

Research Article

New Names and New Combinations of the Genera of *Bambusa*, *Dinorchloa* and *Guadua* (Bambusaceae)

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Abstract

The subfamily Bambusoideae Luerss., belonging to the family Bambusaceae Burnett, is intricately intertwined with human production and daily life, exerting a profound influence on culture as well. The distinctive characteristics of the subfamily, such as culm, rhizome, branch, and culm sheath, have traditionally been employed in taxonomic classification, which requires further research to validate from a scientific perspective. Using the minimum criterion PHS (phylogenetic similarity) ≤ 0.928 (inter genera) for genus classification by CPCG (chloroplast complete genomes) of Fructophyta D.L.Fu & H.Fu, total 22 synonyms of three genera of *Bambusa* Schreb., *Dinorchloa* Buse and *Guadua* Kunth within the subfamily, have been identified, 15 current synonyms of the genus *Bambusa* Schreb. including *Bonia* Balansa, *Dendrocalamus* Nees, *Gigantochloa* Kurz ex Munro, *Holtumochloa* K.M.Wong, *Kinabaluchloa* K.M.Wong, *Maclurochloa* K.M.Wong, *Melocalamus* Benth., *Neomicrocalamus* Keng f., *Oreobambos* K.Schum., *Oxytenanthera* Munro, *Phuphanochloa* Sungkaew & Teerawat., *Soejatmia* K.M.Wong, *Temochloa* S.Dransf., *Thyrsostachys* Gamble and *Vietnamosasa* T.Q.Nguyen, 3 current synonyms of the genus *Dinorchloa* Buse being *Cyrtochloa* S.Dransf., *Neololeba* Widjaja and *Sphaerobambos* S.Dransf., and 4 current synonyms of the genus *Guadua* Kunth being *Apoclada* McClure, *Eremocaulon* Soderstr. & Londoño, *Olmea* Soderstr. and *Otatea* (McClure & E.W.Sm.) C.E.Calderón & Soderstr.. Additionally, 27 new specific names such as *Bambusa bifloscula* D.L.Fu and *Dinorchloa hirta* D.L.Fu, along with 184 new specific combinations like *Bambusa achmadii* (Widjaja) D.L.Fu, *Dinorchloa acutiflora* (Munro) D.L.Fu and *Guadua acuminata* (Munro) D.L.Fu have been scientifically and validly published. These publications will scientifically address the taxonomic nomenclature confusion and establish a robust foundation for the research of evolutionary system within the family Bambusaceae Burnett.

Keywords

Bambusa, *Dinorchloa*, *Guadua*, New Combination, CPCG (Chloroplast Complete Genome), Genus Minimum Criterion

1. Introduction

Bamboo plants, the subfamily Bambusoideae Luerss. (1893) of the family Bambusaceae Burnett (1835), are closely intertwined with human production and daily life, exerting a profound influence on culture as well [1]. However,

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er, due to the unpredictable flowering period and substantial variation in flowering patterns, classifying this subfamily poses greater challenges [1-8]. Therefore, the distinctive characteristics of the subfamily, such as culm, rhizome, branch, and culm sheath, have traditionally been employed in taxonomic classification [2-4, 9-17]. From a scientific perspective, the validation of this classification requires further research. It is evident that relying solely on these features may potentially result in the taxonomic confusion [1].

The modern phylogeny is based on Darwin's theory of evolution, which includes the concepts of the 'tree of life,' 'common ancestor,' and 'germogenesis' [1, 21-25]. However, due to its subjective and partial nature, this system fails to scientifically demonstrate the evolutionary relationships among different organisms [21-25], even leading to more taxonomic confusions [1].

To overcome these shortcomings, the new science evolutionism has been developed with the publications of the evolutionary continuity principle, the evolutionary particularity principle, the theoretical monograph as *the Theory and Practice of Evolutionism* [23-25] and the minimum criterion $PHS \leq 0.928$ (inter genera, CPCG) for the genus classifying of Fructophyta D.L.Fu & H.Fu [1]. Using the minimum criterion, the synonyms of *Phyllostachys* Sieb. & Zucc. within the subfamily Bambusoideae had been scientifically identified and the taxonomic confusion within the subfamily also had been scientifically resolved in a certain extent [1].

In order to continue resolve the taxonomic confusion within the subfamily, some relevant CPCG sequences of three genera, *Bambusa* Schreb., *Dinochloa* Büse, and *Guadua* Kunth, from the NCBI (National Center for Biotechnology Information, USA) database have been downloaded, an evolutionary analysis on these sequences has been conducted, and the outcome is outlined below.

2. Materials and Methods

2.1. CPCG of Bambusoaceae

Total 17 CPCG of representative species of Bambusoideae were selected from the NCBI database. Their current names and scientific names and numbers of CPCG in NCBI are listed in Table 1 and Table 2.

2.2. Evolutionary Analyses of CPCG

The evolutionary analyses of CPCG mainly use the typical algorithm [1, 25-27] to determine the relative evolutionary relationships between different taxa by comparing the phylogenetic similarity (PHS) between the designated type and target taxa. The formula is as follows:

$$PHS = \frac{SPHL}{APHL}$$

PHS = phylogenetic similarity between the type and objective taxon; SPHL = the number of same phylogenetic loci between the type and objective taxon; APHL = the number of all phylogenetic loci of the type; statistics of phylogenetic loci using Nucleotide Barcodes (17bp).

3. Results

3.1. Synonyms of Genus *Bambusa*

The PHS of CPCG of 11 species of Bambusoideae were analyzed using the type *Bambusa emeiensis* L.C.Chia & H.L.Fung and the results are shown in Table 1.

Table 1. PHS of CPCG between *Bambusa emeiensis* and some representative species of Bambusoideae.

No.	Scientific Names and Numbers of CPCG in NCBI	Current Names	PHL/17bp	PHS
1	<i>Bambusa emeiensis</i> _NC015830.1	<i>Bambusa emeiensis</i>	117158	1
2	<i>Bambusa verticillata</i> _NC050779.1	<i>Gigantochloa verticillata</i>	113262	0.967
3	<i>Bambusa oliveri</i> _NC068070.1	<i>Thyrsostachys oliveri</i>	113168	0.966
4	<i>Bambusa compactiflora</i> _MK679793.1	<i>Melocalamus compactiflorus</i>	113132	0.966
5	<i>Bambusa stricta</i> _NC050776.1	<i>Dendrocalamus strictus</i>	112572	0.961
6	<i>Bambusa sp.</i> _OQ791222.1	<i>Temochloa sp.</i>	110765	0.945
7	<i>Bambusa prainii</i> _NC050769.1	<i>Neomicrocalamus prainii</i>	109927	0.938
8	<i>Bambusa saxatilis</i> _NC050756.1	<i>Bonia saxatilis</i>	109444	0.934
9	<i>Dinochloa atra</i> _NC026964.1	<i>Neololeba atra</i>	107829	0.920
10	<i>Hitchcockella baronii</i> _NC044487.1	<i>Hitchcockella baronii</i>	104572	0.893
11	<i>Schizostachyum auriculatum</i> _NC068071.1	<i>Schizostachyum auriculatum</i>	104512	0.892

From Table 1, it is evident that using the type of *Bambusa emeiensis*, there are 7 current synonyms of the genus *Bambusa* Schreb., including *Gigantochloa* Kurz ex Munro, *Thyrsostachys* Gamble, *Melocalamus* Benth., G.Bentham & J.D.Hooker, *Dendrocalamus* Nees, *Temochloa* S.Dransf., *Neomicrocalamus* Keng f., and *Bonia* Balansa, owing to their evolutionary relationships with the type all surpassing a threshold value of 0.934, not meeting the minimum criterion $\text{PHS}(17\text{bp}) \leq 0.928$ (inter genera) for genus evolution.

Based on Table 1, combined with the results of relevant phylogenetic analysis [9], it can also be confirmed that two genera of *Oreobambos* K.Schum and *Oxytenanthera* Munro, native to Africa, and the other two genera of *Vietnamosasa* Nguyen and *Phuphanochloa* Sungkaew & Teerawat. native to Asia, they all are synonyms of the genus *Bambusa* Schreb.. Similarly, based on Table 1 and combined with relevant phylogenetic studies [18-20], the four genera established in 1993 [12], *Holttumochloa* K.M.Wong, *Kinabaluchloa* K.M.Wong, *Maclurochloa* K.M.Wong and *Soejatmia* K.M.Wong, all are also the synonyms of the genus *Bambusa* Schreb.. Therefore, it is scientific to combine the genus *Bambusa* Schreb. as follows.

Bambusa Schreb., Gen. Pl., ed. 8 [a]. 1: 236. 1789), nom. cons. Type: *Bambusa arundinacea* (Retz.) Willd. — *Bonia* Balansa, J. Bot. (Morot) 9: 29. 1890. Type: *Bambusa tonkinensis* (Balansa) Baill. — *Dendrocalamus* Nees, Linnaea 9: 476. 1835. Type: *Bambusa stricta* (Roxb.) Roxb. — *Gigantochloa* Kurz ex Munro, Trans. Linn. Soc. London 26: 123. 1868. Type: *Bambusa atter* Kurz. — *Holttumochloa* K.M.Wong, Kew Bull. 48(3): 518. 1993. Type: *Bambusa korbuensis* (K.M.Wong) D.L.Fu. — *Kinabaluchloa* K.M.Wong, Kew Bull. 48(3): 523. 1993. Type: *Bambusa wrayi* Stapf. — *Maclurochloa* K.M.Wong, Kew Bull. 48(3): 528. 1993. Type: *Bambusa montana* (Ridl.) Holttum. — *Melocalamus* Benth., G.Bentham & J.D.Hooker, Gen. Pl. 3: 1095. 1883. Type: *Bambusa compactiflora* (Kurz) D.L.Fu. — *Neomicrocalamus* Keng f., J. Bamboo Res. 2(2): 10. 1983. Type: *Bambusa prainii* (Gamble) D.L.Fu. — *Oreobambos* K.Schum., Notizbl. Königl. Bot. Gart. Berlin 1: 178. 1896. Type: *Bambusa buchwaldii* (K.Schum.) D.L.Fu. — *Oxytenanthera* Munro, Trans. Linn. Soc. London 26: 126. 1868. Type: *Bambusa abyssinica* A.Rich. — *Phuphanochloa* Sungkaew & Teerawat., Kew Bull. 63(4): 669 (-671). 2009. Type: *Bambusa speciosa* (Sungkaew & Teerawat.) D.L.Fu. — *Soejatmia* K.M.Wong, Kew Bull. 48(3): 530. 1993. Type: *Bambusa ridleyi* Gamble. — *Temochloa* S.Dransf., Thai Forest Bull., Bot. 28: 179. 2000. Type: *Bambusa liliana* (S.Dransf.) D.L.Fu. — *Thyrsostachys* Gamble, Indian Forester 20: 1. 1896. Type: *Bambusa oliveri* (Gamble) D.L.Fu. — *Vietnamosasa* T.Q.Nguyen, Bot. Zhurn. (Moscow & Leningrad) 75(2): 221. 1990. Type: *Bambusa darlacensis* (T.Q.Nguyen) D.L.Fu.

About 336 species in Asian, America and Africa, including 23 new specific names and 149 new specific combinations.

3.2. Synonyms of Genus *Dinochloa*

The genus *Dinochloa* Büse had been characterized by its climbing habit, solid culms, very small one-flowered spikelets and relatively large fruit [14]. Zhou et al. [18] have analyzed the related taxa of this genus shown in Figure 1.



Figure 1. Phylogenetic relationships of genus *Dinochloa* and affinities from Zhou et al. (part) [18].

Figure 1 illustrates the disorderliness of *Dinochloa* and its three closely related genera. This confusion arises from two main factors: experimental errors, such as misidentification during sampling, inappropriate selection of DNA fragments, sequencing errors, or analytical mistakes; and taxonomic errors, including the admixture within the genus *Dinochloa* or the incorrect classification of the other three genera as synonyms of *Dinochloa*. Based on Table 1 and Figure 1, it can be conclusively determined that *Cyrtochloa* S.Dransf., *Neololeba* Widjaja and *Sphaerobambos* S.Dransf., are synonyms of *Dinochloa* Büse. Therefore, the latest combination of the genus *Dinochloa* is as follows.

Dinochloa Büse, Pl. Jungh. [Miquel] 3: 387. 1854. Type: *Dinochloa scandens* (Nees) Kuntze. — *Cyrtochloa* S.Dransf., Kew Bull. 53(4): 861. 1998. Type: *Dinochloa toppingii* (Gamble) D.L.Fu. — *Neololeba* Widjaja, Reinwardtia 11(2): 112. 1997. Type: *Dinochloa amahussana* (Lindl.) D.L.Fu. — *Sphaerobambos* S.Dransf., Kew Bull. 44(3): 428. 1989. Type: *Dinochloa hirta* D.L.Fu.

About 62 species, in Asia & Oceania, including 4 new specific names and 12 new specific combinations.

3.3. Synonyms of Genus *Guadua*

The PHS of CPCG of 6 species of Bambusaceae were analyzed using the type *Guadua angustifolia* Kunth and the results are shown in Table 2.

Table 2. PHS of CPCG between *Guadua angustifolia* and some representative species of Bambusoideae.

No.	Scientific Names and Numbers of CPCG in NCBI	Current Names	PHL/17bp	PHS
1	<i>Guadua angustifolia</i> _NC029749.1	<i>Guadua angustifolia</i>	115140	1
2	<i>Guadua acuminata</i> _NC026971.1	<i>Otatea acuminata</i>	108442	0.942
3	<i>Guadua reflexa</i> _NC026965.1	<i>Olmeca reflexa</i>	107524	0.934
4	<i>Merostachys</i> sp._KT373815.1	<i>Merostachys</i> sp.	100698	0.875
5	<i>Rhipidocladum pittieri</i> _ NC036700.1	<i>Rhipidocladum pittieri</i>	100642	0.874
6	<i>Bambusa emeiensis</i> _NC015830.1	<i>Bambusa emeiensis</i>	98749	0.858

The analysis presented in Table 2 reveals that using the type of *Guadua angustifolia*, *Otatea* (McClure & E.W.Sm.) C.E.Calderón & Soderstr. and *Olmeca* Soderstr. both are the synonyms of the genus *Guadua*, owing to their evolutionary relationships with the type not meeting the minimum criterion $PHS(17bp) \leq 0.928$ (inter genera) for genus evolution of fruit plants.

Based on Table 2, combined with the results of relevant phylogenetic analysis [28-30], it can be conclusively determined that *Apoclada* McClure and *Eremocaulon* Soderstr. & Londoño, both are also the synonyms of the genus *Guadua* Kunth. Consequently, it is scientific to combine the genus *Guadua* Kunth as follows.

Guadua Kunth, J. Phys. Chim. Hist. Nat. Arts 95: 150. 1822. Type: *Guadua angustifolia* Kunth. — *Apoclada* McClure, Fl. Illustr. Catarin. I, fasc. Gram-Supl.: 57. 1967. Type: *Guadua simplex* (McClure & L.B.Sm) D.L.Fu. — *Eremocaulon* Soderstr. & Londoño, Amer. J. Bot. 74(1): 37. 1987. Type: *Guadua aureofimbriata* (Soderstr. & Londoño) D.L.Fu. — *Olmeca* Soderstr., Phytologia 51(2): 161. 1982. Type: *Guadua reflexa* (Soderstr.) D.L.Fu. — *Otatea* (McClure & E.W.Sm.) C.E.Calderón & Soderstr., Smithsonian Contr. Bot. 44: 21. 1980. Type: *Guadua acuminata* (Munro) D.L.Fu.

About 57 species in America, including 23 new specific combinations.

4. New Taxa of Bambusoideae

Bambusa achmadii (Widjaja) D.L.Fu, sp. transl. nov. *Gigantochloa achmadii* Widjaja, Reinwardtia 10(3): 373. 1987.

Bambusa albociliata (Munro) D.L.Fu, sp. transl. nov. *Oxytenanthera albociliata* Munro in Trans. Linn. Soc. London 26: 129. 1868.

Bambusa albopilosa (K.M.Wong) D.L.Fu, sp. transl. nov. *Gigantochloa albopilosa* K.M.Wong, Bamboos Penins. Malaysia (Malayan Forest Rec., 41) 124. 1995.

Bambusa albovestita (Holttum) D.L.Fu, sp. comb. nov. *Gigantochloa scortechinii* var. *albovestita* Holttum in Gard. Bull. Singapore 16: 124. 1958; *Gigantochloa albovestita*

(Holttum) K.M.Wong, Malayan Forest Rec. 41: 125. 1995.

Bambusa arcuta (N.H.Xia et al.) D.L.Fu, sp. transl. nov. *Gigantochloa arcuta* N.H.Xia, Y.Zeng & R.S.Lin in Y.Zeng, Taxon. Stud. Gigantochloa China 27. 2014.

Bambusa arrecta (T.P.Yi) D.L.Fu, sp. transl. nov. *Melocalamus arrectus* T.P.Yi, Acta Bot. Yunnan. 10(4): 440. 1988.

Bambusa atrovioleacea (Widjaja) D.L.Fu, sp. transl. nov. *Gigantochloa atrovioleacea* Widjaja, Reinwardtia 10(3): 323. 1987.

Bambusa atroviridis (D.Z.Li & H.Q.Yang) D.L.Fu, sp. transl. nov. *Dendrocalamus atroviridis* D.Z.Li & H.Q.Yang, Phytotaxa 243(2): 171. 2016.

Bambusa austroyunnanensis (N.H.Xia & Y.Zeng) D.L.Fu, sp. transl. nov. *Gigantochloa austroyunnanensis* N.H.Xia & Y.Zeng in Y.Zeng, Taxon. Stud. Gigantochloa China 29. 2014.

Bambusa aya (Widjaja & Astuti) D.L.Fu, sp. transl. nov. *Gigantochloa aya* Widjaja & Astuti, Reinwardtia 12(2): 201 (-202). 2004.

Bambusa baliana (Widjaja & Astuti) D.L.Fu, sp. transl. nov. *Gigantochloa baliana* Widjaja & Astuti, Reinwardtia 12(2): 202 (-203). 2004.

Bambusa balui (K.M.Wong) D.L.Fu, sp. transl. nov. *Gigantochloa balui* K.M.Wong, Forest. Dept. Occas. Pap., Brunei 1: 2. 1990.

Bambusa bambusoides (Hsueh f. & D.Z.Li) D.L.Fu, sp. transl. nov. *Dendrocalamus bambusoides* Hsueh f. & D.Z.Li, J. Bamboo Res. 6(2): 16. 1987.

Bambusa bastareana (H.B.Naithani & R.C.Pal) D.L.Fu, sp. transl. nov. *Gigantochloa bastareana* H.B.Naithani & R.C.Pal, Indian Forester 136(9): 1276 (-1277), 2010.

Bambusa bengkalisensis (Widjaja) D.L.Fu, sp. transl. nov. *Dendrocalamus bengkalisensis* Widjaja, Reinwardtia 11(2): 69. 1997.

Bambusa bicatricata (W.T.Lin) D.L.Fu, sp. transl. nov. *Sinocalamus bicatricatus* W.T.Lin, Acta Phytotax. Sin. 16(1): 68. 1978; *Bambusa bicatricata* (W.T.Lin) L.C.Chia & H.L.Fung, Acta Phytotax. Sin. 18(2): 214. 1980), nom. inval..

Bambusa bifloscula D.L.Fu, sp. nom. nov. *Dendrocalamus*

barbatus Hsueh & D.Z.Li, J. Bamboo Res. 7(4): 4. 1988), non *Bambusa barbata* Trin.

Bambusa birmanica (A.Camus) D.L.Fu, sp. transl. nov. *Dendrocalamus birmanicus* A.Camus, Bull. Mus. Natl. Hist. Nat., s.ér. 2, 4: 1044. 1932.

Bambusa blaoensis (H.N.Nguyen & V.T.Tran) D.L.Fu, sp. transl. nov. *Melocalamus blaoensis* H.N.Nguyen & V.T.Tran, Blumea 55(2): 131 (figure 1). 2010.

Bambusa brachystachya (N.H.Xia & Y.Zeng) D.L.Fu, sp. transl. nov. *Gigantochloa brachystachya* N.H.Xia & Y.Zeng in Y.Zeng, Taxon. Stud. Gigantochloa China 30. 2014.

Bambusa buar (Widjaja) D.L.Fu, sp. transl. nov. *Dendrocalamus buar* Widjaja, Reinwardtia 11(2): 70. 1997.

Bambusa buchwaldii (K.Schum.) D.L.Fu, sp. transl. nov. *Oreobambos buchwaldii* K.Schum., Notizbl. Königl. Bot. Gart. Berlin 1: 178. 1896.

Bambusa calcicola (Widjaja) D.L.Fu, sp. transl. nov. *Gigantochloa calcicola* Widjaja, Reinwardtia 11(2): 84. 1997.

Bambusa callosa (N.H.Xia et al.) D.L.Fu, sp. transl. nov. *Gigantochloa callosa* N.H.Xia, Y.Zeng & R.S.Lin, Pl. Diversity Resources 36(5): 581. 2014.

Bambusa cangyuanensis D.L.Fu, sp. nom. nov. *Dendrocalamus tomentosus* Hsueh & D.Z.Li, J. Bamboo Res. 8(1): 34. 1989, non *Bambusa tomentosa* (Hack. & Lindm.) McClure.

Bambusa cauhaiensis (N.H.Xia & V.T.Nguyen) D.L.Fu, sp. transl. nov. *Dendrocalamus cauhaiensis* N.H.Xia & V.T.Nguyen, Blumea 57(3): 256. 2013.

Bambusa ciliata (A.Camus) D.L.Fu, sp. transl. nov. *Arundinaria ciliata* A.Camus in Bull. Mus. Natl. Hist. Nat. 25: 672. 1919.

Bambusa cincta (Soderstr. & R.P.Ellis) D.L.Fu, sp. transl. nov. *Dendrocalamus cinctus* R.B.Majumdar ex Soderstr. & R.P.Ellis, Smithsonian Contr. Bot. 72: 45. 1988.

Bambusa cochinchinensis (A.Camus) D.L.Fu, sp. transl. nov. *Gigantochloa cochinchinensis* A.Camus, Bull. Mus. Natl. Hist. Nat. 26: 567. 1920.

Bambusa collettiana (Gamble) D.L.Fu, sp. transl. nov. *Dendrocalamus collettianus* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 93. 1896.

Bambusa compactiflora (Kurz) D.L.Fu, sp. transl. nov. *Pseudostachyum compactiflorum* Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 252. 1873. — *Melocalamus compactiflorus* (Kurz) Benth., in Bentham & Hooker f., Gen. Pl. 3(2): 1212. 1883.

Bambusa compressa (R.Parker) D.L.Fu, sp. transl. nov. *Gigantochloa compressa* R.Parker, Indian Forester 54: 98. 1928.

Bambusa concaviapicula (N.H.Xia & V.T.Nguyen) D.L.Fu, sp. transl. nov. *Dendrocalamus concaviapiculus* N.H.Xia & V.T.Nguyen, Adansonia 35(1): 56. 2013.

Bambusa concinna D.L.Fu, sp. nom. nov. *Schizostachyum elegans* Ridl., J. Straits Branch Roy. Asiat. Soc. 73: 146. 1916, non *Bambusa elegans* Ridl.

Bambusa cordata (T.H.Wen & Dai) D.L.Fu, sp. transl. nov.

Neohouzeaua cordata T.H.Wen & Q.H.Dai in J. Bamboo Res. 10(1): 12. 1991.

Bambusa cucphuongensis (H.N.Nguyen & V.T.Tran) D.L.Fu, sp. transl. nov. *Melocalamus cucphuongensis* H.N.Nguyen & V.T.Tran, Blumea 55(2): 131 (-135). 2010.

Bambusa darlacensis (T.Q.Nguyen) D.L.Fu, sp. transl. nov. *Vietnamosasa darlacensis* T.Q.Nguyen, Bot. Zhurn. (Moscow & Leningrad) 75(2): 221. 1990.

Bambusa densa (E.G.Camus) D.L.Fu, sp. comb. nov. *Oxytenanthera thwaitesii* var. *densa* E.G.Camus in Bambusées: 147. 1913; *Oxytenanthera densa* (E.G.Camus) E.G.Camus, Bull. Mus. Natl. Hist. Nat. 28: 444. 1922.

Bambusa detinens (R.Parker) D.L.Fu, sp. transl. nov. *Klemachloa detinens* R.Parker in Indian Forester 58: 7. 1932.

Bambusa dienbienensis (H.N.Nguyen & V.T.Nguyen) D.L.Fu, sp. transl. nov. *Dendrocalamus dienbienensis* H.N.Nguyen & V.T.Nguyen, Phytotaxa 327(3): 291. 2017.

Bambusa dinhensis (A.Camus) D.L.Fu, sp. transl. nov. *Oxytenanthera dinhensis* A.Camus in H.Lecomte, Fl. Indo-Chine 7: 620. 1923.

Bambusa distegia (Keng & Keng f.) D.L.Fu, sp. transl. nov. *Sinocalamus distegius* Keng & Keng f. in J. Washington Acad. Sci. 36: 76. 1946; *Bambusa distegia* (Keng & Keng f.) L.C.Chia & H.L.Fung, Acta Phytotax. Sin. 18: 213. 1980, nom. inval..

Bambusa dongvanensis (T.Q.Nguyen) D.L.Fu, sp. transl. nov. *Neomicrocalamus dongvanensis* T.Q.Nguyen, Bot. Zhurn. (Moscow & Leningrad) 76(6): 877. 1991.

Bambusa dumosa (Ridl.) D.L.Fu, sp. transl. nov. *Schizostachyum dumosum* Ridl. in J. Straits Branch Roy. Asiat. Soc. 61: 64. 1912)

Bambusa elevatissima (Hsueh f. & T.P.Yi) D.L.Fu, sp. transl. nov. *Melocalamus elevatissimus* Hsueh & T.P.Yi, J. Bamboo Res. 2(1): 28. 1983.

Bambusa exaurita (W.T.Lin) D.L.Fu, sp. transl. nov. *Drepanostachyum exauritum* W.T.Lin in J. Bamboo Res. 11(2): 30. 1992.

Bambusa farinosa (Keng & Keng f.) D.L.Fu, sp. transl. nov. *Sinocalamus farinosus* Keng & Keng f. in J. Washington Acad. Sci. 36: 79. 1946.

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5. Conclusion

The unscientific use of taxonomic characters in Bambusaceae Burnett can result in the taxonomic confusion regarding the classification of genera. By applying the minimum criterion for the genus classification by CPCG of Fructophyta D.L.Fu & H.Fu, a crucial scientific instrument, we can effectively mitigate the subjectivity and partiality of traditional taxonomy and modern phylogeny. This will allow us to scientifically identify the genus synonyms and refine the groundwork for researching the evolutionary system within the family.

Abbreviations

CPCG: Chloroplast Complete Genomes

PHL: Phylogenetic Loci

PHS: Phylogenetic Similarity

Author Contributions

Da-Li Fu is the sole author. The author read and approved the final manuscript.

Conflicts of Interest

The author declares no conflicts of interest.

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