

## THE CURRENT STATUS OF THE SPECIES HITHERTO ASSIGNED TO *HENCKELIA* (GESNERIACEAE)

D. J. MIDDLETON<sup>1</sup>, A. WEBER<sup>2</sup>, T. L. YAO<sup>3</sup>, S. SONTAG<sup>2</sup> &  
M. MÖLLER<sup>1</sup>

Following recent molecular phylogenetic studies in Old World Gesneriaceae the nomenclatural implications for names in *Henckelia* are examined. New combinations are made in *Codonoboea* and *Loxocarpus* to account for species now excluded from *Henckelia*. A list is presented in which the current position of all species hitherto assigned to *Henckelia* is given, including the new combination *Henckelia rotundata* (Barnett) D.J.Middleton & Mich.Möller. A new combination in *Oreocharis* is made.

*Keywords.* *Codonoboea*, Gesneriaceae, *Henckelia*, *Loxocarpus*, new combinations.

### INTRODUCTION

In recent years there has been a large number of changes in generic delimitation in Gesneriaceae as a result of both detailed morphological study and insights from molecular phylogenetic analyses (Möller *et al.*, 2009, 2011a, 2011b; Wei *et al.*, 2010; Puglisi *et al.*, 2011; Wang *et al.*, 2011; Weber *et al.*, 2011a, 2011b, 2011c). The study by Weber *et al.* (2011a) was ostensibly to clarify relationships in the heterogeneous genus *Chirita* Buch.-Ham. ex D.Don but the conclusions also had significant ramifications in other genera, particularly in *Henckelia* Spreng. The objective of the current paper is to clarify the nomenclatural consequences of changes in the delimitation of *Henckelia*.

*Henckelia* was resurrected from synonymy of *Didymocarpus* Wall. by Weber & Burt (1998). It encompassed the species formerly placed in *Didymocarpus* sect. *Orthoboea* (South India, Sri Lanka), the species of all (but one: *Didymocarpus* sect. *Elati* Ridl.) sections of *Didymocarpus* from Peninsular Thailand and Malesia, as well as the Malesian genera *Codonoboea* Ridl., *Loxocarpus* R.Br., and *Platyadenia* B.L.Burt, totalling about 180 species. The first molecular phylogenetic studies to include a range of *Henckelia* species confirmed that these species indeed did not form a monophyletic group with *Didymocarpus* but also began to suggest that the newly defined *Henckelia*

<sup>1</sup> Royal Botanic Garden Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR, Scotland, UK. E-mail for correspondence: d.middleton@rbge.ac.uk

<sup>2</sup> University of Vienna, Faculty Centre of Biodiversity, Department of Structural and Functional Botany, Rennweg 14, 1030 Vienna, Austria.

<sup>3</sup> Forest Research Institute Malaysia, 52109 Kepong, Selangor, Malaysia.

might also not be monophyletic (Möller *et al.*, 2009). Weber *et al.* (2011a) showed conclusively that the South Indian and Sri Lankan species of *Henckelia* formed a monophyletic group with most species of *Chirita* sect. *Chirita* but that some species of *Chirita* sect. *Chirita* and the other sections in the genus were only distantly related to these. The type species of *Henckelia*, *H. incana* (Vahl) Spreng., is from South India. *Henckelia* has priority over *Chirita* and the nomenclatural consequences for all species previously assigned to *Chirita* were presented in Weber *et al.* (2011a). The same study also showed that all the Malesian species of *Henckelia*, by far the majority of species in the genus, did not form a monophyletic group with the South Indian/Sri Lankan species. The focus in Weber *et al.* (2011a) was on the fate of species assigned to *Chirita* but it was acknowledged there that the results and conclusions had huge implications for our understanding of the genus *Henckelia*. *Henckelia* is still recognised but with a delimitation considerably different from that used in a number of other recent works (Weber & Burt, 1998; Vitek *et al.*, 2000; Weber, 2004; Banka & Kiew, 2009; Kiew, 2009). Before Weber *et al.* (2011a) there were approximately 180 species of *Henckelia* and afterwards about 56 species. However, only 14 species, namely those of *Henckelia* sect. *Henckelia* (formerly *Didymocarpus* sect. *Orthoboea* Benth.) from South India and Sri Lanka, are common to both delimitations.

Weber *et al.* (2011a) noted that the correct generic name for most of the southern Thai and Malesian species formerly placed in *Henckelia* is *Codonoboea*. The species of *Henckelia* sections *Didymanthus* (C.B. Clarke) A. Weber & B.L. Burt, *Heteroboea* (Benth.) A. Weber & B.L. Burt and *Glossadenia* A. Weber & B.L. Burt (Weber & Burt, 1998) consistently form a well-supported monophyletic group and can confidently all be assigned to *Codonoboea*. Kiew & Lim (2011) made combinations for all the Peninsular Malaysian taxa and Kartonegoro (2012) has made a combination for the single species known from Sulawesi. In addition Rafidah *et al.* (2011) have made the combination *Codonoboea elata* (Ridl.) Rafidah for the misplaced *Chirita elata* Ridl. Below we make combinations in *Codonoboea* for the remaining species in this group from Peninsular Thailand and the rest of Malesia. We acknowledge that considerably more basic taxonomic work is necessary in these areas to properly define the species but we consider it essential that they have names in *Codonoboea* pending that work so as to avoid conflicting nomenclatural frameworks.

A smaller number of species in Thailand and Malesia which were excluded from *Henckelia* by Weber *et al.* (2011a) did not group with those species now in *Codonoboea*. These correspond to the species of *Loxocarpus* that had been synonymised into *Henckelia* by Weber & Burt (1998). The species of *Loxocarpus* are found in the Asian twisted-fruited clade (using the terminology of Möller *et al.*, 2009) but doubts remain as to whether the species form a monophyletic group (Yao, 2012). However, given that *Loxocarpus* was explicitly excluded from the newly defined *Henckelia* by Weber *et al.* (2011a) the species must revert to *Loxocarpus* and await more research on their relationships. The species have recently been revised by Yao (2012) and 20 named species are presently recognised. Most of these 20 species already have combinations in *Loxocarpus* but below we make new combinations where necessary.

We make new combinations only for those taxa which, to the best of our knowledge, are currently recognised. In the list below and in the list of all names ever published in *Henckelia* in Appendix 1 we largely follow taxon delimitation in Weber & Burt (1998), Vitek *et al.* (2000), Weber *et al.* (2000), Burt (2001), Kiew & Lim (2011) and Yao (2012).

We do not make combinations for the section names in *Henckelia* which were recognised by Weber & Burt (1998) and which now belong to *Codonoboea*: sect. *Didymanthus*, sect. *Heteroboea*, and sect. *Glossadenia*. We abstain from making the formal transfers pending further research and simply list the appropriate sections hitherto described in *Didymocarpus* and *Henckelia* in the synonymy of *Codonoboea*.

A new combination in *Oreocharis* is made in Appendix 2.

#### NOMENCLATRURAL CONSEQUENCES

##### *Codonoboea*

**Codonoboea** Ridl., Fl. Malay Penins. 2: 533 (1923). – *Didymocarpus* sect. *Codonoboea* (Ridl.) Kiew, Blumea 35: 171 (1990). – Type: *Codonoboea leucocodon* (Ridl.) Ridl., designated by Ivanina (1967).

*Didymocarpus* sect. *Heteroboea* Benth. in Benth. & Hook.f., Gen. Pl. 2: 1022 (1876). – *Henckelia* sect. *Heteroboea* (Benth.) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 334 (1998 [‘1997’]). – Type: *Didymocarpus crinitus* (Jack) Spreng. (= *Codonoboea crinita* (Jack) C.L.Lim).

*Didymocarpus* sect. *Didymanthus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 82 (1883). – *Henckelia* sect. *Didymanthus* (C.B.Clarke) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 334 (1998 [‘1997’]). – Type: *Didymocarpus serratus* R.Br. (= *Codonoboea serrata* (R.Br.) A.Weber).

*Didymocarpus* sect. *Kompsoboea* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 87 (1883). – Type: *Didymocarpus kompsoboea* C.B.Clarke (= *Codonoboea kompsoboea* (C.B.Clarke) A.Weber).

*Didymocarpus* sect. *Salicini* Ridl., J. Linn. Soc. Bot. 32: 514 (1896). – Type: *Didymocarpus salicinus* Ridl. (= *Codonoboea salicina* (Ridl.) C.L.Lim).

*Didymocarpus* sect. *Reptantes* Ridl., J. Straits Branch Roy. Asiat. Soc. 44: 29 (1905). – Type: *Didymocarpus reptans* Jack (= *Codonoboea reptans* (Jack) C.L.Lim).

*Paraboea* sect. *Campanulatae* Ridl., J. Straits Branch Roy. Asiat. Soc. 44: 63 (1905). – Type: *Paraboea campanulata* Ridl. (= *Codonoboea hirta* (Ridl.) Kiew).

*Didymocarpus* sect. *Boeopsis* Ridl., J. Straits Branch Roy. Asiat. Soc. 49: 22 (1907). – Type: *Didymocarpus heterophyllus* Ridl. (= *Codonoboea heterophylla* (Ridl.) C.L.Lim).

*Didymocarpus* sect. *Pectinati* Ridl., Fl. Malay Penins. 2: 508 (1923). – Type: *Didymocarpus pectinatus* Oliv. (= *Codonoboea pectinata* (Oliv.) Kiew).

*Platyadenia* B.L.Burt, Notes Roy. Bot. Gard. Edinburgh 31: 51 (1971). – Type: *Platyadenia descendens* B.L.Burt (= *Codonoboea descendens* (B.L.Burt) A.Weber).

*Didymocarpus* sect. *Venusti* Kiew, Malay. Nat. J. 48: 203 (1995) [*Venustus*']. – Type: *Didymocarpus venustus* Ridl. (≡ *Codonoboea venusta* (Ridl.) Kiew).

*Henckelia* sect. *Glossadenia* A.Weber & B.L.Burttt, Beitr. Biol. Pflanzen 70: 335 (1998 [*1997*']). – Type: *Henckelia flavobrunnea* (Ridl.) A.Weber (≡ *Codonoboea flavobrunnea* (Ridl.) Kiew).

Perennial herbs, caulescent or forming a rosette, occasionally creeping; usually somewhat woody. Leaves opposite or alternate, petiolate to sessile. Inflorescences axillary, one- to few- to many-flowered, pedunculate, single-flowered or cymose, then flowers in pairs; flowers 5-merous. Calyx of 5 lobes divided to the base. Corolla consisting of a tube and 5 spreading lobes, 2-lipped with a 3-lobed lower lip, which is generally longer, and a 2-lobed upper lip. Fertile stamens 2, anthers adnate face to face. Disc a flat-topped or lobed ring, sometimes not a complete ring or lacking. Ovary cylindrical, style narrower, stigma peltate or clavate. Capsules plagiotropic, usually narrow and long, dehiscent dorsally to form a gutter.

About 120 species from southern Thailand and throughout Malesia. The Peninsular Malaysian species are enumerated in Kiew & Lim (2011) and the single Sulawesi species by Kartonegoro (2012). Below are new combinations for the remaining species. We have not indicated the type of type (holotype, lectotype, isotype, etc.) for all names because for those that possibly lack a holotype, or have not yet been lectotyped, this should be done as part of a detailed revision of the taxa.

***Codonoboea alternifolia*** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus alternifolius* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 106 (1883). – *Paraboea alternifolia* (C.B.Clarke) B.L.Burttt, Notes Roy. Bot. Gard. Edinburgh 24: 46 (1962). – *Henckelia alternifolia* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 339 (1998 [*1997*']). – Type: W Borneo, Kalimantan, Sebalouw, near Sambas, 15–19 x 1874, *Teysmann* 10779 (holo FI!). – Distribution: Borneo.

***Codonoboea amoena*** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus amoenus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 87 (1883). – *Henckelia amoena* (C.B.Clarke) B.L.Burttt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Type: Borneo borealis, 1877–78, *Burbidge* s.n. (BM, K). – Distribution: Borneo.

***Codonoboea angustifolia*** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus angustifolius* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 89 (1883). – *Henckelia angustifolia* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 339 (1998 [*1997*']). – Type: Borneo, Sarawak, in monte Mattang, *Beccari* 3629 (FI-B, K). – Distribution: Borneo.

***Codonoboea appressipilosa*** (B.L.Burttt) D.J.Middleton, **comb. nov.** – *Henckelia appressipilosa* B.L.Burttt, Thai Forest Bull., Bot. 29: 98 (2001). – Type: Thailand, Narathiwat, Sungai Kolok, Nikhom Waeng, 2 iii 1974, *K. Larsen & S. Larsen* 32803 (holo AAU). – Distribution: Thailand.

- Codonoboea bakoensis** (B.L.Burtt) A.Weber, **comb. nov.** – *Didymocarpus bakoensis* B.L.Burtt, Notes Roy. Bot. Gard. Edinburgh 36: 152 (1978). – *Henckelia bakoensis* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – Type: Sarawak, First Division, Bako National Park, Telok Asam, 17 v 1962, *Burtt & Woods* 1839 (holo E; iso SAR). – Distribution: Borneo.
- Codonoboea bakoensis** (B.L.Burtt) A.Weber var. **tenuior** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus leptocalyx* C.B.Clarke var. *tenuior* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 91 (1883). – *Henckelia bakoensis* (B.L.Burtt) B.L.Burtt var. *tenuior* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – Type: Borneo, prope Kuteing [Kuching], *Beccari* (holo FI-B). – Distribution: Borneo.
- Codonoboea battamensis** (Ridl.) A.Weber, **comb. nov.** – *Didymocarpus battamensis* Ridl., J. Straits Branch Roy. Asiat. Soc. 49: 22 (1908). – *Henckelia battamensis* (Ridl.) B.L.Burtt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – Type: Pulau Battam, an island south of Singapore, ix 1905, *Kloss* s.n. (SING). – Distribution: Batam Island (Indonesia).
- Codonoboea beccarii** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus beccarii* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 89 (1883). – *Henckelia beccarii* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – Syntypes: Sarawak, in colle Sakarang, *Beccari* 3884 (FI-B); in colle Cumpang, v 1867, *Beccari* 3442 (FI-B, K); Kapuas, *Teysmann* in herb. *Beccari* 8441 (FI-B). – Distribution: Borneo.
- Codonoboea bullata** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus bullatus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 92 (1883). – *Henckelia bullata* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 339 (1998 [‘1997’]). – Syntypes: Borneo, Sarawak, 750 m, *Lobb* s.n. (K); *Beccari* 2108 (FI-B). – Distribution: Borneo.
- Codonoboea corniculata** (Jack) D.J.Middleton, **comb. nov.** – *Didymocarpus corniculatus* Jack, Malayan Misc. I, 2: 4 (1820). – *Henckelia corniculata* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – Type: Sumatra, Tappanooly, *Jack* s.n. (G). – Distribution: Sumatra.
- Codonoboea corrugata** (Mendum) D.J.Middleton, **comb. nov.** – *Henckelia corrugata* Mendum, Edinburgh J. Bot. 58: 439 (2001). – Type: Philippines, Palawan, side of ravine above Camp 3 towards Cleopatra’s Needle, 940 m, 22 i 1998, *Mendum et al.* 25558 (holo PNH; iso E). – Distribution: Philippines (Palawan).
- Codonoboea crenata** (Baker) A.Weber, **comb. nov.** – *Didymocarpus crenatus* Baker, Kew Bull. 1896: 25 (1896). – *Henckelia crenata* (Baker) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Type: Borneo, Sabah, Sandakan, iv 1895, *Creagh* (holo K). – Distribution: Borneo.

- Codonoboea dentata** (Ridl.) A.Weber, **comb. nov.** – *Didymocarpus dentatus* Ridl., J. Linn. Soc. 32: 515 (1896). – *Henckelia dentata* (Ridl.) B.L.Burtt, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – Type: Indonesia, Lingga, 1893, *Hullett* s.n. (SING). – Distribution: Lingga Islands (Indonesia).
- Codonoboea descendens** (B.L.Burtt) A.Weber, **comb. nov.** – *Platyadenia descendens* B.L.Burtt, Notes Roy. Bot. Gard. Edinburgh 31: 51 (1971). – *Henckelia descendens* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – Type: Sarawak, First Division, Bako National Park, Telok Delima, 19 v 1962, *Burtt & Woods* B.1856 (holo E; iso SAR). – Distribution: Borneo.
- Codonoboea elegans** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus elegans* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 88 (1883). – *Henckelia elegans* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – Type: Borneo, 1853, *Lobb* s.n. (holo K). – Distribution: Borneo.
- Codonoboea filicalyx** (B.L.Burtt) D.J.Middleton, **comb. nov.** – *Henckelia filicalyx* B.L.Burtt, Thai Forest Bull., Bot. 29: 95 (2001). – Type: Thailand, Narathiwat, Nihom Waeng, 4 iii 1974, *K. Larsen & S. Larsen* 32914 (holo AAU; iso E). – Distribution: Thailand.
- Codonoboea follicularis** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus follicularis* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 98 (1883). – *Henckelia follicularis* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]). – Type: Borneo, Karimata, *Teysmann* in herb. Beccari 11218 (FI-B; photo E). – Distribution: Borneo.
- Codonoboea gracilipes** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus gracilipes* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 97 (1883). – *Henckelia gracilipes* (C.B.Clarke) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Type: Borneo, Sarawak, *Beccari* 3229 (FI-B, G, K, M, P, W). – Distribution: Borneo.
- Codonoboea koerperi** (B.L.Burtt) A.Weber, **comb. nov.** – *Didymocarpus koerperi* B.L.Burtt, Notes Roy. Bot. Gard. Edinburgh 47: 236 (1990). – *Henckelia koerperi* (B.L.Burtt) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – Type: Cultivated plant originally from Sumatra, Pajakumbuh, Harau valley, c.800 m, *Körper* s.n. (holo E; iso M, WU). – Distribution: Sumatra.
- Codonoboea kolokensis** (B.L.Burtt) D.J.Middleton, **comb. nov.** – *Henckelia kolokensis* B.L.Burtt, Thai Forest Bull., Bot. 29: 95 (2001). – Type: Thailand, Narathiwat, Sungai Kolok, Nihom Waeng, 4 iii 1974, *K. Larsen & S. Larsen* 32913 (holo AAU; iso E). – Distribution: Thailand.
- Codonoboea kompsoboea** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus kompsoboea* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 92, tab. 10 (1883). – *Henckelia kompsoboea* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 347

(1998 [‘1997’]). – Type: Borneo, ‘Sarawak, in colle Kumpang’, *Beccari* 3440 (holo FI-B). – Distribution: Borneo.

**Codonoboea lanceolata** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus lanceolatus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 89 (1883). – *Henckelia lanceolata* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – Type: ‘Borneo boreali-orientalis; in montibus’, *Lobb* s.n. (holo K). – Distribution: Borneo.

**Codonoboea leptocalyx** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus leptocalyx* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 91 (1883). – *Henckelia leptocalyx* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – Syntypes: Borneo, Sarawak, 750 m, *Beccari* 1794 (FI-B, G-DC, K, P); *Lobb* s.n. (K). – Distribution: Borneo.

**Codonoboea murutorum** (B.L.Burtt) A.Weber, **comb. nov.** – *Didymocarpus murutorum* B.L.Burtt, Notes Roy. Bot. Gard. Edinburgh 36: 153 (1978). – *Henckelia murutorum* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – Type: Sarawak, Fifth Division, route from Bakelalan to Gunung Murud above Sungei Konap, c.1320 m, 23 ix 1967, *Burtt & Martin* B.5172 (holo E; iso SAR). – Distribution: Borneo.

**Codonoboea myricifolia** (Ridl.) A.Weber, **comb. nov.** – *Didymocarpus myricifolius* Ridl., J. Straits Branch Roy. Asiat. Soc. 44: 53 (1905). – *Henckelia myricifolia* (Ridl.) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Type: Borneo, Sabah, Bongaya, Labuk Bay, *Ridley* s.n. (SING). – Distribution: Borneo.

**Codonoboea nervosa** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus nervosus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 95 (1883). – *Henckelia nervosa* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – Type: Borneo, Sarawak, in colle Sakarang, *Beccari* 3889 (holo FI-B). – Distribution: Borneo.

**Codonoboea pagonensis** (B.L.Burtt) A.Weber, **comb. nov.** – *Henckelia pagonensis* B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – Type: Brunei, Temburong, Bukit Pagon, east ridge, 1470 m, 19 vii 1990, *K.M. Wong* 1784 (holo BRUN). – Distribution: Borneo.

**Codonoboea pleuropogon** (B.L.Burtt) A.Weber, **comb. nov.** – *Didymocarpus pleuropogon* B.L.Burtt, Notes Roy. Bot. Gard. Edinburgh 31: 44 (1971). – *Henckelia pleuropogon* (B.L.Burtt) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Type: Cultivated plant grown on from *Burtt & Martin* B.5050, originally from Sarawak, Third Division, SE Hose Mts., hill E of overhang at Bukit Semako, 16 viii 1967, *Royal Botanic Garden Edinburgh cultivated specimen* C.5639 (holo E). – Distribution: Borneo.

- Codonoboea porphyrea** (B.L.Burttt) D.J.Middleton, **comb. nov.** – *Henckelia porphyrea* B.L.Burttt, Thai Forest Bull., Bot. 29: 96 (2001). – Type: Thailand, Ranong, Khao Pota Luang Kaeo, 22 vi 1974, *Geesink et al.* 7417 (holo BKF; iso AAU). – Distribution: Thailand.
- Codonoboea punctata** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus punctatus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 90 (1883). – *Henckelia punctata* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – Type: ‘Borneo boreali-orientalis, in ripis fluminum’, *Lobb* s.n. (holo K). – Distribution: Borneo.
- Codonoboea racemosa** (Jack) A.Weber, **comb. nov.** – *Didymocarpus racemosus* Jack, Trans. Linn. Soc. 14: 34 (1823). – *Henckelia racemosa* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – Type: Sumatra, west coast, at Tappanooly, *Jack* s.n. (probably lost). – Distribution: Sumatra.
- Codonoboea reticulosa** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus reticulosus* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 90 (1883). – *Henckelia reticulosa* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]). – Syntypes: Borneo, Sarawak, 750 m, 1865–68, *Beccari* 1713 (FI-B); 1865–68, *Beccari* 2067 (FI-B, G-DC, K, P); *Lobb* (K). – Distribution: Borneo.
- Codonoboea scabrinervia** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus scabrinervius* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 91 (1883). – *Henckelia scabrinervia* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]). – Syntypes: Borneo, ‘Sarawak, in monte Poe, alt. 1400 m’, *Beccari* 2423 (FI-B); Montrado, *Teysmann* 10883 (FI-B, L). – Distribution: Borneo.
- Codonoboea serrata** (R.Br.) A.Weber, **comb. nov.** – *Didymocarpus serratus* R.Br., Cyrtandreae 119 (1839). – *Henckelia serrata* (R.Br.) A.Weber & B.L.Burttt, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – Type: Sumatra?, *Horsfield* s.n. (BM). – Distribution: probably Sumatra.
- Codonoboea simplex** (Kraenzl.) A.Weber, **comb. nov.** – *Didymocarpus simplex* Kraenzl., Mitt. Inst. Allg. Bot. Hamburg 7: 88 (1927). – *Henckelia simplex* (Kraenzl.) B.L.Burttt, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – Type: West-Borneo [Kalimantan], ‘zwischen dem Bukit Raja und dem Bukit Menabai, um 1000 m’, 25 xii 1924, *Winkler* 1058 (HBG; photo E). – Distribution: Borneo.
- Codonoboea teres** (C.B.Clarke) A.Weber, **comb. nov.** – *Didymocarpus teres* C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 88 (1883). – *Henckelia teres* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – Syntypes: Borneo, ‘Sarawak, prope Kuteing’ [Kuching], *Beccari* 385 (FI-B, K); *Beccari* 1353 (FI-B). – Distribution: Borneo.
- Codonoboea virginea** (B.L.Burttt) A.Weber, **comb. nov.** – *Didymocarpus virginea* B.L.Burttt, Notes Roy. Bot. Gard. Edinburgh 36: 154 (1978). – *Henckelia virginea*



(B.L.Burt) B.L.Burt, Beitr. Biol. Pflanzen 70: 358 (1998 [‘1997’]). – Type: Borneo, Sarawak, Fifth Division, route from Bakelelan to Gunung Murud, ridge above Sungai Bor, c.4°N, 115°38’E, c.1320 m, 25 ix 1967, *Burt & Martin* B.5203 (holo E; iso SAR). – Distribution: Borneo.

**Codonoboea vulcanica** (Ridl.) A.Weber, **comb. nov.** – *Didymocarpus vulcanicus* Ridl., J. Malayan Branch Roy. Asiat. Soc. 1: 80 (1923). – *Henckelia vulcanica* (Ridl.) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – Type: Sumatra, Bandar Bharu, Gunong Sibayak, 6 viii 1921, *Nur* 7314 (K). – Distribution: Sumatra.

**Codonoboea woodii** (Merr.) A.Weber, **comb. nov.** – *Didymocarpus woodii* Merr., Philipp. J. Sci. 26: 489 (1925). – *Henckelia woodii* (Merr.) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – Type: Philippines, Palawan, Malampaya Bay, 8 x 1922, *Merrill* 11587 (G, K, L, P, PNH, US, W). – Distribution: Philippines.

#### *Loxocarpus*

**Loxocarpus** R.Br., Cyrtandreae 120 (1839). – *Didymocarpus* Wall. sect. *Loxocarpus* (R.Br.) Benth. in Benth. & Hook.f., Gen. Pl. 2: 1022 (1876). – *Roettlera* Vahl sect. *Loxocarpus* (R.Br.) Fritsch in Nat. Pflanzenfam. 4, 36: 147 (1894). – *Henckelia* Spreng. sect. *Loxocarpus* (R.Br.) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 334 (1998). – Type: *Loxocarpus incanus* R.Br.

Rosette plants with or without rootstock, sometimes creeping, rarely caulescent. Indumentum usually of a layer of silky hairs, generally whitish, sometimes buff, usually dense, rarely sparse on lamina upper surface. Leaves petiolate. Inflorescence a reduced cyme with a single flower, or cymose, pedunculate. Flowers 5-merous. Calyx lobes free almost to base. Corolla usually campanulate or flat-faced, rarely shortly tubular; lobes more or less isomorphic but lower three lobes usually distinguishably larger than upper two lobes, upper lobes rarely fused. Disc usually absent, sometimes vestigial. Stamens 2; anthers coherent, usually included within corolla tube in campanulate and shortly tubular flowers or exposed in flat-faced flowers. Ovary conical, usually short and thick at base, sometimes slender; stigma punctiform, sometimes capitate and rarely peltate. Capsules plagiocarpic, often ovoid or conical, sometimes slender and gutter shaped, usually straight or slightly curved, rarely corniculate, dehiscing dorsally to form a splash cup or gutter.

More than 20 species in southern Thailand and western Malesia.

**Loxocarpus coodei** (B.L.Burt) T.L.Yao, **comb. nov.** – *Henckelia coodei* B.L.Burt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – Type: Brunei, Temburong, Temburong River at Wong Nguan rapids, 120 m, 5 iii 1990, *Coode* 6617 (holo K; iso BRUN).

- Loxocarpus incanus** R.Br. var. **sekayuensis** (Banka & Kiew) T.L.Yao, **comb. et stat. nov.** – *Henckelia sekayuensis* Banka & Kiew, *Edinburgh J. Bot.* 66: 254 (2009). – Type: Peninsular Malaysia, Terengganu, Sekayu Recreational Forest, 29 viii 1986, *Anthony'samy* SA 638 (holo KEP).
- Loxocarpus sericiflavus** (Kiew & Banka) T.L.Yao, **comb. nov.** – *Henckelia sericiflava* Kiew & Banka, *Edinburgh J. Bot.* 66: 18 (2009). – Type: Peninsular Malaysia, Johor, Gunung Panti, 5 xii 1936, *Corner* SFN 32538 (holo SING; iso SAR).
- Loxocarpus taeniophyllus** (B.L.Burtt) T.L.Yao, **comb. nov.** – *Henckelia taeniophylla* B.L.Burtt in Coode et al., *Checkl. Fl. Pl. Gymnosperms Brunei Darussalam* 438 (1996). – Type: Brunei, Temburong, Bangar, northern slope of Bkt. Bangar, 10–100 m, 18 i 1964, *Hotta* 13263 (holo KYO; iso E).
- Loxocarpus violoides** (C.B.Clarke) T.L.Yao, **comb. nov.** – *Didymocarpus violoides* C.B.Clarke in A.DC. & C.DC., *Monogr. Phan.* 5(1): 97 (1883). – *Roettlera violoides* (C.B.Clarke) Kuntze, *Rev. Gen. Pl.* 2: 477 (1891). – *Henckelia violoides* (C.B.Clarke) B.L.Burtt in Coode et al., *Checkl. Fl. Pl. Gymnosperms Brunei Darussalam* 438 (1996). – Type: NE of Borneo, Lobong Peak, 5000 ft, *Lobb* s.n. (holo K).

## REFERENCES

- BANKA, R. A. & KIEW, R. (2009). *Henckelia* section *Loxocarpus* (Gesneriaceae) in Peninsular Malaysia. *Edinburgh J. Bot.* 66: 239–261.
- BARNETT, E. C. (1961a). New species of Gesneriaceae from Thailand. *Nat. Hist. Bull. Siam Soc.* 20: 9–25.
- BARNETT, E. C. (1961b). Contributions to the Flora of Thailand: LV. *Kew Bull.* 15: 249–259.
- BURTT, B. L. (2001). Flora of Thailand: Annotated checklist of Gesneriaceae. *Thai Forest Bull., Bot.* 29: 81–109.
- IVANINA, L. (1967). *Gesneriaceae: the carpological review* [in Russian]. Leningrad, Russia: Academy of Sciences, Komarov Botanical Institute.
- KARTONEGORO, A. (2012). The Gesneriaceae of Sulawesi V: A new species of *Rhynchoglossum* and a new combination in *Codonoboea*. *Edinburgh J. Bot.* 69: 357–361.
- KIEW, R. (2009). The natural history of Malaysian Gesneriaceae. *Malayan Nat. J.* 61: 257–265.
- KIEW, R. & LIM, C. L. (2011). Names and new combinations for Peninsular Malaysian species of *Codonoboea* Ridl. (Gesneriaceae). *Gard. Bull. Singapore* 62: 253–275.
- MÖLLER, M., PFOSSER, M., JANG, C. G., MAYER, V., CLARK, A., HOLLINGSWORTH, M. L. *ET AL.* (2009). A preliminary phylogeny of the ‘didymocarpoid Gesneriaceae’ based on three molecular data sets: Incongruence with available tribal classifications. *Amer. J. Bot.* 96: 989–1010.
- MÖLLER, M., FORREST, A., WEI, Y. G. & WEBER, A. (2011a). A molecular phylogenetic assessment of the advanced Asiatic and Malesian didymocarpoid Gesneriaceae with focus on non-monophyletic and monotypic genera. *Pl. Syst. Evol.* 292: 223–248.
- MÖLLER, M., MIDDLETON, D., NISHII, K., WEI, Y.-G., SONTAG, S. & WEBER, A. (2011b). A new delineation for *Oreocharis* incorporating an additional ten genera of Chinese Gesneriaceae. *Phytotaxa* 32: 1–36.

- PUGLISI, C., MIDDLETON, D. J., TRIBOUN, P. & MÖLLER, M. (2011). New insights into the relationships between *Paraboea*, *Trisepalum* and *Phylloboea* (Gesneriaceae) and their taxonomic consequences. *Taxon* 60: 1693–1702.
- RAFIDAH, A. R., KIEW, R. & HARON, N. W. (2011). To which genus does the enigmatic Peninsular Malaysia *Chirita elata* (Gesneriaceae) belong? *Blumea* 56: 18–20.
- VITEK, E., WEBER, A. & BURTT, B. L. (2000). Names, types and current placement of the species hitherto referred to *Didymocarpus*, *Loxocarpus*, *Codonoboea*, *Platyadenia* and *Henckelia* (Gesneriaceae). *Ann. Naturhist. Mus. Wien* 102B: 477–530.
- WANG, Y. Z., MAO, R. B., LIU, Y., LI, J. M., DONG, Y., LI, Z. Y. & SMITH, J. F. (2011). Phylogenetic reconstruction of *Chirita* and allies (Gesneriaceae) with taxonomic treatments. *J. Syst. Evol.* 49: 50–64.
- WEBER, A. (2004). Gesneriaceae. In: KUBITZKI, K. & KADEREIT, J. W. (eds) *The Families and Genera of Vascular Plants*. Vol. 7. *Flowering Plants: Dicotyledons; Lamiales (except Acanthaceae including Avicenniaceae)*, pp. 63–158. Berlin and Heidelberg: Springer.
- WEBER, A. & BURTT, B. L. (1998 [1997]). Remodelling of *Didymocarpus* and associated genera (Gesneriaceae). *Beitr. Biol. Pflanzen* 70: 293–363.
- WEBER, A., BURTT, B. L. & VITEK, E. (2000). Materials for a revision of *Didymocarpus* (Gesneriaceae). *Ann. Naturhist. Mus. Wien* 102B: 441–475.
- WEBER, A., MIDDLETON, D. J., FORREST, A., KIEW, R., LIM, C. L., RAFIDAH, A. R. ET AL. (2011a). Molecular systematics and remodelling of *Chirita* and associated genera (Gesneriaceae). *Taxon* 60: 767–790.
- WEBER, A., WEI, Y.-G., PUGLISI, C., MAYER, V. & MÖLLER, M. (2011b). A new definition of the genus *Petrocodon* (Gesneriaceae). *Phytotaxa* 23: 49–67.
- WEBER, A., WEI, Y. G., SONTAG, S. & MÖLLER, M. (2011c). Inclusion of *Metabriggsia* into *Hemiboea* (Gesneriaceae). *Phytotaxa* 23: 37–48.
- WEI, Y. G., WEN, F., CHEN, W. H., SHUI, Y. M. & MÖLLER, M. (2010). *Litostigma*, a new genus from China: a morphological link between basal and derived didymocarpoide Gesneriaceae. *Edinburgh J. Bot.* 67: 161–184.
- YAO, T. L. (2012). *A taxonomic revision of Loxocarpus (Gesneriaceae)*. Unpublished MSc thesis, University of Malaya, Kuala Lumpur, Malaysia.

Received 19 June 2012; accepted for publication 10 December 2012

#### APPENDIX 1

Present placement of species referred to *Henckelia*. Current name in **bold**. For further nomenclatural details, where necessary, see Weber & Burtt (1998), Weber *et al.* (2000), Vitek *et al.* (2000), Burtt (2001), Kiew & Lim (2011) and Yao (2012).

- Henckelia adenocalyx* (Chatterjee) D.J.Middleton & Mich.Möller, *Taxon* 60(3): 774 (2011).  
*Henckelia alata* (Roxb.) A.Dietr., *Sp. Pl.*, ed. 6, 1: 573 (1831). – *Torenia alata* (Roxb.) Benth.  
*Henckelia alba* (Ridl.) A.Weber, *Beitr. Biol. Pflanzen* 70: 338 (1998 [1997]). – *Codonoboea alba* (Ridl.) C.L.Lim  
*Henckelia albomarginata* (Hemsl.) A.Weber, *Beitr. Biol. Pflanzen* 70: 338 (1998 [1997]).  
– *Codonoboea albomarginata* (Hemsl.) Kiew  
*Henckelia alternans* (Ridl.) A.Weber, *Beitr. Biol. Pflanzen* 70: 338 (1998 [1997]). – *Codonoboea alternans* (Ridl.) Kiew  
*Henckelia alternifolia* (C.B.Clarke) B.L.Burtt, *Beitr. Biol. Pflanzen* 70: 339 (1998 [1997]).  
– *Codonoboea alternifolia* (C.B.Clarke) A.Weber

- Henckelia amoena* (C.B.Clarke) B.L.Burttt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Codonoboaea amoena* (C.B.Clarke) A.Weber
- Henckelia anachoreta* (Hance) D.J.Middleton & Mich.Möller, Taxon 60(3): 774 (2011).
- Henckelia angusta* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 774 (2011).
- Henckelia angustifolia* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 339 (1998 [‘1997’]). – *Codonoboaea angustifolia* (C.B.Clarke) A.Weber
- Henckelia anthonyi* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 339 (1998 [‘1997’]). – *Codonoboaea anthonyi* (Kiew) C.L.Lim
- Henckelia anthonyisamyi* Banka, Edinburgh J. Bot. 66(2): 249 (2009). – Synonym of *Loxocarpus sericiflavus* (Kiew & Banka) T.L.Yao
- Henckelia appressipilosa* B.L.Burttt, Thai Forest Bull., Bot. 29: 98 (2001). – *Codonoboaea appressipilosa* (B.L.Burttt) D.J.Middleton
- Henckelia argentea* (B.L.Burttt) B.L.Burttt, Beitr. Biol. Pflanzen 70: 339 (1998 [‘1997’]). – *Loxocarpus argenteus* B.L.Burttt
- Henckelia aromatica* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – *Didymocarpus aromaticus* D.Don
- Henckelia ascendens* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 339 (1998 [‘1997’]). – *Codonoboaea ascendens* (Ridl.) C.L.Lim
- Henckelia atosanguinea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea atosanguinea* (Ridl.) C.L.Lim
- Henckelia auriculata* (J.M.Li & S.X.Zhu) D.J.Middleton & Mich.Möller, Taxon 60(3): 774 (2011).
- Henckelia bakoensis* (B.L.Burttt) B.L.Burttt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea bakoensis* (B.L.Burttt) A.Weber
- Henckelia bakoensis* var. *tenuior* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea bakoensis* (B.L.Burttt) A.Weber var. *tenuior* (C.B.Clarke) A.Weber
- Henckelia barbata* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). = *Liebigia speciosa* (Blume) Endl.
- Henckelia battamensis* (Ridl.) B.L.Burttt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea battamensis* (Ridl.) A.Weber
- Henckelia beccarii* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea beccarii* (C.B.Clarke) A.Weber
- Henckelia bifolia* (D.Don) A.Dietr., Sp. Pl., ed. 6, 1: 574 (1831).
- Henckelia bombycina* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea bombycina* (Ridl.) C.L.Lim
- Henckelia breviflora* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 340 (1998 [‘1997’]). – *Codonoboaea breviflora* (Ridl.) Kiew
- Henckelia briggsioides* (W.T.Wang) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia browniana* A.Weber, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Loxocarpus incanus* R.Br.
- Henckelia bullata* (C.B.Clarke) B.L.Burttt, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Codonoboaea bullata* (C.B.Clarke) A.Weber
- Henckelia burttii* D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia caelestis* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Codonoboaea caelestis* Ridl.
- Henckelia caerulea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Loxocarpus caeruleus* (Ridl.) Ridl.
- Henckelia calcarea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Codonoboaea calcarea* (Ridl.) Kiew
- Henckelia calva* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia capensis* A.Braun ex C.B.Clarke in A.DC. & C.DC., Monogr. Phan. 5(1): 151 (1883), nom. inval.

- Henckelia castaneifolia* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 341 (1998 [‘1997’]). – *Codonoboea castaneifolia* (Ridl.) Kiew
- Henckelia caulescens* (B.L.Burtt) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 342 (1998 [‘1997’]). – *Loxocarpus caulescens* B.L.Burtt
- Henckelia ceratoscyphus* (B.L.Burtt) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia cinerea* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 14 (1827). – *Didymocarpus cinereus* D.Don
- Henckelia codonion* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 342 (1998 [‘1997’]). – *Codonoboea codonion* (Kiew) C.L.Lim
- Henckelia communis* (Gardner) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia conicapsularis* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 342 (1998 [‘1997’]). – *Loxocarpus conicapsularis* (C.B.Clarke) B.L.Burtt
- Henckelia coodei* B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – *Loxocarpus coodei* (B.L.Burtt) T.L.Yao
- Henckelia corneri* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 342 (1998 [‘1997’]). – *Codonoboea corneri* (Kiew) Kiew
- Henckelia corniculata* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 18 (1827). – *Codonoboea corniculata* (Jack) D.J.Middleton
- Henckelia corrugata* Mendum, Edinburgh J. Bot. 58(3): 439 (2001). – *Codonoboea corrugata* (Mendum) D.J.Middleton
- Henckelia craspedodroma* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 342 (1998 [‘1997’]). – *Codonoboea craspedodroma* (Kiew) Kiew
- Henckelia crenata* (Baker) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Codonoboea crenata* (Baker) A.Weber
- Henckelia crinita* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 18 (1827). – *Codonoboea crinita* (Jack) C.L.Lim
- Henckelia crocea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea crocea* (Ridl.) C.L.Lim
- Henckelia curtisii* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea curtisii* (Ridl.) C.L.Lim
- Henckelia davisonii* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea davisonii* (Kiew) Kiew
- Henckelia dawnii* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea dawnii* (Kiew) Kiew
- Henckelia densifolia* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea densifolia* (Ridl.) C.L.Lim
- Henckelia dentata* (Ridl.) B.L.Burtt, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea dentata* (Ridl.) A.Weber
- Henckelia descendens* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 343 (1998 [‘1997’]). – *Codonoboea descendens* (B.L.Burtt) A.Weber
- Henckelia dibangensis* (B.L.Burtt, S.K.Srivast. & Mehrotra) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia dielsii* (Borza) D.J.Middleton & Mich.Möller, Taxon 60(5): 1525 (2011).
- Henckelia diffusa* B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – Synonym of *Loxocarpus violoides* (C.B.Clarke) T.L.Yao
- Henckelia dimidiata* (Wall. ex C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia doryphylla* (B.L.Burtt) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea doryphylla* (B.L.Burtt) C.L.Lim
- Henckelia elegans* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea elegans* (C.B.Clarke) A.Weber

- Henckelia elongata* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 18 (1827). – *Didissandra elongata* (Jack) C.B.Clarke
- Henckelia ericiflora* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea ericiflora* (Ridl.) Ridl.
- Henckelia ericii* A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Loxocarpusholtumii* M.R.Hend.
- Henckelia falcata* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea falcata* (Kiew) Kiew
- Henckelia fasciata* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea fasciata* (Ridl.) C.L.Lim
- Henckelia fasciculiflora* (W.T.Wang) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia filicalyx* B.L.Burt, Thai Forest Bull., Bot. 29: 95 (2001). – *Codonoboea filicalyx* (B.L.Burt) D.J.Middleton
- Henckelia fischeri* (Gamble) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]).
- Henckelia flava* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea flava* (Ridl.) Kiew
- Henckelia flavescens* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea flavescens* (Ridl.) Kiew
- Henckelia flavobrunnea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]). – *Codonoboea flavobrunnea* (Ridl.) Kiew
- Henckelia floccosa* (Thwaites) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 344 (1998 [‘1997’]).
- Henckelia floribunda* (M.R.Hend.) A.Weber, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]). – *Codonoboea floribunda* (M.R.Hend.) C.L.Lim
- Henckelia follicularis* (C.B.Clarke) B.L.Burt, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]). – *Codonoboea follicularis* (C.B.Clarke) A.Weber
- Henckelia forrestii* (J.Anthony) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia frutescens* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 18 (1827). – *Didissandra frutescens* (Jack) C.B.Clarke
- Henckelia fruticola* (H.W.Li) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia gambleana* (C.E.C.Fisch.) A.Weber & B.L.Burt, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]).
- Henckelia gardneri* B.L.Burt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – Synonym of *Loxocarpus repens* B.L.Burt
- Henckelia geitleri* (A.Weber) A.Weber, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]). – *Codonoboea geitleri* (A.Weber) C.L.Lim
- Henckelia glabrata* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 345 (1998 [‘1997’]). – *Codonoboea glabrata* (Ridl.) Kiew
- Henckelia gracilipes* (C.B.Clarke) B.L.Burt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Codonoboea gracilipes* (C.B.Clarke) A.Weber
- Henckelia grandiflora* (Retz.) A.Dietr., Sp. Pl., ed. 6, 1: 573 (1831). – Synonym of *Lindernia antipoda* (L.) Alston
- Henckelia grandifolia* A.Dietr., Sp. Pl., ed. 6, 1: 576 (1831).
- Henckelia heterophylla* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]). – *Codonoboea heterophylla* (Ridl.) C.L.Lim
- Henckelia heterostigma* (B.L.Burt) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia hirsuta* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]). – *Codonoboea hirsuta* (Ridl.) C.L.Lim
- Henckelia hirta* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]). – *Codonoboea hirta* (Ridl.) Kiew

- Henckelia hispida* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]). – *Codonoboea hispida* (Ridl.) Kiew
- Henckelia holttumii* (M.R.Hend.) A.Weber, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]). – *Codonoboea holttumii* (M.R.Hend.) C.L.Lim
- Henckelia hookeri* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia humboldtiana* (Gardner) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 346 (1998 [‘1997’]).
- Henckelia humilis* (Miq.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – *Codonoboea humilis* (Miq.) A.Weber
- Henckelia inaequalis* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – *Codonoboea inaequalis* (Ridl.) Kiew
- Henckelia incana* (Vahl) Spreng., Syst. Veg., ed. 16, 1: 38 (1824).
- Henckelia infundibuliformis* (W.T.Wang) D.J.Middleton & Mich.Möller, Taxon 60(3): 775 (2011).
- Henckelia innominata* (B.L.Burtt) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]).
- Henckelia insignis* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia johorica* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – *Codonoboea johorica* (Ridl.) Kiew
- Henckelia kelantanensis* Kiew, Gard. Bull. Singapore 61(1): 73 (2009). – *Codonoboea kelantanensis* (Kiew) Kiew
- Henckelia kjellbergii* B.L.Burtt, Beitr. Biol. Pflanzen 70: 378 (1998 [‘1997’]). – *Codonoboea kjellbergii* (B.L.Burtt) Karton. [Kartonegoro, 2012].
- Henckelia koerperi* (B.L.Burtt) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – *Codonoboea koerperi* (B.L.Burtt) A.Weber
- Henckelia kolokensis* B.L.Burtt, Thai Forest Bull., Bot. 29: 95 (2001). – *Codonoboea kolokensis* (B.L.Burtt) D.J.Middleton
- Henckelia kompsoboea* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 347 (1998 [‘1997’]). – *Codonoboea kompsoboea* (C.B.Clarke) A.Weber
- Henckelia lacei* (W.W.Sm.) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia lachenensis* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia lanceolata* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea lanceolata* (C.B.Clarke) A.Weber
- Henckelia lancifolia* (M.R.Hend.) A.Weber, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea lancifolia* (M.R.Hend.) C.L.Lim
- Henckelia leiophylla* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea leiophylla* (Kiew) C.L.Lim
- Henckelia leptocalyx* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea leptocalyx* (C.B.Clarke) A.Weber
- Henckelia leucantha* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea leucantha* (Kiew) Kiew
- Henckelia leucocodon* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea leucocodon* (Ridl.) Ridl.
- Henckelia lilacina* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 348 (1998 [‘1997’]). – *Codonoboea lilacina* (Ridl.) Ridl.
- Henckelia longipedicellata* (B.L.Burtt) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia longipes* (C.B.Clarke) A.Weber, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]). – *Codonoboea longipes* (C.B.Clarke) Kiew
- Henckelia longipetiolata* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]). – Synonym of *Loxocarpus stapfii* (Kraenzl.) B.L.Burtt

- Henckelia longisepala* (H.W.Li) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia lyrata* (Wight) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]).
- Henckelia macrophylla* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 14 (1827). – *Didymocarpus macrophyllus* D.Don
- Henckelia macrostachya* (E.Barnes) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]).
- Henckelia malayana* (Hook.f.) A.Weber, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]). – *Codonoboea malayana* (Hook.f.) Kiew
- Henckelia marginata* (C.B.Clarke) A.Weber, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]). – *Codonoboea marginata* (C.B.Clarke) C.L.Lim
- Henckelia meeboldii* (W.W.Sm. & Ramaswami) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 349 (1998 [‘1997’]).
- Henckelia meijeri* (B.L.Burtt) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Loxocarpus meijeri* B.L.Burtt
- Henckelia miniata* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Codonoboea miniata* (Kiew) C.L.Lim
- Henckelia minima* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – Synonym of *Loxocarpus incanus* R.Br.
- Henckelia mishmiensis* (Debb. ex Biswas) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia missionis* (Wall. ex R.Br.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]).
- Henckelia modesta* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Codonoboea modesta* (Ridl.) Kiew
- Henckelia monantha* (W.T.Wang) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia monophylla* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia moonii* (Gardner) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia murutorum* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Codonoboea murutorum* (B.L.Burtt) A.Weber
- Henckelia myricifolia* (Ridl.) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Codonoboea myricifolia* (Ridl.) A.Weber
- Henckelia nana* A.Weber, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Codonoboea pumila* (Ridl.) C.L.Lim
- Henckelia nervosa* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 350 (1998 [‘1997’]). – *Codonoboea nervosa* (C.B.Clarke) A.Weber
- Henckelia nitida* (Kiew & A.Weber) A.Weber, Beitr. Biol. Pflanzen 70: 351 (1998 [‘1997’]). – *Codonoboea nitida* (Kiew & A.Weber) Kiew
- Henckelia nivea* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 351 (1998 [‘1997’]). – *Codonoboea nivea* Kiew
- Henckelia oblonga* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – *Didymocarpus oblongus* D.Don
- Henckelia oblongifolia* (Roxb.) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia oppositifolia* (Retz.) A.Dietr., Sp. Pl., ed. 6, 1: 572 (1831). – Synonym of *Lindernia hyssopioides* (L.) Haines
- Henckelia ovalifolia* (Wight) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 351 (1998 [‘1997’]).
- Henckelia pagonensis* B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 437 (1996). – *Codonoboea pagonensis* (B.L.Burtt) A.Weber
- Henckelia papillosa* (M.R.Hend.) A.Weber, Beitr. Biol. Pflanzen 70: 351 (1998 [‘1997’]). Notes: Banka & Kiew (2009) and Yao (2012) excluded *Henckelia papillosa* from *Loxocarpus* and said its affinities are with the species now placed in *Codonoboea*. However, Kiew & Lim



- (2011) did not refer to the species in their *Codonoboea* paper. The status of the name, therefore, remains uncertain.
- Henckelia parviflora* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 352 (1998 [‘1997’]). – *Codonoboea parviflora* (Ridl.) Kiew
- Henckelia pausziana* Kiew, Gard. Bull. Singapore 61(1): 74 (2009). – *Codonoboea pausziana* (Kiew) Kiew
- Henckelia pectinata* (Oliv.) A.Weber, Beitr. Biol. Pflanzen 70: 352 (1998 [‘1997’]). – *Codonoboea pectinata* (Oliv.) Kiew
- Henckelia peduncularis* (B.L.Burtt) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia petiolaris* (C.B.Clarke) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – Synonym of *Loxocarpus verbeniflos* (C.B.Clarke) B.L.Burtt
- Henckelia platypus* (C.B.Clarke) A.Weber, Beitr. Biol. Pflanzen 70: 352 (1998 [‘1997’]). – *Codonoboea platypus* (C.B.Clarke) C.L.Lim
- Henckelia pleuropogon* (B.L.Burtt) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Codonoboea pleuropogon* (B.L.Burtt) A.Weber
- Henckelia plicata* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 14 (1827). – Synonym of *Didymocarpus macrophyllus* D.Don
- Henckelia polyanthoides* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 352 (1998 [‘1997’]). – *Codonoboea polyanthoides* (Kiew) C.L.Lim
- Henckelia porphyrea* B.L.Burtt, Thai Forest Bull., Bot. 29: 96 (2001). – *Codonoboea porphyrea* (B.L.Burtt) D.J.Middleton
- Henckelia primulacea* (C.B.Clarke) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia primulifolia* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 14 (1827). – *Didymocarpus primulifolius* D.Don
- Henckelia primulina* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 352 (1998 [‘1997’]). – *Codonoboea primulina* (Ridl.) Kiew
- Henckelia procumbens* B.L.Burtt, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Loxocarpus repens* B.L.Burtt
- Henckelia puerensis* (Y.Y.Qian) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia pulchella* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea pulchella* (Ridl.) C.L.Lim
- Henckelia pumila* (D.Don) A.Dietr., Sp. Pl., ed. 6, 1: 574 (1831).
- Henckelia punctata* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea punctata* (C.B.Clarke) A.Weber
- Henckelia puncticulata* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea puncticulata* (Ridl.) C.L.Lim
- Henckelia pycnantha* (W.T.Wang) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia pyroliflora* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea pyroliflora* (Ridl.) Kiew
- Henckelia quinquevulnera* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea quinquevulnera* (Ridl.) C.L.Lim
- Henckelia racemosa* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – *Codonoboea racemosa* (Jack) A.Weber
- Henckelia ramosa* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 353 (1998 [‘1997’]). – *Codonoboea ramosa* (Ridl.) Kiew
- Henckelia repens* (Bedd.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]).
- Henckelia reptans* (Jack) Spreng., Syst. Veg., ed. 16, 4(2): 14 (1827). – *Codonoboea reptans* (Jack) C.L.Lim
- Henckelia reptans* var. *monticola* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]). – *Codonoboea reptans* var. *monticola* (Ridl.) C.L.Lim

- Henckelia reticulosa* (C.B.Clarke) A.Weber, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]).  
– *Codonoboea reticulosa* (C.B.Clarke) A.Weber
- Henckelia rexii* (Hook.) Heynh., Nomencl. Bot. Hort. 1: 390 (1840). – *Streptocarpus rexii* (Hook.) Lindl.
- Henckelia ridleyana* A.Weber, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]). – *Codonoboea ridleyana* (B.L.Burtt) Kiew
- Henckelia robinsonii* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 354 (1998 [‘1997’]). – *Codonoboea robinsonii* (Ridl.) Kiew
- Henckelia rotundata* (Barnett) D.J.Middleton & Mich.Möller, **comb. nov.** – *Chirita rotundata* Barnett, Nat. Hist. Bull. Siam Soc. 20: 16 (1961). – Type: Thailand, Chiang Mai, Me Chem, 11 vii 1922, Kerr 6274 (lecto K, designated by Barnett (1961b); iso ABD, BKF, BM). This combination was included in Weber *et al.* (2011a) but the basionym was cited as having been published in Barnett (1961b) rather than the slightly earlier Barnett (1961a).
- Henckelia roxburghiana* A.Dietr., Sp. Pl., ed. 6, 1: 572 (1831). – Synonym of *Lindernia ruelioides* (Colsm.) Pennell
- Henckelia rubiginosa* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]). – *Codonoboea rubiginosa* (Ridl.) C.L.Lim
- Henckelia rufescens* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]).  
– *Loxocarpus rufescens* (C.B.Clarke) B.L.Burtt
- Henckelia rugosa* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]). – *Codonoboea rugosa* (Ridl.) C.L.Lim
- Henckelia salicina* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]). – *Codonoboea salicina* (Ridl.) C.L.Lim
- Henckelia salicinoides* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]).  
– *Codonoboea salicinoides* (Kiew) C.L.Lim
- Henckelia scabrinervia* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 355 (1998 [‘1997’]).  
– *Codonoboea scabrinervia* (C.B.Clarke) A.Weber
- Henckelia scortechinii* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – The current status of this name is unknown (see Kiew & Lim (2011) for further discussion)
- Henckelia sekayuensis* Banka & Kiew, Edinburgh J. Bot. 66(2): 254 (2009). – *Loxocarpus incanus* var. *sekayuensis* (Banka & Kiew) T.L.Yao
- Henckelia semitorta* (C.B.Clarke) A.Weber, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]).  
– *Loxocarpus semitortus* (C.B.Clarke) Ridl.
- Henckelia sericea* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – *Loxocarpus sericeus* (Ridl.) B.L.Burtt
- Henckelia sericiflava* Kiew & Banka, Edinburgh J. Bot. 66(2): 256 (2009). – *Loxocarpus sericiflavus* (Kiew & Banka) T.L.Yao
- Henckelia serrata* (R.Br.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]).  
– *Codonoboea serrata* (R.Br.) A.Weber
- Henckelia serratifolia* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – *Codonoboea serratifolia* (Ridl.) Kiew
- Henckelia shuii* (Z.Yu Li) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia simplex* (Kraenzl.) B.L.Burtt, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – *Codonoboea simplex* (Kraenzl.) A.Weber
- Henckelia smitinandii* (B.L.Burtt) D.J.Middleton & Mich.Möller, Taxon 60(3): 776 (2011).
- Henckelia soldanella* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – *Codonoboea soldanella* (Ridl.) C.L.Lim
- Henckelia speciosa* (Kurz) D.J.Middleton & Mich.Möller, Taxon 60(3): 777 (2011).
- Henckelia stapfii* (Kraenzl.) B.L.Burtt, Beitr. Biol. Pflanzen 70: 356 (1998 [‘1997’]). – *Loxocarpus stapfii* (Kraenzl.) B.L.Burtt

- Henckelia stenophylla* A.Weber, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Loxocarpus angustifolius* Ridl.
- Henckelia stolonifera* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Codonoboea stolonifera* (Kiew) Kiew
- Henckelia taeniophylla* B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Loxocarpus taeniophyllus* (B.L.Burtt) T.L.Yao
- Henckelia tahanica* (B.L.Burtt) A.Weber, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Codonoboea grandifolia* (Ridl.) Kiew
- Henckelia teres* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Codonoboea teres* (C.B.Clarke) A.Weber
- Henckelia tibetica* (Franch.) D.J.Middleton & Mich.Möller, Taxon 60(3): 777 (2011).
- Henckelia tiumanica* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Codonoboea tiumanica* (Ridl.) C.L.Lim
- Henckelia tunkui* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 357 (1998 [‘1997’]). – *Loxocarpus tunkui* Kiew
- Henckelia urticifolia* (D.Don) A.Dietr., Sp. Pl., ed. 6, 1: 574 (1831).
- Henckelia urticoides* A.Weber, Beitr. Biol. Pflanzen 70: 358 (1998 [‘1997’]). – *Codonoboea urticoides* (A.Weber) Kiew
- Henckelia venusta* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 358 (1998 [‘1997’]). – *Codonoboea venusta* (Ridl.) Kiew
- Henckelia verbeniflos* (C.B.Clarke) B.L.Burtt, Beitr. Biol. Pflanzen 70: 358 (1998 [‘1997’]). – *Loxocarpus verbeniflos* (C.B.Clarke) B.L.Burtt
- Henckelia villosa* (D.Don) Spreng., Syst. Veg., ed. 16, 4(2): 13 (1827). – *Didymocarpus villosus* D.Don
- Henckelia violoides* (C.B.Clarke) B.L.Burtt in Coode et al., Checkl. Fl. Pl. Gymnosperms Brunei Darussalam 438 (1996). – *Loxocarpus violoides* (C.B.Clarke) T.L.Yao
- Henckelia virginea* (B.L.Burtt) B.L.Burtt, Beitr. Biol. Pflanzen 70: 358 (1998 [‘1997’]). – *Codonoboea virginea* (B.L.Burtt) A.Weber
- Henckelia viscida* (Ridl.) A.Weber, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – *Codonoboea viscida* (Ridl.) Kiew
- Henckelia vulcanica* (Ridl.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – *Codonoboea vulcanica* (Ridl.) A.Weber
- Henckelia walkerae* (Gardner) D.J.Middleton & Mich.Möller, Taxon 60(3): 777 (2011).
- Henckelia wallichiana* A.Dietr., Sp. Pl., ed. 6, 1: 574 (1831). – Synonym of *Henckelia urticifolia* (D.Don.) A.Dietr.
- Henckelia wightii* (C.B.Clarke) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]).
- Henckelia woodii* (Merr.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – *Codonoboea woodii* (Merr.) A.Weber
- Henckelia yongii* (Kiew) A.Weber, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]). – *Codonoboea yongii* (Kiew) C.L.Lim
- Henckelia zeylanica* (R.Br.) A.Weber & B.L.Burtt, Beitr. Biol. Pflanzen 70: 359 (1998 [‘1997’]).

## APPENDIX 2

*A new combination in Oreocharis*

Many new combinations in *Oreocharis* were published by Möller *et al.* (2011b). It has come to our attention that the combination *Oreocharis muscicola* in that paper was not validly made. We validate it here.

***Oreocharis muscicola*** (Diels) Mich.Möller & A.Weber, **comb. nov.** – *Didissandra muscicola* Diels, Notes Roy. Bot. Gard. Edinburgh 5: 225 (1912). – *Briggsia muscicola* (Diels) Craib, Notes Roy. Bot. Gard. Edinburgh 11: 264 (1919). – Type: China, Yunnan, Mekong-Salwin [Salween] divide, vii 1905, *Forrest* 5095 (holo E). – Distribution: SW China, Bhutan, NE India, Burma.