TWO NEW COMBINATIONS IN THE GENUS CHIONANTHUS L. (OLEACEAE)

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The genus *Chionanthus* L. is distributed in tropical and subtropical regions of America, Africa, Asia and Australia, and is represented by 80 species (Mabberley, 2008). Indeed, the species number of this genus increased considerably by the merger of the genus *Linociera* Swartz, based on the survey of morphological and palynological characters by Stearn (1976). Later, Chang *et al.* (1996) in Flora of China accepted the reduction of *Linociera* with *Chionanthus* although the former are deciduous and found in temperate Asia and North America and the later are evergreen and pantropical.

In Vietnam, the genus *Chionanthus s.l.* is represented by 15 species (Ho, 2000; Ly, 2003). Though most of the species described under the genus *Linociera* were found to be transferred to *Chionanthus*, two species *Linociera robinsonii* Gagnep. and *L. subcapitata* Merr. described in the year 1933 and 1942 respectively from Indo-China (Vietnam) are yet to be transferred formally, which necessitates the following new combinations.

Chionanthus robinsonii (Gagnep.) B.H. Quang, comb. nov.

Basionym: Linociera robinsonii Gagnep. Bull. Soc. Bot. France 79: 787 (1933).

Type: Vietnam. Nha Trang and vicinity: (Amamite) Yacnai, Small tree at 100 m elevation, 11 March 2011, *C.B. Robinson* 1419 (*Holotype*: P-Photo!).

Notes: Chionanthus robinsonii is endemic to Vietnam and needs utmost attention for conservation.

Chionanthus subcapitata (Merr.) B.H. Quang, comb. nov.

Basionym: Linociera subcapitata Merr., J. Arnold Arbor. 23: 189 (1942).

Type: Vietnam. Ven 1200 m (Mau Son) Province de Lang Son Tonkin, 1925, A. Ptelot 1720 (Holotype: K-Photo!; Isotype: VNM!).

Notes: Chionanthus subcapitata is also endemic to Vietnam and scarcely distributed throughout its altitudinal limits. More floristic surveys are required to know its real population status.

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References

Chang, M.C., Qui, L.Q., Wei, Z. and Green, P.S. 1996. Oleaceae. *In*: Wu, Z. and Raven, P.H. (Eds), Flora of China, Vol. **15**. Science Press, Beijing, China and Missouri Botanical Garden, Missouri, USA, pp. 272-319.

Ho, P.H. 2000. Oleaceae. *In*: An illustrated flora of Vietnam. Vol. 2. Mekong Press, Montreal, pp. 883-886.Mabberley, D.J. 2008. Mabberley's Plant-book: a portable dictionary of plants, their classification and uses. Cambridge University Press, England, 1004 pp.

Ly, T.D. 2003. Checklist of Plant Species of Vietnam, Vol. 2. Agricultural Publishing House, Hanoi, 1169 pp. Stearn, W.T. 1976. Union of *Chionanthus* and *Linociera* (Oleaceae). Ann. Miss. Bot. Gard. **63**(2): 355-357.

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