

# NOTES ON THE NOMENCLATURE OF NEOTROPICAL CAPPARACEAE: AN ANSWER TO *GLOBAL FLORA*

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**Abstract.** The 90 new combinations on Neotropical Capparaceae published in *The Global Flora* (Plant Gateway, 2018) are here discussed and clarified. On the basis of morphologic and molecular studies, the name of *Morisonia* L. cannot be applied in a broad sense for all Neotropical Capparaceae. Therefore, the names proposed by Christenhusz and Byng are placed in synonymy here.

**Keywords:** Capparaceae, Neotropics, nomenclature

*The Global Flora*, Vol. 4, published by Plant Gateway (2018), provides 3,286 new combinations, 90 belonging to Neotropical Capparaceae discussed in this note. All are regarded here as inconsistent, erratic, and without nomenclatural value.

Plant Gateway (2018) presents an incomplete list of Capparaceae in which the great morphological diversity of the former *Capparis* s.l. from the New World has been dramatically reduced to a single genus, *Morisonia* L., without any discussion about morphology and without providing a new generic circumscription of the proposed *Morisonia* sensu Christenhusz and Byng (Plant Gateway, 2018).

Regarding morphology, *Morisonia* is characterized by the calyx totally fused around the corolla in bud, at anthesis rupturing more or less irregularly into 2–4 sepaloid segments, and the filaments adnate at base to form an ascending “skirt,” which eventually falls off as a unit, leaving an undulating scar inserted on, and surrounding, the short gynophore. As none of the remaining species of Neotropical Capparaceae present those characters, on the basis of morphology the use of *Morisonia* as proposed by Christenhusz and Byng is impossible (Plant Gateway, 2018). Thus, *Morisonia* represents a highly polymorphic genus, composed of species that exhibit “a great diversity of types of calyces and corollas, with different aestivation, several types of nectaries, fruits and embryos” (Cornejo and Iltis, 2008c) and, therefore, an unnatural and hard to understand genus. Accepting *Morisonia*, we would go back—without solving anything—to the same old problem of a single generic name as was *Capparis* s.l. in the Neotropics. The morphological characters of *Morisonia* provided here make evident that the study of the types and original descriptions of those names and of the morphology of the species of Capparaceae were ignored by Christenhusz and Byng (Plant Gateway, 2018).

Furthermore, the introductory paragraph of Capparaceae (Plant Gateway, 2018: 139) claims that “many of these genera will still not be monophyletic,” citing only Tamboli et al. (2018). Contradictorily, Tamboli et al. (2018), states: “Efforts for renaming the New World *Capparis* taxa have been done by Cornejo and Iltis (2006, 2008a,b,c,

2010; Iltis and Cornejo 2007, 2011), and their efforts are greatly supported by previous phylogenetic analysis (Cardinal-McTeague et al., 2016) and in this analysis.” The only exception was the barely polyphyletic condition of *Capparidastrum* (Cardinal-McTeague et al., 2016; not mentioned in Tamboli et al., 2018), which was subsequently solved with the establishment of *Neocapparis* (Cornejo, 2017), providing stable, natural, and morphologically and molecularly well-defined genera of Capparaceae in the New World.

Another erroneous statement written in the same introductory paragraph (Plant Gateway, 2018: 139) was that “not all taxa have been transferred from *Capparis*.” However, what they have done is transfer names from some synonyms that have no nomenclatural value, generating more confusion and increasing superfluous names as new synonyms.

The nomenclatural proposal on Neotropical Capparaceae by Christenhusz and Byng presented in *The Global Flora*, Vol. 4 (Plant Gateway, 2018), has neither morphological nor molecular support. Therefore, none of those combinations have nomenclatural value and they are relegated to synonymy herein.

**Anisocapparis speciosa** (Griseb.) Cornejo & Iltis, J. Bot. Res. Inst. Texas 2(1): 65. 2008.

Basionym: *Capparis speciosa* Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 18. 1879.

Synonyms: *Capparis speciosa* Griseb. var. *normalis* Kuntze, Rev. Gen. Pl. 3: 7. 1898. *Morisonia speciosa* (Griseb.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Atamisquea emarginata** Miers ex Hook. & Arn., Bot. Misc. 3(8): 143. 1833.

Synonym: *Morisonia atamisquea* (Kuntze) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

**Belencita nemorosa** (Jacq.) Dugand, Caldasia 2 (9): 371. 1944.

Basionym: *Capparis nemorosa* Jacq., Enum. Syst. Plant 24. 1760.

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Synonyms: *Morisonia nemorosa* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

*Belencita hagenii* Karst., en C. Koch, Berliner Allg. Gartenzeitung 25(4): 25, t. 1. 1857. *Morisonia hagenii* (Karst.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

***Calanthe pulcherrima*** (Jacq.) Miers, Proc. Roy. Hort. Soc. London 4: 161. 1864.

Basionym: *Capparis pulcherrima* Jacq., Enum. Syst. Pl. 24: 1760.

Synonyms: *Linnaeobreyntia pulcherrima* (Jacq.) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia pulcherrima* (Jacq.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

***Calanthe stenosepala*** (Urb.) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 119. 2008.

Basionym: *Capparis stenosepala* Urb., Symb. Antill. 5: 529. 1908.

Synonym: *Morisonia stenosepala* (Urb.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

***Caphexandra heydeana*** (Donn. Sm.) Iltis & Cornejo, Harvard Pap. Bot. 16(1): 67. 2011.

Basionym: *Capparis heydeana* Donn. Sm., Bot. Gaz. 18(6): 197. 1893.

Synonym: *Morisonia heydeana* (Donn. Sm.) Christenh. & Bing, The Global Flora 4: 141 (2018), *syn. nov.*

***Capparicordis crotonoides*** (Kunth) Iltis & Cornejo, Brittonia 59: 248. 2007.

Basionym: *Capparis crotonoides* Kunth, Nov. Gen. et Sp. 5: 95, tab. 437. 1821.

Synonyms: *Quadrella crotonoides* (Kunth) J. Presl, in Berchtold & J. Presl, Pfl. Rostlin 2: 260. 1825. *Colicodendron crotonoides* (Kunth) Hutch., Gen. Fl. Plants 2: 309. 1967. *Morisonia crotonoides* (Kunth) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

***Capparicordis tweediana*** (Eichler) Iltis & Cornejo, Brittonia 59(3): 251. 2007.

Basionym: *Capparis tweediana* Eichler in Martius Fl. Bras. 13(1): 273. 1865.

Synonyms: *Colicodendron tweedianum* (Eichler) Hutch., Gen. Fl. Pl. 2: 309. 1967. *Morisonia tweediana* (Eichler) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

***Capparicordis yunckeri*** (Standl.) Iltis & X. Cornejo, Brittonia 59(3): 253. 2007.

Basionym: *Capparis yunckeri* Standl., Field Mus. Nat. Hist., Bot. Ser. 9(4): 291. 1940.

Synonym: *Morisonia yunckeri* (Standl.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

***Capparidastrum bonifazianum*** (Cornejo & Iltis) Cornejo & Iltis, Harvard Pap. Bot. 13: 233. 2008.

Basionym: *Capparis bonifaziana* Cornejo & Iltis, Novon 15: 397. 2005.

Synonym: *Morisonia bonifaziana* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

***Capparidastrum coimbranum*** (Cornejo & Iltis) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 233. 2008.

Basionym: *Capparis coimbrana* Cornejo & Iltis, Brittonia 57: 156. 2005.

Synonym: *Morisonia coimbrana* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

***Capparidastrum cuatrecasanum*** (Dugand) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 233. 2008.

Basionym: *Capparis cuatrecasana* Dugand, Caldasia 1: 41. 1941.

Synonym: *Morisonia cuatrecasana* (Dugand) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

***Capparidastrum discolor*** (Donn. Sm.) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 233. 2008.

Basionym: *Capparis discolor* Donn. Sm., Bot. Gazette 24: 389. 1897.

Synonym: *Morisonia discolor* (Donn. Sm.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

***Capparidastrum frondosum*** (Jacq.) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 232. 2008.

Basionym: *Capparis frondosa* Jacq., Enum. Syst. Pl. 24: 1760.

Synonyms: *Pleuteron frondosa* (Jacq.) Raf., Sylva Tellur. 109. 1838. *Uterveria frondosa* (Jacq.) Bertol., Horti Bonon. Pl. Nov. 2: 8. 1839. *Morisonia frondosa* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

*Capparis elegans* Mart., Fl. 22 (Beibl. 1): 24. 1839. *Capparidastrum elegans* (Mart.) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia elegans* (Mart.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

***Capparidastrum grandiflorum*** Cornejo & Iltis, Harvard Pap. Bot. 15(1): 155. 2010.

Synonym: *Morisonia grandiflora* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

***Capparidastrum humile*** (Hassl.) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 234. 2008.

Basionym: *Capparis humilis* Hassl., Repert. Spec. Nov. Regni Veg. 12: 252. 1913.

Synonym: *Morisonia humilis* (Hassl.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

- Capparidastrum macrophyllum** (Kunth) Hutch., Gen. Fl. Pl. 2: 310. 1967.  
Basionym: *Capparis macrophylla* Kunth, Nov. Gen. Sp. 5: 91. 1821.  
Synonym: *Morisonia macrophylla* (Kunth) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Capparidastrum megalospermum** Cornejo & Iltis, Harvard Pap. Bot. 15: 159. 2010.  
Synonym: *Morisonia megalosperma* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Capparidastrum mollicellum** (Standl.) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 234. 2008.  
Basionym: *Capparis mollicella* Standl., Proc. Biol. Soc. Wash. 37: 44. 1924.  
Synonym: *Morisonia mollicella* (Standl.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Capparidastrum osmanthum** (Diels) Cornejo & Iltis, Harvard Pap. Bot. 13: 234. 2008.  
Basionym: *Capparis osmantha* Diels, Notzbl. 14: 332. 1939.  
Synonym: *Morisonia osmantha* (Diels) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Capparidastrum petiolare** (Kunth) Hutch., Gen. Fl. Plants 2: 310. 1967.  
Basionym: *Capparis petiolaris* Kunth, Nov. Gen. Sp. 5: 91. 1821.  
Synonym: *Morisonia petiolaris* (Kunth) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Capparidastrum quiriguense** (Standl.) Cornejo & Iltis, Harvard Pap. Bot. 13(2): 234. 2008.  
Basionym: *Capparis quiriguensis* Standl. Proc. Biol. Soc. Wash. 37: 52. 1924.  
Synonym: *Morisonia quiriguensis* (Standl.), Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Capparidastrum sola** (J. F. Macbr.) Cornejo & Iltis, Harvard Pap. Bot. 11: 17. 2006.  
Basionym: *Capparis sola* J. F. Macbr., Candollea 5: 359. 1934.  
Synonym: *Morisonia sola* (J. F. Macbr.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Capparidastrum sprucei** (Eichl.) Hutch., Gen. Fl. Pl. 2: 310. 1967.  
Basionym: *Capparis sprucei* Eichl. in Mart., Fl. Bras. 13(1): 281. 1865.  
Synonym: *Morisonia sprucei* (Eichl.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Capparidastrum tafallanum** Cornejo, Iltis & Cerón, Harvard Pap. Bot. 19(2): 189. 2014.  
Synonym: *Morisonia tafallana* (Cornejo, Iltis & Cerón) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Capparidastrum tuxtense** Cornejo & Iltis, Brittonia 62(2): 120. 2010.  
Synonym: *Morisonia tuxtense* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Colicodendron bahianum** Cornejo & Iltis, J. Bot. Res. Inst. Texas 2(1): 76. 2008.  
Synonym: *Morisonia bahiana* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Colicodendron martianum** Cornejo, Harvard Pap. Bot. 15(1): 103. 2010.  
Synonym: *Morisonia martiana* (Cornejo) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Colicodendron scabridum** (Kunth) Seem., Bot. Voy. Herald, 78. 1852.  
Basionym: *Capparis scabrida* Kunth, Nov. Gen. Sp. 5: 95. 1821.  
Synonyms: *Octanema scabrida* (Kunth) Raf., Sylva Tellur. 112. 1838. *Destrugesia scabrida* (Kunth) Gaudich., Voy. Bonite, Bot. 4: 38. 1866. *Colicodendron scabridum* (Kunth) Hutch., Gen. Fl. Pl. 2: 309. 1967, *hom. illeg.* *Morisonia scabrida* (Kunth) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Colicodendron valerabellum** Iltis, T. Ruiz & G.S. Bunting, J. Bot. Res. Inst. Texas 2(1): 82. 2008.  
Synonym: *Morisonia valerabella* (Iltis, T. Ruiz & G.S. Bunting) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Colicodendron yco** Mart., Flora 22, Bleibl. 1: 25. 1839.  
Synonyms: *Capparis yco* (Mart.) Eichler in Martius, Fl. Bras. 13: 272. 1865. *Morisonia yco* (Mart.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla amplissima** (Lam.) Iltis & Cornejo, Rodriguésia 61: 154. 2010.  
Basionym: *Capparis amplissima* Lam., Encycl. 1: 607. 1783 (1785).  
Synonym: *Morisonia amplissima* (Lam.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Cynophalla declinata** (Vell.) Iltis & Cornejo, Harvard Pap. Bot. 13(1): 118. 2008.  
Basionym: *Capparis declinata* Vell., Fl. Flum. 5: 230, tab. 3. "1827" [1832, effective date of publication].  
Synonym: *Morisonia declinata* (Vell.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

- Cynophalla didymobotrys** (Ruiz & Pav. ex DC.) Cornejo & Iltis, Harvard Pap. Bot. 11: 17. 2006.  
 Basionym: *Capparis didymobotrys* Ruiz & Pav. ex DC., Prodr. Syst. Nat. Reg. Veg. 1: 253. 1824.  
 Synonyms: *Capparis didymobotrys* Ruiz & Pav. ex E. A. López, Ann. Inst. Bot. A. J. Cavanilles 16: 380, tab. 429b. 1958, *nom. illeg.* *Morisonia didymobotrys* (Ruiz & Pav. ex DC.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Cynophalla ecuadorica** (Iltis) Iltis & Cornejo, Harvard Pap. Bot. 13: 118. 2008.  
 Basionym: *Capparis ecuadorica* Iltis, Selbyana 2: 303. 1978.  
 Synonym: *Morisonia ecuadorica* (Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Cynophalla hastata** (Jacq.) J. Presl, Přir. Rostlin 2: 275. 1825.  
 Basionym: *Capparis hastata* Jacq., Enum. Syst. Pl. 23. 1760.  
 Synonyms: *Pleuteron hastata* (Jacq.) Raf., Sylva Tellur. 109. 1838. *Cynophalla flexuosa* f. *hastata* (Jacq.) Dugand, Caldasia 2: 52. 1941. *Morisonia hastata* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Cynophalla heterophylla** (Ruiz & Pav. ex DC.) Iltis & Cornejo, Harvard Pap. Bot. 13: 118. 2008.  
 Basionym: *Capparis heterophylla* Ruiz & Pav. ex DC., Prodr. 1: 250. 1824.  
 Synonyms: *Capparis heterophylla* Ruiz & Pav. ex E. A. López, Ann. Inst. Bot. A. J. Cavanilles 16: 381. 1958, *nom. illeg.* *Morisonia heterophylla* (Ruiz & Pav. ex DC.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Cynophalla linearis** (Jacq.) J. Presl, Přir. Rostlin 2: 275. 1825.  
 Basionym: *Capparis linearis* Jacq., Enum. Syst. Pl. 24. 1760.  
 Synonyms: *Pleuteron linearis* (Jacq.) Raf., Sylva Tellur. 109. 1838. *Uterveria linearis* (Jacq.) Bertol., Horti Bonon. Pl. Nov. 2: 10. 1839. *Morisonia linearis* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Cynophalla mattogrossensis** (Pilger) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 118. 2008.  
 Basionym: *Capparis mattogrossensis* Pilger, Revista Mus. Paul. Univ. Sao Paulo 13: 1250. 1923.  
 Synonym: *Morisonia mattogrossensis* (Pilger) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Cynophalla mollis** (Kunth) J. Presl, Přir. Rostlin 2: 275. 1825.  
 Basionym: *Capparis mollis* Kunth, Nov. Gen. et Sp. Pl. 5: 89. 1821.  
 Synonyms: *Capparis guayaquilensis* Kunth, Nov. Gen. Sp. Pl. 5: 89. 1821, *syn. nov.* *Cynophalla guayaquilensis* (Kunth) Iltis, Harvard Pap. Bot. 13: 118. 2008, *syn. nov.* *Morisonia guayaquilensis* (Kunth) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Cynophalla polyantha** (Tr. & Pl.) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 118. 2008.  
 Basionym: *Capparis polyantha* Tr. & Pl., Ann. Sci. Nat. Bot., sér. 6, 17: 76. 1862.  
 Synonym: *Morisonia polyantha* (Tr. & Pl.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla retusa** (Griseb.) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 119. 2008.  
 Basionym: *Capparis retusa* Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 18. 1879.  
 Synonyms: *Capparis cynophallophora* var. *retusa* (Griseb.) Kuntze, Rev. Gen. Plant. 2: 7. 1898. *Morisonia retusa* (Griseb.), Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla sclerophylla** (Iltis & Cornejo) Iltis & Cornejo, Harvard Pap. Bot. 11: 17. 2006.  
 Basionym: *Capparis sclerophylla* Iltis & Cornejo, Novon 15: 429. 2005.  
 Synonym: *Morisonia sclerophylla* (Iltis & Cornejo) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla sessilis** (Banks ex DC.) J. Presl, Přir. Rostlin 2: 275. 1825.  
 Basionym: *Capparis sessilis* Banks ex DC., Prodr. 1: 249. 1824.  
 Synonym: *Morisonia sessilis* (Banks ex DC.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla tarapotensis** (Eichler) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 119. 2008.  
 Basionym: *Capparis tarapotensis* Eichler in Mart., Fl. Bras. 13, pt.1: 284. 1865.  
 Synonym: *Morisonia tarapotensis* (Eichler) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Cynophalla verrucosa** (Jacq.) J. Presl, Přir. Rostlin 2: 275. 1825.  
 Basionym: *Capparis verrucosa* Jacq., Enum. Syst. Pl. 23. 1760.  
 Synonyms: *Uterveria verrucosa* (Jacq.) Bertol., Pl. Nov. Hort. Bonon. 2: 8. 1839. *Morisonia verrucosa* (Jacq.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

- Hispaniolanthus dolichopodus** (Helwig) Cornejo & Iltis, Harvard Pap. Bot. 14(1): 12. 2009.  
Basionym: *Capparis dolichopoda* Helwig, Arkiv Bot. 22A(10): 11. 1929.  
Synonym: *Morisonia dolichopoda* (Helwig) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Mesocapparis lineata** (Dombey ex Persoon) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 115. 2008.  
Basionym: *Capparis lineata* Dombey ex Persoon, Ench. 2: 60. 1807.  
Synonym: *Morisonia lineata* (Dombey ex Persoon) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Monilicarpa brasiliiana** (Banks ex DC.), Cornejo & Iltis, J. Bot. Res. Inst. Texas 2(1): 71. 2008.  
Basionym: *Capparis brasiliiana* Banks ex DC., Prodr. 1: 249. 1824.  
Synonyms: *Capparidastrum brasilianum* (Banks ex DC.) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia brasiliiana* (Banks ex DC.), Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Monilicarpa tenuisiliqua** (Jacq.) Cornejo & Iltis, J. Bot. Res. Inst. Texas 2(1): 70. 2008.  
Basionym: *Capparis tenuisiliqua* Jacq., Enum. Pl. Carib. 24. 1760.  
Synonyms: *Pleuteron tenuis* Raf., Sylva Tellur. 109. 1838. *Uterveria tenuisiliqua* (Jacq.) Bertol., Pl. Nov. Hort. Bonon. 2: 8. 1839. *Capparidastrum tenuisiliquum* (Jacq.) Hutch., Genera Flowering Pl 2: 310. 1967. *Morisonia tenuisiliqua* (Jacq.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Neocalyptrocalyx longifolium** (Mart.) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 111. 2008.  
Basionym: *Colicodendron longifolium* Mart., Flora 22, Bleib. 1(2): 26. 1839.  
Synonym: *Morisonia longifolia* (Mart.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Neocapparis pachaca** (Kunth) Cornejo, Harvard Pap. Bot. 22(2): 115. 2017.  
Basionym: *Capparis pachaca* Kunth, Nov. Gen. et Sp. Pl. 5: 93. 1821.  
Synonym: *Morisonia pachaca* (Kunth) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Neocapparis quina** (J. F. Macbr.) Cornejo, Harvard Pap. Bot. 22: 118. 2017.  
Basionym: *Capparis quina* J. F. Macbr., Candollea 5: 357. 1934.  
Synonyms: *Capparidastrum quina* (J. F. Macbr.) Cornejo & Iltis, Harvard Pap. Bot. 13: 235. 2008. *Morisonia quina* (J. F. Macbr.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Preslianthus detonsus** (Triana & Planch.) Iltis & Cornejo, Harvard Pap. Bot. 16: 70. 2011.  
Basionym: *Capparis detonsa* Triana & Planch., Ann. Sci. Nat. Bot. ser. 4, 17: 80. 1862.  
Synonym: *Morisonia detonsa* (Triana & Planch.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Preslianthus panamensis** (Iltis) Iltis, Harvard Pap. Bot. 18(2): 147. 2013.  
Basionym: *Capparis panamensis* Iltis, Ann. Missouri Bot. Gard. 68: 681. 1981 [1982].  
Synonym: *Morisonia panamensis* (Iltis) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*
- Preslianthus pittieri** (Standl.) Iltis & Cornejo, Harvard Pap. Bot. 16: 70. 2011.  
Basionym: *Capparis pittieri* Standl., J. Wash. Acad. Sci. 17(10): 253. 1927.  
Synonym: *Morisonia pittieri* (Standl.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*
- Quadrella alaineana** Cornejo & Iltis, J. Bot. Res. Inst. Texas 4: 75. 2010.  
Synonym: *Morisonia alaineana* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Quadrella angustifolia** (Kunth) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 129. 2010.  
Basionym: *Capparis angustifolia* Kunth, Nov. Gen. Sp. Pl. 5: 46 t. 438. 1821.  
Synonyms: *Octanema angustifolia* (Kunth) Raf., Sylva Tellur. 112. 1838. *Colicodendron angustifolium* (Kunth) Hutch., Gen. Fl. Pl. 2: 309. 1967. *Morisonia angustifolia* (Kunth) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Quadrella antonensis** (Woodson) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 125. 2010.  
Basionym: *Capparis antonensis* Woodson, Ann. Missouri Bot. Gard. 35: 90. 1948.  
Synonym: *Morisonia antonensis* (Woodson) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*
- Quadrella asperifolia** (K. Presl) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 126. 2010.  
Basionym: *Capparis asperifolia* K. Presl, Reliq. Haenk. 2: 86. 1835.  
Synonyms: *Linnaeobreynia asperifolia* (K. Presl) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia asperifolia* (K. Presl) Christenh. & Bing, The Global Flora 4: 139 (2018), *syn. nov.*
- Quadrella calciphila** (Standl. & Steyerl.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 126. 2010.  
Basionym: *Capparis calciphila* Standl. & Steyerl., Field. Mus. Bot. 23: 158. 1944.  
Synonym: *Morisonia calciphila* (Standl. & Steyerl.) Christenh. & Bing, The Global Flora 4: 139. 2018, *syn. nov.*

- Quadrella cynophallophora** (L.) Hutch., Gen. Fl. Pl. 2: 309. 1967.  
 Basionym: *Capparis cynophallophora* L., Sp. Pl. ed. 1, 504. 1753; ed. 2: 721. 1762.  
 Synonym: *Morisonia cynophallophora* (L.) Christenh. & Bing, The Global Flora 4: 139. 2018, **syn. nov. non** *Capparis cynophallophora* Jacq., Select. Stirp. Amer. t. 98. 1763, which is *C. flexuosa* (L.) L., = *Cynophalla flexuosa* (L.) J. Presl, 1825.
- Quadrella domingensis** (Spreng. ex DC.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 129. 2010.  
 Basionym: *Capparis domingensis* Spreng. ex DC. Prodr. 1: 253. 1824.  
 Synonym: *Morisonia domingensis* (Spreng. ex DC.) Christenh. & Bing, The Global Flora 4: 139. 2018, **syn. nov.**
- Quadrella dressleri** Cornejo & Iltis, J. Bot. Res. Inst. Texas 4: 77. 2010.  
 Synonym: *Morisonia dressleri* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 139. 2018, **syn. nov.**
- Quadrella ferruginea** (L.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 130. 2010.  
 Basionym: *Capparis ferruginea* L., Syst. Nat., ed. 10, 1071. 1759.  
 Synonyms: *Linnaeobreyntia ferruginea* (L.) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia ferruginea* (L.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella filipes** (Donn. Sm.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 126. 2010.  
 Basionym: *Capparis filipes* Donn. Sm., Bot. Gaz. 23: 2. 1897.  
 Synonym: *Morisonia filipes* (Donn. Sm.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella gonaievensis** (Helwig) Hutch., Gen. Fl. Pl. 2: 308. 1967.  
 Basionym: *Capparis gonaievensis* Helwig, Ark. Bot. 22A: 10. 1929.  
 Synonym: *Morisonia gonaievensis* (Helwig) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella incana** (Kunth) Iltis & Cornejo, Novon 17: 452. 2007.  
 Basionym: *Capparis incana* Kunth, Nov. Gen. & Sp. 5: 94. 1821.  
 Synonyms: *Octanema incana* (Kunth) Raf., Sylva Tellur. 112. 1838. *Linnaeobreyntia incana* (Kunth) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia incana* (Kunth) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella indica** (L.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 126. 2010.  
 Basionym: *Breyntia indica* L., Sp. Pl. 1:503. 1753.  
 Synonyms: *Capparis breynia* L. Syst. Pl. ed. 10:1071. 1759, **nom. illeg.** *Quadrella breynia* (L.) J. Presl, Přir. Rostlin 2: 261. 1825. *Pleuteron breynia* (L.) Raf., Sylva Tellur. 109. 1838. *Uterveria breynia* (L.) Bertoloni, Pl. nov. H. Bonon. 2: 10. 1839. *Morisonia breynia* (L.) Christenh. & Bing, The Global Flora 4: 139. 2018, **syn. nov.** *Capparis indica* (L.) Druce, Bot. Exch. Club Soc. Brit. Isles 3: 415. 1914. *Linnaeobreyntia indica* (L.) Hutch., Gen. Fl. Pl. 2: 311. 1967, **nom. illeg.**
- Quadrella isthmensis** (Eichler) Hutch., Gen. Fl. Pl. 2: 308. 1967.  
 Basionym: *Capparis isthmensis* Eichler in Martius, Fl. Bras. 13: 269. 1865.  
 Synonym: *Morisonia isthmensis* (Eichler) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella jamaicensis** (Jacq.) J. Presl, Přir. Rostlin 2: 261. 1825.  
 Basionym: *Capparis jamaicensis* Jacq., Enum. Pl. Carib. 23. 1760.  
 Synonym: *Morisonia jamaicensis* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella lindeniana** Cornejo & Iltis, J. Bot. Res. Inst. Texas 4(1): 83. 2010.  
 Synonym: *Morisonia lindeniana* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella lundellii** (Standl.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 127. 2010.  
 Basionym: *Capparis lundellii* Standl., Carnegie Inst. Wash. Publ. 461: 57. 1935.  
 Synonym: *Morisonia lundellii* (Standl.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella mirifica** (Standl.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 127. 2010.  
 Basionym: *Capparis mirifica* Standl. in Woodson & Schery, Ann. Missouri Bot. Gard. 27: 311. 1940.  
 Synonym: *Morisonia mirifica* (Standl.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella morenoi** Cornejo & Iltis, J. Bot. Res. Inst. Texas 4: 86. 2010.  
 Synonym: *Morisonia morenoi* (Cornejo & Iltis) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**
- Quadrella odoratissima** (Jacq.) Hutch., Gen. Fl. Pl. 2: 308. 1967.  
 Basionym: *Capparis odoratissima* Jacq., Hort. Schoenbr. 1: 57, tab. 110. 1797.  
 Synonym: *Morisonia odoratissima* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, **syn. nov.**

**Quadrella pringlei** (Briquet) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 127. 2010.

Basionym: *Capparis pringlei* Briquet, Ann. Conserv. & Jard. Bot. Genève 17: 390. 1914.

Synonyms: *Linnaeobreyenia pringlei* (Briquet) Hutch., Gen. Fl. Pl. 2: 310. 1967. *Morisonia pringlei* (Briquet) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Quadrella quintanarooensis** Iltis & Cornejo, J. Bot. Res. Inst. Texas 4: 104. 2010.

Synonym: *Morisonia quintanarooensis* (Iltis & Cornejo), Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Quadrella siliquosa** (L.) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4: 98. 2010.

Basionym: *Capparis siliquosa* L., Syst. Nat. ed. 10(2): 1071. 1759, *p.p.*

Synonyms: *Pleuteron siliquosa* (L.) Raf., Sylva Tellur. 109. 1838. *Morisonia siliquosa* (L.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Quadrella singularis** (R. Rankin) Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 131. 2010. Basionym: *Capparis singularis* R. Rankin, Willdenowia 34: 263. 2004.

Synonym: *Morisonia singularis* (R. Rankin) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Quadrella steyermarkii** (Standl.) Iltis & Cornejo, Iltis & Cornejo, J. Bot. Res. Inst. Texas 4(1): 128. 2010.

Basionym: *Capparis steyermarkii* Standl., Publ. Field Mus. Nat. Hist., Bot. Ser. 22: 140. 1940.

Synonym: *Morisonia steyermarkii* (Standl.) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Sarcotoximum salicifolium** (Griseb.) Cornejo & Iltis, Harvard Pap. Bot. 13(1): 107. 2008.

Basionym: *Capparis salicifolia* Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 17. 1879.

Synonyms: *Colicodendron salicifolium* (Griseb.) Hutch., Gen. Fl. Pl. 2: 309. 1967. *Morisonia salicifolia* (Griseb.), Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Steriphoma paradoxum** subsp. **paradoxum** (Jacq.) Endl., Flora 15(2): 396. 1832.

Basionym: *Capparis paradoxa* Jacq., Pl. Hort. Schoenbr. 1: 58, tab. 111. 1797.

Synonyms: *Morisonia paradoxa* (Jacq.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

*Stephania elliptica* DC., Prodr. 1: 253. 1824, *syn. nov.*

*Steriphoma ellipticum* (DC.) Spreng., Syst. Veg. ed. 16, 139. 1827, *syn. nov.* *Morisonia stephania* Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Steriphoma paradoxum** subsp. **macranthum** (Standl.) Cornejo, Harvard Pap. Bot. 18(2): 147. 2013.

Basionym: *Steriphoma macranthum* Standl., Contr. US Nat. Herb. 20(6): 183. 1919.

Synonym: *Morisonia macrantha* (Standl.) Christenh. & Bing, The Global Flora 4: 141. 2018, *syn. nov.*

**Steriphoma peruvianum** Spruce ex Eichler, Fl. Bras. 13(1): 267. 1865.

Synonym: *Morisonia peruviana* (Spruce ex Eichler) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

**Steriphoma urbanii** Eggers, Bot. Centralblatt 73: 67, 69 (by error 51). 1868.

Synonym: *Morisonia urbanii* (Eggers) Christenh. & Bing, The Global Flora 4: 142. 2018, *syn. nov.*

#### LITERATURE CITED

- CARDINAL-McTEAGUE, W. M., K. J. SYTSMA, AND J. C. HALL. 2016. Biogeography and diversification of Brassicales: A 103 million year tale. *Molec. Phylogen. Evol.* 99: 204–224. doi:10.1016/j.ympev.2016.02.021
- CORNEJO, X. 2017. *Neocapparis*: generic status and new name for *Capparidastrum* subgenus *Pachycarpum* (Capparaceae). *Harvard Pap. Bot.* 22(2): 113–119.
- AND H. H. ILTIS. 2006. New combinations in Capparaceae *sensu stricto* for flora of Ecuador. *Harvard Pap. Bot.* 11: 17–18.
- AND ———. 2008a. *Anisocapparis* y *Monilicarpa*: dos nuevos géneros de Capparaceae de América del Sur. *J. Bot. Res. Inst. Texas* 2: 61–74.
- AND ———. 2008b. New combinations in South American Capparaceae. *Harvard Pap. Bot.* 13: 117–120.
- AND ———. 2008c. The reinstatement of *Capparidastrum* (Capparaceae). *Harvard Pap. Bot.* 13: 229–236. doi:10.3100/1043-4534-13.2.229
- AND ———. 2010. Nota Científica/Short Communication: Lectotypification and a new combination in *Cynophalla* (Capparaceae). *Harvard Pap. Bot.* 61: 153–155.
- ILTIS, H. H. AND X. CORNEJO. 2007. Studies in the Capparaceae XXX: *Capparicordis*, a new genus from the Neotropics. *Brittonia* 59: 245–254. doi:10.1663/0007-196X(2007)59[245:SITECXC]2.0.CO;2
- . 2011. Two new genera and three new combinations in Neotropical Capparaceae. *Harvard Pap. Bot.* 16: 65–75. doi:10.3100/025.016.0110
- PLANT GATEWAY. 2018. *A Practical Flora to Vascular Plant Species of the World*. Vol. 4 of *The Global Flora*. Special ed., GLOVAP, Nomenclature, Part 1. Bradford, United Kingdom.
- TAMBOLI, A. S., P. B. YADAV, A. A. GOTHE, S. R. YADAV, AND S. P. GOVINDWAR. 2018. Molecular phylogeny and genetic diversity of the genus *Capparis* (Capparaceae) based on plastid DNA sequences and ISSR markers. *Plant Syst. Evol.* 304: 205–217.