

Research Article

New Names and New Combinations of *Phyllostachys* Sieb. & Zucc. (Bambusaceae)

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Abstract

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 is initially proposed. As a result, 34 current synonyms of the genus *Phyllostachys* Sieb. & Zucc. (Bambusaceae Burnett) have been identified, including *Acidosasa* C.D.Chu & C.S.Chao, *Ampelocalamus* S.L.Chen, T.H.Wen & G.Y.Sheng, *Arundinaria* Michx., *Bashania* Keng f. & T.P.Yi, *Bergbambos* Stapleton, *Chimonobambusa* Makino, *Drepanostachyum* Keng f., *Fargesia* Franch., *Ferocalamus* Hsueh & P.J.Keng, *Gaoligongshania* D.Z.Li, Hsueh & N.H.Xia, *Gelidocalamus* T.H.Wen, *Himalayacalamus* Keng f., *Indocalamus* Nakai, *Indosasa* McClure, *Kengiochloa* Y.H.Tong & N.H.Xia, *Khoonmengia* N.H.Xia, Y.H.Tong & X.R.Zheng, *Kuruna* Attigala, Kathr. & L.G.Clark, *Oldeania* Stapleton, *Oligostachyum* Z.P.Wang & G.H.Ye, *Pleiblastus* Nakai, *Pseudosasa* Makino ex Nakai, *Ravenochloa* D.Z.Li & Y.X.Zhang, *Sarocalamus* Stapleton, *Sasa* Makino & Shibata, *Sasaella* Makino, *Sasamorpha* Nakai, *Semiarundinaria* Makino ex Nakai, *Shibataea* Makino ex Nakai, *Sinobambusa* Makino ex Nakai, *Sinosasa* L.C.Chia ex N.H.Xia, Q.M.Qin & Y.H.Tong, *Thamnocalamus* Munro, *Tongpeia* Stapleton, *Vietnamocalamus* T.Q.Nguyen and *Yushania* Keng f.. Additionally, 82 new specific names such as *Phyllostachys aristiformis* D.L.Fu & H.Fu and *Phyllostachys hackelii* Ohnb. ex D.L.Fu, along with 454 new specific combinations like *Phyllostachys abietina* (T.P.Yi & L.Yang) D.L.Fu and *Phyllostachys actinotricha* (Merr. & Chun) D.L.Fu have been scientifically and validly published. These publications will effectively resolve taxonomic nomenclature confusion in a scientific manner and establish a solid foundation for evolutionary system research within the family Bambusaceae.

Keywords

Phyllostachys, New Combination, CPCG (Chloroplast Complete Genome), Genus Minimum Criterion, Typical Algorithm

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Bamboo plants, the subfamily Bambusoideae Luer (1893) of the family Bambusaceae Burnett (1835), are closely intertwined with human production and daily life, exerting a profound influence on culture as well. However, due to the unpredictable flowering period and substantial variation in flowering patterns, classifying this subfamily, particularly the genus *Phyllostachys* Sieb. & Zucc., poses greater challenges [1-7]. Therefore, the distinctive characteristics of the subfamily, such as culm, rhizome, branch, and culm sheath, have traditionally been employed in taxonomic classification [1-3, 7-28]. However, further research is necessary to validate this classification from a scientific perspective. It is evident that relying solely on these features can potentially lead to taxonomic ambiguity. For instance, the taxonomic name *Phyllostachys naibunensis* (Hayata) D.L.Fu has undergone original publication and successive combinations, including *Arundinaria naibunensis* Hayata (1911), *Pseudosasa naibunensis* (Hayata) Makino & Nemoto (1931), *Bambusa naibunensis* (Hayata) Nakai (1932), *Pleioblastus naibunensis* (Hayata) Kaneh. & Sasaki (1932), *Leleba naibunensis* (Hayata) Nakai (1933), *Chimonobambusa naibunensis* (Hayata) McClure & W.C.Lin (1974), *Arthrostylidium naibunense* (Hayata) W.C.Lin (1978), *Drepanostachyum naibunense* (Hayata) Keng f. (1986) and *Ampelocalamus naibunensis* (Hayata) T.H.Wen (1987), by different nomenclators or the same one.

The modern phylogeny is based on Darwin's theory of evolution, which includes the concepts of the 'tree of life,' 'common ancestor,' and 'germogenesis' [29-30]. However, due to its subjective and partial nature, this system fails to scientifically demonstrate the evolutionary relationships among different organisms [31-33], leading to taxonomic confusions. For example, the classification confusion within Bambusoideae remains largely unresolved in the phylogenetic system [4-6]. *Phyllostachys pubiflora* (Keng) D.L.Fu was incorrectly combined as *Pseudosasa pubiflora* (Keng) Keng f. ex D.Z.Li & L.M.Gao [3] and even established as a new genus called *Kengiochloa* Y.H.Tong & N.H.Xia [23].

To overcome these shortcomings, the new science evolutionism has been developed with the publications of the evolutionary continuity principle, the evolutionary particularity principle and the theoretical monograph as *the Theory and Practice of Evolutionism* [31-33]. Based on the new science, we can analyze the evolutionary relationships among different taxa and establish a scientific evolutionary system, and scientifically resolve the taxonomic nomenclature confusion. For instance, the evolutionary system of genera, subgenera, and sections within the Magnoliaceae family has been scientifically established using chloroplast complete genome (CPCG) sequences. The boundary for genus classi-

1. Introduction

fication is PHS (phylogenetic similarity, 17bp) ≥ 0.9234 (intra-genus) or PHS (17bp) ≤ 0.9232 (inter genera). Magnoliaceae are the most primitive taxa among fruit plants and hold significant implications for evolutionary studies [34-35]. Therefore, we propose that the minimum criterion for classifying Fructophyta D.L.Fu & H.Fu [31] at the genus rank using CPCG data should be set as PHS ≤ 0.928 (inter genera), considering that two species of *Liriodendron* L. have a PHS value of 0.929 [34-35].

In order to resolve the taxonomic confusion of the genus *Phyllostachys* in a scientifically rigorous manner, we downloaded 35 relevant CPCG sequences from the NCBI (National Center for Biotechnology Information, USA) database and conducted an evolutionary analysis on these sequences. Based on our findings, we propose the following amendments to the taxonomy of this genus.

2. Materials and Methods

2.1. CPCG of Bambusaceae

Total 35 CPCG of representative species of Bambusaceae were selected from the NCBI database. Their current names, scientific names and CPCG numbers of NCBI are listed in Table 1.

2.2. Evolutionary Analyses of CPCG

The evolutionary analyses of CPCG mainly use the typical algorithm [33-35] 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

The PHS of CPCG of 35 species of Bambusaceae were analyzed using the type *Phyllostachys edulis* (Carrière) J.Houz. and the results are shown in Table 1.

Table 1. PHS of CPCG between *Phyllostachys edulis* and some representative species of *Bambusaceae* Burnett.

No.	Scientific Names and Numbers of CPCG in NCBI	Current Names	PHL/17bp	PHS
1	<i>Phyllostachys edulis</i> _NC015817.1	<i>Phyllostachys edulis</i>	117396	1
2	<i>Phyllostachys fargesii</i> _NC024712.1	<i>Bashania fargesii</i>	116464	0.992
3	<i>Phyllostachys spathacea</i> _NC024716.1	<i>Fargesia spathacea</i>	116381	0.991
4	<i>Phyllostachys fungosa</i> _NC043937.1	<i>Tongpeia fungosa</i>	116159	0.99
5	<i>Phyllostachys hirtinoda</i> _MT576658.1	<i>Chimonobambusa hirtinoda</i>	116154	0.989
6	<i>Phyllostachys rendlei</i> _NC024713.1	<i>Sarocalamus faberi</i>	115976	0.988
7	<i>Phyllostachys albocerea</i> _NC043891.1	<i>Borinda albocerea</i>	115969	0.988
8	<i>Phyllostachys niitakayamensis</i> _NC062890.1	<i>Yushania niitakayamensis</i>	115804	0.986
9	<i>Phyllostachys stellata</i> _NC072532.1	<i>Gelidocalamus stellatus</i>	115803	0.986
10	<i>Phyllostachys falcata</i> _NC037167.1	<i>Drepanostachyum falcatum</i>	115253	0.982
11	<i>Phyllostachys falconeri</i> _NC043943.1	<i>Himalayacalamus falconeri</i>	114643	0.977
12	<i>Phyllostachys crassiflora</i> _NC067633.1	<i>Indosasa crassiflora</i>	112460	0.958
13	<i>Phyllostachys sulcata</i> _NC059752.1	<i>Oligostachyum sulcatum</i>	112447	0.958
14	<i>Phyllostachys maguanensis</i> _NC015820.1	<i>Acidosasa purpurea</i>	112442	0.958
15	<i>Phyllostachys sinica</i> _NC036819.1	<i>Indocalamus sinicus</i>	112304	0.957
16	<i>Phyllostachys tootsik</i> _OQ236108.1	<i>Sinobambusa tootsik</i>	112288	0.957
17	<i>Phyllostachys veitchii</i> _KU569975.1	<i>Sasa veitchii</i>	112036	0.954
18	<i>Phyllostachys crassinoda</i> _NC061040.1	<i>Thamnocalamus crassinodus</i>	111920	0.953
19	<i>Phyllostachys alpina</i> _KU569972.1	<i>Oldeania alpina</i>	111795	0.952
20	<i>Phyllostachys kumasaca</i> _KU523578.1	<i>Shibataea kumasaca</i>	111766	0.952
21	<i>Phyllostachys pubiflora</i> _OP850350.1	<i>Kengiochloa pubiflora</i>	111729	0.952
22	<i>Phyllostachys argenteostriata</i> _NC069216.1	<i>Pleioblastus argenteostriatus</i>	111692	0.951
23	<i>Phyllostachys masamuneana</i> _NC069218.1	<i>Sasaella masamuneana</i>	111619	0.951
24	<i>Phyllostachys tessellata</i> _KU569967.1	<i>Bergbambos tessellata</i>	111362	0.949
25	<i>Phyllostachys japonica</i> _NC028328.1	<i>Pseudosasa japonica</i>	111230	0.948
26	<i>Phyllostachys rimosivagina</i> _NC015831.1	<i>Ferrocalamus rimosivaginus</i>	111123	0.947
27	<i>Phyllostachys longiligulata</i> _MF066256.1	<i>Sinosasa longiligulata</i>	111063	0.946
28	<i>Phyllostachys wilsonii</i> _NC024720.1	<i>Ravenochloa wilsonii</i>	111048	0.946
29	<i>Phyllostachys actinotricha</i> _NC036815.1	<i>Ampelocalamus actinotrichus</i>	110796	0.944
30	<i>Phyllostachys gigantea</i> _NC020341.1	<i>Arundinaria gigantea</i>	110699	0.943
31	<i>Phyllostachys megalothyrsa</i> _NC024718.1	<i>Gaoligongshania megalothyrsa</i>	110561	0.942
32	<i>Phyllostachys debilis</i> _NC036822.1	<i>Kuruna debilis</i>	110228	0.939
33	<i>Hsuehochloa calcareus</i> _NC024731.1	<i>Hsuehochloa calcareus</i>	107354	0.915
34	<i>Dinochloa atra</i> _NC026964.1	<i>Neololeba atra</i>	94735	0.807
35	<i>Bambusa emeiensis</i> _NC015830.1	<i>Bambusa emeiensis</i>	94050	0.801

From Table 1, it is evident that using the type of *Phyllostachys edulis* (Carrière) J.Houz., there are 31 synonyms of

the genus *Phyllostachys*, including *Bashania*, *Fargesia*, *Tongpeia*, *Chimonobambusa*, *Sarocalamus*, *Borinda*, *Yushania*, *Gelidocalamus*, *Drepanostachyum*, *Himalayacalamus*, *Indosasa*, *Oligostachyum*, *Acidosasa*, *Indocalamus*, *Sinobambusa*, *Sasa*, *Thamnocalamus*, *Oldeania*, *Shibataea*, *Kengiochloa*, *Pleioblastus*, *Sasaella*, *Bergbambos*, *Pseudosasa*, *Ferocalamus*, *Sinosasa*, *Ravenochloa*, *Ampelocalamus*, *Arundinaria*, *Gaoligongshania* and *Kuruna*, owing to their evolutionary relationships with *Phyllostachys* all surpassing a threshold value of 0.939, not meeting the minimum criterion $PHS(17bp) \leq 0.928$ (inter genera) for genus evolution.

Although *Khoonmengia* N.H.Xia et al., *Sasamorpha* Nakai and *Vietnamocalamus* T.Q.Nguyen currently lack CPCG, based on Table 1 and previous research results [3, 5, 7, 15, 24], it can also be confirmed that they are the synonyms of *Phyllostachys*. Therefore, it is scientific to combine the genus *Phyllostachys* as follows.

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honbaensis (N.H.Xia et al.) D.L.Fu. — *Kuruna* Attigala, Kathr. & L.G.Clark, Phytotaxa 174(4): 182. 2014. Type: *Phyllostachys debilis* (Thwaites) D.L.Fu. — *Oldeania* Stapleton, PhytoKeys 25: 100. 2013. Type: *Phyllostachys alpina* (K.Schum.) D.L.Fu. — *Oligostachyum* Z.P.Wang & G.H.Ye, J. Nanjing Univ., Nat. Sci. Ed. (1): 95. 1982. Type: *Phyllostachys sulcata* (Z.P.Wang & G.H.Ye) D.L.Fu. — *Pleioblastus* Nakai, J. Arnold Arbor. 6: 145. 1925. Type: *Phyllostachys gramineus* (Bean) D.L.Fu. — *Pseudosasa* Makino ex Nakai, J. Arnold Arbor. 6: 150. 1925. Type: *Phyllostachys japonica* (Steud.) D.L.Fu. — *Ravenochloa* D.Z.Li & Y.X.Zhang, Pl. Diversity 42(3): 132. 2020. Type: *Phyllostachys wilsonii* (Rendle) D.L.Fu. — *Sarocalamus* Stapleton, Novon 14(3): 346. 2004. Type: *Phyllostachys racemosa* (Munro) D.L.Fu. — *Sasa* Makino & Shibata, Bot. Mag. (Tokyo) 15: 18. 1901. Type: *Phyllostachys veitchii* (Carrière) D.L.Fu. — *Sasaella* Makino, J. Jap. Bot. 6: 15. 1929. Type: *Phyllostachys ramosa* (Makino) D.L.Fu. — *Sasamorpha* Nakai, J. Fac. Agric. Hokkaido Imp. Univ. 26: 180. 1931. Type: *Phyllostachys borealis* (Hack.) D.L.Fu. — *Semiarundinaria* Makino ex Nakai, J. Arnold Arbor. 6: 150. 1925. Type: *Phyllostachys fastuosa* (Lat.-Marl. ex Mitford) Burb. — *Shibataea* Makino ex Nakai, J. Jap. Bot. 9(2): 83. 1933. Type: *Phyllostachys kumasasa* (Zoll. ex Steud.) Munro. — *Sinobambusa* Makino ex Nakai, J. Arnold Arbor. 6: 152. 1925. Type: *Phyllostachys tootsik* (Makino) D.L.Fu. — *Sinosasa* L.C.Chia ex N.H.Xia, Q.M.Qin & Y.H.Tong, Taxon 70(1): 31. 2020. Type: *Phyllostachys longiligulata* (McClure) D.L.Fu. — *Thamnocalamus* Munro, Trans. Linn. Soc. London 26(1): 33, 157. 1868. Type: *Phyllostachys spathiflora* (Trin.) D.L.Fu. — *Tongpeia* Stapleton, J. Amer. Bamboo Soc. 31: 9. 2021. Type: *Phyllostachys arachnoides* (Stapleton) D.L.Fu. — *Vietnamocalamus* T.Q.Nguyen, Bot. Zhurn. (Moscow & Leningrad) 76(6): 874. 1991. Type: *Phyllostachys catbaensis* (T.Q.Nguyen) D.L.Fu. — *Yushania* Keng f., Acta Phytotax. Sin. 6: 355. 1957. Type: *Phyllostachys nitakayamensis* (Hayata) D.L.Fu.

About 601 species in Asian, America and Africa, including 82 new specific names and 454 new specific combinations.

4. New Taxa of *Phyllostachys*

Phyllostachys abietina (T.P.Yi & L.Yang) D.L.Fu, sp. transl. nov. *Bashania abietina* T.P.Yi & Lin Yang, J. Bamboo Res. 17(4): 1. 1998.

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Indocalamus amplexicaulis W.T.Lin, J. S. China Agric. Univ. 13(2): 86. 1992.
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- Phyllostachys apicirubens* (Stapleton) D.L.Fu, sp. transl. nov.
Fargesia apicirubens Stapleton, Sida 22(1): 331 (-332). 2006.
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Arundinaria appalachiana Triplett, Weakley & L.G.Clark, Sida 22(1): 88 (79-95; figs. 1-5). 2006.
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Tongpeia arachnoides Stapleton, J. Amer. Bamboo Soc. 31: 12, figure 4. 2021.
- Phyllostachys argenteostriata* (Regel) D.L.Fu, sp. transl. nov.
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5. Conclusion

The utilization of the minimum criterion first proposed by the authors in the paper for the genus classification by CPCG can effectively overcome the subjectivity and partiality of traditional taxonomy and modern phylogeny, and scientifically identify the genus synonyms and resolve the taxonomic nomenclature confusion in Fructophyta D.L.Fu & H.Fu.

Abbreviations

CPCG: Chloroplast Complete Genomes

PHL: Phylogenetic Loci

PHS: Phylogenetic Similarity

Conflicts of Interest

The authors declare no conflicts of interest.

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