Typification of *Bauhinia touranensis* (Leguminosae: Cercidoideae)

S. Bandyopadhyay

Botanical Survey of India, Central National Herbarium, Howrah 711103, West Bengal, India subirbandyopadhyay@yahoo.com

ABSTRACT. A second-step lectotype and an epitype are designated here for *Bauhinia touranensis* Gagnep., now *Cheniella touranensis* (Gagnep.) R.Clark & Mackinder.

Keywords. Cheniella, typification

Introduction

In the protologue of *Bauhinia touranensis*, Gagnepain (1912) cited 'Annam: Tourane, janvier 1837, n° 260 [Gaudichaud]; n° 494 [d'Alleizette]. – Tonkin: environs de Tuphap, n°s 2133, 2134; baie d'Along, n° 1286 [Balansa]; environs de Ninh-binh, n°s 2513, 2607, 6193 [Bon]'. Clark & Mackinder in Clark et al. (2017) designated 'Tonkin, environs de Tu-Phap, Fev. 1887, B. Balansa 2133 (P00798502)' as the lectotype of Bauhinia touranensis. They appear to have overlooked Larsen & Larsen (1980) where 'TYPE: Gaudichaud 260, P' is cited, which must be accepted as an effective lectotypification under Art. 7.11 of the ICN (Turland et al., 2018). The lectotypification by Clark & Mackinder in Clark et al. (2017) is, therefore, superfluous. The two specimens of Gaudichaud 260 at P, P00798501 and P02088523, only have leaves and immature inflorescences. Larsen & Larsen (1980) did not annotate either of these specimens as the lectotype. Although P00798501 was annotated in 1973 by Larsen & Larsen, they may also have seen P02088523. Of the two specimens of Gaudichaud 260 seen, I propose a second-step lectotype designation of Bauhinia touranensis by choosing P02088523 because this specimen has a comparatively more mature inflorescence than P00798501. However, in my opinion, Bauhinia touranensis cannot be unambiguously identified by either of the two specimens of Gaudichaud 260 at P as a fully developed inflorescence in addition to the leaves is necessary. Designation of an epiptype is, therefore, desirable for which the specimen incorrectly designated lectotype by Clark & Mackinder in Clark et al. (2017) is suitable.

Cheniella touranensis (Gagnep.) R.Clark & Mackinder, Eur. J. Taxon. 360: 18 (2017). – *Bauhinia touranensis* Gagnep. in Notul. Syst. (Paris) 2(6): 181 (1912). –TYPE: Cochinchine, Tourane, January 1837, *Gaudichaud 260* (lectotype P [P00798501], first

step designated by Larsen & Larsen (1980), second step designated here; isolectotype P [P02088523]). Tonkin, environs de Tu-Phap, February 1887, *Balansa 2133* (epitype P [P00798502], designated here; isoepitype P [P00798503]).

Distribution. China, India, Myanmar, Laos and Vietnam.

Notes. Clark & Mackinder in Clark et al. (2017) stated that the receptacle is distinctly inflated at base but it is not so in the type specimens of *Bauhinia touranensis* cited by them at P and K. However, in the Chinese specimens of this species the receptacle is distinctly inflated on one side at base as can be clearly seen in the type material of *Bauhinia genuflexa* Craib (China, Kwangsi, Lung chow, Sim Kee Gorge, March 1897, H.B. Morse 408 (K [K000760702, K000760701])) and *Bauhinia henryi* Craib (China, Yunnan, Manpan, Red River Valley, 1500', A. Henry 10175 (K [K00076070])) which are treated as synonyms of *Cheniella touranensis*. This species is variable in this morphological characteristic.

Clark & Mackinder in Clark et al. (2017) transferred *Bauhinia touranensis* to the genus *Cheniella* R.Clark & Mackinder, the type of which was cited as '*Bauhinia corymbosa* Roxb., *Flora Indica* 2: 329 (Roxburgh, 1832)' but this name is a later isonym of *B. corymbosa* Roxb. ex DC. (Candolle, 1825). The generic name *Cheniella* is nevertheless validly published under Articles 40.3 and 41.8(a) of the ICN (Turland et al., 2018).

ACKNOWLEDGEMENTS. I thank Dr Paramjit Singh, Director, Botanical Survey of India, Kolkata and Dr P.V. Prasanna, Scientist 'F', Central National Herbarium, Howrah for the use of their facilities. My sincere thanks to Dr J.M. McNeill (E), N.J. Turland (B) and Dr Avishek Bhattacharjee (CAL) for their views on typification. Dr Odile Poncy (P) kindly confirmed that there are no other specimens of Gaudichaud 260 at P other than those available on the web. The suggestions of the two anonymous reviewers helped to improve the manuscript. I also thank Dr D.J. Middleton (SING) for refining the manuscript.

References

- Candolle, A.P. de (1825). *Bauhinia. Prodromus Systematis Naturalis Regni Vegetabilis*, vol. 2, pp. 512–518. Parisiis: Sumptibus Sociorum Treuttel et Würtz.
- Clark, R.P., Mackinder, B.A. & Banks, H. (2017). *Cheniella* gen. nov. (Leguminosae: Cercidoideae) from southern China, Indochina and Malesia. *Eur. J. Taxon.* 360: 1–37.
- Gagnepain, F. (1912). Bauhinia nouveaux d'Extrême-Orient. Notul. Syst. (Paris) 2(6): 168–182.
- Larsen, K. & Larsen, S. S. (1980). *Bauhinia*. In: Aubréville, A. & Leroy, J.-F. (eds) *Flore du Cambodge du Laos et du Viêtnam*, vol. 18, pp. 146–210. Paris: Museum National d'Histoire Naturelle.
- Roxburgh, W. (1832). Bauhinia. In Carey, W. (ed.) Flora Indica, vol. 2, pp. 318–332. Serampore.

Turland, N.J., Wiersema, J.H., Barrie, F.R., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Kusber, W.-H., Li, D.-Z., Marhold, K., May, T.W., McNeill, J., Monro, A.M., Prado, J., Price, M.J. & Smith, G.F. (2018). *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code). Regnum Vegetabile*, vol. 159. Glashütten: Koeltz Botanical Books.