

Toshiyuki Nakaike¹ and Akira Yamamoto²: Enumeration of the Latin names of pteridophytes published by Dr. Tomitarô Makino

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Dr. Tomitarô Makino, one of the greatest botanists, contributed to elucidate the identity of Japanese vascular plants. But until now, his new taxa and name-changes were not enumerated. The chief purpose of this paper is to enumerate and clarify the new taxa and name-changes of pteridophytes published by him, with the note on some information of their types and nomenclature. In addition, this paper is a part of our database works for the Latin names of Japanese pteridophytes.

Between the two names, we have added the signs : ≡ when the synonym is a full nomenclatural synonym of the accepted name, : = when it is a taxonomical synonym of the accepted name. The accepted names follow Nakaike and Yamamoto (1997), and appear in **bold-face italics**. Cultivar epithet is indicated as ‘ ’. Names which are not validly published are indicated as “nom. nud.”. Author abbreviation follows the “Authors of scientific names in pteridophyta” (Pichi Sermolli 1996) except two authors, i.e. Satoru Kurata and Hiroshi Itô. They are indicated as Kurata and H.Ito.

As a result, Dr. Makino published 90 new taxa, 1 superfluous name, 13 naked names, 51 new combinations, and 2 new names. Among them, one generic name and 67 specific and infraspecific epithets were accepted by Nakaike and Yamamoto (1997).

Alsophila acaulis Makino in Bot. Mag. Tokyo 28: 335. 1914. [= *Cyathea hancockii* Copel.].

Antrophyum japonicum Makino, Phan. Pterid. Jap. Ic. Ill. 1 : pl.26. 1899. (in Japanese). [= *Antrophyum obovatum* Baker].

Note. One of the syntypes in MAK was found by Ito (1964 : 247).

Aspidium aristatum var. *simplicior* Makino in Bot. Mag. Tokyo 15 : 65. 1901. [= *Arachniodes simplicior* (Makino) Ohwi].

Note. 6 syntypes in MAK were found by Ito (1964 : 247. 1974 : 360).

Aspidium falcatum var. *macrophyllum* Makino in Bot. Mag. Tokyo 16 : 90. 1902. [= *Cyrtotium macrophyllum* (Makino) Tagawa].

Note. Photograph of a syntype in TI was shown by Nakaike (1992 : 358, fig. 358 b).

Aspidium japonicum (Baker) Makino in Bot. Mag. Tokyo 10 : (110). 1896. [= *Parathelypteris japonica* (Baker) Ching].

Aspidium matsumurae Makino in Bot. Mag. Tokyo 6 : (46). 1892. nom. nud.

Note. This epithet was validly published by Makino under the genus *Nephrodium* in 1899.

Aspidium okuboanum Makino in Bot. Mag. Tokyo 6 : (47). 1892. nom. nud.

Note. This epithet was validly published by Makino under the genus *Athyrium* in 1899.

Aspidium polypodiiforme Makino in Bot. Mag. Tokyo 6 : (46). 1892. nom. nud.

Note. This epithet was validly published by Makino under the genus *Nephrodium* in 1899.

Aspidium shikokianum Makino in Bot. Mag. Tokyo 6 : (46). 1892. nom. nud.

Note. This epithet was validly published by Makino under the genus *Nephrodium* in 1899.

Aspidium tosaense Makino in Bot. Mag. Tokyo 6 : (46). 1892. nom. nud. ; ditto 13 : 61. 1899. [= *Polystichum deltodon* (Baker) Diels].

Note. 4 syntypes in MAK were found by Ito (1974 : 360).

Aspidium yaeyamense Makino in Bot. Mag. Tokyo 11 : 18. 1897. [= *Polystichum yaeyamense* (Makino) Makino].

Note. Photograph of a syntype in TI was

- shown by Nakaike (1992: 539).
- Aspidium yoshinagae* Makino in Bot. Mag. Tokyo 6: (46). 1892. nom. nud.; ditto 13: 57. 1899. [= *Arachniodes yoshinagae* (Makino) Ching].
- Note. One of the syntypes in MAK was found by Ito (1964: 247).
- Asplenium abbreviatum* Makino in Bot. Mag. Tokyo 13: 12. 1899. [= *Asplenium pekinense* Hance].
- Asplenium antiquum* Makino in J. Jpn. Bot. 6: 32. 1929.
- Asplenium capillipes* Makino in Bot. Mag. Tokyo 17: 77. 1903.
- Note. The lectotype in MAK was designated by Nakaike (1983: 81). Photograph of a syntype in TNS was shown by Nakaike (1992: 595).
- Asplenium mesosorum* Makino in Bot. Mag. Tokyo 12: (88). 1898. nom. nud.; ditto 12: 120. 1898. [= *Diplazium mesosorum* (Makino) Koidz.].
- Note. 2 syntypes in MAK were found by Ito (1974: 360). Photograph of a syntype in TI was shown by Nakaike (1992: 289, fig. 289 b).
- Asplenium microsorum* Makino in Bot. Mag. Tokyo 6: (46). 1892. nom. nud.
- Note. This epithet was validly published by Makino under the genus *Athyrium* in 1899.
- Asplenium miyoshii* Makino in Bot. Mag. Tokyo 6: (45). 1892. nom. nud.
- Note. This name was prepared for *Asplenium oligophlebium* Baker.
- Asplenium naganumana* Makino in Bot. Mag. Tokyo 6: (46). 1892. nom. nud.
- Note. This epithet was validly published by Makino under the genus *Diplazium* in 1899.
- Asplenium nakanoanum* Makino in Bot. Mag. Tokyo 28: 176. 1914. [= *Asplenium griffithianum* Hook.].
- Asplenium niponicum* var. *metallicum* Makino in Bot. Mag. Tokyo 26: 178. 1912. [= *Athyrium niponicum* 'metallicum'].
- Asplenium* × *shikokianum* Makino in Bot. Mag. Tokyo 6: (45). 1892. nom. nud.; ditto 13: 13. 1899. pro sp.
- Asplenium toramanum* Makino in Bot. Mag. Tokyo 6: (45). 1892. nom. nud.; ditto 13: 13. 1899. [= *Asplenium coenobiale* Hance].
- Note. 3 syntypes in MAK were found by Ito (1974: 360).
- Asplenium viridifrons* Makino in Bot. Mag. Tokyo 6: (46). 1892. nom. nud.
- Note. This epithet was validly published by Makino under the genus *Athyrium* in 1899.
- Asplenium yoshinagae* Makino, Phan. Pterid. Jap. Ic. Ill. 2: pl. 64. 1900. (in Japanese).
- Note. Photograph of a syntype in TI was shown by Nakaike (1992: 633).
- Athyrium crenuloserrulatum* Makino in Bot. Mag. Tokyo 13: 26. 1899. [= *Cornopteris crenuloserrulata* (Makino) Nakai].
- Note. Photograph of a syntype in TI was shown by Nakaike (1992: 323).
- Athyrium crenuloserrulatum* form. *hakonense* Makino in Bot. Mag. Tokyo 13: 27. 1899. [= *Cornopteris* × *christenseniana* (Koidz.) Tagawa].
- Note. Photograph of a syntype in TI was shown by Nakaike (1992: 326).
- Athyrium deltoidifrons* (Makino) Makino in Bot. Mag. Tokyo 28: 178. 1914.
- Athyrium fauriei* (Christ) Makino in Bot. Mag. Tokyo 17: 160. 1903. [= *Athyrium yokoscens* (Franch. et Sav.) Christ].
- Athyrium filix-femina*. var. *deltoideum* Makino in Bot. Mag. Tokyo 13: 30. 1899. [= *Athyrium deltoidifrons* Makino].
- Athyrium filix-femina*. var. *melanolepis* (Franch. et Sav.) Makino in Bot. Mag. Tokyo 13: 30. 1899. [= *Athyrium melanolepis* (Franch. et Sav.) Christ].
- Athyrium filix-femina*. var. *nigropaleaceum* Makino in Bot. Mag. Tokyo 13: 29. 1899. [= *Athyrium melanolepis* (Franch. et Sav.) Christ].
- Athyrium major* (Makino) Makino in Bot. Mag. Tokyo 28: 178. 1914. [= *Athyrium wardii* (Hook.) Makino].
- Athyrium mesosorum* (Makino) Makino in Bot. Mag. Tokyo 13: 82. 1899. [= *Diplazium mesosorum* (Makino) Koidz.].
- Athyrium microsorum* Makino in Bot. Mag. Tokyo 13: 25. 1899. [= *Athyrium atkinsonii* Bedd.].
- Athyrium nakanoi* Makino in Bot. Mag. Tokyo 23: 247. 1909.
- Note. 4 isotypes in MAK were found by Ito (1974: 360). Photograph of a syntype in TI was shown by Nakaike (1992: 290, fig. 290 b).

- Athyrium nikkoense* Makino in Bot. Mag. Tokyo 17: 43. 1903.
Note. 4 syntypes in MAK were found by Ito (1974: 360). Photograph of a syntype in TNS was shown by Nakaike (1992: 292).
- Athyrium niponicum* var. *crisatoflabellatum* Makino in J. Jpn. Bot. 1: 6. 1916. [= *Athyrium niponicum* 'crisatoflabellatum'].
- Athyrium niponicum* var. *metallicum* Makino in Bot. Mag. Tokyo 26: 178. 1912. [= *Athyrium niponicum* 'metallicum'].
- Athyrium okuboanum* Makino in Bot. Mag. Tokyo 13: 16. 1899. [= *Deparia okuboana* (Makino) M.Kato].
Note. The lectotype in MAK was designated by Kato (1984: 385). Photograph of a syntype in TI was shown by Nakaike (1992: 487, fig. 487 b).
- Athyrium rigescens* Makino in Bot. Mag. Tokyo 13: 27. 1899. [= *Athyrium otophorum* (Miq.) Koidz.].
Note. One of the syntypes in MAK was found by Ito (1974: 361).
- Athyrium viridifrons* Makino in Bot. Mag. Tokyo 13: 15. 1899. [= *Deparia viridifrons* (Makino) M.Kato].
Note. One of the syntypes in MAK was found by Ito (1974: 361). Photograph of a syntype in TI was shown by Nakaike (1992: 494, fig. 494 b).
- Athyrium viridifrons* form. *okuboanum* (Makino) Makino in J. Jpn. Bot. 6: 10. 1929. [= *Deparia okuboana* (Makino) M.Kato].
- Athyrium wardii* (Hook.) Makino in Bot. Mag. Tokyo 13: 28. 1899.
- Athyrium wardii* var. *majus* Makino in Bot. Mag. Tokyo 13: 28. 1899. "major". [= *Athyrium wardii* (Hook.) Makino].
Note. One of the syntypes in MAK was found by Ito (1974: 361).
- Blechnum amabile* Makino in Bot. Mag. Tokyo 11: 83. 1897. [= *Struthiopteris amabilis* (Makino) Ching].
- Blechnum castaneum* Makino in Makino and Nemoto, Cat. Jap. Pl. Herb. Nat. Hist. Dept. Tokyo Imp. Mus. 421. 1914. nom. nud.
Note. This epithet was validly published by Makino and Nemoto under the genus *Blechnum* in 1925.
- Blechnum castaneum* Makino ex Makino and Nemoto, Fl. Jap. 1591. 1925. (in Japanese).
[= *Struthiopteris castanea* (Makino ex Makino et Nemoto) Nakai].
Note. The authorship and holotype were discussed by Nakaike (1983: 80).
- Blechnum crenulatum* (Moore ex Hook. et Baker) Makino in Bot. Mag. Tokyo 15: 96. 1901. [= *Struthiopteris amabilis* (Makino) Ching].
Note. This new combination was already done by Salomon (1883: 115) based on *Lomaria crenulata* Moore ex Hook. et Baker as nom. seminud.
- Blechnum nipponicum* (Kunze) Makino in Bot. Mag. Tokyo 11: 82. 1897. [= *Struthiopteris nipponica* (Kunze) Nakai].
- Botrychium nipponicum* Makino in J. Jpn. Bot. 1: 5. 1916. [= *Sceptridium nipponicum* (Makino) Holub].
Note. 5 syntypes in MAK were found by Ito (1974: 361). Photograph of a syntype in TNS was shown by Nakaike (1992: 76, fig. 76 a) as the lectotype.
- Cheilanthes argentea* var. *efarinosa* Makino in J. Jpn. Bot. 1: 26. 1917. [= *Cheilanthes argentea* form. *obscura* (Christ) Kitagawa].
Note. Information of the accepted name of this taxa is from Lee (1996: 26).
- Cheilanthes brandtii* var. *efarinosa* Makino in J. Jpn. Bot. 1: 26. 1917. [= *Cheilanthes brandtii* form. *efarinosa* (Makino) Nakaike].
- Coniogramme japonica* form. *flavomaculata* Makino, Ill. Fl. Jap. 927. 1940. nom. nud. (with Japanese description only). [= *Coniogramme japonica* 'flavomaculata'].
- Cyclophorus lingua* form. *crisatus* (Makino) Makino in Makino and Nemoto, Cat. Jap. Pl. Herb. Nat. Hist. Dept. Tokyo Imp. Mus. 422. 1914. [= *Pyrrosia lingua* 'crisata'].
- Diplazium conilii* (Franch. et Sav.) Makino in Bot. Mag. Tokyo 27: 253. 1913. [= *Deparia conilii* (Franch. et Sav.) M.Kato].
- Diplazium conilii* var. *simplicifolium* Makino in Bot. Mag. Tokyo 27: 253. 1913. [= *Deparia lobatocrenatum* (Tagawa) Nakaike].
- Diplazium doederleinii* (Luer.) Makino in Bot. Mag. Tokyo 13: 15. 1899.
- Diplazium japonicum* var. *conilii* (Franch. et Sav.) Makino in Bot. Mag. Tokyo 20: 32. 1906.

- [≡ *Deparia conilii* (Franch. et Sav.) M. Kato].
- Diplazium lanceum* var. *crenatum* Makino in Bot. Mag. Tokyo 27: 253. 1913. [= ×*Depazium tomitaroanum* (Masamune) Nakaike].
- Diplazium lanceum* var. *sinuatolobatum* Makino in Bot. Mag. Tokyo 20: 32. 1906. [= ×*Depazium tomitaroanum* (Masamune) Nakaike].
- Diplazium naganumanum* Makino in Bot. Mag. Tokyo 13: 14. 1899. [= *Diplazium chinense* (Baker) C. Chr.].
- Note. One of the syntypes in MAK was found by Ito (1974: 361).
- Diplazium okudairae* Makino in Bot. Mag. Tokyo 20: 84. 1906. "okudairai".
- Note. Photograph of the holotype in TI was shown by Nakaike (1992: 382).
- Diplazium textori* (Miq.) Makino in Bot. Mag. Tokyo 13: 31. 1899. [= *Diplazium fauriei* Christ].
- Drymoglossum nobukoanum* Makino in J. Jpn. Bot. 7: 8. 1931. [= *Lemmaphyllum microphyllum* var. *nobukoanum* (Makino) Tagawa].
- Note. Photograph of an isotype in KYO was shown by Nakaike (1992: 658).
- Drymotaenium* Makino in Bot. Mag. Tokyo 15: 102. 1901.
- Drymotaenium miyoshianum* (Makino) Makino in Bot. Mag. Tokyo 15: 102. 1901.
- Dryopteris abbreviatipinna* Makino et Ogata in J. Jpn. Bot. 6: 10. 1929. [= *Parathelypteris cystopteroides* (D.C. Eaton.) Ching].
- Dryopteris erythrosora* var. *cystolepidota* (Miq.) Makino in Bot. Mag. Tokyo 23: 144. 1909. [= *Dryopteris erythrosora* (D.C. Eaton.) Kuntze].
- Dryopteris erythrosora* var. *obtusa* (Makino) Makino in Bot. Mag. Tokyo 23: 144. 1909. [= *Dryopteris fuscipes* C. Chr.].
- Dryopteris erythrosora* var. *prolifera* (Maxim. ex Franch. et Sav.) Makino in Bot. Mag. Tokyo 23: 145. 1909. [= *Dryopteris erythrosora* 'prolifera'].
- Dryopteris gracilescens* var. *glanduligera* (Kunze) Makino in Makino and Nemoto, Cat. Jap. Pl. Herb. Nat. Hist. Dept. Tokyo Imp. Mus. 426. 1914. [= *Parathelypteris glanduligera* (Kunze) Ching].
- Dryopteris japonica* var. *viridescens* Makino, Gensyoku Yagai-shokubutu Zufu 3: 225. 1933. (in Japanese). [= *Parathelypteris japonica* form. *viridescens* (Makino) Nakaike].
- Dryopteris obtusissima* (Makino) Makino in J. Jpn. Bot. 3: 47. 1926. [= *Dryopteris fuscipes* C. Chr.].
- Dryopteris pseudoafricana* Makino et Ogata in J. Jpn. Bot. 4: (140). 1927. nom. superfl. [= *Cyclogramma leveillei*].
- Note. This is a superfluous name for *Dryopteris izuensis* Kodama.
- Dryopteris uniformis* (Makino) Makino in Bot. Mag. Tokyo 23: 145. 1909.
- Elaphoglossum tosaense* (Yatabe) Makino, Phan. Pterid. Jap. Ic. Ill. 1: pls. 53, 54. 1901.
- Elaphoglossum yoshinagae* (Yatabe) Makino, Phan. Pterid. Jap. Ic. Ill. 1: pls. 51, 52. 1901.
- Gleichenia kiusiana* Makino in Bot. Mag. Tokyo 18: 139. 1904. [= *Gleichenia laevisissima* Christ].
- Note. One of the syntypes in MAK was found by Ito (1964: 247).
- Gymnogramme elliptica* (Thunb.) Makino in Bot. Mag. Tokyo 12: (166). 1898. [= *Colysis elliptica* (Thunb.) Ching].
- Note. This new combination was already done as *Gymnogramme elliptica* (Thunb.) Baker in Hooker and Baker (1868: 388).
- Gymnogramme makinoi* Maxim. ex Makino in Bot. Mag. Tokyo 4: 五八 (=58). 1890. (in Japanese); in Bot. Mag. Tokyo 8: (481), pl. IX. 1894. [= *Pleurosoriopsis makinoi* (Maxim. ex Makino) Fomin].
- Gymnogramme pothifolia* (D. Don) Makino in Bot. Mag. Tokyo 12: (166). 1898. excl. type. [= *Colysis decurrens* (Wall. ex Hook. et Grev.) Nakaike].
- Note. This new combination was already done as *Gymnogramme pothifolia* (Don) Spreng. (Sprengel 1827: 39).
- Gymnogramme salicifolia* Makino, Phan. Pterid. Jap. Ic. Ill. 1: pl. 34. 1899. (in Japanese). [= *Loxogramme salicifolia* (Makino) Makino].
- Note. Photograph of a syntype in TI was shown by Nakaike (1992: 675).
- Hymenophyllum flexile* Makino in Bot. Mag. Tokyo 13: 45. 1899. [= *Mecodium flexile* (Makino) Copel.].
- Note. The lectotype was designated by Iwatsuki (1985: 520), as a synonym of *Hymeno-*

- phyllum badium* Hook. et Grev. Photograph of a syntype in MAK was shown by Nakaike (1992 : 119, fig. 119 a).
- Hymenophyllum oligosorum* Makino in Bot. Mag. Tokyo 13: 44. 1899. [= *Mecodium oligosorum* (Makino) H.Ito].
Note. 6 syntypes in MAK were found by Ito (1964 : 247). The lectotype was designated by Iwatsuki (1985 : 514). Photograph of a syntype in MAK was shown by Nakaike (1992 : 120, fig. 120 a).
- Isoëtes asiatica* (Makino) Makino in Bot. Mag. Tokyo 28 : 184. 1914.
- Isoëtes echinospora* var. *asiatica* Makino in Bot. Mag. Tokyo 18 : 129. 1904. [= *Isoëtes asiatica* (Makino) Makino].
- Lindsaea chinensis* var. *tenuifolia* (Lam.) Makino in Bot. Mag. Tokyo 10 : (152). 1896. [= *Sphenomeris chinensis* (L.) Maxon].
- Lomaria castanea* Makino in Bot. Mag. Tokyo 6 : (45). 1892. nom. nud.
Note. This epithet was validly published by Makino and Nemoto under the genus *Blechnum* in 1925.
- Lomaria matsumureana* Makino in Bot. Mag. Tokyo 8 : (90). 1894. nom. nud.
Note. This epithet was validly published by Makino under the genus *Plagiogyria* in 1894.
- Loxogramme salicifolia* (Makino) Makino in Bot. Mag. Tokyo 19 : 138. 1905.
- Lycopodium miyoshianum* Makino in Bot. Mag. Tokyo 12 : 36. 1898. [= *Huperzia miyoshiana* (Makino) Ching].
- Lycopodium selago* var. *miyoshianum* (Makino) Makino in Bot. Mag. Tokyo 16 : 199. 1902. [= *Huperzia miyoshiana* (Makino) Ching].
- Lycopodium serratum* α *thunbergii* Makino in Bot. Mag. Tokyo 12 : (12). 1898. (based on *Lycopodium serratum* Thunb.). [= *Huperzia serrata* (Thunb.) Trevis.].
- Lycopodium serratum* β *javanicum* (Sw.) Makino in Bot. Mag. Tokyo 12 : (13). 1898. [= *Huperzia serrata* (Thunb.) Trevis.].
- Lycopodium subdistichum* Makino in Bot. Mag. Tokyo 12 : 37. 1898. [= *Huperzia fordii* (Baker) Dixit].
- Microlepia marginata* var. *bipinnata* Makino in J. Jpn. Bot. 3 : 47. 1926. [= *Microlepia* \times *bipinnata* (Makino) Shimura].
- Microlepia pseudostrigosa* Makino in Bot. Mag. Tokyo 28 : 337. 1914.
Note. Photograph of the holotype in TI was shown by Nakaike (1992 : 178).
- Monachosorum nipponicum* Makino in Bot. Mag. Tokyo 23 : 246. 1909. [= *Monachosorum flagellare* (Maxim. ex Makino) Hayata].
Note. The holotype in MAK was found by Ito (1964 : 248).
- Nephrodium devexum* (Kunze) Makino in Bot. Mag. Tokyo 10 : 56. 1896. [= *Tectaria devexa* (Kunze) Copel.].
- Nephrodium erythrosorum* var. *cystolepidotum* (Miq.) Makino in Bot. Mag. Tokyo 13 : 65. 1899. [= *Dryopteris erythrosora* (D.C.Eaton.) Kuntze].
- Nephrodium erythrosorum* var. *obtusum* Makino in Bot. Mag. Tokyo 13 : 79. 1899. [= *Dryopteris fuscipes* C.Chr.].
Note. One of the syntypes in MAK was found by Ito (1974 : 361).
- Nephrodium erythrosorum* var. *prolificum* (Maxim. ex Franch. et Sav.) Makino in Bot. Mag. Tokyo 20 : 31. 1906. [= *Dryopteris erythrosora* 'prolifera'].
- Nephrodium filix-mas* var. *polylepis* (Franch. et Sav.) Makino in Bot. Mag. Tokyo 15 : 66. 1901. [= *Dryopteris polylepis* (Franch. et Sav.) C.Chr.].
- Nephrodium glanduligerum* (Kunze) Makino in Bot. Mag. Tokyo 10 : 58. 1896. excl. type. [= *Parathelypteris glanduligera* var. *elatior* (D.C.Eaton.) Nakaike].
- Nephrodium gymnosorum* Makino in Bot. Mag. Tokyo 13 : 64. 1899. [= *Dryopteris gymnosora* (Makino) C.Chr.].
Note. 7 syntypes in MAK were found by Ito (1964 : 248. 1974 : 361). Photograph of a syntype in TNS was shown by Nakaike (1992 : 419).
- Nephrodium gymnosorum* var. *indusiatum* Makino in Bot. Mag. Tokyo 13 : 65. 1899. [= *Dryopteris indusiata* (Makino) Makino et Yamam. ex Yamam.].
- Nephrodium lacerum* β *uniformis* Makino in Bot. Mag. Tokyo 17 : 79. 1903. [= *Dryopteris uniformis* (Makino) Makino].
Note. 6 syntypes in MAK were found by Ito (1964 : 248; 1974 : 361). The lectotype was

- designated and its photograph was shown by Yamamoto et al. (1985: 30).
- Nephrodium matsumurae* Makino in Bot. Mag. Tokyo 13: 63. 1899. [= *Dryopsis maximowicziana* (Miq.) Holttum et Edwards].
Note. 2 syntypes in MAK were found by Ito (1974: 361). Photograph of a syntype in TI was shown by Nakaike (1992: 331, fig. 331 b).
- Nephrodium monticola* Makino in Bot. Mag. Tokyo 13: 80. 1899. [= *Dryopteris monticola* (Makino) C.Chr.].
- Nephrodium polypodiiforme* Makino in Bot. Mag. Tokyo 13: 58. 1899. [= *Athyrium sheareri* (Baker) Ching].
Note. 2 syntypes in MAK were found by Ito (1974: 361).
- Nephrodium shikokianum* Makino in Bot. Mag. Tokyo 13: 62. 1899. [= *Nothoperanema shikokiana* (Makino) Ching].
Note. One of the syntypes was found by Ito (1964: 248).
- Nephrodium tokyoense* Matsum. ex Makino in Bot. Mag. Tokyo 12: (87). 1898. nom. nud.; ditto 13: 81. 1899. [= *Dryopteris tokyoensis* (Matsum. ex Makino) C.Chr.].
Note. Photograph of a syntype in TI was shown by Nakaike (1992: 451).
- Nephrolepis kuroiwayae* Makino in Bot. Mag. Tokyo 9: (10). 1895. [= *Nephrolepis hirsutula* C.Presl].
Note. The holotype in MAK was found by Ito (1964: 248).
- Niphobolus lingua* form. *crinata* Makino, Phan. Pterid. Jap. Ic. Ill. 1: pl. 48. 1901 (in Japanese). [= *Pyrrhosia lingua* 'crinata'].
- Osumunda biformis* (Benth.) Makino in J. Jpn. Bot. 4: 4. 1927. [= *Osumunda japonica* Thunb.].
- Osumunda biformis* var. *divisa* (Makino) Makino in J. Jpn. Bot. 4: 4. 1927. [= *Osumunda japonica* 'divisa'].
- Osumunda nipponica* Makino in Bot. Mag. Tokyo 26: 385. 1912.
Note: The holotype in MAK was found by Ito (1964: 248). Photograph of the holotype was shown by Nakaike (1992: 88).
- Osumunda regalis* var. *japonica* form. *divisa* Makino in Makino and Nemoto, Fl. Jap. 1566. 1925 (in Japanese). [= *Osumunda japonica* 'divisa'].
- Note. Photograph of the holotype in TNS was shown by Nakaike (1992: 86).
- Phegopteris crenulatoserrulata* (Makino) Makino in Bot. Mag. Tokyo 17: 78. 1903. [= *Cornopteris crenulatoserrulata* (Makino) Nakai].
- Plagiogyria hayatana* Makino in Bot. Mag. Tokyo 23: 245. 1909. [= *Plagiogyria falcata* Copel.].
- Plagiogyria matsumureana* Makino in Bot. Mag. Tokyo 8: (333). 1894.
Note. The lectotype was designated by Nakaike (1971: 266), and was shown by Nakaike (1992: 237, fig. 237 a).
- Polypodium annuifrons* Makino in Bot. Mag. Tokyo 13: 48. Mar. 20, 1899; Phan. Pterid. Jap. Icon. Ill. 1: pl. 7. Mar. 25, 1899 (in Japanese). [= *Lepisorus annuifrons* (Makino) Ching].
Note. 5 syntypes were found by Ito (1974: 362). Photograph of a syntype in TI was shown by Nakaike (1992: 661).
- Polypodium contortum* (Christ) Makino et Nemoto, Cat. Jap. Pl. Herb. Nat. Hist. Dept. Tokyo Imp. Mus. 431. 1914. excl. type. [= *Lepisorus tosaensis* (Makino) H.Ito].
- Polypodium distans* (Makino) Makino in Bot. Mag. Tokyo 20: 31. 1906. non Kaulf. 1824. [= *Lepisorus ussuriensis* var. *distans* (Makino) Tagawa].
- Polypodium ellipticum* var. *pothifolium* (D.Don) Makino in Bot. Mag. Tokyo 23: 72. 1909. excl. type. [= *Colysis decurrens* (Wall. ex Hook. et Grev.) Nakaike].
- Polypodium engleri* var. *yakushimense* Makino in Bot. Mag. Tokyo 23: 248. 1909. [= *Crypsinus yakushimensis* (Makino) Tagawa].
Note. Photograph of the holotype in TI was shown by Nakaike (1992: 650).
- Polypodium hastatum* var. *incisum* Makino in Bot. Mag. Tokyo 24: 30. 1910. [= *Crypsinus hastatus* 'incisus'].
- Polypodium hastatum* var. *yoshinagae* Makino in Bot. Mag. Tokyo 27: 253. 1913. [= *Crypsinus hastatus* 'yoshinagae'].
- Polypodium japonense* Makino in Bot. Mag. Tokyo 12: (165). 1898. nom. nud.
Note. This name was prepared for *Lepisorus annuifrons* (Makino) Ching.
- Polypodium lineare* var. *caudatum* Makino in Bot. Mag. Tokyo 17: 78. 1903. [= *Lepisorus*

- tosaensis* (Makino) H.Ito].
 Note. 3 syntypes in MAK were found by Ito (1964 : 248).
- Polypodium lineare* var. *distans* Makino in Bot. Mag. Tokyo 15 : 60. 1901. [= *Lepisorus ussuriensis* var. *distans* (Makino) Tagawa].
- Polypodium lineare* var. *onoei* (Franch. et Sav.) Makino in Bot. Mag. Tokyo 11 : (282). 1897. [= *Lepisorus onoei* (Franch. et Sav.) Ching].
- Polypodium sesquipedale* form. *leiopteris* (Kunze) Makino, Phan. Pterid. Jap. Ic. Ill. 1 : pl. 8. 1899. excl. type. [= *Lepisorus ussuriensis* var. *distans* (Makino) Tagawa].
- Polypodium tosaense* Makino in Bot. Mag. Tokyo 27 : 127. 1913. (based on *Polypodium lineare* var. *caudatum* Makino). [= *Lepisorus tosaensis* (Makino) H.Ito].
- Polypodium uchiyamae* Makino in Bot. Mag. Tokyo 20 : 30. 1906. [= *Lepisorus uchiyamae* (Makino) H.Ito].
 Note. One of the syntypes in MAK was found by Ito (1974 : 362).
- Polypodium yakushimense* (Makino) Makino in Makino and Nemoto, Cat. Jap. Pl. Herb. Nat. Hist. Dept. Tokyo Imp. Mus. 433. 1914. [= *Crypsinus yakushimensis* (Makino) Tagawa].
- Polystichum aculeatum* var. *nigropaleaceum* (Kodama) Makino in J. Jpn. Bot. 2 : 21. 1922. [= *Polystichum makinoi* (Tagawa) Tagawa].
 Note. The nomenclature and type specimens were discussed by Nakaike (1983 : 82). Photograph of the lectotype in TI was shown by Nakaike (1992 : 520, fig. 520 a) as the holotype.
- Polystichum caryotideum* var. *clivicolum* Makino in J. Jpn. Bot. 3 : 6. 1926. [= *Cyrtomium fortunei* var. *clivicola* (Makino) Tagawa].
- Polystichum craspedosorum* var. *dissectum* Makino in Bot. Mag. Tokyo 26 : 385. 1912. [= *Polystichum craspedosorum* 'dissectum'].
- Polystichum tosaense* (Makino) Makino in Bot. Mag. Tokyo 23 : 144. 1909. [= *Polystichum deltodon* (Baker) Diels].
- Polystichum yaeyamense* (Makino) Makino in Bot. Mag. Tokyo 23 : 144. 1909.
- Polystichum yoshinagae* (Makino) Makino in Bot. Mag. Tokyo 23 : 144. 1909. [= *Arachniodes yoshinagae* (Makino) Ching].
- Pteridium aquilinum* var. *latiusculum* form. *basibreve* Makino in Makinoa 4 : 69. 1947.
 nom. nud. (with English description only). [= *Pteridium aquilinum* var. *latiusculum* (Desv.) Und. ex Heller].
- Pteris longipinnula* form. *inaequalis* (Baker) Makino in Bot. Mag. Tokyo 10 : (150). 1896. [= *Pteris excelsa* Gaud.].
- Ptilopteris flagellaris* Maxim. ex Makino in Bot. Mag. Tokyo 13 : 56. 1899. [= *Monachosorum flagellare* (Maxim. ex Makino) Hayata].
- Scolopendrium ikenoi* Makino in Bot. Mag. Tokyo 13 : 130. 1899. [= *Hymenasplenium cardiophyllum* (Hance) Nakaike].
 Note. An isotype in MAK was found by Ito (1964 : 248). The type specimens were discussed by Nakaike (1983 : 82). Photograph of an isotype was shown by Nakaike (1992 : 596).
- Taenitis miyoshiana* Makino in Bot. Mag. Tokyo 12 : 26. 1898. [= *Drymotaenium miyoshianum* (Makino) Makino].
- Trichomanes acuta* Makino in Bot. Mag. Tokyo 6 : (45). 1892. nom. nud.; ditto 13 : 47. 1899. [= *Crepidomanes insigne* var. *makinoi* (C. Chr.) Kurata].
 Note. Christ (1896 : 665) described this species as *Trichomanes acutum* Makino ex Christ based on a specimen from Tosa collected by Makino in Nov. 1887. Photograph of the holotype in P was shown by Nakaike (1992 : 104, fig. 104 a).
- Trichomanes thysanostomum* Makino in Bot. Mag. Tokyo 12 : (193). 1898. nom. nud.; ditto 13 : 46. 1899. [= *Nesopteris thysanostoma* (Makino) Copel.].
 Note. One of the syntypes in MAK was found by Ito (1964 : 248). The lectotype in TI was designated by Iwatsuki (1985 : 546). Photograph of a syntype in TI was shown by Nakaike (1992 : 129).
- Vittaria fudzinoi* Makino in Bot. Mag. Tokyo 6 : (47). 1892. nom. nud.; ditto 12 : 28. 1898.
 Note. 2 syntypes in MAK were found by Ito (1964 : 249). Photograph of a syntype in TNS was shown by Nakaike (1992 : 714).
- Vittaria sessilis* (Yoshinaga) Makino in J. Jpn. Bot. 1 : 6. 1916. [= *Vittaria fudzinoi* Makino].
- Woodsia japonica* Makino in Bot. Mag. Tokyo 18 : 134. 1904. [= *Woodsia macrochlaena*

Mett. ex Kuhn].

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Woodsia tsurugisanensis Makino in Bot. Mag. Tokyo 28 : 177. 1914. [= *Woodsia hancockii* Baker].

Note. One of the syntypes in MAK was found by Ito (1974 : 362).

Woodsia yazawae Makino in Bot. Mag. Tokyo 18 : 132. 1904. "yazawai". [= *Woodsia glabella* R.Br. ex Richards.].

Woodwardia radicans var. *unigemmata* Makino in J. Jpn. Bot. 2 : 7. 1918. [= *Woodwardia unigemmata* (Makino) Nakai].

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中池敏之¹・山本 明² : 牧野富太郎博士によって発表されたシダ植物の学名

牧野富太郎博士がシダ植物に関して発表した新分類群と学名の変更(新組合せと新名)について纏めた。その結果は、90新分類群、1不要名、13裸名、51新組合せ、2新名であった。それらの内、1新属、67のエピセットが今日(Nakaike and Yamamoto 1997)受け入れられている。また、いくつかの種類ではタイプ標本や命名についての情報を示した。(1〒260-8682 千葉市青葉町 千葉県立中央博物館 ; 2〒242-0002 大和市つきみ野4-6, C-2-804)