

OVERLOOKED SYNONYMS OF PHILIPPINE SPECIES OF CROTON (EUPHORBIACEAE)

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In a footnote to his description of *Tiglium officinale* Klotzsch (*Croton tiglium* L.) in Hayne's 'Getreue Darstellung und Beschreibung der in Arzneykunde gebräuchlichen Gewächse' 14: sub t. 3 (1843), Johann Friedrich Klotzsch (1805—60) published brief Latin diagnoses of four other species known to him from specimens at Berlin collected on the island of Luzon in the Philippines by the English traveller Hugh Cuming (1791—1865). Klotzsch's names for these species have been overlooked by later writers, notably by Jean Mueller (1828—96) of Aargau, who in 1865 described the same species under different names from duplicate specimens at Geneva, and by the compilers of the *Index Kewensis*. Cuming's numbered *exsiccatae* are to be found in many herbaria; hence the correlation of Klotzsch's and Mueller's names, although based on different types, presents no difficulty. Mueller kept *Tiglium* in *Croton*, as have most authors. Fortunately, although Klotzsch's names have priority over Mueller's, no changes take place in established nomenclature as Klotzsch's epithets *cumingii*, *subincanum*, *lanceolatum*, and *pubescens* under *Tiglium* have already been used under *Croton* for other species.

Vol. 14 of Hayne's 'Getreue Darstellung' was never completed. According to *Botanische Zeitung* 5 (1847) 206, Heft 1, tt. 1—12, was published in 1843 and Heft 2, tt. 13—24, in 1846. Klotzsch published several new names in the text to plates 3, 12, 14, 15. *Linnaea* vol. 34 was published in 6 parts: Heft 1—4, pp. 1—512, in 1865, Heft 5—6, pp. 513—752, in 1866. Mueller's paper occupies pp. 1—224.

Klotzsch's names may be relegated to synonymy as follows:

Croton consanguineus M. A., *Linnaea* 34 (1865) 117; in DC., *Prod.* 15, 2 (1866) 619; Merr., *En. Philip. Fl. Pl.* 2 (1923) 426. — Type: 'In insulis Philippinis (Cuming n. 1871!)'.

Tiglium subincanum Klotzsch in Hayne, *Getreue Darst. Arzn. Gewächse* 14 (1843) sub t. 3. — Type: 'Insel Luçon . . . Cuming. N. 1871'.

Klotzsch's diagnosis is as follows: — '*Tiglium subincanum* n. sp. Sparsim stellato-pilosum. Folis oblongis, acuminatis, margine obsolete serrulatis, basi glandulis 2 subsessilibus, subtus petiolisque incanis; racemis axillaribus terminalibusque, subsolitariis, stellato-pilosis. Cuming. N. 1871'.

The transfer of Klotzsch's epithet *subincanum* to *Croton* is barred by *Croton subincanus* M. A. in *Linnaea* 34 (1865) 139.

Croton leiophyllus M. A., *Linnaea* 34 (1865) 103; in DC., *Prod.* 15, 2 (1866) 573; Merr., *En. Philip. Fl. Pl.* 2 (1923) 426. — Type: 'In insulis Philippinis (Cuming n. 998! 1075!)'.

Tiglium cumingii Klotzsch in Hayne, *Getreue Darst. Arzn. Gewächse* 14 (1843) sub t. 3. — Type: 'Insel Luçon . . . Cuming N. 998 et 1075'.

Klotzsch's diagnosis is as follows: — '*Tigium Cumingii* n. sp. Subglabrum. Foliis oblongis, acuminatis, margine remote serratis, basi glandulis 2 sessilibus; racemis terminalibus, compositis, evanescente lepidoto-squamulosis. Cuming N. 998 et 1075'.

The transfer of Klotzsch's epithet *cumingii* to *Croton* is barred by *Croton cumingii* M. A., *Linnaea* 34 (1865) 101, which according to Merrill, *Trans. Amer. Phil. Soc.* II, 24, 2 (1935) 234 and Croizat, *J. Arnold Arb.* 23 (1942) 46, is synonymous with *C. cascarilloides* Raeusch. (1797).

Croton luzoniensis M. A., *Linnaea* 34 (1865) 118; in DC., *Prod.* 15, 2 (1866) 624; Merr., *En. Philip. Fl. Pl.* 2 (1923) 427. — Type: 'In insula Luzon prope Manillam (*Cuming n. 1136!*).'

Tigium pubescens Klotzsch in Hayne, *Getreue Darst. Arzn. Gewächse* 14 (1843) sub t. 3. — Type: '*Cuming N. 1136!*'.

Klotzsch's diagnosis is as follows: — '*Tigium pubescens* n. sp. Pubescens. Foliis ovatis, acuminatis, margine obsolete denticulatis, basi glandulis 2 pedicellatis; racemis pubescentibus, terminalibus, solitariis. Cuming N. 1136'.

The transfer of Klotzsch's epithet *pubescens* to *Croton* is barred by *Croton pubescens* Geiseler, *Crotonis Mon.* (1807) 14.

Croton verreauxii (Baill.) M. A. var. ***angustifolius*** M. A., *Linnaea* 34 (1865) 117; in DC., *Prod.* 15, 2 (1866) 621; Merr., *En. Philip. Fl. Pl.* 2 (1923) 427. — Type: 'In Philippinis (*Cuming n. 736! 1421! Llanos in hb. DC.*)'.

Tigium lanceolatum Klotzsch in Hayne, *Getreue Darst. Arzn. Gewächse* 14 (1843) sub t. 3. — Type: '*Cuming N. 736 et 1421!*'.

Klotzsch's diagnosis is as follows: — '*Tigium lanceolatum* n. sp. Subglabrum. Foliis lanceolatis, obsolete serratis, basi glandulis 2 pedicellatis; racemis axillaribus terminalibusque, subsolitariis, evanescente piloso-squamulosis. Cuming N. 736 et 1421'.

The transfer of Klotzsch's epithet *lanceolatum* to *Croton* is barred by *Croton lanceolatus* Cav., *Icones* 6 (1801) 38, t. 557, which is synonymous with *Argythamnia tricuspидata* (Lamk) M. A. var. *lanceolata* (Cav.) M. A.