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Validation of New Combinations of Three Genera in the Tribe Areae

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Ohi-Toma et al. (2010) proposed a revision of the Areae, wherein *Typhonium* s. l. is divided into four genera based on molecular phylogeny and morphology. In it, *Typhonium* sections *Diversifolia* Sriboonma et J. Murata, *Pedata* Sriboonma et J. Murata, and *Hirsuta* Sriboonma et J. Murata were transferred to a generic rank and three new genera were described as new combinations according to ICBN Art 20.2. However, these names are invalid according to ICBN Art. 33.4 note 1 because pagination of whole publication was cited for the replaced name, not merely a page reference to the protologue, as required. The new combinations are made valid here.

Diversiarum J. Murata & Ohi-Toma, stat. nov. et nom. nov., *Typhonium* sect. *Diversifolia* Sriboonma et J. Murata, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 15: 294. 1994.—TYPE: *Typhonium diversifolium* Wall. ex Schott, Aroideae 13, t. 20. 1855. [= *Diversiarum diversifolium* (Wall. ex Schott) J. Murata & Ohi-Toma]

1. **Diversiarum diversifolium** (Wall. ex Schott) J. Murata & Ohi-Toma, comb. nov., *Typhonium diversifolium* Wall. ex Schott, Aroideae 13, t. 20. 1855.—TYPE: NEPAL, *Wallich's Numerical List no. 8933a in 1821* (holotype K)

2. **Diversiarum alpinum** (C. Y. Wu ex H. Li, Y. Shiao et S. L. Tseng) J. Murata & Ohi-Toma, comb. nov., *Typhonium alpinum* C. Y. Wu ex H. Li, Y. Shiao et S. L. Tseng, Acta Phytotax. Sin. 15: 104. 1977.—TYPE: CHINA, Yunnan, *Diandongbai group 354* (holotype KUN).

Pedatyphonium J. Murata & Ohi-Toma, stat. nov. et nom. nov., *Typhonium* sect. *Pedata* Sriboonma et J. Murata, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 15: 296. 1994.—TYPE: *Typhonium pedatum* Schott, Bot. Wochenbl. 7: 262. 1857. [= *Pedatyphonium pedatum* (Schott) J. Murata & Ohi-Toma]

3. **Pedatyphonium horsfieldii** (Miq.) J. Murata & Ohi-Toma, comb. nov., *Sauromatum horsfieldii* Miq., Fl. Ned. Ind. 3: 196. 1856. *Typhonium horsfieldii* (Miq.) Steenis, Bull. Jard. Bot. Buitenzorg, ser. 3, 17: 403. 1948.—TYPE: INDONESIA, Java, *Horsfield s. n.* (holotype K, isotype BM).

4. **Pedatyphonium larsenii** (S. Y. Hu) J. Murata & Ohi-Toma, comb. nov., *Typhonium larsenii* S. Y. Hu, Dansk

Bot. Arkiv 23: 448. 1968.—TYPE: THAILAND, Chiang-mai, Sorensen, *Larsen & Hansen 3931* (holotype C, isotype A)

5. **Pedatyphonium kunmingense** (H. Li) J. Murata & Ohi-Toma, comb. nov., *Typhonium kunmingense* H. Li, Acta Phytotax. Sin. 15: 104–105. 1977.—TYPE: CHINA, Yunnan, *B. Y. Qin 58944* (holotype KUN).

6. **Pedatyphonium calcicola** (C. Y. Wu ex H. Li, Y. Shiao et S. L. Tseng) J. Murata & Ohi-Toma, comb. nov., *Typhonium calcicola* C. Y. Wu ex H. Li, Y. Shiao et S. L. Tseng, Acta Phytotax. Sin. 15: 104. 1977 (as “*calcicolum*”). —TYPE: CHINA, Yunnan, *S. Z. Wang 731* (holotype KUN).

7. **Pedatyphonium omeiense** (H. Li) J. Murata & Ohi-Toma, comb. nov., *Typhonium omeiense* H. Li, Acta Phytotax. Sin. 15: 105. 1977.—TYPE: CHINA, Sichuan, *J. L. Chuan 2138* (holotype KUN).

Hirsutiarum J. Murata & Ohi-Toma, stat. nov. et nom. nov., *Typhonium* sect. *Hirsuta* Sriboonma et J. Murata, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 15: 293. 1994.—TYPE: *Arisaema hirsutum* S. Y. Hu, Dansk Bot. Arkiv 23: 454, t. 11. Figures 1–5. 1968. [= *Hirsutiarum hirsutum* (S. Y. Hu) J. Murata & Ohi-Toma]

8. **Hirsutiarum hirsutum** (S. Y. Hu) J. Murata & Ohi-Toma, comb. nov., *Arisaema hirsutum* S. Y. Hu, Dansk Bot. Arkiv 23: 454. 1968. *Typhonium hirsutum* (S. Y. Hu) J. Murata & Mayo, Kew Bull. 46: 129. 1990.—TYPE: THAILAND, *Payap 3939* (holotype C).

9. **Hirsutiarum brevipilosum** (Hett. & Sizemore) J. Murata & Ohi-Toma, comb. nov., *Typhonium brevipilosum* Hett. & Sizemore, Aroideana 23: 52–53. 2000.—TYPE: INDONESIA, Sumatra, *Hetterscheid H.AR.097-T* (holotype C).

LITERATURE CITED

Ohi-Toma, T., S. Wu, S. R. Yadav, H. Murata, and J. Murata. 2010. Molecular phylogeny of *Typhonium* sensu lato and its allied genera in the tribe Areae of the subfamily Aroideae (Araceae) based on sequences of six chloroplast regions. *Systematic Botany* 35: 244–251.