



## In memoriam David G. Frodin (8 April 1940 – 12 August 2019)

R. Cámara-Leret<sup>1</sup>, B.J. Conn<sup>2</sup>

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**Fig. 1** David (2018) writing species descriptions in London. Photo by Tony Barrett.

David Gamman Frodin passed away unexpectedly at the West Middlesex Hospital (London) on 12 August 2019. He was unaware that bladder cancer had taken hold and metastasized. The memorial service held at Arch 8 in Kew Bridge (London) on 5 September 2019 overflowed with his colleagues, neighbours and friends. The scientific community has lost a brilliant individual and one of the last Titans of New Guinean botany.

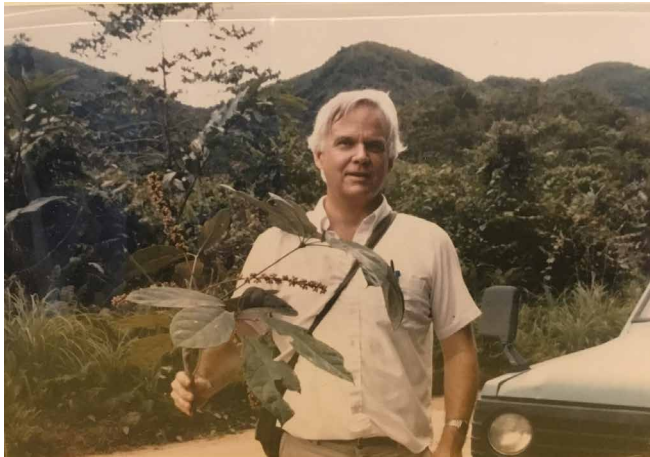
David was born on 8 April 1940 in Chicago, Illinois, USA, to Reuben S. Frodin, then a student at the Law School of the University of Chicago, and his wife, Rebecca D. Hayward, a linguist, also a graduate of that university. David was the elder of two children; his sister, Joanna, survives him. David attended the Laboratory School of the University of Chicago and, at the age of 11, moved with his family to Albany, New York, where he attended the Albany Academy for Boys. David's love for botany

began in Vermont where he spent endless summer hours walking the woods and developing a good sense of the terrain and geography. His school projects at the Albany Academy led to his first properly dried and labelled collections of leaves from Vermont trees. With his father, David shared a fascination for trains and learned encyclopaedic amounts about them. However, those teenage years were not easy. David did not make friends readily at the Academy because his non-sporting interests and solitary pursuits set him apart. In 1957, his father received a Fulbright scholarship to teach in Australia at the University of New South Wales. David enrolled at the age of 17 at the Sydney Boys High School. It was a pivotal, formative year that engendered a love for the tropical flora that lasted for the rest of his life.

David completed his first degree in botany from the University of Chicago in 1963 and went on to complete two Master of Science degrees: the first at the Department of Botany at the University of Tennessee in 1964 with a thesis entitled *A preliminary revision of the section Anemonanthea of Anemone in eastern North America, with special reference to the southern*

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**Fig. 2** David collecting in the highlands of Papua New Guinea.

*Appalachian Mountains*; the second at the University of Liverpool (UK) in 1965 with a thesis entitled *Generic and sectional limits in Cytisus L. s.lat.* (see bibliography below). His early exposure to classical music helped him become a talented piano player, and he ran a Sunday morning Bach program on the University's radio station. During this time, David wrote a first cyclostyled version of what would become his monumental *Guide to standard Floras of the World*, an annotated bibliography of the most useful complete floras, checklists and related works on the vascular plants of the world.

From October 1965 to October 1966, David worked as a scientific officer in Papua New Guinea (PNG) at the Division of Botany, Office of Forests, Lae (LAE herbarium). He travelled extensively throughout PNG (West Sepik, Madang, Morobe, Southern Highlands, West New Britain, and Bougainville) and collected c. 1000 botanical specimens that significantly enhanced the LAE herbarium that had opened in 1965 (see below 'Collections by David G. Frodin'). One of his trips was as part of the joint LAE-Rijksherbarium Leiden mountain expedition of 1966 with Andrew Gillison, Cornelis (Cees) Kalkman and Willem (Wim) Vink to the Doma Peaks and Telefomin regions (Van Steenis-Kruseman 2011). After his contract ended, David visited herbaria in Brisbane, Sydney and Melbourne and made field trips in Australia until June 1967. In 1967, he received a scholarship to undertake studies towards a Doctor of Philosophy at Cambridge University (UK) under the supervision of Prof. Edred J.H. Corner, a stellar figure in botany. They would become life-long friends. David completed his degree in 1971 with a dissertation entitled *The complex of Cephaloschefflera in Schefflera*.

From 1971–1985, David worked as lecturer in botany at the University of Papua New Guinea (UPNG), at Boroko, where he taught one of its first generation of students of botany and greatly enlarged the herbarium collection. David loved taking students on field trips to share his enthusiasm and knowledge, and was liked because of his erudition but also because he treated Papua New Guineans as equals. He participated in several international expeditions during this period, including the high mountain expeditions to Mt Suckling in 1972 (with Jan Frederik ('JeF') Veldkamp, Royal Pullen and Peter F. Stevens, among others) and to Mt Victoria in 1976 (with Pieter van Royen, Paul Kores and Richard T. Corlett). These expeditions seemed to have been inspirational to him. In 1978, the UPNG herbarium fire (Frodin & Leach 1980) constituted an enormous blow to David, since he lost early collections of specimens, many research notes, and most of his books. Fortunately, he had kept at home his writings related to the *Guide* and he continued to work on it until its publication in 1984. Its completion was very time-



**Fig. 3** David studying *Osmoxylon* at the British Museum (12 May 1995) as part of a project with Barry Conn to revise the genus for the Solomon Islands. Photo by Barry Conn.

consuming because he had to write it on a typewriter at home, using carbon paper. In 1983, David received the appointment as Associate Professor in Botany (at UPNG), but this period of his life proved to be difficult: he had developed a medical condition – a product of poor diet and stress – that interfered with his work, and the university did not renew his contract.

During his PNG phase, he published the first printed edition of his *Guide to standard Floras of the World* (Cambridge University Press) and 21 articles on the taxonomy and ethnobotany of *Schefflera*, biogeography of Papuan mangroves, and vegetation of montane forests. Many of his students went on to become important figures, including the late Andrew Yuaieb, who was the first Papua New Guinean to obtain a forestry degree from the Australian National University and became head of Forestry in PNG, then PNG Ambassador to the EU and later Chancellor of UPNG; David Linge, who became the first Papua New Guinean to obtain a PhD (in plant diseases from the University of London); Simon Saulei, who became the Director of the PNG Forest Research Institute, Lae, and is currently Professor of Biology at UPNG; Mickie Benjamin, a BSc graduate from UPNG who joined the Division of Botany in late 1976 and was the first and only female Papua New Guinean to enter this branch as a professional botanist; Karl Karenga, who joined the staff of the Bulolo Forestry College in 1977 to work as an assistant lecturer (to Barry Conn) and later became Manager of the Biology Program at LAE; and Camilla Huxley (UK), an expatriate MSc graduate who became a well-known expert on ant-plant interactions.

David returned to the United States in 1985 and obtained a position as a Research Associate in the Department of Botany, at the Philadelphia Academy of Natural Science with Benjamin Stone, an old friend and mentor. After a few years, he became the Collections manager, but in 1989 Ben Stone left the Academy and the Department decided to eliminate David's position. Relentless, he kept working on his revision to the *Guide* and during the next three years took assignments in the United Kingdom (the Royal Horticultural Society's Dictionary of Gardening, working on its Bibliography), Malaysia (US Cancer Institute sampling program) and Papua New Guinea (1992–1993 ethnobiological study on the Miyanmin tribe of the Telefomin District, with anthropologist George E.B. Morren of Rutgers University, New Jersey). During 1985–1993, David published ten articles on the taxonomy and nomenclature of the *Araliaceae* of the Philippines, Java, Pacific, Caribbean, Neotropics and Guyanas. Additionally, he published five articles on the history and status of botanical exploration in New Guinea.



In 1993, David obtained a position as a Senior Scientific Officer at the herbarium of the Royal Botanic Gardens, Kew. He rented a flat in Gloucester Court, later purchasing one on the third floor, which had a view of the Chinese Pagoda of Kew Gardens. He loved living there and gave generously of his time to the Gloucester Court complex, becoming its Director from 2001 until he passed away. David worked with his assistant Rafaël Govaerts on a standard series of reference works entitled the *World checklists and bibliographies of seed plants*. These checklists were part of the 'Benchmark Bibliography' project, launched in 1993, to document key literature on the families and genera of the world's vascular flora. The first publication, in 1996, was the *World checklist and bibliography of Magnoliaceae*; it was followed by six others (the last in 2007).

In 1994, David suffered a heart attack that led to quadruple by-pass surgery; years of inadequate diet in PNG, stress and insufficient exercise had apparently compromised his health. Nevertheless, David remained active and published 20 works from 1994–2001, including five *World checklists* on selected plant families and taxonomic revisions on the *Araliaceae* of Sri Lanka, China, Malesia, Solomon Islands, New Zealand, and Venezuelan Guyana. The Solomon Islands article was the result of an entertaining sorting method that Barry Conn (then Australian Botanical Liaison Officer at Kew) and David pursued. Barry told David that there were several new species of *Osmoxylon* in the Solomon Islands and David could not resist! Barry sorted the collections based on morphological features on one of the large benches in one of the wings at Kew, while David directed from the open walkway on the next floor. To the amusement of many of the staff, they sorted and re-sorted the collections until similar specimens were arranged together into piles on the huge desk. After one week of such directions from David on high, they finally agreed that the specimens were sorted into morphologically distinct taxa. They started and finished the manuscript within the month, covering 16 species, of which 10 were new to science (Conn & Frodin 1995).

In 2000, David turned 60, which under Thatcher labour laws meant that staff at Kew had to retire. This date coincided with the departure of the Director, Prof. Ghilleen T. Prance, who had supported the annotated approach to the *World checklists*. With fewer funds, David's work at Kew, as a contractor, was not extended. Given his love for Kew, this lack of opportunity constituted a major setback, which bothered him for a long time. However, David continued to work there as an Honorary Research Associate for the rest of his life. Being a perfectionist and a lover of detail, he never stopped researching and expanding his *Guide* and the second edition of 1100 pages was published in 2001. For this work, David was awarded the 'Engler Medal in Silver' in 2002 – a prize awarded yearly since 1987 by the International Association of Plant Taxonomy for an outstanding publication in monographic or floristic plant systematics. Accompanied by his father and sister, David received the medal at the country home of Linnaeus in Uppsala, Sweden.

Retirement was an alien concept to David, for whom botany was a driving force and a way of life. Thus, from 2005–2009 he took a job as a scientific advisor at the Chelsea Physic Garden – one of the oldest botanical gardens of medicinal plants in Britain – and worked on a checklist of the garden's medicinal plants and as a consultant for the gardeners. Subsequently, David spent much time at Kew conducting research, writing and going through his collection of specimens sent from PNG in the 1980s. One of this most important contributions in his 'retirement years' was the 94-page book chapter *Biological exploration of New Guinea* in *The ecology of Papua* two-volume series (eds A.J. Marshall & B.M. Beehler). Synthesising 500 years of information, David's scholarly and elegant work will forever remain a classic on the history of botanical, zoological and

ethnographic research in New Guinea. From 2016–2019, David collaborated enthusiastically on several projects with Rodrigo Cámara-Leret at Kew, including building the first checklist to all the vascular plants of New Guinea (Cámara-Leret et al. 2020), co-supervising with Lisa Pokorny and Rodrigo the MSc thesis of Zhi Qiang Shee on the evolutionary history of *Schefflera* in Papuasia, (Shee et al. 2020), and describing 30 new *Schefflera* species (Frodin & Cámara-Leret in prep.). Despite being retired, David received the commendation as the most productive taxonomist of the year 2018 at the *Kew Science Away Day* for his book with Aida Shafreena and Todd Barkman entitled *The genus Schefflera in Sabah, Malaysian Borneo* (<https://www.nhpborneo.com/book/the-genus-schefflera/>).

During his career, David described one new genus (*Metapanax* J.Wen & Frodin), 5 new subgenera (of *Schefflera*), 72 new species (mostly in the *Araliaceae*) and 10 new infraspecific taxa (see complete list below). As a mentor, David played an instrumental role in the career development of many New Guineans. He was also extremely supportive with the next generation of *Araliaceae* taxonomists, including Peter Lowry II (MO), Jun Wen (US), and Pedro Fiaschi (UFSC), with whom he published numerous papers.

David was a gentleman, who treated everyone as his equal and was very generous with his time, materials and knowledge. As a polymath and an avid reader, he loved to engage in intellectual conversations, and his memory was so exceptional that his PNG colleagues defined him as 'their Wikipedia before the Internet'. Above all, his kindness, generosity and sharp intellect benefitted generations of botanists, and made David an extraordinary colleague and a wonderful friend.

**Acknowledgements** We especially thank Joanna Frodin who kindly provided many details of David's life, reviewed the text and deepened our understanding of David's personality. We extend our gratitude to the following people for generously sharing their personal stories about David: Peter Boyce, Jim Croft, Pedro Fiaschi, Osia Gideon, Alistair Hay, Peter Jobson, Greg Leach, Peter Lowry II, Neville Marchant, and Jun Wen. We thank David Mabblerley and Pieter Baas for their review of this work.

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## Eponymy

- Aralia frodiniana* J.Wen, Novon 11 (2001) 498.
- Cinnamomum frodinii* Kosterm., Reinwardtia 8 (1970) 42.
- Glochidion frodinii* Airy Shaw, Kew Bulletin 27 (1972) 51.
- Medinilla frodinii* Bodegom, Blumea 46 (2001) 543.
- Neocussonia frodiniana* (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin, Candollea 72 (2017) 278.
- Phyllanthus frodinii* Airy Shaw, Kew Bulletin 27 (1972) 74.
- Psychotria frodinii* Sohmer, Bishop Museum Bulletins in Botany 1 (1988) 107.
- Schefflera frodiniana* Bernardi, Candollea 24 (1969) 103 (synonym of *Neocussonia frodiniana*, see above)

### Collections by David G. Frodin

Note — Data extracted from the PNGplants database (Conn et al. 2004+). Many collections have been incorrectly data processed such that the collection number has not been included, especially for the NGF series. Many collections made during 1965 and 1966 are incorrectly recorded as 'NGF s.n.' Also, the numbering used is not always in sequence. This may suggest that the collection numbers were not added in the field. Several UPNG series collections are also data processed without a number. Many collections collected in 1972 have been erroneously recorded as collected during 1992. The number of plant collections made by David is unclear because many numbers appear to be absent (perhaps the data has not yet been processed). It is estimated that he made approximately 3000 collections in Papua New Guinea.

The collecting trips are described in more detail till 1973 in <http://www.nationalherbarium.nl/FMCollectors/F/FrodinDG.htm>.

- 1965 – NGF26201–NGF26384: Morobe (Bulolo/Wau), New Britain (Talasea).
- 1966 – NGF26386–NGF27413, NGF28101–NGF28542, NGF30350, NGF30352, NGF32001–NGF32200: West Sepik (Hindenburg Range/Telefomin), Madang, Morobe, Southern Highlands (Tari), New Britain (Talasea), Bougainville (Arawe): some with E.E. Henty (New Britain), some with C. Ridsdale (Morobe).
- 1971 – UPNG515–UPNG817, UPNG1010–UPNG1037, UPNG1198, UPNG1228, UPNG7524–UPNG7529: Central (Port Moresby area, including Waigani Swamp, UPNG Botanic Gardens), joint collectors included A.N. Gillison, A.N. Millar, M. Kellock, A. Yauieb.
- 1972 – UPNG820–UPNG990, UPNG2008–UPNG2200, UPNG2331–UPNG2836, UPNG4010–UPNG4146: West Sepik (Telefomin area), Milne Bay, Papuan Islands, Manus.
- 1973 – UPNG4152–UPNG4229: Western Highlands (Mt Hagen area), Southern Highlands (Ialibu), Central (Hiritano Highway), New Ireland (Lelet Plateau).
- 1974 – UPNG4231–UPNG4451: West Sepik (Torricelli Ranges), Madang (Kar Kar Island), Morobe (Kaisenik Road extension, Mt Kaindi), Central (Port Moresby area, including Motupore Island, Hiritano Highway, Varirata Plateau, Sogeri Plateau and other localities).
- 1975 – UPNG3135–UPNG3142, UPNG4455–UPNG4499: Morobe (Wau Ecology Institute), Western (Tabubil/Lake Murray), Central (Port Moresby area, including Motupore Island).
- 1976<sup>1</sup> – UPNG3140–UPNG3143: Central (Port Moresby area).
- 1978 – UPNG6507–UPNG6639, UPNG7575, UPNG8078: Madang (township, Gogol), Morobe (Bulolo/Wau), Central (Magi Highway): some with P. Driscoll, some with A. Hay.
- 1979 – UPNG5208–UPNG5245, UPNG6642–UPNG6644, UPNG6834–UPNG6852, UPNG6868, UPNG7365 UPNG7556–UPNG7580: Central (Port Moresby area, including Varirata National Park, Gerehu).
- 1980 – UPNG3660–UPNG3679, UPNG3714–UPNG3737, UPNG5899, UPNG6683–UPNG6741, UPNG6872: Central (Port Moresby area, Varirata Plateau, Yule Island), joint collectors included G. Leach and UPNG students, M.J. Swift.
- 1981<sup>2</sup> – UPNG1453–UPNG1464, UPNG1932–UPNG1999, UPNG5264, UPNG6876–UPNG6897, UPNG7401–UPNG7450: Western Highlands (Baiyer River Sanctuary), Central (Port Moresby area, including Motupore Island, between Rigo and Saroa, Namanetabu Historical Reserve).
- 1982 – UPNG5411–UPNG5449, UPNG6308–UPNG6361, UPNG6747–UPNG6796, UPNG6902–UPNG6914, UPNG7004–UPNG7092: Morobe (Lake Wannum, Oomsis), Western Highlands (Wabag area, including Lake Sirunki, Kaiap Orchid Lodge), Central (Bogoro Inlet), joint collectors included A. Hay, G. Leach, T. Nagari, E.K. Naoni.
- 1983 – UPNG6918, UPNG8051, UPNG8077, UPNG8078, UPNG8087–UPNG8100: Madang, Central (Granville [or Ela] Travelodge, Trans-Laloki, Varirata National Park).
- 1984 – UPNG7880, UPNG7881: New Britain (Willaumez Peninsula), joint collectors included G. Leach.
- 1992 – UPNG2231–UPNG2836: West Sepik (Telefomin area), some with George Morren.

### PLANT NAMES AUTHORED BY DAVID FRODIN

Names no longer accepted (i.e., synonyms) are indicated with an asterisk (\*)

#### New genus

- Metapanax* J.Wen & Frodin 2001

#### New subgenera

- Plerandra* subg. *Canacoschefflera* Frodin, Lowry & G.M.Plunkett 2013
- Plerandra* subg. *Costatae* G.M.Plunkett, Lowry & Frodin 2013
- Plerandra* subg. *Dizygotheca* (N.E.Br.) Lowry, G.M.Plunkett & Frodin 2013
- Plerandra* subg. *Gabriellarum* Lowry, G.M.Plunkett & Frodin 2013
- Plerandra* subg. *Veilloniorum* Lowry, G.M.Plunkett & Frodin 2013

#### New species

- Cryptocarya meisneriana* Frodin 1976
- Dendropanax neblinae* Maguire, Steyerl. & Frodin 1984
- Osmoxylon arrhenicum* B.J.Conn & Frodin 1995
- Osmoxylon chrysanthum* B.J.Conn & Frodin 1995
- Osmoxylon confertiflorum* B.J.Conn & Frodin 1995
- Osmoxylon corneri* B.J.Conn & Frodin 1995
- Osmoxylon ellipsoideum* B.J.Conn & Frodin 1995
- Osmoxylon pseudofoliatum* B.J.Conn & Frodin 1995
- Osmoxylon rectibrachiatum* B.J.Conn & Frodin 1995
- Osmoxylon striatifolium* B.J.Conn & Frodin 1995
- Osmoxylon superantiflorum* B.J.Conn & Frodin 1995
- Osmoxylon whitmorei* B.J.Conn & Frodin 1995
- Plerandra veilloniorum* Bernardi ex Lowry, G.M.Plunkett & Frodin 2013
- Polyscias obtusifolia* Frodin 2004
- Schefflera acaropunctata* Frodin 1993
- Schefflera argophylla* Frodin 1993
- Schefflera asymmetrica* Frodin 1993
- Schefflera ayangannensis* Maguire, Steyerl. & Frodin 1984
- Schefflera baculosa* Frodin 1993
- Schefflera beamanii* Puad, T.J.Barkman & Frodin 2018
- Schefflera brachypoda* Frodin 1993
- Schefflera chanii* T.J.Barkman, Puad & Frodin 2018
- Schefflera ciliatifolia* Fiaschi & Frodin 2008
- Schefflera clausa* Frodin 1993
- Schefflera clavigera* Frodin 1993
- Schefflera clusietorum* Frodin 1993
- Schefflera concolor* Frodin 1993
- Schefflera contracta* Frodin 1993
- Schefflera cracens* Frodin 1993
- Schefflera crenata* Puad & Frodin 2018
- Schefflera dichotoma* Fiaschi & Frodin 2008
- Schefflera disparifolia* Frodin 1993
- Schefflera dissidens* Frodin 1993
- Schefflera eximia* Frodin 1993
- Schefflera feriarum* Frodin 1986
- Schefflera globulifera* Maguire, Steyerl. & Frodin\* 1984
- Schefflera guanayensis* Maguire, Steyerl. & Frodin 1984
- Schefflera heterobotrya* Frodin 1996
- Schefflera heteroclada* Frodin 1986
- Schefflera huachamacarii* Maguire, Steyerl. & Frodin 1984
- Schefflera huberi* Frodin 1993
- Schefflera kinabaluensis* Puad, T.J.Barkman & Frodin 2018
- Schefflera lanata* Frodin, Puad & T.J.Barkman 2018
- Schefflera latianulata* Frodin 2004
- Schefflera lineamentorum* Frodin & Puad 2018
- Schefflera longistyla* Frodin 1993
- Schefflera mamutiacum* Puad, T.J.Barkman & Frodin 2018
- Schefflera mangiferifolia* Frodin & Puad 2018
- Schefflera matsallehii* T.J.Barkman, Puad & Frodin 2018
- Schefflera meiuropphylla* Frodin 1993
- Schefflera merrittii* Frodin 1986
- Schefflera minutipetiolata* Frodin 1986
- Schefflera mitragera* Frodin & Puad 2018
- Schefflera montana* (Gleason) Maguire, Steyerl. & Frodin 1984
- Schefflera multispicata* Puad & Frodin 2018
- Schefflera myrioneura* Frodin 1993
- Schefflera nigrescens* Frodin 1993
- Schefflera obovatilimba* Frodin & Puad 2018
- Schefflera opaca* Puad, T.J.Barkman & Frodin 2018
- Schefflera pallens* Maguire, Steyerl. & Frodin 1984
- Schefflera pauciradiata* Maguire, Steyerl. & Frodin 1984
- Schefflera pawoiensis* Frodin 1986

<sup>1</sup> These collections were probably collected in 1975, erroneously data processed as 1976.

<sup>2</sup> Probably collected in 1971, erroneously data processed as 1981.

<i>Schefflera pedicelligera</i> Maguire, Steyerl. & Frodin	1984	<i>Chamaecytisus dorycnoides</i> (Davidov) Frodin & Heywood	1968
<i>Schefflera peridotitica</i> Puad, T.J.Barkman & Frodin	2018	<i>Cheirodendron bastardianum</i> (Decne.) Frodin	1990
<i>Schefflera pimichinensis</i> Maguire, Steyerl. & Frodin	1984	<i>Chronanthos biflorus</i> (Desf.) Frodin & Heywood*	1968
<i>Schefflera plurifolia</i> Fiaschi & Frodin	2008	<i>Chronanthos orientalis</i> (Loisel.) Frodin & Heywood*	1968
<i>Schefflera plurispicata</i> Maguire, Steyerl. & Frodin	1984	<i>Dendropanax amplifolius</i> (I.M.Johnst.) Frodin	2004
<i>Schefflera racemifera</i> Fiaschi & Frodin	2006	<i>Dendropanax brasiliensis</i> (Seem.) Frodin	2004
<i>Schefflera rugosifolia</i> Maguire, Steyerl. & Frodin*	1984	<i>Dendropanax heterophyllum</i> (Marchal) Frodin	2004
<i>Schefflera sabahensis</i> Frodin & Puad	2018	<i>Dendropanax langsdorffii</i> (Marchal) Frodin	2004
<i>Schefflera serpentinicola</i> Puad & Frodin	2018	<i>Dendropanax pruinosis</i> (Taub.) Fiaschi & Frodin	2004
<i>Schefflera sipapoensis</i> Maguire, Steyerl. & Frodin	1984	<i>Dendropanax resinosus</i> (Marchal) Frodin	2004
<b>New infraspecific taxa</b>		<i>Dendropanax simplicifolius</i> (Hoehne) Fiaschi & Frodin	2014
<i>Schefflera avensis</i> var. <i>cinnamociliata</i> Frodin & Puad	2018	<i>Ditrysinia fruticosa</i> (W.Bartram) Govaerts & Frodin	2000
<i>Schefflera chimantensis</i> var. <i>iluensis</i> Frodin	1993	<i>Fagus japonica</i> var. <i>multinervis</i> (Nakai) Y.N.Lee ex Govaerts & Frodin	1998
<i>Schefflera coriacea</i> subsp. <i>neblinae</i> Maguire, Steyerl. & Frodin*	1984	<i>Gamblea ciliata</i> var. <i>evodiifolia</i> (Franch.) C.B.Shang, Lowry & Frodin	2000
<i>Schefflera duidae</i> subsp. <i>quinquestylorum</i> (Steyerl.) Maguire, Steyerl. & Frodin*	1984	<i>Gamblea innovans</i> (Siebold & Zucc.) C.B.Shang, Lowry & Frodin	2000
<i>Schefflera guanayensis</i> subsp. <i>paruensis</i> Maguire, Steyerl. & Frodin*	1984	<i>Gamblea malayana</i> (M.R.Hend.) C.B.Shang, Lowry & Frodin	2000
<i>Schefflera guanayensis</i> subsp. <i>sipapoensis</i> Maguire, Steyerl. & Frodin	1984	<i>Gamblea pseudoevodiifolia</i> (Feng) C.B.Shang, Lowry & Frodin	2000
<i>Schefflera mangiferifolia</i> var. <i>panatarana</i> Frodin	2018	<i>Metapanax davidii</i> (Franch.) J.Wen & Frodin	2001
<i>Schefflera pachyphlebia</i> var. <i>trusmadiana</i> Frodin & Puad	2018	<i>Metapanax delavayi</i> (Franch.) J.Wen & Frodin	2001
<i>Schefflera reticulata</i> subsp. <i>jauaensis</i> Maguire, Steyerl. & Frodin*	1984	<i>Neocussonia bracteolifera</i> (Frodin) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera reticulata</i> subsp. <i>yutajensis</i> Maguire, Steyerl. & Frodin*	1984	<i>Neocussonia capuroniana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<b>New names</b>		<i>Neocussonia favargerii</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Gastonia elegans</i> Frodin	2004	<i>Neocussonia fosbergiana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera bailloniana</i> Frodin*	2004	<i>Neocussonia frodiniana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera bracteolifera</i> Frodin*	2004	<i>Neocussonia halleana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera chococola</i> Frodin	2004	<i>Neocussonia littoralis</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera crassilimba</i> Frodin	1993	<i>Neocussonia longipedicellata</i> (Lecomte) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera dictyophlebia</i> Frodin*	2004	<i>Neocussonia lukwangulensis</i> (Tennant) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera falcatifolia</i> Frodin*	2004	<i>Neocussonia moratii</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera kurzii</i> Frodin	2004	<i>Neocussonia rainaliana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera lancifoliolata</i> Frodin	2004	<i>Neocussonia staufferiana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera maguireorum</i> Frodin	1993	<i>Neocussonia vantsilana</i> (Baker) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera monosperma</i> Maguire, Steyerl. & Frodin*	1984	<i>Neocussonia weibelliana</i> (Bernardi) Lowry, G.M.Plunkett, Gostel & Frodin	2017
<i>Schefflera nesopanax</i> Frodin*	2004	<i>Neopanax macintyreii</i> (Cheeseman) Frodin	2004
<i>Schefflera parwana</i> Frodin	1993	<i>Plerandra actinostigma</i> (A.C.Sm. & B.C.Stone) G.M.Plunkett, Lowry & Frodin	2013
<i>Schefflera regnelliana</i> Frodin*	2004	<i>Plerandra baillonii</i> (R.Vig.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera reiniana</i> Frodin	1988	<i>Plerandra cabalionii</i> (Lowry) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera rufa</i> Frodin	2004	<i>Plerandra costata</i> (A.C.Sm.) G.M.Plunkett, Lowry & Frodin	2013
<i>Schefflera sessiliflora</i> Splithof-Heerschop ex Frodin	1993	<i>Plerandra crassipes</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera ulocephala</i> Frodin	1993	<i>Plerandra elegantissima</i> (H.J.Veitch ex Mast.) Lowry, G.M.Plunkett & Frodin	2013
<b>Manuscript names published as new taxa by other authors</b>		<i>Plerandra elongata</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Argyrocitrus</i> (Maire) Frodin & Heywood ex Raynaud	1975	<i>Plerandra emiliana</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Cryptocarya dorrigensis</i> Frodin ex B.Hyland & A.G.Floyd	1989	<i>Plerandra gabriellae</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera altigena</i> Frodin ex P.Royen	1983	<i>Plerandra leptophylla</i> (H.J.Veitch ex T.Moore) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera amungwiwae</i> Frodin ex P.Royen	1983	<i>Plerandra nono</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera compacta</i> Frodin ex Lauener*	1972	<i>Plerandra osyana</i> (Regel) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera dentata</i> Frodin ex P.Royen	1983	<i>Plerandra osyana</i> subsp. <i>toto</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera insculpta</i> Frodin ex P.Royen	1983	<i>Plerandra pachyphylla</i> (Harms) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera kuborensis</i> Frodin ex P.Royen	1983	<i>Plerandra pancheri</i> (Baill.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera lineata</i> Frodin ex P.Royen	1983	<i>Plerandra plerandroides</i> (R.Vig.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera polyclada</i> Frodin ex P.Royen	1983	<i>Plerandra polydactylis</i> (Montrouz.) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera rodriguesiana</i> Frodin ex M.J.Cannon & Cannon	1989	<i>Plerandra reginae</i> (W.Richards) Lowry, G.M.Plunkett & Frodin	2013
<i>Schefflera simbuensis</i> Frodin ex P.Royen	1983	<i>Plerandra seemanniana</i> (A.C.Sm.) G.M.Plunkett, Lowry & Frodin	2013
<b>New combinations</b>		<i>Plerandra tannae</i> (A.C.Sm. & B.C.Stone) G.M.Plunkett, Lowry & Frodin	2013
<i>Astropanax humblotianus</i> (Drake) Lowry, G.M.Plunkett, Gostel & Frodin	2017	<i>Plerandra vanuatu</i> (Lowry) Lowry, G.M.Plunkett & Frodin	2013
<i>Astropanax kivuensis</i> (Bamps) Lowry, G.M.Plunkett, Gostel & Frodin	2017	<i>Plerandra veitchii</i> (hort. ex Carrière) Lowry, G.M.Plunkett & Frodin	2013
<i>Astropanax monophyllum</i> (Baker) Lowry, G.M.Plunkett, Gostel & Frodin	2017	<i>Polyscias crenata</i> (Pancher & Sebert) Frodin	2004
<i>Astropanax myrianthus</i> (Baker) Lowry, G.M.Plunkett, Gostel & Frodin	2017	<i>Polyscias eupteronoides</i> (Teijsm. & Binn.) Frodin	2019
<i>Astropanax polysciadus</i> (Harms) Lowry, G.M.Plunkett, Gostel & Frodin	2017		
<i>Astropanax procumbens</i> (Hemsl.) Lowry, G.M.Plunkett, Gostel & Frodin	2017		
<i>Astropanax stolzii</i> (Hemsl.) Lowry, G.M.Plunkett, Gostel & Frodin	2017		
<i>Astropanax tessmannii</i> (Hemsl.) Lowry, G.M.Plunkett, Gostel & Frodin	2017		
<i>Astropanax urostachyus</i> (Hemsl.) Lowry, G.M.Plunkett, Gostel & Frodin	2017		
<i>Astropanax volkensii</i> (Harms) Lowry, G.M.Plunkett, Gostel & Frodin	2017		



<i>Polyscias koordersii</i> (Harms) Frodin	2019
<i>Polyscias paucidens</i> (Miq.) Frodin	2019
<i>Polyscias philippinensis</i> (Merr.) Frodin	2019
<i>Polyscias solomonensis</i> (Philipson) Frodin	2019
<i>Polyscias winkleri</i> (Harms) Frodin	2019
<i>Raukaura anomalus</i> (Hook.) A.D.Mitch., Frodin & Heads	1997
<i>Raukaura edgerleyi</i> var. <i>serratus</i> (Kirk) A.D.Mitch., Frodin & Heads	1997
<i>Raukaura gunnii</i> (Hook.f.) Frodin	2004
<i>Raukaura laetevirens</i> (Gay) Frodin	2004
<i>Raukaura simplex</i> (G.Forst.) A.D.Mitch., Frodin & Heads	1997
<i>Raukaura simplex</i> var. <i>sinclairii</i> (Hook.f.) A.D.Mitch., Frodin & Heads	1997
<i>Raukaura valdiviensis</i> (Gay) Frodin	2004
<i>Schefflera allocotantha</i> (Harms) Frodin	2004
<i>Schefflera angustissima</i> (Marchal) Frodin	2004
<i>Schefflera anomala</i> (Taub.) Frodin	2004
<i>Schefflera attenuata</i> (Sw.) Frodin	1989
<i>Schefflera auyantepuiensis</i> (Steyerm.) Maguire, Steyerm. & Frodin	1984
<i>Schefflera bakeriana</i> (A.C.Sm.) Frodin*	2004
<i>Schefflera burchellii</i> (Seem.) Frodin & Fiaschi	2004
<i>Schefflera calva</i> (Cham.) Frodin & Fiaschi	2004
<i>Schefflera cavaleriei</i> (H.Lév.) Frodin	2004
<i>Schefflera cephalantha</i> (Harms) Frodin	2004
<i>Schefflera chimantensis</i> (Steyerm. & Maguire) Maguire, Steyerm. & Frodin	1984
<i>Schefflera chimantensis</i> subsp. <i>multiramosa</i> (Steyerm.) Frodin	1993
<i>Schefflera chimantensis</i> subsp. <i>rugosifolia</i> (Maguire, Steyerm. & Frodin) Frodin	1993
<i>Schefflera chimantensis</i> var. <i>rugosifolia</i> (Maguire, Steyerm. & Frodin) Frodin	1993
<i>Schefflera clauseniana</i> (Decne. & Planch. ex Marchal) Frodin	2004
<i>Schefflera coenosa</i> (R.Vig.) Frodin	2004
<i>Schefflera conspicua</i> (Marchal) Frodin	2004
<i>Schefflera cordata</i> (Taub.) Frodin & Fiaschi	2004
<i>Schefflera distractiflora</i> (Harms) Frodin	1998
<i>Schefflera dumicola</i> f. <i>acuta</i> (C.J.Tseng & G.Hoo) Frodin	2004
<i>Schefflera elegantissima</i> (Veitch ex Masters) Lowry & Frodin*	1998
<i>Schefflera exaltata</i> (Thwaites) Frodin	1996
<i>Schefflera gardneri</i> (Seem.) Frodin & Fiaschi	2004
<i>Schefflera glabrata</i> (Kunth) Frodin	1989
<i>Schefflera glabrescens</i> (C.J.Tseng & G.Hoo) Frodin	2004
<i>Schefflera glaziovii</i> (Taub.) Frodin & Fiaschi	2004
<i>Schefflera grandiflora</i> (A.C.Sm.) Frodin*	2004
<i>Schefflera grayi</i> (Seem.) Frodin*	2004
<i>Schefflera heptaphylla</i> (L.) Frodin	1991
<i>Schefflera heterophylla</i> var. <i>bitermata</i> (C.B.Clarke) Frodin	2004
<i>Schefflera hitchcockii</i> (Lasser & Maguire) Maguire, Steyerm. & Frodin	1984
<i>Schefflera humboldtiana</i> (Decne. & Planch. ex Seem.) Frodin	2004
<i>Schefflera hypochlora</i> (Dunn ex K.M.Feng & Y.R.Li) Frodin	2004
<i>Schefflera insolita</i> (A.C.Sm.) Frodin*	2004
<i>Schefflera javaensis</i> (Maguire, Steyerm. & Frodin) Frodin	1993
<i>Schefflera kerchoveana</i> (Veitch ex W.Richards) Frodin & Lowry	1989
<i>Schefflera kuntzei</i> (Harms) Frodin	1993
<i>Schefflera leptophylla</i> (Veitch ex T.Moore) Frodin*	2004
<i>Schefflera littorea</i> (Seem.) Frodin	2004
<i>Schefflera longepetiolata</i> (Pohl ex DC.) Frodin & Fiaschi	2004
<i>Schefflera lucumoides</i> (Decne. & Planch. ex Marchal) Frodin	2004
<i>Schefflera macrocarpa</i> (Cham. & Schltdl.) Frodin	1998
<i>Schefflera malmei</i> (Harms) Frodin	1998
<i>Schefflera marahuacensis</i> (Maguire, Steyerm. & Frodin) Frodin	1993
<i>Schefflera morototoni</i> (Aubl.) Maguire, Steyerm. & Frodin	1984
<i>Schefflera morototoni</i> var. <i>angustipetala</i> (Marchal) Frodin	1993
<i>Schefflera morototoni</i> var. <i>sessiliflora</i> (Marchal) Frodin	2004
<i>Schefflera navarroi</i> (A.Samp.) Frodin & Fiaschi	2004
<i>Schefflera neblinae</i> (Maguire, Steyerm. & Frodin) Frodin	1993
<i>Schefflera nebularum</i> (Harms) Frodin	2004
<i>Schefflera osyana</i> (Regel) Frodin	2004
<i>Schefflera ouveana</i> (Däniker) Frodin	2004
<i>Schefflera oxyphylla</i> var. <i>siamensis</i> (Craib) Frodin	2004
<i>Schefflera pachycarpa</i> (Marchal) Frodin	2004
<i>Schefflera pachycephala</i> (Planch. & Linden ex Harms) Frodin	2004
<i>Schefflera pickeringii</i> (A.Gray) Frodin*	2004
<i>Schefflera plerandroides</i> (R.Vig.) Frodin*	2004
<i>Schefflera polydactylis</i> (Montrouz.) Frodin*	2004
<i>Schefflera psilophylla</i> (Harms) Maguire, Steyerm. & Frodin	1984
<i>Schefflera pubigera</i> (Brongn. ex Planch.) Frodin	2004
<i>Schefflera pueckleri</i> (K.Koch) Frodin	1989

<i>Schefflera reginae</i> (Linden ex W.Richards) Frodin*	2004
<i>Schefflera reticulata</i> (Gleason) Maguire, Steyerm. & Frodin	1984
<i>Schefflera rhododendrifolia</i> (Griff.) Frodin	2004
<i>Schefflera ridleyi</i> var. <i>polyandra</i> (Ridl.) Frodin	1978
<i>Schefflera rotundifolia</i> (Ten.) Frodin	2004
<i>Schefflera salweenensis</i> var. <i>macrophylla</i> (H.L.Li) Frodin	2004
<i>Schefflera schizophylla</i> (Hance) Frodin	2004
<i>Schefflera selloi</i> (Marchal) Frodin & Fiaschi	2004

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1964

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