

Generic Segregation of Some Sections and Subsections of the Genus *Hydrangea* (*Hydrangeaceae*)

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De Smet (2015) united all genera classified *Hydrangeae* by Engler (1930) into a single genus *Hydrangea*. These genera delimited by Engler are easily distinguished by their morphological features, and also their habitat and ecological preferences. To rescue the genera adopted by Engler we propose generic segregation of most of the sections and subsections of *Hydrangea* by Engler according to the tree by De Smet et al. (2015). Genus *Hortensia* Comm. ex A. L. Juss. applies to the species of sect. *Euhydrangea* subsect. *Petalanthae* of Engler, and is divided into three sections named *Hortensia*, *Chinenses*, and *Hirtae*. *Hydrangea involucrata* and *H. sikokiana* are classified into genus *Platycrater* Siebold & Zucc., *Hydrangea integrifolia* Hayata is transferred to genus *Cornidia* Ruiz & Pav., *H. petiolaris* Siebold & Zucc. to genus *Calypttranthe* (Maxim.) H. Ohba & S. Akiyama, and also *H. paniculata* and similar species to genus *Heteromalla* (Rehder) H. Ohba & S. Akiyama. The necessary combinations and new states are proposed. A new form of *Hortensia serrata*, named f. *plenidecuris* is proposed.

Key words: *Calypttranthe*, *Cornidia*, *Heteromalla*, *Hortensia*, *Hortensia serrata* f. *plenidecuris* (new name), *Hydrangea*, new combination, new state, *Platycrater*.

Recently De Smet et al. (2015) published a new (infra) generic classification, based on their vast analyses of plastid DNA, to alleviate polyphyly in the tribe *Hydrangeeae* (*Hydrangeaceae*). They united all genera of *Hydrangeeae* adopted by Engler (1930) into a single genus *Hydrangea*. The genera delimited by Engler, however, are easily distinguished by their own properties and are also distinct in their habitat and ecological preferences. Engler's system of *Hydrangeeae* has been widely accepted in national, regional and local floras (Pan et al. 2001, Ohba 2001), especially in

eastern Asia, where there is the greatest diversity, and also in horticulture and in traditional human culture.

To rescue the genera adopted by Engler (1930) from synonymy under *Hydrangea*, we propose generic segregation of most of the sections and subsections of *Hydrangea* proposed by De Smet et al. (2015). The principal basis of our treatment is their tree using 50% majority-rule consensus based on the combined plastid dataset with indels coded. Further synonyms of each taxon are shown in Ohba (2001) and Ohba and Akiyama (2013, 2014).

1. *Hortensia* Comm. ex A. L. Juss., Gen. Pl.: 237 (4 Aug. 1789).

Type: *Hortensia opuloides* Lam., Encycl. 3: 136 (19 Oct. 1789).

Japanese name: Ajisai-zoku.

a) Sect. *Hortensia*

Hydrangea subsect. *Macrophyllae* E. M. McClint. in J. Arn. Arbor. 37: 374 (1956).

Hydrangea sect. *Macrophyllae* (E. M. McClint.) Y. De Smet & Samain in Taxon 64: 751 (2015).

Japanese name: Ajisai-setsu.

Hortensia cuspidata (Thunb.) H. Ohba & S. Akiyama, **comb. nov.**

f. *cuspidata*.

Viburnum cuspidatum Thunb. in Murray, Syst. Veg. ed. 14: 295 (May–June 1784); Fl. Jap.: 125 (Aug. 1784).

Hydrangea serrata (Thunb.) Ser. var. *yesoensis* (Koidz.) H. Ohba f. *cuspidata* (Thunb.) Nakai, Siebold Hydrange. Kaisetsu: 14 (1938). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 91 (2001).

Japanese name: Hime-ajisai.

f. *yesoensis* (Koidz.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea japonica Siebold var. *rosalba* Van Houtte, Fl. Serres 16: 75, t. 1649–50 (1867). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 90 (2001).

Hydrangea yesoensis Koidz. in Bot. Mag. (Tokyo) 40: 347 (1926).

Hydrangea serrata (Thunb.) Ser. var. *yesoensis* (Koidz.) H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 90 (2001).

Hortensia macrophylla (Thunb.) H. Ohba & S. Akiyama, **comb. nov.**

f. *macrophylla*

Viburnum macrophyllum Thunb., Fl. Jap.: 125 (1784).

Hydrangea macrophylla (Thunb.) Ser. in

DC., Prodr. 4: 15 (1830). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 87 (2001).

f. *isobue* (H. Ohba & S. Akiyama) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea macrophylla (Thunb.) Ser. f. *isobue* H. Ohba & S. Akiyama in Bull. Natl. Mus. Nat. Sci., Ser. B, 40: 144 (2014).

f. *isonotaki* (H. Ohba & S. Akiyama) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea macrophylla (Thunb.) Ser. f. *isonotaki* H. Ohba & S. Akiyama in Bull. Natl. Mus. Nat. Sci., Ser. B, 40: 144 (2014).

f. *normalis* (E. H. Wilson) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea macrophylla (Thunb.) Ser. var. *normalis* E. H. Wilson in J. Arn. Arbor. 4: 234 (1923).

Hydrangea macrophylla (Thunb.) Ser. f. *normalis* (E. H. Wilson) H. Hara in J. Jap. Bot. 30: 277 (1955). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 88 (2001).

Hortensia serrata (Thunb.) H. Ohba & S. Akiyama, **comb. nov.**

var. *serrata*.

f. *serrata*.

Viburnum serratum Thunb., Fl. Jap.: 124 (1784).

Hydrangea serrata (Thunb.) Ser. in DC., Prodr. 4: 15 (1830). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 89 (2001).

f. *belladonna* (Kitam.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea serrata (Thunb.) Ser. f. *belladonna* Kitam. in Acta Phytotax. Geobot. 14: 86 (1951). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 90 (2001).

f. *plenidecuris* H. Ohba & S. Akiyama, **f. nov.**

Differs from the type with double-petaled

ornamental flowers.

Type: JAPAN. Tokyo. Hachiôji-shi, Naganuma Kôen, H. Ohba & K. Shiina s.n., 3 July 2015, (TI-holo; TNS-iso).

Japanese name: Yaezaki-yama-ajisai.

f. *prolifera* (Regel) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea stellata Siebold & Zucc. var. (β.) *prolifera* Regel in Gartenflora **15**: 291, t. 521 (1866). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 90 (2001).

var. *acuminata* (Siebold & Zucc.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea acuminata Siebold & Zucc., Fl. Jap. **1**: 110, t. 56, 57 I (1839). Ohba & Akiyama in Bull. Natl. Mus. Nat. Sci., Ser. B, **39**: 178 (2013).

var. *angustata* (Franch. & Sav.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea hortensis Sm. var. (γ.) *angustata* Franch. & Sav., Enum. Pl. Jap. **1**: 151 (1873).

Hydrangea serrata (Thunb.) Ser. var. *angustata* (Franch. & Sav.) H. Ohba in J. Jap. Bot. **64**: 325 (1989). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 90 (2001).

var. *minamitanii* (H. Ohba) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea serrata (Thunb.) Ser. var. *minamitanii* H. Ohba in J. Jap. Bot. **64**: 199 (1989).

var. *thunbergii* (H. Ohba & S. Akiyama) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea serrata (Thunb.) Ser. var. *thunbergii* H. Ohba & S. Akiyama in Bull. Natl. Mus. Nat. Sci., Ser. B, **39**: 179 (2013).

Hortensia japonica (Siebold) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea japonica Siebold in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.

14: 689 (1828).

Hydrangea serrata (Thunb.) Ser. var. *japonica* (Siebold) H. Ohba & S. Akiyama in Bull. Natl. Mus. Nat. Sci., Ser. B, **39**: 179 (2013).

Japanese name: Beni-gaku.

Hortensia japonica seems to be a hybrid between *H. cuspidata* (Thunb.) H. Ohba & S. Akiyama and *H. serrata* (Thunb.) H. Ohba & S. Akiyama.

b) Sect. *Chinenses* (Y. De Smet & Granados) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea sect. *Chinenses* Y. De Smet & Granados in Taxon **64**: 750 (2015).

Hydrangea sect. *Petalanthae* Maxim. in Mém. Acad. Imp. Sci. Saint Pétersbourg, ser. 7, **10**: 6 (1867), pro parte, nom. illeg.; C. F. Wei in Guihaia **14**: 105 (1994), pro parte.

Hydrangea subsect. *Petalanthae* (Maxim.) Rehder in Sargent, Pl. Wilson. **1**: 37 (1911), pro parte.

Japanese name: Kara-konterigi-setsu.

Hortensia chinensis (Maxim.) H. Ohba & S. Akiyama, **comb. nov.**

var. *chinensis*.

Hydrangea chinensis Maxim. in Mém. Acad. Imp. Sci. Saint Pétersbourg, ser. 7, **10**: 7 (1867). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 93 (2001).

var. *koidzumiana* (H. Ohba & S. Akiyama) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea chinensis Maxim. var. *koidzumiana* H. Ohba & S. Akiyama in H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 93 (2001).

Hydrangea yayeyamensis Koidz. in Bot. Mag. (Tokyo) **43**: 394 (1929), pro parte, excl. lectotypo.

Japanese name: Yaeyama-konterigi.

Hortensia kawagoeana (Koidz.) H. Ohba & S. Akiyama, **comb. nov.**

var. *kawagoeana*.

Hydrangea kawagoeana Koidz. in Bot. Mag.

(Tokyo) **32**: 138 (1918). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 93 (2001).

var. ***grosseserrata*** (Engl.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea grosseserrata Engl. in Pfl. fam. ed. 2, **18a**: 204 (1930). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 93 (2001).

Hortensia liukiensis (Nakai) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea liukiensis Nakai in Bot. Mag. (Tokyo) **25**: 63 (1911). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 91 (2001).

Hortensia luteovenosa (Koidz.) H. Ohba & S. Akiyama, **comb. nov.**

var. ***luteovenosa***

Hydrangea luteovenosa Koidz. in Bot. Mag. (Tokyo) **39**: 4 (1925). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 92 (2001).

var. ***yakusimensis*** (Masam.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea luteovenosa Koidz. var. *yakusimensis* Masam., Fl. Yakusima: 223 (1934). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 92 (2001).

Hortensia scandens (L. f.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea scandens (L. f.) Ser. in DC., Prodr. **4**: 15 (1830). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 92 (2001).

c) Sect. ***Hirtae*** (Y. De Smet & Granados) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea sect. *Hirtae* Y. De Smet & Granados in Taxon **64**: 750 (2015).

Japanese name: Ko-ajisai-setsu.

Hortensia hirta (Thunb.) H. Ohba & S. Akiyama, **comb. nov.**

Viburnum hirtum Thunb. in Murray, Syst. Veg. ed. 14: 295 (May–June 1784); Fl. Jap.: 124

(Aug. 1784).

Hydrangea hirta (Thunb.) Siebold & Zucc., Fl. Jap. **1**: 117, t. 62 (1839). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 91 (2001).

d) Intersectional hybrids

Hortensia* × *amagiana (Makino) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea amagiana Makino in J. Jap. Bot. **8**: 31(1932). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 94 (2001).

Hortensia* × *mizushimarum (H. Ohba) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea × *mizushimarum* H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 94 (2001).

2. ***Platycrater*** Siebold & Zucc., Fl. Jap. **1**: 64, t. 27 (1835); in Abh. Nath.-Phys. C. Königl. Bayer. Akad. Wiss. **4**(2): 192 (1845).

Hydrangea subsect. *Asperae* Rehder in Sargent, Pl. Wilson. **1**: 39 (1911). Type: *H. aspera* D. Don.

Hydrangea ser. *Asperae* (Rehder) H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 85 (2001).

Hydrangea sect. *Asperae* (Rehder) Y. De Smet & Samain in Taxon **64**: 746 (2015).

Type: *Platycrater arguta* Siebold & Zucc.

Platycrater involucrata (Siebold) H. Ohba & S. Akiyama, **comb. nov.**

var. ***involutrata***.

f. ***involutrata***.

Hydrangea involucrata Siebold in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. **14**: 691 (1828). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 86 (2001).

Japanese name: Tama-ajisai.

f. ***hortensis*** (Maxim.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea involucrata Siebold var. *hortensis* Maxim. in Mém. Acad. Imp. Sci. Saint Pétersbourg, Ser. 7. **10**: 10 (1867).

Hydrangea involucrata Siebold f. *hortensis* (Maxim.) Ohwi in Bull. Natl. Sci. Mus. Tokyo, no. 33: 74 (1953). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 86 (2001).

f. *leucantha* (Sugim.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea involucrata Siebold f. *leucantha* Sugim. in J. Geobot. (Kanazawa) **24**: 61 (1977). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 86 (2001).

f. *multiplex* (Nakai) H. Ohba & S. Akiyama, **stat. nov.**

Hydrangea involucrata Siebold var. *multiplex* Nakai in J. Jap. Bot. **25**: 130 (1950).

Hydrangea involucrata Siebold f. *multiplex* (Nakai) Okuyama in J. Jap. Bot. **30**: 44 (1955).

f. *plenissima* (Tuyama) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea involucrata Siebold f. *plenissima* Tuyama in J. Jap. Bot. **27**: 303 (1952).

f. *sterilis* (Hayashi) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea involucrata Siebold f. *sterilis* Hayashi in J. Jap. Bot. **31**: 138 (1956); Bull. Govt. For. Exp. Stat. no. 107: 27, t. 1; 24 (1958).

var. *idzuensis* (Hayashi) H. Ohba & S. Akiyama, **stat. nov.**

Hydrangea involucrata Siebold var. *idzuensis* Hayashi in J. Geobot. (Kanazawa) **11**: 117 (1963). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 86 (2001).

var. *tokarensis* (M. Hotta & T. Shiuchi) H. Ohba & S. Akiyama, **stat. nov.**

Hydrangea involucrata Siebold var. *tokarensis* M. Hotta & T. Shiuchi in J. Jpn. Bot. **71**: 184 (1996). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 86 (2001).

Platycrater sikokiana (Maxim.) H. Ohba &

S. Akiyama, **comb. nov.**

Hydrangea sikokiana Maxim. in Bull. Acad. Imp. Sci. Saint Pétersbourg **31**: 42 (1887). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 85 (2001).
Japanese name: Yahazu-ajisai.

3. *Cornidia* Ruiz & Pav., Prodr. :53 (1794).

Type: *Cornidia umbellata* Ruiz. & Pav., Syst. Veg.: 91 (1798).

Japanese name: Kusunoha-ajisai-zoku.

Cornidia integrifolia (Hayata) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea integrifolia Hayata in J. Coll. Sci. Imp. Univ. Tokyo **22**: 131 (1906).

4. *Calypttranthe* (Maxim.) H. Ohba & S. Akiyama, **stat. nov.**

Hydrangea sect. *Calypttranthe* Maxim. in Mém. Acad. Imp. Sci. Saint Pétersbourg, Ser. 7, **10**: 16 (1867).

Lectotype (De Smet et al. 2015): *Hydrangea scandens* Maxim. in Mém. Acad. Imp. Sci. Saint Pétersbourg, Ser. 7, **10**: 16 (1867), non (L. f.) Ser. (1830). This is a synonym of *Hydrangea petiolaris* Siebold & Zucc. not *H. anomala* D. Don according to De Smet et al. (2015).

Japanese name: Tsuru-ajisai-zoku.

Calypttranthe petiolaris (Siebold & Zucc.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea petiolaris Siebold & Zucc., Fl. Jap. **1**: 108 (1839). H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 85 (2001).

Japanese name: Tsuru-ajisai.

5. *Heteromalla* (Rehder) H. Ohba & S. Akiyama, **stat. nov.**

Hydrangea subsect. *Heteromallae* Rehder in Sargent, Pl. Wilson. **1**: 37 (1911).

Hydrangea sect. *Heteromalla* (Rehder) C. F. Wei in Guihaia **14**: 111 (1994).

Hydrangea ser. *Heteromalla* (Rehder) H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 87 (2001).

Type: *Heteromalla doniana* H. Ohba & S.

Akiyama, **nom. nov.** $\equiv$ *Hydrangea heteromalla* D. Don, Prodr. Fl. Nepal.: 211 (1825).

Japanese name: Nori-utsugi-zoku.

The epithet *Hydrangea heteromalla* becomes a tautonym and can not be used under the genus *Heteromalla*. A new name *Heteromalla doniana* is proposed. This species is close to *Heteromalla vestita* (Wall. ex Ser.) H. Ohba & S. Akiyama, **comb. nov.** [syn. *Hydrangea vestita* Wall. ex Ser. in DC., Prodr. 4: 15 (1830)].

Heteromalla paniculata (Siebold) H. Ohba & S. Akiyama, **comb. nov.**

f. *paniculata*.

Hydrangea paniculata Siebold in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 14: 691 (1828). H. Ohba in K. Iwats. & al., Fl. Jap. 2b: 87 (2001).

Japanese name: Nori-utsugi.

f. *debilis* (Nakai ex H. Hara) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea paniculata Siebold var. *debilis* Nakai ex H. Hara in Bot. Mag. (Tokyo) 49: 83 (1935).

f. *grandiflora* (Siebold ex Van Houtte) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea paniculata Siebold var. *grandiflora* Siebold ex Van Houtte in Fl. Serre. 16: 105 (1866).

f. *velutina* (Nakai) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea paniculata Siebold var. *velutina* Nakai in J. Jap. Bot. 16: 8 (1940).

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大場秀章^a, 秋山 忍^b: 旧アジサイ属の再分類と学名提唱

De Smet ら (2015) は、彼らの葉緑体領域の結合データから合意樹を作成し、これを基礎として Engler (1930) のアジサイ連 (*Hydrangeae*) に分類された全属を *Hydrangea* 一属に合一する新分類体系を提唱した。Engler がアジサイ連に分類した諸属は *Hydrangea* など数属を除き、いずれも 1 または少数の種からなり、固有な形態形質または形質の組合せによって他の属から明瞭に区分されるものである。そのため、この連の多様性が特に高い東アジアでは、国や地方レベルの植物誌をはじめ、園芸、伝統文化等において広く Engler 体系での諸属が用いられてきた経緯がある。

そこでこれらの諸属を De Smet らの合意樹に則して、属として認めるために De Smet らの合意樹で単系統群となるように、従来の *Hydrangea* を複数の属に区分する提案を行った。 *Hydrangea* (アメリカノリノキ属, 新

称) のタイプは北米産のアメリカノリノキ (*Hydrangea arborescens* L.) で、これに近縁なアジア産種はなく、ガクアジサイ (とその近縁種)、ガクウツギ (同様)、コアジサイは *Hortensia* (アジサイ属) に分類され、上記の 3 種はそれぞれ、アジサイ節、カラコンテリギ節 (新称)、コアジサイ節 (新称) を代表する。タマアジサイとヤハズアジサイはバイカアマチャ属 (*Platycrater*)、クスノハアジサイは *Cornidia* (クスノハアジサイ属, 新称)、ツルアジサイは *Calyptanthus* (ツルアジサイ属, 新称)、ノリウツギは *Heteromalla* (ノリウツギ属, 新称) にそれぞれ分類される。上記の提案で必要となる学名の変更を行った。

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