Plant Names Database: Quarterly changes

30 November 2016

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This report is generated using an automated system and is therefore authored by the staff at the Allan Herbarium who currently contribute directly to the development and maintenance of the Plant Names Database. Authors are listed alphabetically after the third author. Authors have contributed as follows:

Leadership: Wilton, Heenan, Breitwieser

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Information System development: Wilton, De Pauw, Cochrane

Technical support: Boardman, Korver, Redmond, Tawiri

Disclaimer

The Plant Names Database is being updated every working day. We welcome suggestions for improvements, concerns, or any data errors you may find. Please email these to PlantInfo@landcareresearch.co.nz.

Introduction

The scientific names that are relevant to the New Zealand flora are constantly changing as we document new indigenous and exotic taxa in the flora, improve our understanding of the taxonomy and circumscription of taxa, and update information to be consistent with the International Code of Nomenclature and other standards. The purpose of this document is to provide an update of recent changes in the taxonomy and nomenclature for the New Zealand flora.

The Plant Names Database was established to record the scientific and vernacular names and taxonomy that are relevant to the New Zealand flora. It covers seed plants, ferns and lycophytes, mosses, liverworts, hornworts, and lichens that are indigenous or exotic to New Zealand. It primarily focuses on taxa that are present in the "wild" flora, but also includes information for taxa in other biostatus categories.

The staff at the Allan Herbarium update the information in the Plant Names Database, which is made available through the New Zealand Plants Website - http://nzflora.landcareresearch.co.nz, often with input and advice from botanists working in other organisations. This document summarises for the period stated below the changes in the Plant Names Database. The type of changes include:

- addition of new names
- formal merging and removal of duplicate names
- changes to the status of the name, as a preferred name or synonym for a taxon
- updates of the origin or occurrence (i.e. biostatus) of a taxon within New Zealand
- changes to the classification of a taxon
- updates of the scientific article that is being applied to a taxon to determine whether the name is a synonym or preferred name

All of these changes are logged when the data are regularly published to the New Zealand Plants website, and then automatically compiled into these reports at the end of each quarter without human intervention.

Structure of the document

The document is arranged in two parts. Part 1 provides a listing of scientific names by major taxonomic groups. Within these groups names are listed alphabetically by the type of change. Names in this section are listed in plain text and without authors.

In Part 2 the names are listed following the taxonomic classification. The type of changes are indicated by symbols following the name. Names are presented with author when available, and are correctly formatted. If a name is a synonym, the preferred name is listed on the next line.

In both parts preferred names are listed in bold.

Reporting period

This report covers the changes published between 4 September 2016 and 30 November 2016.

Notification Service

These changes are also available as a subscription service (ATOM) at the following web location:

http://nzflora.landcareresearch.co.nz/feed

Acknowledgements

The Plant Names Database is built on the contributions of a number of individuals, and continues to be maintained with significant contributions from people both within and outside of Landcare Research. In particular we would like to acknowledge the significant contributions of the following people who regularly recommend updates for the data within the Plant Names Database: Pat Brownsey (Te Papa Tongarewa Museum of New Zealand), Peter de Lange (Department of Conservation), David Galloway (Research Associate, Landcare Research), Leon Perrie (Te Papa Tongarewa Museum of New Zealand), Jeremy Rolfe (Department of Conservation), John Steele (University of Otago).

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Index of changes for Ascomycetes

Additions

Merges or Deletions

Preferred Name change

Biostatus change

Taxonomy Article change

Spelling change

Index of changes for Bryatae

Additions

Merges or Deletions

Preferred Name change

Biostatus change

Classification change

Taxonomy Article change

Spelling change

Index of changes for Hepaticae

Preferred Name change

Taxonomy Article change

Spelling change

Index of changes for Magnoliopsida

Additions

Merges or Deletions

Preferred Name change

Biostatus change

Taxonomy Article change

Spelling change

Index of changes for Polypodiopsida

Preferred Name change

Biostatus change

Taxonomy Article change

Spelling change

Hierarchical checklist of changes

The following symbols are used to indicate changes to the data.

Ⓐ: addition; ⊖: the removal or merging of scientific names; Ⓢ: a change to the spelling of the name; Ⓞ: a change in the origin information; Ⓟ: a change in th presence (occurrence) information; Ⓣ: a change in the taxonomic article; ⊜: a change to the preferred name; Ⓒ: a change to the classification (direct parent)

Ascomycetes
- Lecanorales
  - Physciaceae
    - ***Amandinea julianae* H.Mayrhofer & Elix** ⒶⓈ
      Origin: Non-endemic; Occurrence: Wild
    - ***Amandinea lignicola* Tønsberg & A.Nordin** Ⓢ
      Origin: Non-endemic; Occurrence: Wild
    - ***Amandinea nitrophila* (Zahlbr.) Elix** Ⓞ
      Origin: Non-endemic; Occurrence: Wild
    - ***Amandinea ropinii* H.Mayrhofer & Elix** Ⓢ
      Origin: Non-endemic; Occurrence: Wild
    - ***Buellia cranwelliae* Zahlbr.** Ⓞ
      Origin: Non-endemic; Occurrence: Wild
    - *Buellia litoralis* Zahlbr. ⊜ Ⓣ
      = *Amandinea litoralis* (Zahlbr.) H.Mayrhofer & Elix
      Blaha, J.; Mayrhofer, H. 2016: Five new saxicolous species of Amandinea (Ascomycota, Physciaceae) from New Zealand and southern Australia. *Australasian Lichenology 70*: 35-57.
  - Rhizocarpaceae
    - ***Rhizocarpon swartzoidea* Nyl.** ⊖

Bryatae
- *Aongstroemia* (*Campylopodium*) Müll.Hal. Ⓢ
  = *Campylopodium* (Müll.Hal.) Besch.
- *Bryobartlettia* W.R.Buck ⊜
  = *Cryphaea* D.Mohr
- *Eriopus brownii* Dixon Ⓣ
  = *Calyptrochaeta brownii* (Dixon) J.K.Bartlett
- *Erythrobarbula* Steere ⓈⒸ⊜
  = *Bryoerythrophyllum* P.C.Chen
- *Eucladium irroratum* (Mitt.) A.Jaeger ⊜
  = *Tetracoscinodon irroratus* (Mitt.) R.H.Zander
- ***Meteorium* (Brid.) Dozy & Molk.** ⓅⓈ
  Occurrence: Absent
- *Phascum integrifolium* Hook.f. & Wilson Ⓢ
  = *Acaulon integrifolium* Müll.Hal.
- *Phascum leptophyllum* Müll.Hal. Ⓣ
  = *Chenia leptophylla* (Müll.Hal.) R.H.Zander
  Zander, R.H. 1993: Genera of the Pottiaceae: mosses of harsh environments. *Bulletin of the Buffalo Society of Natural Sciences 32*: i–vi, 1-378.
- ***Pilotrichum*** Ⓟ
  Occurrence: Absent
- ***Tetraphis* Hedw.** ⓅⓈⒸⓉ
  Occurrence: Absent
- *Thysanomitrium* ⊜
  = *Thysanomitrion* Schwägr.
- Bryaceae
  - *Bryum brownianum* Dicks. Ⓣ
    = *Tetrodontium brownianum* (Dicks.) Schwägr.
- Calymperaceae
  - *Syrrhopodon dubius* Schwägr. ⓈⓉ
    = *Bryoerythrophyllum dubium* (Schwägr.) P.Sollman
    Sollman, P. 2002: Further studies on some Australian pottiaceous mosses. *Lindbergia 27*: 127-128.

Daltoniaceae

***Calyptrochaeta brownii* (Dixon) J.K.Bartlett** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Dicranaceae

***Campylopodium* (Müll.Hal.) Besch.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Campylopodium buchananii (Stirt.) Paris ⒶⓈ⊖

= *unknown*

Campylopodium flexipes (MItt.) Broth. ⓈⒸ

= *Campylopodium medium* (Duby) Giese & J.-P.Frahm

***Campylopodium lineare* (Mitt.) Dixon** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Fife, A.J.2014: Calymperaceae. *In* : *Flora of New Zealand — Mosses;*

***Campylopus acuminatus* Mitt.** ⓄⓅ

Occurrence: Absent

Campylopus acuminatus var. *kirkii* (Beckett) J.-P.Frahm ⊖ Ⓣ

= *Campylopus kirkii* Beckett

Campylopus appressifolius Mitt. Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus arboricola Cardot & Dixon Ⓣ

= *Campylopus purpureocaulis* Dusén

Campylopus arcuatus R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus arenarius R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

***Campylopus bicolor* (Müll.Hal.) Hook.f. & Wilson** Ⓣ

Origin: Non-endemic; Occurrence: Wild

***Campylopus clavatus* (R.Br.) Hook.f. & Wilson** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Campylopus cylindrothecum R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus ellipticothecum R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus ericeticola Müll.Hal. ⊖ Ⓣ

= *Campylopus bicolor* (Müll.Hal.) Hook.f. & Wilson

***Campylopus introflexus* (Hedw.) Brid.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

***Campylopus kirkii* Beckett** ⓄⓅ⊖ Ⓣ

Origin: Non-endemic; Occurrence: Wild

Campylopus kirkii var. *pilosus* Frahm ⊖ Ⓣ

= *Campylopus kirkii* Beckett

***Campylopus leptodus* Mont.** Ⓟ⊖

Occurrence: Absent

Campylopus lonchochaete Müll.Hal. ⊖ Ⓣ

= *Campylopus pallidus* Hook.f. & Wilson

Campylopus ohingaitii R.Br.bis ⊖ Ⓣ

= *Campylopus pallidus* Hook.f. & Wilson

Campylopus otaramaii R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

***Campylopus pallidus* Hook.f. & Wilson** ⓄⓅ⊖ Ⓣ

Origin: Non-endemic; Occurrence: Wild

Campylopus persimplex Müll.Hal. Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Robinson, H. 1975: The mosses of Juan Fernandez Islands. *Smithsonian Contributions to Botany 27*: 1-88.

***Campylopus purpureocaulis* Dusén** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Campylopus rarus R.Br.bis Ⓣ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus sparksii R.Br.bis ⊖ Ⓣ

= *Campylopus pallidus* Hook.f. & Wilson

Campylopus sulphureoflavus (Müll.Hal.) Paris ⓈⓉ

= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson

Campylopus torquatus Mitt. ⊖ Ⓣ
= *Campylopus pallidus* Hook.f. & Wilson
Campylopus traillii R.Br.bis Ⓣ
= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson
Campylopus walkerii R.Br.bis Ⓣ
= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson
Dicranodontium lineare Mitt. Ⓢ
= *Campylopodium lineare* (Mitt.) Dixon
Dicranum bicolor Müll.Hal. Ⓣ
= *Campylopus bicolor* (Müll.Hal.) Hook.f. & Wilson
Dicranum clavatum R.Br. Ⓣ
= *Campylopus clavatus* (R.Br.) Hook.f. & Wilson
Dicranum distractum Müll.Hal. ⊖
= *unknown*
Dicranum holomitrium Müll.Hal. ⊖
= *Campylopodium medium* (Duby) Giese & J.-P.Frahm
Dicranum introflexum Hedw. Ⓣ
= *Campylopus introflexus* (Hedw.) Brid.

Ephemeraceae
Micromitrium brevicaule Besch. Ⓒ
= *Macromitrium brevicaule* (Besch.) Broth.

Hookeriaceae
***Achrohypnella* Herzog** ⒶⓈ
Occurrence: Absent
***Cyclodictyon* Mitt.** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Hookeria ancistrodes Mont. ⒶⓈ⊖
= *Ancistrodes genuflexa* (Müll.Hal.) Crosby
Hookeria blumeana Müll.Hal. Ⓣ
= *Cyclodictyon blumeanum* (Müll.Hal.) Kuntze
Hookeria (*Sauloma*) Hook.f. & Wilson Ⓢ
= *Sauloma* (Hook.f. & Wilson) Mitt.
Hookeria tenella Hook.f. & Wilson Ⓣ
= *Sauloma tenella* (Hook.f. & Wilson) Mitt.
***Sauloma* (Hook.f. & Wilson) Mitt.** Ⓣ
Origin: Non-endemic; Occurrence: Wild

Hypopterygiaceae
Hypopterygium rotulatum (Hedw.) Brid. ⊖
= *unknown*

Orthotrichaceae
***Coleochaetium* (Besch.) Renauld & Cardot** Ⓟ
Occurrence: Absent
Macromitrium barbatum Mitt. Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
Macromitrium eucalyptorum Hampe & Müll.Hal. Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
Macromitrium eucalyptorum var. *recurvulum* (Müll.Hal.) Sainsbury Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
Macromitrium recurvulum Müll.Hal. Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
Macromitrium tenue (Hook. & Grev.) Brid. Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
***Macromitrium wellingtonianum* Vitt** Ⓟ⊖
Occurrence: Uncertain
Muelleriella crassifolia (Hook.f. & Wilson) Dusén Ⓣ
= *Orthotrichum crassifolium* Hook.f. & Wilson
Orthotrichaceae Ⓣ
Origin: Non-endemic; Occurrence: Wild
Orthotrichum austropulchellum Müll.Hal. Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum beckettii Müll.Hal. Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum clintonii R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson

Orthotrichum conicorostrum R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
***Orthotrichum crassifolium* Hook.f. & Wilson** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Orthotrichum crassifolium* Hook.f. & Wilson subsp. *crassifolium Ⓣ
Origin: Non-endemic; Occurrence: Wild
Orthotrichum cylindrothecum R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum erectum R.Br.bis Ⓣ
= *Ulota lutea* (Mitt. in Wilson) Mitt.
Dixon, H.N. 1926: Studies in the bryology of New Zealand, with special reference to the herbarium of Robert Brown. Part IV. *Bulletin, New Zealand Institute 3(4)*: 153-238.
Orthotrichum fimbriatum R.Br.bis Ⓣ
= *Orthotrichum rupestre* var. *papillosum* Lewinsky
Orthotrichum gracile Hook. Ⓣ
= *Macromitrium gracile* (Hook.) Schwägr.
Orthotrichum gracillimum R.Br.bis Ⓣ
= *Ulota lutea* (Mitt. in Wilson) Mitt.
Dixon, H.N. 1926: Studies in the bryology of New Zealand, with special reference to the herbarium of Robert Brown. Part IV. *Bulletin, New Zealand Institute 3(4)*: 153-238.
Orthotrichum inaequale R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum lancifolium R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum latorum R.Br.bis Ⓣ
= *Orthotrichum rupestre* Schwägr.
Orthotrichum leiolecythis Müll.Hal. Ⓣ
= *Orthotrichum graphiomitrium* Müll.Hal. ex Beckett
Orthotrichum obliquum R.Br.bis Ⓣ
= *Orthotrichum tasmanicum* Hook.f. & Wilson
Orthotrichum otiraense R.Br.bis Ⓣ
= *Ulota lutea* (Mitt. in Wilson) Mitt.
Dixon, H.N. 1926: Studies in the bryology of New Zealand, with special reference to the herbarium of Robert Brown. Part IV. *Bulletin, New Zealand Institute 3(4)*: 153-238.
Orthotrichum parvulum R.Br.bis Ⓣ
= *Ulota lutea* (Mitt. in Wilson) Mitt.
Dixon, H.N. 1926: Studies in the bryology of New Zealand, with special reference to the herbarium of Robert Brown. Part IV. *Bulletin, New Zealand Institute 3(4)*: 153-238.
Orthotrichum praeperistomatum Venturi Ⓣ
= *Orthotrichum rupestre* Schwägr.
Orthotrichum pulvinatum var. *praeperistomatum* (Venturi) Sainsbury Ⓣ
= *Orthotrichum rupestre* Schwägr.
Orthotrichum reflexum R.Br.bis Ⓣ
= *Orthotrichum rupestre* Schwägr.
Orthotrichum rupestriforme Venturi Ⓣ
= *Orthotrichum rupestre* Schwägr.
Orthotrichum tasmanicum* Hook.f. & Wilson var. *tasmanicum Ⓣ
Origin: Non-endemic; Occurrence: Wild
Orthotrichum tenue Hook. & Grev. Ⓣ
= *Macrocoma tenue* (Hook. & Grev.) Vitt
Orthotrichum tortulosum R.Br.bis Ⓣ
= *Ulota lutea* (Mitt. in Wilson) Mitt.
Dixon, H.N. 1926: Studies in the bryology of New Zealand, with special reference to the herbarium of Robert Brown. Part IV. *Bulletin, New Zealand Institute 3(4)*: 153-238.
Plenogemma phyllantha (Brid.) Sawicki, Plášek & Ochyra ⊖
***Ulota membranata* Malta** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Zygodon mucronatus Müll.Hal. Ⓣ
= *Zygodon hookeri* Hampe
***Zygodon rufescens* (Hampe) Broth.** ⓄⓅ
Origin: Non-endemic; Occurrence: Wild

Pilotrichaceae

***Cyclodictyon blumeanum* (Müll.Hal.) Kuntze** Ⓣ
Origin: Non-endemic; Occurrence: Wild

Cyclodictyon karstenianum (Broth. & Geh.) Broth. Ⓐ⊖ Ⓣ
= *Cyclodictyon blumeanum* (Müll.Hal.) Kuntze
Streimann, H. 1997: Taxonomic studies on Australian Hookeriaceae (Musci). 1. Introduction, and the genera *Achrophyllum*, *Callicostella*, *Chaetomitrium* and *Cyclodictyon*. *Journal of the Hattori Botanical Laboratory 82*: 281-304.
Cyclodictyon lepidum (Mitt.) Broth. & Watts. Ⓐ⊖ Ⓣ
= *Cyclodictyon blumeanum* (Müll.Hal.) Kuntze
Streimann, H. 1997: Taxonomic studies on Australian Hookeriaceae (Musci). 1. Introduction, and the genera *Achrophyllum*, *Callicostella*, *Chaetomitrium* and *Cyclodictyon*. *Journal of the Hattori Botanical Laboratory 82*: 281-304.
Pottiaceae
Anoectangium compactum Schwägr. Ⓢ
= *Anoectangium aestivum* (Hedw.) Mitt.
***Chenia leptophylla* (Müll.Hal.) R.H.Zander** Ⓣ
Origin: Exotic; Occurrence: Wild
Zander, R.H. 1993: Genera of the Pottiaceae: mosses of harsh environments. *Bulletin of the Buffalo Society of Natural Sciences 32*: i–vi, 1-378.
Streptopogon (*Calyptopogon*) Mitt. Ⓢ
= *Calyptopogon* (Mitt.) Broth.
***Tetracoscinodon* R.Br.bis** ⊖
Origin: Endemic; Occurrence: Wild
Tetracoscinodon hectorii R.Br.bis ⊖
= *Tetracoscinodon irroratus* (Mitt.) R.H.Zander
***Tetracoscinodon irroratus* (Mitt.) R.H.Zander** ⊖ Ⓣ
Origin: Endemic; Occurrence: Wild
Zander, R.H. 1993: Genera of the Pottiaceae: mosses of harsh environments. *Bulletin of the Buffalo Society of Natural Sciences 32*: i–vi, 1-378.
Tortula calycina (Schwägr.) Hook. & Grev. Ⓢ
= *Barbula calycina* Schwägr.
Weissia irrorata Mitt. ⊖
= *Tetracoscinodon irroratus* (Mitt.) R.H.Zander
Weissia recurvirostra Hedw. Ⓢ
= *Bryoerythrophyllum recurvirostrum* (Hedw.) P.C.Chen
Saulomataceae
Sauloma macrospora Sainsbury Ⓣ
= *Sauloma tenella* (Hook.f. & Wilson) Mitt.
***Sauloma tenella* (Hook.f. & Wilson) Mitt.** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Saulomataceae ⓈⓉ
Origin: Non-endemic; Occurrence: Wild
Tetraphidaceae
Tetraphidaceae Ⓣ
Origin: Non-endemic; Occurrence: Wild
Tetraphis browniana (Dicks.) Grev. Ⓣ
= *Tetrodontium brownianum* (Dicks.) Schwägr.
***Tetrodontium* Schwägr.** Ⓣ
Origin: Non-endemic; Occurrence: Wild
***Tetrodontium brownianum* (Dicks.) Schwägr.** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Timmiaceae
Timmiaceae Ⓣ
Origin: Non-endemic; Occurrence: Wild
Charophyceae
Charales
Characeae
***Chara braunii* var. *divergens* R.D.Wood** Ⓢ
Hepaticae
Jungermanniales
Jungermanniaceae
Jungermannia conjugata Hook. Ⓢ⊖ Ⓣ
= *Chiastocaulon conjugatum* (Hook.) S.D.F. Patzak, M.A.M.Renner, Schäf.-Verw. & Heinrichs
Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of

Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochilaceae

Acrochila R.M.Schust. ⊖ Ⓣ

= *Chiastocaulon* Carl

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Acrochila biserialis (Lehm. & Lindenb.) Grolle ⊖ Ⓣ

= *Chiastocaulon biserialis* (Lehm. & Lindenb.) S.D.F. Patzak, M.A.M. Renner, Schäf.-Verw. & Heinrichs,

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochila biserialis Lehm. & Lindenb. ⊖ Ⓣ

= *Chiastocaulon biserialis* (Lehm. & Lindenb.) S.D.F. Patzak, M.A.M. Renner, Schäf.-Verw. & Heinrichs,

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochila prolifera Mitt. Ⓢ⊖ Ⓣ

= *Chiastocaulon proliferum* (Mitt.) S.D.F. Patzak, M.A.M.Renner, Schäf.-Verw. & Heinrichs

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochila radiculosa Mitt. ⊖ Ⓣ

= *Cryptoplagiochila radiculosa* S.D.F.Patzak, M.A.M.Renner & Heinrichs,

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochila recta Colenso ⊖ Ⓣ

= *Cryptoplagiochila radiculosa* S.D.F.Patzak, M.A.M.Renner & Heinrichs,

Plagiochila wattsii Steph. ex Rodway ⊖ Ⓣ

= *Cryptoplagiochila radiculosa* S.D.F.Patzak, M.A.M.Renner & Heinrichs,

Plagiochilion ⊖ Ⓣ

= *Chiastocaulon* Carl

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochilion conjugatum (Hook.) R.M.Schust. ⊖ Ⓣ

= *Chiastocaulon conjugatum* (Hook.) S.D.F. Patzak, M.A.M.Renner, Schäf.-Verw. & Heinrichs

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Plagiochilion proliferum (Mitt.) R.M.Schust. ⊖ Ⓣ

= *Chiastocaulon proliferum* (Mitt.) S.D.F. Patzak, M.A.M.Renner, Schäf.-Verw. & Heinrichs

Patzak, S.D.F.; Renner, M.A.M.; Schäfer-Verwimp, A.; Feldberg, K.; Heslewood, M.M.; Peralta, D.F.; de Souza, A.M; Schneider, H.; Heinrichs, J. 2016: A phylogeny of Lophocoleaceae-Plagiochilaceae-Brevianthaceae and a revised classification of Plagiochilaceae. *Organisms Diversity & Evolution 16(3)*: 481-495.

Magnoliopsida
Alismatales
Araceae
Spathiphyllum ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Apiales
Umbelliferae
Sium ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Asparagales
Orchidaceae
Gastrodia "long column" Ⓢ⊖ Ⓣ
= *Gastrodia molloyi* Lehnebach & J.R.Rolfe
Lehnebach, C.A.; Rolfe, J.R.; Gibbins, J.; Ritchie, P. 2016: Two new species of *Gastrodia* (Gastrodiae, Orchidaceae) endemic to New Zealand. *Phytotaxa 277(3)*: 237-254.
Asterales
Compositae
***Eclipta prostrata* (L.) L.** ⓄⓅ
Origin: Exotic; Occurrence: Uncertain
Santolina rosmarinifolia* L. subsp. *rosmarinifolia ⒶⓈ
Origin: Exotic; Occurrence: Sometimes present
***Tagetes lemmonii* A.Gray** Ⓢ
Origin: Exotic; Occurrence: Sometimes present
Brassicales
Cruciferae
***Brassica rapa* subsp. *nipposinica* (L.H.Bailey) Hanelt** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Cheiranthus L. ⊖ Ⓣ
= *Erysimum* L.
Mabberley, D.J. 2008: *Mabberley's plant book, a portable dictionary of plants, their classification and uses.* Cambridge University Press. 1021 p.
Cheiranthus cheiri L. ⊖ Ⓣ
= *Erysimum cheiri* (L.) Crantz
Mabberley, D.J. 2008: *Mabberley's plant book, a portable dictionary of plants, their classification and uses.* Cambridge University Press. 1021 p.
Caryophyllales
Aizoaceae
***Trianthema* L.** ⓄⓅⓈ
Origin: Exotic; Occurrence: Sometimes present
***Trianthema portulacastrum* L.** ⓄⓅ
Origin: Exotic; Occurrence: Sometimes present
Amaranthaceae
Theleophyton (Hook.f.) Moq. ⊖ Ⓣ
= *Atriplex* L.
Mabberley, D.J. 2008: *Mabberley's plant book, a portable dictionary of plants, their classification and uses.* Cambridge University Press. 1021 p.
Caryophyllaceae
***Illecebrum verticillatum* L.** Ⓣ
Origin: Exotic; Occurrence: Wild
Webb, C.J.; Sykes, W.R.; Garnock-Jones, P.J. 1988: *Flora of New Zealand. Vol. IV. Naturalised Pteridophytes, Gymnosperms, Dicotyledons.*Christchurch, Botany Division DSIR.
Dioscoreales
Burmanniaceae
***Thismia rodwayi* F.Muell.** ⓄⓅ
Origin: Non-endemic; Occurrence: Wild
Ericales
Actinidiaceae
***Actinidia polygama* (Siebold & Zucc.) Maxim.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Ericaceae
***Erica sparsa* Lodd.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present

Sapotaceae
***Planchonella* Pierre** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Theaceae
Gordonia axillaris (Roxb. ex Ker Gawl.) Endl. Ⓢ⊖
= *Polyspora axillaris* (Roxb. ex Ker Gawl.) Sweet ex G.Don
Fabales
Leguminosae
***Arachis* L.** ⓄⓅⓈ
Origin: Exotic; Occurrence: Sometimes present
***Arachis hypogaea* L.** ⓄⓅ
Origin: Exotic; Occurrence: Sometimes present
***Hippocrepis emerus* (L.) Lassen** Ⓣ
Origin: Exotic; Occurrence: Sometimes present
Lassen, P. 1989: A new delimitation of the genera *Coronilla*, *Hippocrepis* and *Securigera* (Fabaceae). *Willdenowia 19*: 49-62.
Inga edulis Mart. ⊖ Ⓣ
= *Inga ynga* (Vell.) J.W.Moore
***Inga ynga* (Vell.) J.W.Moore** ⓄⓅⓈ⊖ Ⓣ
Origin: Exotic; Occurrence: Sometimes present
Mimosa ynga Vell. ⊖
= *Inga ynga* (Vell.) J.W.Moore
Sutherlandia frutescens (L.) R.Br. ex W.T.Aiton Ⓢ
= *Lessertia frutescens* (L.) Goldblatt & J.C.Manning
Fagales
Betulaceae
***Alnus rubra* Bong.** Ⓟ
Origin: Exotic; Occurrence: Wild
Nothofagaceae
***Fuscospora* (R.S.Hill & J.Read) Heenan & Smissen** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Smissen, R.D.; Richardson, S.J.; Morse, C.W.; Heenan, P.B. 2014: Relationships, gene flow and species boundaries among New Zealand *Fuscospora* (Nothofagaceae: southern beech). *New Zealand Journal of Botany 52(4)*: 389-406.
***Fuscospora cliffortioides* (Hook.f.) Heenan & Smissen** Ⓣ
Origin: Endemic; Occurrence: Wild
Smissen, R.D.; Mitchell, C.; Roth, M.; Heenan, P.B. 2015: Absence of hybridisation between *Fuscospora* species at a site in Arthur's Pass National Park, New Zealand. *New Zealand Journal of Botany 53(3)*: 168-174.
***Fuscospora fusca* (Hook.f.) Heenan & Smissen** Ⓣ
Origin: Endemic; Occurrence: Wild
Smissen, R.D.; Richardson, S.J.; Morse, C.W.; Heenan, P.B. 2014: Relationships, gene flow and species boundaries among New Zealand *Fuscospora* (Nothofagaceae: southern beech). *New Zealand Journal of Botany 52(4)*: 389-406.
***Fuscospora solandri* (Hook.f.) Heenan & Smissen** Ⓣ
Origin: Endemic; Occurrence: Wild
Smissen, R.D.; Richardson, S.J.; Morse, C.W.; Heenan, P.B. 2014: Relationships, gene flow and species boundaries among New Zealand *Fuscospora* (Nothofagaceae: southern beech). *New Zealand Journal of Botany 52(4)*: 389-406.
***Fuscospora truncata* (Colenso) Heenan & Smissen** Ⓣ
Origin: Endemic; Occurrence: Wild
Smissen, R.D.; Richardson, S.J.; Morse, C.W.; Heenan, P.B. 2014: Relationships, gene flow and species boundaries among New Zealand *Fuscospora* (Nothofagaceae: southern beech). *New Zealand Journal of Botany 52(4)*: 389-406.
***Lophozonia* Turcz.** Ⓣ
Origin: Non-endemic; Occurrence: Wild
Heenan, P.B.; Smissen, R.D. 2013: Revised circumscription of *Nothofagus* and recognition of the segregate genera *Fuscospora*, *Lophozonia*, and *Trisyngyne* (Nothofagaceae). *Phytotaxa 146(1)*: 1-31.
Gentianales
Apocynaceae
***Alyxia* Banks ex R.Br.** ⒶⓄⓅ
Origin: Exotic; Occurrence: Sometimes present

Alyxia ruscifolia* R.Br. var. *ruscifolia Ⓐⓢ
Origin: Exotic; Occurrence: Sometimes present
***Cascabela* Raf.** ⓄⓅ⊖ Ⓣ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Cascabela thevetia* (L.) Lippold** ⓄⓅ⊖ Ⓣ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Cerbera peruviana Pers. ⊖
= *Cascabela thevetia* (L.) Lippold
Cerbera thevetia L. ⊖
= *Cascabela thevetia* (L.) Lippold
Thevetia peruviana (Pers.) K.Schum. ⊖ Ⓣ
= *Cascabela thevetia* (L.) Lippold
Rubiaceae
Coprosma "taylorae" ⊖
= *Coprosma dumosa* (Cheeseman) G.T.Jane
Coprosma sp. (t) sensu Eagle ⊖
= *Coprosma dumosa* (Cheeseman) G.T.Jane
***Richardia* L.** ⓄⓅⓢ
Origin: Exotic; Occurrence: Sometimes present
Gunnerales
Gunneraceae
***Gunnera manicata* Linden ex Delchev.** Ⓣ
Origin: Exotic; Occurrence: Sometimes present
Shaw, J.M.H. 2007: A new author citation for *Gunnera manicata*, and a note on a little known botanical author. *Hanburyana 2*: 46-49.
Lamiales
Acanthaceae
Hygrophila angustifolia R.Br. ⊖ Ⓣ
= *Hygrophila ringens* (L.) R.Br. ex Spreng. var. *ringens*
Flora of China
Labiatae
***Plectranthus mahonii* (Baker) N.E.Br. ex Hook.f.** Ⓢ
Origin: Exotic; Occurrence: Sometimes present
***Salvia splendens* Sellow ex Nees** Ⓢ
Origin: Exotic; Occurrence: Sometimes present
Plantaginaceae
***Scoparia* L.** ⓄⓅⓢ
Origin: Exotic; Occurrence: Sometimes present
Magnoliales
Magnoliaceae
***Magnolia ×soulangeana* Soul.-Bod.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Malpighiales
Euphorbiaceae
***Manihot esculenta* Crantz** ⓄⓅ
Origin: Exotic; Occurrence: Sometimes present
Passifloraceae
***Passiflora foetida* L.** ⓄⓅⓢ
Origin: Exotic; Occurrence: Sometimes present
Malvales
Malvaceae
***Abelmoschus* Medik.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
***Abelmoschus manihot* (L.) Medik.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
***Abutilon megapotamicum* (A.Spreng.) A.St.-Hil. & Naudin** Ⓢ
Origin: Exotic; Occurrence: Wild
Muntingiaceae
***Muntingia* L.** ⓄⓅ
Origin: Exotic; Occurrence: Sometimes present
***Muntingia calabura* L.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present

Myrtales
Lythraceae
***Rotala* L.** ⓅⓈ
Origin: Exotic; Occurrence: Sometimes present
Poales
Cyperaceae
Pycreus sanguinolentus (Vahl) Nees Ⓣ
= *Cyperus sanguinolentus* Vahl
Larridon, I.; Bauters, K.; Reynders, M.; Huygh, W.; Goetghebeur, P. 2014: Taxonomic changes in C4 *Cyperus* (Cypereae, Cyperoideae, Cyperaceae): combining the sedge genera *Ascolepis*, *Kyllinga* and *Pycreus* into *Cyperus s.l.*. *Phytotaxa 16(1)*: 33-48.
Ranunculales
Berberidaceae
***Vancouveria hexandra* (Hook.) C.Morren & Decne.** Ⓢ
Origin: Exotic; Occurrence: Sometimes present
Rosales
Moraceae
***Dorstenia* L.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
***Dorstenia contrajerva* L.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Rosaceae
Duchesnea Smith Ⓣ
= *Potentilla* L.
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
Duchesnea indica (Andrews) Focke Ⓣ
= *Potentilla indica* (Andrews) Th.Wolf
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
***Fragaria* L.** ⊖ Ⓣ
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
Fragaria ananassa Duchesne ⊖
= *Fragaria ×ananassa* (Weston) Duchesne ex. Rozier
***Fragaria vesca* L.** ⊖ Ⓣ
Origin: Exotic; Occurrence: Wild
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
***Fragaria ×ananassa* (Weston) Duchesne ex. Rozier** Ⓢ⊖ Ⓣ
Origin: Exotic; Occurrence: Sometimes present
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
***Potentilla indica* (Andrews) Th.Wolf** Ⓣ
Origin: Exotic; Occurrence: Wild
Christenhusz, M.J.M.; Zhang, X.-C.; Schneider, H. 2011: A linear sequence of extant families and genera of lycophytes and ferns. *Phytotaxa 19*: 7-54.
Potentilla vesca (L.) Scop. ⊖ Ⓣ
= *Fragaria vesca* L.
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
Potentilla ×ananassa (Weston) Mabb. Ⓢ⊖ Ⓣ
= *Fragaria ×ananassa* (Weston) Duchesne ex. Rozier
Bean, A.R. 2015: Notes on *Potentilla* (Rosaceae) and related genera in Australia. *Muelleria 33*: 75-83.
***Sanguisorba minor* subsp. *balearica* (Bourg. ex Nyman) Muñoz Garm. & C.Navarro** ⓄⓅ
Origin: Exotic; Occurrence: Wild
Urticaceae
***Urtica dioica* subsp. *gracilis* (Aiton) Selander** Ⓣ
Occurrence: Absent
Grosse-Veldmann, B.; Conn, B.J.; Weigend, M. 2016: Weeding the nettles IV: A redefinition of *Urtica incisa* and allies in New Zealand and Australia, including the

segregation of two new species *Urtica sykesii* and *U. perconfusa*. *Phytotaxa 245(4)*: 251-261.

Urtica incisa var. *linearifolia* (Hook.f.) Cheeseman Ⓢ

= *Urtica incisa* Poir.

Sapindales

Rutaceae

***Choisya* Kunth** ⓅⓈ

Origin: Exotic; Occurrence: Sometimes present

***Choisya ternata* Kunth** Ⓟ

Origin: Exotic; Occurrence: Sometimes present

Sapindaceae

***Acer rubrum* L.** Ⓟ

Origin: Exotic; Occurrence: Sometimes present

Saxifragales

Crassulaceae

***Aeonium canariense* (L.) Webb & Berthel.** Ⓢ

Origin: Exotic; Occurrence: Sometimes present

***Crassula alata* (Viv.) A.Berger** Ⓣ

Origin: Exotic; Occurrence: Sometimes present

Heenan, P.B.; de Lange, P.J.; Cameron, E.K.; Ogle, C.C.; Champion, P.D. 2004: Checklist of dicotyledons, gymnosperms, and pteridophytes naturalised or casual in New Zealand: additional records 2001–2003. *New Zealand Journal of Botany 42*: 797-814.

Solanales

Solanaceae

***Physalis angulata* L.** ⓄⓅ

Origin: Exotic; Occurrence: Sometimes present

Solanum rantonnei Carrière ⊖

Solanum rantonnetii Carrière

= *Lycianthes rantonnetii* (Carrière) Bitter

Pinopsida

Pinales

Araucariaceae

***Araucaria cunninghamii* Aiton ex A.Cunn** Ⓟ

Origin: Exotic; Occurrence: Sometimes present

Cupressaceae

***Taxodium distichum* (L.) Rich.** Ⓟ

Origin: Exotic; Occurrence: Sometimes present

Podocarpaceae

***Podocarpus macrophyllus* (Thunb.) Sweet** Ⓟ

Origin: Exotic; Occurrence: Sometimes present

Podocarpus macrophyllus* (Thunb.) Sweet var. *macrophyllus ⓄⓅ

Origin: Exotic; Occurrence: Sometimes present

Polypodiopsida

Cyatheales

Dicksoniaceae

Dicksonia davallioides R.Br.

= *Dennstaedtia davallioides* (R.Br.) T.Moore

Hymenophyllales

Hymenophyllaceae

Trichomanes chinense L. ⊖

= *Odontosoria chinensis* (L.) J.Sm.

Polypodiales

Aspleniaceae

***Asplenium decurrens* Willd.** Ⓞ⊖ Ⓣ

Origin: Non-endemic; Occurrence: Wild

Asplenium northlandicum (Brownsey) Ogle ⊖ Ⓣ

= *Asplenium decurrens* Willd.

Brownsey, P.J.; Perrie, L.R. 2016: *Asplenium decurrens* Willd., an earlier name for *A. northlandicum* (Brownsey) Ogle. *New Zealand Journal of Botany 54(4)*: 515-519.

Asplenium obtusatum subsp. *northlandicum* Brownsey ⊖ Ⓣ

= *Asplenium decurrens* Willd.

Brownsey, P.J.; Perrie, L.R. 2016: *Asplenium decurrens* Willd., an earlier name for *A. northlandicum* (Brownsey) Ogle. *New Zealand Journal of Botany 54(4)*: 515-519.

Asplenium sarmentosum Willd. ⊖ Ⓣ
= *Asplenium decurrens* Willd.
Brownsey, P.J.; Perrie, L.R. 2016: *Asplenium decurrens* Willd., an earlier name for *A. northlandicum* (Brownsey) Ogle. *New Zealand Journal of Botany 54(4)*: 515-519.

Dennstaedtiaceae

***Dennstaedtia* Bernh.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present

***Dennstaedtia davallioides* (R.Br.) T.Moore** Ⓟ
Origin: Exotic; Occurrence: Sometimes present

***Dennstaedtiaceae* Lotsy** ⓄⓈ
Origin: Non-endemic; Occurrence: Wild

***Histiopteris* (J.Argardh) J.Sm.** Ⓞ
Origin: Non-endemic; Occurrence: Wild

Lindsaeaceae

***Lindsaea* Dryand. ex Sm.** Ⓞ
Origin: Non-endemic; Occurrence: Wild

***Lindsaeaceae* C.Presl ex M.R.Schomb.** Ⓢ

***Odontosoria chinensis* (L.) J.Sm.** ⓄⓅ⊖
Origin: Exotic; Occurrence: Sometimes present

Sphenomeris chinensis (L.) Maxon ⊖
= *Odontosoria chinensis* (L.) J.Sm.

Sphenomeris chusana (L.) Copel. ⊖
= *Odontosoria chinensis* (L.) J.Sm.

Pteridaceae

Pteris incisa Thunb.
= *Histiopteris incisa* (Thunb.) J.Sm.


Manaaki
Whenua
PRESS