



## Lectotypification of five species in *Impatiens* (Balsaminaceae)

DURGESH VERMA

Botanical Survey of India, Eastern Regional Centre, Shillong—793003, Meghalaya, India

E-mail: [durgesh.kv@gmail.com](mailto:durgesh.kv@gmail.com)

### Abstract

Five species of *Impatiens* Linnaeus (Balsaminaceae) from China namely *I. monticola* J.D. Hooker, *I. pudica* J.D. Hooker, *I. sigmoidea* J.D. Hooker, *I. soulieana* J.D. Hooker and *I. trigonosepala* J.D. Hooker are lectotypified.

### Introduction

The family Balsaminaceae comprises about 1000 species under two genera, viz. *Hydrocera* Blume ex Wight & Arnott (1834: 140) and *Impatiens* Linnaeus (1753: 937) (Mabberley 2008). The genus *Hydrocera* is monotypic, and all other species belong to *Impatiens* which is primarily an Old World genus distributed throughout much of tropical Africa, India, Southeast Asia and Japan (Grey-Wilson 1980). While identifying some species of the genus *Impatiens* collected in different parts of North-East India, the author came across some species described by J.D. Hooker (1908) from China that still remain untypified and are typified here.

### Material and methods

Digital images of authentic herbarium specimens, especially types, deposited at Herbarium of Harvard University Cambridge (A), Royal Botanic Garden Edinburgh (E), Royal Botanic Gardens Kew (K) and Muséum National d'Histoire Naturelle Paris (P) were consulted. The protologue of all five species were examined, mainly taking into consideration: specimen characteristics which match those in the protologue, date and locality of collection cited in the original description, and all handwritings on the labels (in italics).

### Taxonomy

#### 1. *Impatiens monticola* J.D. Hooker (1908: 257–258)

**Types:**—CHINA. Sichuan: Mt Omei, *s.d.*, *Faber 863* (lectotype designated here: K000199719, image!); Mt Omei, July 1904, *Wilson 4735* (syntypes K000199718, image!, P00492344, image!).

**Notes:**—While describing *Impatiens monticola*, Hooker cited two collections from Mount Omei (Western China), *E. Faber 863* and *E.H. Wilson 4735*. From the collection of E. Faber a single specimen could be located, whilst from the collection of E. H. Wilson, two specimens are available (each at K and P) for lectotypification. Faber's collection at K with barcode no. K000199719 is designated here as lectotype, bears mature plant with leaves, buds, flowers and dissected floral parts pasted on a piece of paper, Hooker's annotation as "*I. monticola* Hf." and "Nerves of leaf 5–6 pairs", illustration accompanied by his determination.