

The taxa described by Paul Évariste Parmentier *in Histoire des Magnoliacées*

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ABSTRACT

In 1896, Paul Évariste Parmentier published a monograph on the systematic leaf and twig anatomy of a broadly defined Magnoliaceae. The *Histoire des Magnoliacées* includes description of some 34 new taxa. Most of these were based on herbarium specimens received from Ferdinand von Mueller in Melbourne that are now present in the Paris herbarium. The taxa described by Parmentier and their typification are reviewed. The types of some six taxa have yet to be found, but most names are now typified with one new lectotypification in the current paper. *Drimys vascularis* P.Parm. is reported as a new synonym of *Cinnamodendron axillare* (Nees) Endl. ex Walp. (Canellaceae).

RÉSUMÉ

Les taxons décrits par Paul Évariste Parmentier dans Histoire des Magnoliacées.

En 1896, Paul Évariste Parmentier publie une monographie sur l'anatomie foliaire et raméale des Magnoliaceae s.l. L'*Histoire des Magnoliacées* contient la description de 34 nouveaux taxons. La plupart se fondent sur des spécimens d'herbier envoyés par Ferdinand von Mueller de Melbourne, qui sont désormais dans les collections de l'herbier de Paris. Nous examinons ici les taxons décrits par Parmentier et leur typification. Les types de six taxons sont encore à retrouver, mais une grande partie des noms est maintenant typifiée. Cet article propose une nouvelle lectotypification et une nouvelle synonymie : *Drimys vascularis* P.Parm., synonyme de *Cinnamodendron axillare* (Nees) Endl. ex Walp. (Canellaceae).

KEY WORDS

Annonaceae,
Canellaceae,
Magnoliaceae,
Ferdinand von Mueller,
Proteaceae,
Sapotaceae,
Schisandraceae,
Winteraceae,
typification,
lectotypification,
new synonymy.

MOTS CLÉS

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INTRODUCTION

Paul Évariste Parmentier (1860-1941) was a French botanist who specialised in systematic plant anatomy. His major work in this field was the *Histoire des Magnoliacées* (Parmentier 1896). In this Parmentier provides descriptions of the anatomy of twig and leaf of 90 species from a very broadly defined Magnoliaceae Juss. including what would now generally be considered members of the Canellaceae Mart., Cercidiphyllaceae Engl., Eupteleaceae K.Wilh., Schisandraceae Blume, Trochodendraceae Eichler and Winteraceae R.Br. ex Lindl. Some 35 taxa are newly described in the work (a number inflated slightly by some duplication at species and varietal ranks), very largely based on the anatomical data. The application of Parmentier's names has caused problems because the location of his type specimens was considered uncertain (Staffeu & Cowan 1983). The *Histoire des Magnoliacées* has been denigrated, with Smith (1943) going as far as stating "had Parmentier's work in its entirety never been published, taxonomy would have benefited from the omission." In a largely overlooked note on the work, Gagnepain (1929) states that he had delayed publishing a list of correct applications for Parmentier's names first compiled in 1906 (though a couple relating to the Annonaceae are listed as synonyms in Finet & Gagnepain 1906), because they had not, until then (Hill 1929), been taken up by *Index Kewensis*. The implication being that they were better ignored. Unfortunately, it is probably too late to suppress the *Histoire des Magnoliacées*, particularly as several names are in current use. This paper therefore aims at building on the work of Gagnepain in clarifying the names of Parmentier's taxa and their application as far as possible.

Parmentier clearly states the three sources for the material he worked on for the *Histoire des Magnoliacées*. These were specimens from the Paris herbarium, of which he was sent fragments for anatomising; a set of some 200 specimens from M. le baron Ferdinand von Mueller in Melbourne, Australia; and living material from the garden (now Pépinières et Rose-rais Paul Croix) at Bourg-Argental, Département de la Loire. Individual specimens are referred to by Parmentier in very brief terms, mostly in footnotes in the text. These are generally references to the specimens received from Melbourne. Gagnepain (1929)

noted that the herbarium of the Muséum national d'Histoire naturelle (P) received 116 specimens used in anatomical work from Parmentier on 4 March 1897. These specimens generally have a blue label headed "Phytologic Museum of Melbourne", and mostly have "Reçu le 4 mars 1897" stamped on the bottom right of the sheet. Many of these specimens are annotated by Parmentier with his determination and details of the publication in *Histoire des Magnoliacées*. Thus having established that P is the place to find types of Parmentier's taxa, it was possible to search the Sonnerat database (<http://coldb.mnhn.fr/colweb/>) thoroughly for them. While some remain unlocated, I have increased the number of recognised types and a number of previously unplaced names have been dealt with.

Parmentier recognised species and varieties in his treatment, but nearly always refers to varieties by employing species names but preceding them with "variety". A number of taxa are referred to separately at species rank and as varieties. Such publication of alternative names was permissible at this date. Parmentier's new species fall into three categories. There are those that he clearly recognised as new species, which are indicated by "sp. n." appearing after the name. There are unpublished names of Eugène Vieillard taken from specimens, and referred to the authorship of Vieillard in the *Histoire des Magnoliacées*, that Parmentier unwittingly validated. Finally there are names, also taken from specimens, for which Parmentier was uncertain of the authorship. These are indicated in the text by a parenthetical question mark after the name. Some were already published, but others were not and hence must be assigned to the authorship of Parmentier.

LIST OF TAXA DESCRIBED BY PARMENTIER IN THE HISTOIRE DES MAGNOLIACÉES

The names of Parmentier's taxa are listed alphabetically with their types. The accepted name is indicated below with reference to a work that accepted the name in brackets. An asterisk indicates names from the Magnoliaceae (*sensu stricto*) not currently included in Govaerts *et al.* (2012).

1. *Drimys amplexicaulis* Vieill. ex P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 231, 308, 330, pl. X, fig. 34 (1896). — Type: New Caledonia, [ad montes prope Wagap, in sylvis humide, 1861-1867,] *E. Vieillard* 2280 (holo-, P [P00062020]; iso-, P [x7]).

Zygogynum amplexicaule (Vieill. ex P.Parm.) Vink: *Blumea* 31: 53 (1985) (Vink 1990, 1993).

REMARKS

The holotype is a herbarium sheet with a collection label from the Phytologic Museum of Melbourne labelled “*Drimys amplexicaulis*, Vieill. New Caledonia Vieillard No. 2280”. The Paris herbarium has seven other sheets with the same Vieillard number but none of these arrived via Melbourne.

2. *Drimys intermedia* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 223, 224 (1896).

REMARKS

“*Drimys intermedia* sp. n.” occurs at three places in the text but there is no formal description, no mention of specimens and the name is not included in the species list (p. 336, 337) that serves as an index. The only characters highlighted by Parmentier for *Drimys intermedia* are that the stem contains vessels, the leaves have stomata in the adaxial epidermis and the presence of periderm in the stem tissues (this last not being diagnostic). *Drimys muelleri* is described as having wood with vessels and stomata on both surfaces of the leaf lamina. One supposes that Parmentier used two names for the same species, presumably changing the epithet from “intermedia” to “muelleri” but failing to correct the mistake on two pages. *Drimys intermedia* is not a *nomen nudum* as indicated by Guymer (2007), but Parmentier’s description might be deemed inadequate to validate the name. It seems best to leave it as an uncertain name at present.

3. *Drimys lenormandii* Vieill. ex P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 231-232, 308-309, 330, pl. X, fig. 35, pl. XI, figs 42, 43 (1896). — Type: New Caledonia.

Zygogynum stipitatum Baill.: *Adansonia* 10: 334 (1872) (Vink 1990, 1993).

REMARKS

Parmentier indicates that he received a specimen labelled “*Drimys Lenormandii* Vieill.” from von Mueller in Melbourne. No such specimen has been located. It may represent a duplicate of *Vieillard* 2281 which bears this name, and one sheet of which has been annotated as an isotype of *Drimys lenormandii* Vieill. ex P.Parm. by G. Buchheim (Deroin, pers. comm.).

4. *Drimys muelleri* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 227, 300, pl. X, figs 36, 37 (1896). — Type: Australia, Tasmania, Mt Victoria, *C. Glover s.n.* (holo-, P [P00750497]; iso-, MEL).

Persoonia muelleri (P.Parm.) Orchard: *Brunonia* 6: 226 (1984) (Proteaceae) (Weston 1995).

5. *Drimys rivularis* Vieill. ex P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 229, 230, 306, 307, 330, pl. X, fig. 33 (1896). — Type: New Caledonia, [Wagap, bords de la rivière d’Amoa,] *E. Vieillard* 2278 (lecto-, designated by Vink [1990], P [P00062050]; iso-, GH, K, MEL, NY, P [x4], Z).

Zygogynum pancheri subsp. *rivulare* (Vieill. ex P.Parm.) Vink: *Blumea* 34: 518 (1990) (Vink 1990, 1993).

REMARKS

There is a *Vieillard* 2278 specimen received from Melbourne that is annotated by Parmentier, but in the text he also refers “No 4 *Drimys* Nova Caledonia Paucher [?Pancher], Arbrisseau, fleur d’un brun rose” to *D. rivularis*. Though this specimen has not been located, it must be considered a syntype. Therefore the reference

by Vink (1990) to *Vieillard* 2278 as the type of *D. rivularis*, in tandem with his annotation of [P00062050](#) as the holotype, must be considered a lectotypification.

6. *Drimys vascularis* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 229, 306, 329, pl. XI, figs 39, 40 (1896). — Type: Brazil, *Martius s.n.* (holo-, P [[P00752350](#)]).

Cinnamodendron axillare (Nees) Endl. ex Walp.: *Reperitorium Botanices Systematicae* 1: 398 (1842) (Canellaceae). Syn. nov.

REMARKS

Drimys vascularis was excluded from *Drimys* J.R.Forst. & G.Forst. by Smith (1943). The type specimen was determined by H. Sleumer in 1970 as *Cinnamodendron axillare* (Nees) Endl. ex Walp. (Canellaceae). The status of *Drimys vascularis* P.Parm. as a synonym of *Cinnamodendron axillare* seems not to have been reported in the literature heretofore.

7. *Drimys xerophila* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 226, 299, 329 (1896). — Type: Australia, Australian Alps, *Anon. s.n.* (holo-, P [[P00734781](#)]).

Tasmannia xerophila (P.Parm.) M. Gray: *Contributions from the Herbarium Australiense* 26: 8 (1976) (Guymer 2007).

8. *Drimys xerophila* var. *alpina* F.Muell. ex P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 330 (1896). — Type: Australia, Baw Baw ranges, *F. von Mueller s.n.* (holo-, P [[P00734782](#)]).

Tasmannia vickeriana (A.C.Sm.) A.C.Sm.: *Taxon* 18: 287 (1969) (Guymer 2007).

9. *Drimys xerophila* var. *aromatica* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 226 (1896). — Type: Australia, Tasmania, Mt Bischoff, *Anon. s.n.* (holo-, P [[P00734777](#)]).

Tasmannia lanceolata (Poir.) A.C. Sm.: *Taxon* 18: 287 (1969) (Guymer 2007).

REMARKS

It is not entirely clear that Parmentier intended to name this variety *aromatica*. The only occurrence is on p. 226 where the description begins as follows: “La seconde variété (2) ou var. β *aromatica*, est caractérisée par”. Additional confusion arises because this could be construed as a reduction of *Drimys aromatica* (DC.) F. Muell. to a variety of Parmentier’s *D. xerophila*. However, as Parmentier recognises *D. aromatica* and *D. xerophila* as distinct species in the *Histoire des Magnoliacées*, such a reduction does not appear to be what Parmentier intended.

10. *Kadsura acuminata* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 238, 315, 323 (1896). — Type: India, Assam, *F. Jenkins s.n.* (lecto-, designated by Saunders (1998), P [[P00210495](#)]; iso-, CAL, E, L, NY).

Kadsura heteroclita (Roxb.) Craib: *Flora Siamensis Enumeratio* 1: 28 (1925) (Saunders 1998).

11. *Kadsura roxburghiana* var. *macrocarpa* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 238, 315, 323 (1896). — Type: not located.

Kadsura heteroclita (Roxb.) Craib: *Flora Siamensis Enumeratio* 1: 28 (1925) (Saunders 1998).

12. **Magnolia conspicua* var. *famasiba* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 254 (1896). — Type: ?Japan, *Anon. s.n.* (holo-, P [[P00204292](#)]).

Magnolia salicifolia (Siebold & Zucc.) Maxim.: *Bulletin de l’Académie impériale des Sciences de St-Petersbourg* 17: 418 (1872).

13. *Magnolia echinina* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 204, 265, 325, pl. IX, fig. 25. (1896). — Type: India [?], *T.S. Ralph s.n.* (holo-, P [P01753395]).

Desmos chinensis Lour., *Flora Cochinchinensis* 1: 352, 353 (1790) (Annonaceae).

REMARKS

Gagnepain (1929) identified *Magnolia echinina* P.Parm. as belonging to *Unona discolor* Vahl. This lead allowed me to track down the type and confirm that Gagnepain was correct, though the accepted name for this species is now *Desmos chinensis* Lour. (Annonaceae).

14. *Magnolia famasiba* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 200, 259 (1896). — Type: ?Japan, *Anon. s.n.* (holo-, P [P00204292]).

Magnolia salicifolia (Siebold & Zucc.) Maxim.: *Bulletin de l'Académie impériale des Sciences de St-Petersbourg* 17: 418 (1872) (Frodin & Govaerts 1996; Govaerts *et al.* 2012).

15. *Magnolia fasciculata* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 204, 265, 266, 324, pl. VIII, fig. 2, pl. X, fig. 26 (1896). — Type: India [probably wrongly localised], *T.S. Ralph s.n.* (lecto-, designated by Turner [2011], P [P00260050] excluding branchlet with inflorescence mounted on top right).

Uvaria littoralis (Blume) Blume, *Flora Javæ Anonaceae*: 26 (1830) (Annonaceae) (Turner 2011).

REMARKS

The type is a mixed collection of two species of *Uvaria* (Annonaceae). The foliage is *Uvaria littoralis*, but an inflorescence and subtending twig mounted on the top right of the sheet is *Uvaria javana* Dunal. As Parmentier's description is based on vegetative characters, *Magnolia fasciculata* is lectotyped so as to exclude the *Uvaria javana* element.

16. *Magnolia ferruginea* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 203, 263, 264, 325, pl. IX, fig. 24 (1896), *nom. illeg., non M. ferruginea* Hort. ex W. Wats. (*Bulletin of Miscellaneous Information Kew*: 305 [1889]). — Type: India, *T.S. Ralph s.n.* (holo-, P [P01964102]).

Fissistigma fulgens (Hook.f. & Thomson) Merr.: *Philippine Journal of Science* 15: 131 (1919) (Annonaceae) (Turner 2011).

17. *Magnolia glabra* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 194, 251, 325, pl. IX, fig. 18 (1896). — Type: India, Herb. Mel. ex herb. hort. bot. Calcuttensis as *Michelia*? (n.v.).

REMARKS

Govaerts *et al.* (2012) list this name as a synonym of *Magnolia grandiflora* L. As no specimen has been located, this cannot be confirmed.

18. *Magnolia heliophila* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 202, 262, 324, pl. IX, fig. 20 (1896). — Type: *s.loc., s.d., Anon. s.n.* (holo-, P [P00205269]).

Magnolia figo (Lour.) DC.: *Regni Vegetabilis Systema Naturale* 1: 460 (1817) (Gagnepain 1929).

19. *Magnolia honogi* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 195 (1896). — Type: Japan, *Anon. s.n.* (holo-, P [P00204153]).

Magnolia obovata Thunb.: *Transactions of the Linnean Society of London* 2: 336 (1794) (Frodin & Govaerts 1996; Govaerts *et al.* 2012).

REMARKS

The type bears an original label stating: “*Magnolia Hônogi* Jap. an sp. vel. lanatus foliis cum petiol. crassis & tenuis arbor vasto floribus atropurpureis Hb. S.”

20. *Magnolia intermedia* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 204, 266, pl. X, fig. 27 (1896). — Type: India, ?wrongly localised, *Anon.* (T.S. Ralph) *s.n.* (holotype: P [P01960440]).

Phaeanthus intermedius (P.Parm.) I.M.Turner & Veldkamp: *Kew Bulletin* 66: 577 (2012) (Annonaceae) (Turner & Veldkamp 2011).

21. *Magnolia longistyla* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 205, 267, 325 (1896). — Type: *H. Le Berolin* (?H[ortus] b[otanicus] Berol[inensis]) 4737 (holo-, P [P01963141]).

REMARKS

Parmentier interpreted the original label of the type specimen as referring to a person's name, but I suspect that it refers to the Berlin Botanic Garden, possibly where the material was cultivated.

22. **Magnolia macrophylla* var. *pilosissima*
P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 254 (1896).

Magnolia acuminata (L.) L.: *Systema Naturae, Editio Decima* 2: 1082 (1759) (Gagnepain 1929).

REMARKS

Refer to comments under *Magnolia pilosissima*.

23. *Magnolia membranacea* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 200, 258, 326 (1896), *nom. superfl.*

REMARKS

Nomenclaturally, *Magnolia membranacea* represents a superfluous renaming of *Magnolia pealiana* King as "*M. pealii* King" is cited as a variety of *M. membranacea* on p. 259 (cf. ICBN [McNeill *et al.* 2006] art. 52.1). The specimens Parmentier cited under *Magnolia membranacea* are correctly

referred to *Magnolia champaca* (L.) Baill. ex Pierre (Appendix 1).

24. *Magnolia ovata* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 193, 250, 325 (1896), *nom. illeg., non M. ovata* (A.St.-Hil.) Spreng. (*Systema Vegetabilium, editio decima sexta* 4 (2): 217 [1827]). — Type: Trinidad (1822), *Fl. Trinitatis* 293 (F. Wrbna leg.) (holo-, P [P01755857]; iso-, P).

Magnolia dodecapetala (Lam.) Govaerts: *World Checklist and Bibliography of Magnoliaceae*: 70 (1996).

REMARKS

Parmentier's type was determined as *Talauma dodecapetala* (Lam.) Urb. by J.E.Dandy. *Talauma* Juss. is currently included in *Magnolia* L.

25. *Magnolia portoricensis* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 205, 269 (1896).

REMARKS

This is variously treated as an orthographic variant of *Magnolia portoricensis* Bello or a synonym of it. Parmentier must have obtained the name from a specimen, but this specimen has not been located.

26. *Magnolia philippinensis* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 206, 270, 326 (1896). — Type: Philippines, *H. Cuming* 783 (holo-, P [P00734849]; iso-, A, BM, K, L, NY, P [x2]).

Magnolia philippinensis P.Parm.: *Bulletin scientifique de la France et de la Belgique* 27: 206, 270, 326 (1896) (Govaerts *et al.* 2012).

27. *Magnolia pilosissima* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 196 (1896).

REMARKS

This is generally considered a synonym of *Magnolia macrophylla* Michx. (Govaerts *et al.* 2012). However, no potential type specimen has been traced, so the synonymy cannot be confirmed. The species may have been described by Parmentier from living material he received from Bourg-Argental.

28. *Magnolia velutina* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 205, 269, 270, 326, pl. IX, fig. 15 (1896). — Type: *s.loc.*, Anon. *s.n.* (holo-, P [P00204351]).

Magnolia stellata (Siebold & Zucc.) Maxim.: *Bulletin de l'Académie Impériale des Sciences de St-Petersbourg* 17: 419 (1872) (Gagnepain 1929).

29. *Magnolia xerophila* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 203, 263, 324, pl. IX, figs 21-23 (1896). — Type: Java, Batavia, Ph. Siemmsen (n.v.).

REMARKS

Govaerts *et al.* (2001) cite this as a synonym of *Mimusops elengi* L. (Sapotaceae). Parmentier's drawing of the many-lobed corolla makes this identification plausible, but the type specimen has not been located to verify the placement.

30. *Manglietia pilosa* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 217, 292, 293, 327 (1896). — Type: Sumatra, O. Beccari *P.S.* 334 (holo-, P [P00734845]; iso-, FI-B, K, L).

Magnolia sumatrana (Miq.) Figlar & Noot.: *Blumea* 56: 334 (2011) (Govaerts *et al.* 2012).

31. *Michelia calcuttensis* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 214, 283, 328 (1896). — Type: India, Khasia Hills, Kolapam, C.J. Simons *s.n.* (holo-, P [P00205256]).

Magnolia doltsopa (Buch.-Ham. ex DC.) Figlar: *Proceedings of the International Symposium on the Family Magnoliaceae. May 18-22, 1998, Guangzhou, China:* 21 (2000) (Govaerts *et al.* 2012).

32. *Michelia glabra* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 213, 282, 328 (1896). — Type: India, Assam, F. Jenkins *s.n.* (holo-, P [P00205359]).

Magnolia kingii (Dandy) Figlar: *Proceedings of the International Symposium on the Family Magnoliaceae. May 18-22, 1998, Guangzhou, China:* 22 (2000) (Govaerts *et al.* 2012).

33. *Schisandra ovalifolia* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 237, 312, 324 (1896), as "Schizandra". — Type: Sumatra, O. Beccari *P.S.* 667 (holo-, P [P00734853]; iso-, K, L).

Kadsura scandens (Blume) Blume: *Flora Javae Schizandraceae:* 9 (1830) (Saunders 1998).

34. *Talauma inflata* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 208, 273, 274, 327, pl. VIII, fig. 10 (1896). — Type: Sumatra, Mt Singalan, VI-VII.1878, O. Beccari *P.S.* 76 (holo-, P [P00734840]; iso-, BM, BO, FI-B, L).

Magnolia liliifera (L.) Baill.: *Histoire des Plantes* 1: 141 (1868) (Frodin & Govaerts 1996; Govaerts *et al.* 2012).

35. *Talauma javanica* P.Parm.

Bulletin scientifique de la France et de la Belgique 27: 208, 274, 327 (1896). — Type: Java, (H. Zollinger 2809) (lecto-, here designated, P [P01963371]).

Magnolia liliifera (L.) Baill.: *Histoire des Plantes* 1: 141 (1868) (Govaerts *et al.* 2012).

REMARKS

The only collection referred to by Parmentier under this species was cited as "no. 2809 Talauma – Planta Javanica a cl. Zollinger lecta". There are two specimens in P that could represent the type. There is

a sheet of *Zollinger 2809* (P00734828) which was received at P on the same date as other Parmentier materials but has no annotations by Parmentier. There is also a sheet with a MEL label (P01963371), but no Zollinger details, that is annotated “*Talauma javanica* Parm. Hist Magnol. p. 208” by Parmentier. The MEL label is annotated “unicum”, possibly indicating that the material Parmentier received from Melbourne was mounted on two sheets when it arrived at the Paris herbarium, with the MEL label placed on one sheet and the Zollinger label on the other. However, as there are no annotations to confirm this supposition, the sheets must be treated as different collections and a lectotype designated. The sheet with the MEL label is chosen as lectotype of *Talauma javanica*. There are seven other sheets of *Zollinger 2809* in P, but different collecting localities are indicated on some of these (Balawan, Bandung, Sumbawa). It seems that Zollinger used the same number for different gatherings of what he believed to be the same species, so it is difficult to say for certain which sheets represent true isotypes of *Talauma javanica*.

LIST OF NEW COMBINATIONS MADE BY PARMENTIER IN THE HISTOIRE DES MAGNOLIACÉES

An asterisk indicates combinations not currently included in Govaerts *et al.* (2012).

Magnolia membranacea var. *pealiana* (King) P.Parm. as “*pealii*”, *Bulletin scientifique de la France et de la Belgique* 27: 259 (1896). Basionym: *Magnolia pealiana* King, *Annals of the Royal Botanic Garden, Calcutta* 3 (2): 210 (1891).

Magnolia pulneyensis (Wight) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 205, 268, 326 (1896). Basionym: *Michelia pulneyensis* Wight, *Illustrations of Indian Botany* 1: 14, t. 5 (1838).

REMARKS

Parmentier made no reference to *Michelia pulneyensis*, Wight’s publication or any other work on the Indian flora. However, article 33.3 of the International Code (McNeill *et al.* 2006) applies. *Magnolia pulneyensis* would be valid as a new species

as published in the *Histoire des Magnoliacées*, but as Parmentier used the same epithet as Wight and applied it to the same species (as evident from the specimen in P [Appendix 1]), Parmentier’s name is to be treated as a new combination based on Wight’s name.

Magnolia umbrella var. *acuminata* (L.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 253 (1896). Basionym: *Magnolia virginiana* var. *acuminata* L., *Species Plantarum*: 536 (1753).

Magnolia umbrella var. *maxima* (Lodd. ex G. Don) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 253 (1896). Basionym: *Magnolia maxima* Lodd. ex G. Don in J.C. Loudon, *Loudon’s Hortus Britannicus*: 226 (1830).

Magnolia umbrella var. *pyramidata* (Bartram) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 253 (1896). Basionym: *Magnolia pyramidata* Bartram, *Travels through North and South Carolina*: 408 (1791).

Magnolia umbrella var. *tripetala* (L.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 253 (1896). Basionym: *Magnolia virginiana* var. *tripetala* L., *Species Plantarum*: 536 (1753).

**Michelia kisopa* var. *walkeri* (Wight) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 281 (1896), as “*walkerii*”. Basionym: *Michelia walkeri* Wight, *Illustrations of Indian Botany* 1: 13 (1838).

**Michelia tsiampacca* (as “*tsjampaca*”) var. *champaca* (L.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 280 (1896). Basionym: *Michelia champaca* L., *Species Plantarum*: 536 (1753).

**Michelia tsiampacca* (as “*tsjampaca*”) var. *oblonga* (Wall. ex Hook.f. & Thomson) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 280 (1896). Basionym: *Michelia oblonga* Wall. ex Hook.f. & Thomson, *Flora Indica*: 81 (1855).

Talauma elegans var. *glauca* (Korth.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 277 (1896). Basionym: *Aromadendron glaucum* Korth., *Nederlandsch Kruidkundig Archief* 2 (2): 98 (1851).

Talauma rabaniana var. *villosa* (Miq.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 271 (1896). Basionym: *Talauma villosa* Miq., *Flora van Nederlandsch Indië, Eerste Bijvoegsel*: 366 (1861).

Yulania japonica var. *globosa* (Hook.f. & Thomson) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 258 (1896). Basionym: *Magnolia globosa* Hook.f. & Thomson, *Flora Indica*: 77 (1855).

Yulania japonica var. *obovata* (Thunb.) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 258 (1896). Basionym: *Magnolia obovata* Thunb., *Transactions of the Linnean Society* 2: 336 (1794).

Yulania japonica var. *purpurea* (Curtis) P.Parm., *Bulletin scientifique de la France et de la Belgique* 27: 258 (1896). Basionym: *Magnolia purpurea* Curtis, *Botanical Magazine* 11: t. 390 (1797).

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APPENDIX

Other specimens relevant to Histoire des Magnoliacées. The specimens are listed under the name used by Parmentier in the Histoire des Magnoliacées (1896). Specimen details are given with the barcode number. Parmentier's annotation on the specimen is given in brackets (– indicates no annotation). The identity of the specimen is given, where this can be ascertained. There are likely to be other Parmentier specimens in P not included in the current paper. ?, specimen identity remains uncertain.

Drimys dipetala

?Australia, Richmond River, *Fawcett s.n.* (P02028478).

[–]

= *Drimys insipida* (DC.) Pilg.

Illicium parviflorum

Australia, ex hort. bot. Melb. (P01656590).

[–]

= ?

Drimys halamensis

New Guinea, Mt Musgrave, 25.VI.1889, *Governor Sir W. MacGregor s.n.* (P02028530).

[Hist magnol. p. 227.]

= *Drimys piperita* Hook.f.

Illicium religiosum

Japan, Nagasaki, *s.d.*, *Oldham s.n.* (P00203708).

[–]

= *Illicium anisatum* L.

Drimys howeana

Lord Howe's Island, *Fullager s.n.* (P02028453, P02028455, P02028456).

[–]

= *Bubbia howeana* (F.Muell.) Tiegh.

Kadsura japonica

Japan, *s.d.*, *H. Zollinger 426* (P00207147).

[Hist. magn. – p. 237.]

= *Kadsura japonica* (L.) Dunal.

Drimys membranacea

Australia, Rookingham Bay, *Dallachy s.n.* (P02028525).

[–]

= *Drimys piperita* Hook.f. [“membranea” Vink]

Kadsura roxburghiana

Bangladesh, Silhet, *J.D. Hooker & T. Thomson s.n.* (P00207176).

[–]

Bangladesh, Silhet, 1856, *J.D. Hooker & T. Thomson s.n.* (P00207177).

[–]

= *Kadsura heteroclita* (Roxb.) Craib.

Drimys piperata

New Guinea, Mt Musgrave, 25.VI.1889, *Governor Sir W. MacGregor s.n.* (P02028511).

[–]

= *Drimys piperata* Hook.f.

Illicium floridanum

S.loc., *s.d.*, ex herb. Chapm. (P01656987)

[–]

Florida, Herb. Chap. (P0165999)

[–]

= *Illicium floridanum* Ellis.

Kadsura roxburghiana

Sumatra, Mt Singalan, VI-VII.1878, *O. Beccari P.S. 320* (P01716778).

[*Kadsura Roxburghiana* Hist. Magn. p. 237]

= *Kadsura verrucosa* (Gagnep.) A.C. Sm.

Kadsura wightiana

Sri Lanka, *Thwaites C.P. 1028* (P01716776).
 [Kadsura Wightiana, Hist. magnol. p. 238.]
 = *Kadsura heteroclita* (Roxb.) Craib.

Magnolia ?acuminata

?United States of America, ?Ovid NY, 10.V.1858, *Brewer & Chickering s.n.* (P01963164).
 [Variation du *M. maxima* Loddiges, Hist Magnol, p. 195 & 206.]
 = *Magnolia acuminata* (L.) L.

Magnolia campbellii

India, Darjeeling, *Anon. s.n.* (P00203985).
 [-]
 India, Sikkim Himalaya 9000', *G. King s.n.* (P00203984)
 [-]
 = ?

Magnolia conspicua

China, central China, Prov. Szechwan, 1885-1888,
Dr Aug. Henry 5651 (P00204330).
 [Hist. Magnol. p. 196 Parmentier]
 = *Magnolia sprengeri* Pamp.

Magnolia conspicua

Japan, April 1893, *T. Makino s.n.* (P00204079).
 [-]
 Japan, *T. Makino s.n.* (P00204079).
 [-]
 = ?

Magnolia fuscata

Australia, cult. in hort. bot. Melb., *s.d., Anon. s.n.*
 (P00205270).
 [-]
 = *Magnolia figo* (Lour.) DC.

Magnolia grandiflora

North America, *s.d., Anon. s.n.* (P01963195).
 [espece nodale Parment. Hist. Magnol. p. 192, 206.]
S.loc., s.d., ?Mattié 1820 (P01963196).
 [-]
 = *Magnolia grandiflora* L.

Magnolia kobus

Japan, IV.1893, *T. Makino s.n.* (P00204175).
 [-]
 = ?

Magnolia membranacea

Mauritius, *Fl. Maurit. II. No. 111* (P01657825)
 [Magnolia membranacea Parm., Hist. Magnol., p. 200.]
 Mauritius, *Fl. Maur. N. 156* (P01657826).
 [Magnolia membranacea Parm., Hist. Magnol., p. 200.]
 = *Magnolia champaca* (L.) Baill. ex Pierre.

Magnolia pulneyensis

[India,] Nilghirries, *Anon.* (G. Perrottet) 4 (P00206753)
 [Hist. Magnol. p. 209 Parm.]
 = *Magnolia nilagirica* (Zenker) Figlar.

Magnolia umbrella

Anon. 4737 (P01963142).
 [var. du *M. umbrella* Lamk. Hist. Magnol. p. 195 & 206.]
 = *Magnolia acuminata* (L.) L.

Michelia cathcartii

India, Duphla Hills, *s.d., Lister s.n.* (P01963363).
 [-]
 India, Sikkim 5-6000 ft, 1856, *J.D. Hooker s.n.*
 (P01963364).
 [-]
 = *Magnolia cathcartii* (Hook.f. & Thomson) Noot.

Michelia excelsa

India, Sikkim, *s.d.*, *Anon. s.n.* (P00205257, P00205258).
 [-]
 = ?*Magnolia doltsopa* (Buch.-Ham. ex DC.) Figlar.

Michelia ?figo

Java, *s.d.*, *H. Zollinger 1594* (P02027071).
 [Hist. Magnol. p. 215 Parmentier]
 = *Michelia figo* Spreng.

Michelia lanuginosa

India, Sikkim, *s.d.*, *J.D. Hooker s.n.* (P00206834).
 [Michelia lanuginosa Hist Magnol p. 214 Parmentier]
 = *Magnolia lanuginosa* (Wall.) Figlar & Noot.

Michelia mannii

?Bangladesh, Sylhet, Langar Forest, VIII.1890, *G. Mann s.n.* (P00205395).
 [Hist. Magnol. p. 212 Parmentier]
 = ?

Michelia ovalifolia

Sri Lanka, *s.d.*, *Thwaites CP 141* (P00206754).
 [Hist. Magnol. p. 213]
 = *Magnolia nilagirica* (Zenker) Figlar.

Michelia parviflora

Java, *s.d.*, *Anon. s.n.* (P02027068).
 [Hist. Magnol., p. 216 – Ne pas confondre cette espèce avec *M. parviflora* DC. Parmentier]
 Java, *s.d.*, *Anon. s.n.* (P02027072).
 [M. parviflora Deless. Hist. Magnol., p. 216.]
 = *Magnolia figo* (Lour.) DC.

Michelia punduana

India, Khasia, *s.d.*, *Anon. s.n.* (P00206819).
 [-]
 = ?

Michelia tsjampaca

India, Khasi Hills 3000 ft, VII.1890, *G. Mann s.n.* (P00205178).
 [var. du Mich. tsjampaca L (Hist. magnol. p. 212.)
 India, *s.d.*, *T.S. Ralph s.n.* (P00205180).
 [var. du M. tsjampaca L (Hist. magnol. p. 212.)
 = *Magnolia champaca* (L.) Baill. ex Pierre.

Michelia tsjampaca

S.loc., *s.d.*, *Anon. s.n.* (P00205179).
 [var. du Mich. tsjampaca L. Hist. Magnol., p. 212.]
 = ?

Michelia walkerii

Sri Lanka, *s.d.*, *Anon. s.n.* (P00206775).
 [var. du Mich. kisopa Buch. Hist. Magnol., p. 212.]
 = ?

Schizandra axillaris

S.loc., *s.d.*, *Anon. s.n.* (P00206893).
 [-]
 = ?

Schizandra axillaris

India, Khasia, 5000 ped., *s.d.*, *J.D. Hooker & T. Thomson s.n.* (P00206893).
 [Schizandra axillaris Bl., Hist. Magn., p. 236.]
 India, Khasia, 5000 ped., *s.d.*, *J.D. Hooker & T. Thomson s.n.* (P00206895).
 [Schizandra axillaris Bl. Hist. Magn., p. 236.]
 India, Khasya, *J.D. Hooker & T. Thomson s.n.* (P00206892).
 [Schizandra axillaris Bl. Hist. Magn., p. 236.]
 = *Schizandra propinqua* subsp. *intermedia* (A.C. Sm.) R.M.K. Saunders.

Schizandra grandiflora

India, N.W. Himal., 7-10 000 ped., *T. Thomson s.n.* (P00206892).
 [-]
 = *Schizandra grandiflora* (Wall.) Hook.f. & Thomson.

Schizandra propinqua

Nepal, Mt Sheopore, Sankoo, *s.d.*, *N. Wallich s.n.* (EIC 4986) (P00207054).

[Sphaerost. propinquum Bl. Hist. Magn. p. 236.]

= *Schizandra propinqua* (Wall.) Baill. subsp. *propinqua* (Parmentier's specimen is an isolectotype of *Schizandra propinqua*).

Talauma candollei Bl.

Java, *Anon. s.n.* (P01963373).

[-]

= ?

Talauma glauca

Sumatra, *P.W. Korthals s.n.* (P00734835).

[var. du *T. elegans* Parm Hist Magnol, p. 209.]

Sumatra, *P.W. Korthals s.n.* (P00734836).

[-]

= ?

Talauma plumieri

S.loc., *s.d.*, *Anon. s.n.* (P01755856).

[-]

= ?

Talauma pumila

India, *W. Roxburgh s.n.* (P00204070, P00204071, P00204072).

[Hist Magnol. p. 207.]

= *Magnolia coco* (Lour.) DC.

Talauma rabaniana var.

?Sumatra, Moeara Enim, *s.d.*, *J.E. Teijsman 3690* (P01753295).

[var. du *T. rabaniana* Hook. Hist. Magnol. p. 207.]

= ?

Talauma stellata

Japan, *s.d.*, *Anon. s.n.* (P00204350).

[-]

=

Tasmania insipida

S.loc., *s.d.*, *Anon. s.n.* (P02028519).

[-]

= ?

? *Yulania* var. *obovata*

S.loc., *s.d.*, *Anon. s.n.* (P00204221).

[var. de *M. yulan* Hist Magnol. 199, 206].

Russia, cult. in hort. bot. Petropolitano, *s.d.*, *Anon. s.n.* (P00204222, P00204223).

[var. de *M. yulan* Hist. Magnol. 199, 206].

= *Magnolia obovata* Thunb.