brevisetum</i> R.Br.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>brooksii</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>bryoides</i> Goldm.	?	?
<i>bucinatum</i> Mickel & Beitel	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>caespifrons</i> C. Chr.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>caliginum</i> Lellinger	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>caluffii</i> C. Sánchez	<i>Didymoglossum</i>	?
<i>calvescens</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>campanulatum</i> Roxb.	<i>Crepidomanes</i> ?	?
<i>canariensis</i> L.	<i>Davallia</i>	–
<i>capillaceum</i> L.	<i>Polyphlebium</i>	–
<i>capillatum</i> Taschner	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>carolianum</i> Vareschi	<i>Trichomanes</i>	<i>Lacostea</i>
<i>cartilagineum</i> Vieill. & Pancher	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>caruifolium</i> Roxb.	<i>Vandenboschia</i> ?	?
<i>caudatum</i> Brack.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>cavifolium</i> Müll. Berol.	<i>Polyphlebium</i>	–
<i>cellulosum</i> Klotzsch	<i>Abrodictyum</i>	<i>Pachychaetum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>chamaedrys</i> Taton	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>charophylloides</i> Poir.	<i>Davallia</i>	–
<i>chevalieri</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>chinensis</i> L.	<i>Sphenomeris</i>	–
<i>christii</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>ciliatum</i> Sw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>clarenceanum</i> F. Ballard	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>clathratum</i> Tagawa	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>clavatum</i> Sw.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>cochinchinense</i> Poir.	<i>Lygodium</i>	–
<i>cocos</i> H. Christ	<i>Polyphlebium</i>	–
<i>cognatum</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>colensoi</i> Hook.	<i>Polyphlebium</i>	–
<i>collariatum</i> Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>commutatum</i> Sturm	<i>Trichomanes</i>	<i>Lacosteia</i>
<i>compactum</i> Alderw.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>compressum</i> Desv.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>concinnum</i> Mett. ex Kuhn	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>contiguum</i> G. Forst.	<i>Davallia</i>	–
<i>corcovadense</i> Bosch	<i>Vandenboschia</i> ?	?
<i>coriaceum</i> Kunze	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>cormophyllum</i> Kaulf.	<i>Cyathea</i>	–
<i>cornutum</i> C. Chr.	<i>Trichomanes</i> ?	?
<i>corticola</i> Hook. ex Bedd.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>craspedoneurum</i> Copel.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>crassipilis</i> Weath.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>crassum</i> Copel.	<i>Cephalomanes</i>	–
<i>crenatum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>crinitum</i> Sw.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>crispiforme</i> Alston	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>crispulum</i> Bosch	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>crispum</i> L.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>cristatum</i> Kaulf.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>cultratum</i> Baker	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>cuneatum</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?
<i>cuneiforme</i> G. Forst.	<i>Odontosoria</i>	–
<i>cupressifolium</i> Hayata	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>cupressoides</i> Desv.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>curranii</i> Weath.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>curtii</i> Rosenst.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>cuspidatum</i> Willd.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>cyrtotheca</i> Hillebr.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>cystoseiroides</i> H. Christ ex Tardieu & C. Chr.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>dactylites</i> Sodiro	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>daguense</i> Weath.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>daucoides</i> C. Presl	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>davallioides</i> Gaudich.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>debile</i> Bosch	<i>Polyphlebium</i>	–
<i>delicatum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>demissum</i> G. Forst.	<i>Hymenophyllum</i>	<i>Globosa</i>
<i>densinervium</i> Copel.	<i>Cephalomanes</i>	–
<i>dentatum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>denticulatum</i> Houtt.	<i>Davallia</i>	–
<i>depauperatum</i> Bory	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>diaphanum</i> Kunth	<i>Polyphlebium</i>	–
<i>dichotomum</i> Kunze	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>diffusum</i> Blume	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>digitatum</i> Sw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>dilatatum</i> G. Forst.	<i>Hymenophyllum</i>	<i>Diploophyllum</i>
<i>dimidiatum</i> C. Presl	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>dimorphum</i> Mett. ex Sadeb.	<i>Trichomanes</i>	<i>Feea</i>
<i>dissectum</i> J. Sm. ex Hook.	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>divaricatum</i> Poir.	<i>Hymenophyllum</i>	?
<i>draytonianum</i> Brack.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>dregei</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>egleri</i> P.G. Windisch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>ekmanii</i> Wess.Boer	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>elatum</i> G. Forst.	<i>Davallia</i>	–
<i>elegans</i> Rich.	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>elongatum</i> A. Cunn.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>eminens</i> C. Presl	<i>Callistopteris</i>	–
<i>endlicherianum</i> C. Presl	<i>Polyphlebium</i>	–
<i>englerianum</i> Brause	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>epiphyllum</i> G. Forst.	<i>Davallia</i>	–
<i>erectum</i> Brack.	<i>Polyphlebium</i>	–
<i>ericoides</i> Hedw. ex Hook.	<i>Abrodictyum</i>	?
<i>erosum</i> Willd.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>europaeum</i> Sm.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>exaltatum</i> Brack.	<i>Callistopteris</i>	–
<i>eximium</i> Kunze ex Sturm	<i>Polyphlebium</i>	–
<i>exsectum</i> Kunze	<i>Polyphlebium</i>	–
<i>extravagans</i> Copel.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>fallax</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>fargesii</i> H. Christ	<i>Vandenboschia</i>	<i>Lacosteopsis</i> ?
<i>ferrugineum</i> E. Fourn.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>filiculoides</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>filiforme</i> Sturm	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>fimbriatum</i> Backh. ex T. Moore	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>firmulum</i> C. Presl	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>flabellatum</i> Bory	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>flabelliforme</i> Hassk.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>flabellula</i> d'Urv.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>flaccidum</i> G. Forst.	<i>Dennstaedtia</i>	–
<i>flavofuscum</i> Bosch	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>floribundum</i> Hook. & Grev.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>foeniculaceum</i> Bory ex Willd.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>foersteri</i> Rosenst.	<i>Cephalomanes</i>	–
<i>fontanum</i> Lindm.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>formosanum</i> Y. Yabe	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>fragile</i> Hedw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>francii</i> H. Christ	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?
<i>frappieri</i> Corden.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>fraseri</i> Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>frondosum</i> Fée	<i>Vandenboschia</i>	<i>Lacosteopsis</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>fruticosum</i> Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>fucoides</i> Sw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>fulgens</i> C. Chr.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>fulvum</i> Klotzsch	<i>Polyphlebium</i>	–
<i>furcatum</i> Kaulf. ex Spreng.	<i>Abrodictyum</i>	<i>Pachychaetum</i> ?
<i>fuscum</i> Blume	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>galeottii</i> E. Fourn.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>gardneri</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>gemmatum</i> J. Sm. ex Baker	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>gibberosum</i> G. Forst.	<i>Asplenium</i>	–
<i>giesenhagenii</i> C. Chr.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>giganteum</i> Bory ex Willd.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>glaucofuscum</i> Hook.	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>godmanii</i> Hook.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>goebelianum</i> Giesenh.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>goetzii</i> Hieron.	<i>Polyphlebium</i>	–
<i>gourlianum</i> Grev. ex J. Sm.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>gracile</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>gracillimum</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>grande</i> Copel.	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>graucescens</i> Bosch	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>guianense</i> Sturm	<i>Trichomanes</i>	<i>Lacostea</i>
<i>guidoi</i> P.G. Windisch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>guineense</i> Afzel. ex Sw.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>haenkei</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>hartii</i> Baker	<i>Abrodictyum</i> ?	?
<i>harveyi</i> Carruth. ex Seem.	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>haughtii</i> C.V. Morton	<i>Polyphlebium</i>	–
<i>henzaianum</i> Parish ex Hook.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>l'herminieri</i> Fée	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>herzogii</i> Rosenst.	<i>Polyphlebium</i>	–
<i>hibernicum</i> A. Spreng.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>hieronymi</i> Brause	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>hildebrandtii</i> Kuhn	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>hirsutum</i> L.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>hispidulum</i> Mett. ex Kuhn	<i>Callistopteris</i>	–
<i>hispidum</i> Poir.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>holopterum</i> Kunze	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>hookeri</i> C. Presl	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>hosei</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>huberi</i> H. Christ	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>humile</i> G. Forst.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>hygrometricum</i> Poir.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>hymenoides</i> Hedw.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>hymenophylloides</i> Bosch	<i>Polyphlebium</i>	–
<i>hypnoides</i> H. Christ	<i>Polyphlebium</i>	–
<i>idoneum</i> C.V. Morton	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>ignobile</i> Ces.	<i>Callistopteris</i> ?	?
<i>imbricatum</i> Sodiro	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>inaequale</i> Poir.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>incisum</i> Thunb.	<i>Cyathea</i>	–
<i>inermis</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>



## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>infundibulare</i> Alderw.	<i>Cephalomanes</i>	–
<i>ingae</i> C. Chr.	<i>Polyphlebium</i>	–
<i>intermedium</i> Bosch	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>intramarginale</i> Hook. & Grev.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>intricatum</i> Farrar	<i>Vandenboschia</i> ?	?
<i>japonicum</i> Thunb. ex Murray	<i>Onychium</i>	–
<i>javanicum</i> Blume	<i>Cephalomanes</i>	–
<i>jennanii</i> Lellinger	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>johnstonense</i> F.M. Bailey	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>junceum</i> H. Christ	<i>Polyphlebium</i>	–
<i>jungermannioides</i> E. Fourn.	<i>Polyphlebium</i>	–
<i>kalamocarpum</i> Hayata	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>kalbreyeri</i> Baker	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>kapplerianum</i> Sturm	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>kaulfussii</i> Hook. & Grev.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>killipii</i> Weath.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>kingii</i> Copel.	<i>Cephalomanes</i>	–
<i>kirkii</i> Hook.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>krausii</i> Hook. & Grev.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>krugii</i> H. Christ	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>kunzeanum</i> Hook.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>kurzii</i> Bedd.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>labiatum</i> Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>laceratum</i> Desv.	<i>Trichomanes</i>	<i>Lacostea</i>
<i>laciniatum</i> Roxb.	<i>Cephalomanes</i>	–
<i>lacinosum</i> Alston	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>laetevirens</i> Fée	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>laetum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>lambertianum</i> Hook.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lanceolatum</i> Poir.	<i>Davallia</i>	–
<i>lanceum</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>langsdorffii</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lasiophyllum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>lastreoides</i> C. Presl	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>latemarginale</i> D.C. Eaton	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>latevirens</i> Fée	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>latifrons</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>latilabiatum</i> E.D.Br.	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>latilobium</i> Bonap.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>latipinnulata</i> Bonap.	<i>Trichomanes</i>	?
<i>latipinnum</i> Copel.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>latisectum</i> H. Christ	<i>Abrodictyum</i> ?	?
<i>lauterbachii</i> H. Christ	<i>Crepidomanes</i> ?	<i>Crepidomanes/Crepidomanes</i>
<i>laxum</i> Klotzsch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lechleri</i> Bosch	<i>Polyphlebium</i>	–
<i>ledermanni</i> Brause	<i>Cephalomanes</i>	–
<i>lehmannii</i> Hieron.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>lenormandi</i> Bosch	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>lentum</i> Poir.	<i>Davallia</i>	–
<i>lepervanchii</i> Cordem.	<i>Crepidomanes</i> ?	<i>Crepidomanes/Gonocormus</i> ?
<i>leprieurii</i> Hook.	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>leptophyllum</i> A. Cunn.	<i>Abrodictyum</i>	<i>Abrodictyum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>levisissimum</i> Fée	<i>Vandenboschia</i> ?	?
<i>liberiense</i> Copel.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>lindenii</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lindigii</i> E. Fourn.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lineare</i> Sw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>liukuense</i> Y. Yabe	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>longicollum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>longifolium</i> Desv.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>longifrons</i> Nakai	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>longilabiatum</i> Bonap.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i> ?
<i>longisetum</i> Bory ex Willd.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>lorencei</i> Tardieu	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>loreum</i> Bory & Bél.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>lozanii</i> M.T. Murillo	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lucens</i> Sw.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>lucidum</i> Roxb.	<i>Davallia</i>	–
<i>ludovicinum</i> Rosenst.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>luerssenii</i> F. Muell.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>luschnatianum</i> C. Presl	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>luzonicum</i> C. Presl	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidium</i>
<i>macgillivrayi</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>macilentum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>macroclados</i> Kunze	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>majorae</i> Watts	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>makinoi</i> C. Chr.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>malayanum</i> Roxb.	<i>Sphenomeris</i> ?	–
<i>malingii</i> Hook. f.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>maluense</i> Brause	<i>Cephalomanes</i>	–
<i>mandiocanum</i> Raddi	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>mannianum</i> Mett. ex Kuhn	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>mannii</i> Hook.	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>marchantioides</i> Zippel ex Moritz	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>marginatum</i> Mett.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>martinezii</i> Roviroa	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>martiusii</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>matthewii</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>maximum</i> Blume	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>megistostomum</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>meifolium</i> Bory ex Willd.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>melanopus</i> Baker	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>melanorhizon</i> Hook.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>melanotrichum</i> Schldtdl.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>membranaceum</i> L.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>merrillii</i> Copel.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>mettenii</i> C. Chr.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>mexicanum</i> Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>micayense</i> Hieron.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>microchilum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>microlirion</i> Copel.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>microphyllum</i> Mett. ex Kuhn	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>micropubescens</i> Proctor	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>mildbraedii</i> Brause	<i>Hymenophyllum</i>	<i>Hymenophyllum</i> ?

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>millefolium</i> Desv.	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>milnei</i> Bosch	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>mindorensis</i> H. Christ	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>minimum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>minutissimum</i> Alderw.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>minutulum</i> Gaudich.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i> ?
<i>minutum</i> Blume	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>miyakei</i> Y. Yabe	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>molle</i> E. Fourn.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>montanum</i> Hook.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>moritzii</i> Bosch	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>mosenii</i> Lindm.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>motleyi</i> Bosch	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>mougeotii</i> Bosch	<i>Trichomanes</i>	<i>Feea</i>
<i>multifidum</i> G. Forst.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>muscooides</i> Sw.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>musolense</i> Brause	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i> ?
<i>myrioneuron</i> Lindm.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>myriophyllum</i> Desv.	?	?
<i>myrioplasium</i> Kunze	<i>Callistopteris</i>	–
<i>naseanum</i> H. Christ	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>naumannii</i> Kuhn & Luerss. ex H. Christ	<i>Polyphlebium</i>	–
<i>neesii</i> Blume	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>neilgherrensis</i> Bedd.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>nipponicum</i> Nakai	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>nitidulum</i> Bosch	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>niveum</i> Burm.f.	?	?
<i>novoguineense</i> Brause	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>nudum</i> Poir.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>nymanii</i> H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>obscurum</i> Blume	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>olivaceum</i> Kunze ex Klotzsch	<i>Polyphlebium</i>	–
<i>opacum</i> Bosch	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>orbiculare</i> H. Christ	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>orientale</i> C. Chr.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>ornatum</i> Bosch	<i>Didymoglossum</i> ?	?
<i>osmundoides</i> Poir.	<i>Trichomanes</i>	<i>Feea</i>
<i>pabstianum</i> Müll.Berol.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>pachyphlebium</i> C. Chr.	<i>Trichomanes</i> ?	<i>Davalliopsis</i> ?
<i>pacificum</i> Hedw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>padronii</i> Proctor	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>pallidum</i> Blume	<i>Hymenophyllum</i>	<i>Pleuromanes</i>
<i>palmatifidum</i> Müll.Berol.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>palmatum</i> C. Presl	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>palmicola</i> Bosch	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>palmifolium</i> Hayata	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>paniculatum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>pannosum</i> Ces.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>papillatum</i> Müll.Berol.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>pappei</i> Kunze	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>papuanum</i> Brause	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>paradoxum</i> Domin	<i>Didymoglossum</i>	<i>Didymoglossum</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>parviflorum</i> Poir.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>parvulum</i> Poir.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>parvum</i> Copel.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>pedicellatum</i> Desv.	<i>Trichomanes</i>	<i>Lacostea</i>
<i>pellucens</i> Kunze	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>pellucidum</i> Goldm.	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>peltatum</i> Poir.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pennatum</i> Kaulf.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>perpusillum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidium</i> ?
<i>pervenulosum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>petersii</i> A. Gray	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>philippianum</i> Sturm	<i>Polyphlebium</i>	–
<i>piliferum</i> Alderw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>pilosum</i> Raddi	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>pinnatifidum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>pinnatinervium</i> Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>pinnatum</i> Hedw.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>platyderon</i> E. Fourn.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>platyrachis</i> Domin	<i>Trichomanes</i>	<i>Feea</i>
<i>pluma</i> Hook.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>plumosum</i> Kunze	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>plumula</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>poepigii</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>polyanthos</i> Sw.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>polyodon</i> Colenso	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>polyphlebius</i> V. Marcano	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>polypodioides</i> L.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>polysperma</i> Poir.	<i>Sphenomeris</i>	–
<i>polystromaticum</i> Bierh.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>powellii</i> Baker	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>preslianum</i> Nakai	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>preslii</i> C.V. Morton	<i>Cephalomanes</i>	–
<i>prieurii</i> Kunze	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>procerum</i> Fée	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>proliferum</i> Blume	<i>Crepidomanes</i>	<i>Crepidomanes/Gonocormus</i>
<i>pseudo-arbuscula</i> Alderw.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>pseudoblepharistomum</i> Tagawa	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>pseudocapillatum</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidium</i> ?
<i>ptilodes</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>pulchellum</i> Salisb.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>pulcherrimum</i> Copel.	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>pumilum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>punctatum</i> Poir.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>pusillum</i> Sw.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>pygmaeum</i> C. Chr.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>pyxidiferum</i> L.	<i>Polyphlebium</i>	–
<i>quelpaertense</i> Nakai	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>quercifolium</i> Desv.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>racemosum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>radicans</i> Sw.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>ramitrichum</i> Faden	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>
<i>recedens</i> Rosenst.	<i>Crepidomanes</i>	<i>Crepidomanes/Crepidomanes</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>reniforme</i> G. Forst.	<i>Hymenophyllum</i>	<i>Cardiomanes</i>
<i>repens</i> Schott ex Sturm	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>reptans</i> Sw.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>resinosum</i> R.C. Moran	<i>Trichomanes</i> ?	<i>Davalliopsis</i> ?
<i>rhipidophyllum</i> Sloss.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>rhizophyllum</i> Cav.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>ridleyi</i> Copel.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>rigidum</i> Sw.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>robinsonii</i> Hook. ex Baker	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>robustum</i> E. Fourn.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>roemerianum</i> Rosenst.	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>roraimense</i> Jenman	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>rosenstockii</i> Alderw.	<i>Cephalomanes</i>	–
<i>rothertii</i> Alderw.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>rotundifolium</i> Bonap.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>rupicolum</i> Racib.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>ruwenzoriense</i> Taton	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>samoense</i> C. Chr.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>sandvicense</i> Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>sanguinolentum</i> G. Forst.	<i>Hymenophyllum</i>	<i>Myrmecostylum</i>
<i>savaiense</i> Lauterb.	<i>Hymenophyllum</i>	<i>Pleuromanens</i>
<i>saxatile</i> Brack. ex T. Moore	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>saxifragoides</i> C. Presl	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>sayeri</i> F. Muell. & Baker	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>scandens</i> L.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>schaffneri</i> Schldtl.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>schiedeanum</i> Müll. Berol.	<i>Polyphlebium</i>	–
<i>schlechteri</i> Brause	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>schmidianum</i> Zenker ex Taschner	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>schomburgkianum</i> Sturm	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>schomburgkii</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>schultzei</i> Brause	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>seemannii</i> Carruth. ex Seem.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>sellowianum</i> C. Presl	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>sericeum</i> Sw.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>serratifolium</i> Rosenst.	<i>Polyphlebium</i>	–
<i>serratulum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>serricula</i> Fée	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>setaceum</i> Bosch	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>setiferum</i> Baker ex Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>setigerum</i> Backh. ex T. Moore	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>siamense</i> H. Christ	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>sibthorpioides</i> Bory ex Willd.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>sinuatum</i> Bonap.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>sinuosum</i> Rich. ex Willd.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>smithii</i> Hook.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>societense</i> J.W. Moore	<i>Callistopteris</i>	–
<i>solidum</i> G. Forst.	<i>Davallia</i>	–
<i>solitarium</i> Jenman	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>somai</i> Nakai	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>sonderi</i> Bosch	<i>Trichomanes</i>	<i>Lacostea</i>
<i>speciosum</i> Willd.	<i>Vandenboschia</i>	<i>Vandenboschia</i>

## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>spectabile</i> Klotzsch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>sphenoides</i> Kunze	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>spicatum</i> Hedw. ex Hook.	<i>Trichomanes</i>	<i>Feea</i>
<i>spicisorum</i> Desv.	<i>Trichomanes</i>	<i>Feea</i>
<i>spinulosum</i> Phil.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>splendidum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>spruceanum</i> Hook.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>sprucei</i> Baker	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>squarrosus</i> G. Forst.	<i>Dicksonia</i>	–
<i>stenosiphon</i> H. Christ	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>steyrmarkii</i> P.G. Windisch & A.R. Sm.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>striatum</i> D. Don	<i>Vandenboschia</i> ?	?
<i>strictum</i> Menzies ex Hook. & Grev.	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>strigosum</i> Thunb. ex Murray	<i>Microlepis</i>	–
<i>stylosum</i> Poir.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>subdeltoideum</i> C. Chr.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>subexsertum</i> Bosch	<i>Polyphlebium</i>	–
<i>sublabiatum</i> Bosch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>sublimbatum</i> Müll. Berol.	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>subpinnatifidum</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>subsessile</i> Splitg.	<i>Trichomanes</i>	<i>Lacostea</i>
<i>subtilissimum</i> Brause	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>subtrifidum</i> C.G. Matthew & H. Christ	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>suffrutex</i> Alderw.	<i>Cephalomanes</i>	–
<i>sumatranum</i> Alderw.	<i>Cephalomanes</i>	–
<i>superbum</i> Backh. ex T. Moore	<i>Callistopteris</i>	–
<i>taeniatum</i> Copel.	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>tahitense</i> Nadeaud	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>tamarisciforme</i> Jacq.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>tanaicum</i> Hook.	<i>Trichomanes</i>	<i>Lacostea</i>
<i>tenellum</i> Hedw.	<i>Polyphlebium</i>	–
<i>tenerum</i> A. Spreng.	<i>Polyphlebium</i>	–
<i>tenue</i> Brack.	<i>Polyphlebium</i>	–
<i>tenuifolium</i> Burm. f.	<i>Cheilanthes</i>	–
<i>tenuissimum</i> Bosch	<i>Polyphlebium</i>	–
<i>tereticaulum</i> Ching	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>teysmanni</i> Bosch	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>thouarsianum</i> C. Presl	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>thuioides</i> Desv.	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>thysanostomum</i> Makino	<i>Crepidomanes</i>	<i>Nesopteris</i>
<i>tomaniiviense</i> Brownlie	<i>Hymenophyllum</i>	<i>Sphaerocionium</i>
<i>torotumani</i> Vareschi	<i>Trichomanes</i>	<i>Lacostea</i>
<i>tosae</i> H. Christ ex Matsum.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>tranninense</i> Fée	<i>Polyphlebium</i>	–
<i>translucens</i> Kunze	<i>Polyphlebium</i>	–
<i>trichodes</i> Sw.	<i>Polyphlebium</i>	–
<i>trichoideum</i> Sw.	<i>Polyphlebium</i>	–
<i>trichophorum</i> Alderw.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>trichophyllum</i> T. Moore	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>trigonum</i> Desv.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>trinerve</i> Baker	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Gonocormus</i>
<i>trollii</i> Bergdolt	<i>Trichomanes</i>	<i>Feea</i>



## Appendix. Continued.

Basionym	Genus	Subgenus / Section
<i>Trichomanes</i> (cont.)		
<i>tuerckheimii</i> H. Christ	<i>Trichomanes</i>	<i>Lacosteia</i>
<i>tunbrigense</i> L.	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>ujhelyii</i> Kümmerle	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>ulei</i> H. Christ	<i>Polyphlebium</i> ?	—
<i>undulatum</i> Sw.	<i>Hymenophyllum</i>	<i>Mecodium</i>
<i>uniflorum</i> Cav.	<i>Crepidomanes</i> ?	<i>Nesopteris</i> ?
<i>vandenboschii</i> P.G. Windisch	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>varians</i> Alderw.	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>vaupelii</i> Brause	<i>Crepidomanes</i> ?	<i>Crepidomanes</i> / <i>Crepidomanes</i> ?
<i>vaupesensis</i> Lellinger	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>venosum</i> R.Br.	<i>Polyphlebium</i>	—
<i>venustum</i> Colenso	<i>Polyphlebium</i>	—
<i>venustum</i> Desv.	<i>Vandenboschia</i>	<i>Lacosteopsis</i>
<i>vestitum</i> Baker	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>
<i>vieillardii</i> Bosch	<i>Polyphlebium</i>	—
<i>virgatulum</i> Bosch	<i>Vandenboschia</i>	<i>Vandenboschia</i> ?
<i>viridans</i> Mett. ex Kuhn	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>viride</i> Bubani	<i>Asplenium</i>	—
<i>vitiense</i> Baker	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>vittaria</i> DC. ex Poir.	<i>Trichomanes</i>	<i>Trichomanes</i>
<i>volubile</i> Vell.	<i>Trichomanes</i>	<i>Lacosteia</i>
<i>walleri</i> Watts	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>wallii</i> Thwaites ex Trimen	<i>Didymoglossum</i>	<i>Didymoglossum</i>
<i>warburgii</i> H. Christ	<i>Abrodictyum</i>	<i>Abrodictyum</i>
<i>weddellii</i> Bosch	<i>Trichomanes</i>	<i>Davalliopsis</i>
<i>weneri</i> Rosenst.	<i>Polyphlebium</i>	—
<i>wildii</i> F.M. Bailey	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidium</i>
<i>windischianum</i> Lellinger	<i>Abrodictyum</i>	<i>Pachychaetum</i>
<i>yandinense</i> F.M. Bailey	<i>Didymoglossum</i>	<i>Microgonium</i>
<i>zollingeri</i> Bosch	<i>Cephalomanes</i>	—
<i>Vandenboschia</i>		
<i>assimilis</i> Ching & P.C. Chiu	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>inopinata</i> Pic.Serm.	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>lofoushanensis</i> Ching	<i>Vandenboschia</i>	<i>Vandenboschia</i> ?
<i>subclathrata</i> K. Iwats.	<i>Vandenboschia</i>	<i>Vandenboschia</i>
<i>titibuensis</i> H. Itô	<i>Crepidomanes</i>	<i>Crepidomanes</i> / <i>Crepidomanes</i>
<i>tubiflora</i> F.S. Wagner	<i>Vandenboschia</i>	<i>Vandenboschia</i>