

Lectotypification of *Abies fanjingshanensis* (Pinaceae)

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Academic editor: D. Stevenson | Received 26 February 2020 | Accepted 28 May 2020 | Published 7 July 2020

Citation: Yang Y, Rushforth K (2020) Lectotypification of *Abies fanjingshanensis* (Pinaceae). PhytoKeys 152: 105–110. <https://doi.org/10.3897/phytokeys.152.51494>

Abstract

The type collection of *Abies fanjingshanensis* W.L.Huang et al. contains four specimens in the Herbarium (GNUG). *Abies fanjingshanensis* is lectotypified here with *L. Yang* 83-427 (GNUG0002022) under Art. 9.12 of the *Shenzhen Code*.

Keywords

Abies fanjingshanensis, China, gymnosperms, lectotypification, *Shenzhen Code*

Introduction

Abies fanjingshanensis W.L.Huang et al. of the Pinaceae is endemic to Fanjing Shan of Guizhou of south-western China (Huang et al. 1984; Fu et al. 1999). The type of the specific name is not clearly indicated. Huang et al. (1984) designated *L. Yang* 83-427 (GNUG) as the type in the protologue. We found four specimens with the same collection number in GNUG, two of them [GNUG0002022 (Fig. 1) and GNUG0002122] are marked with “*L. Yang* (杨龙)” as the collector, the third one (GNUG0002123, Fig. 2) is marked with “*Y.L. Tu* (屠玉麟)” as the collector and the fourth one (GNUG0000428, Fig. 3) has no collector. All four specimens were identified as *Abies fanjingshanensis* and they match the characters of the species. It is reasonable to consider that *L. Yang* and *Y.L. Tu* are two collectors of a team because all four specimens were collected from the same locality *Fanjing Shan* on the same day 2 Nov 1983 and the two collectors are also the co-authors of the paper describing the new



Figure 1. Lectotype of *Abies fanjingshanensis* (GNUG0002022), labelled with “L. Yang (杨龙)” as the collector.



Figure 2. Isolectotype of *Abies fanjingshanensis* (GNUG0002123), labelled with “Y.L. Tu (屠玉麟)” as the collector.



Figure 3. Isolectotype of (GNUG0000428), no collector is indicated on the collection label.

species. They may have collected the specimens together and gave the same number of the collection 83-427, though they wrote different collector names on the collection notes. None of the four specimens is marked with “type” or equivalent words in Chinese. As a result, the type of *Abies fanjingshanensis* is not clearly indicated according to the existing original materials and we consider that the four specimens are the syntypes (Art. 9.5, Turland et al. 2018). Amongst the four specimens, two specimens are preserved with vegetative shoots having one or a few detached seed scales; one specimen (GNUG0000428) is a reproductive shoot having partially disintegrated female cones; and one specimen (GNUG0002022) is well preserved with a reproductive shoot having a good female cone. Thus GNUG0002022 is the most representative specimen and is one of the two annotated *L. Yang* 83-427. Accordingly, we designate it as the lectotype of *Abies fanjingshanensis* here under Art. 9.12 (Turland et al. 2018).

Typification

Abies fanjingshanensis W.L.Huang et al., *Acta Phytotax. Sin.* 22(2): 154 (1984)

≡ *Abies fargesii* var. *fanjingshanensis* (W.L.Huang et al.) Silba, *Phytologia* 68(1): 15 (1990).

Type. China. Guizhou (贵州): Jiangkou (江口), Fanjing Shan (梵净山), northern slope along mountain ridge, alt. 2300 m, 2 Nov 1983, *L. Yang* (杨龙) 83-427 (lectotype, designated here: GNUG0002022; isolectotypes: GNUG0000428, GNUG0002123, GNUG0002122, PE00000459).

Note. We found one specimen photo of the type collection *L. Yang* 83-427 (PE00000459) in the Herbarium PE identified as *Abies fanjingshanensis* and labelled with “Isotypus” by L.K.Fu on 31 Jan 1989. We consider this specimen as the isolectotype.

Acknowledgements

Images of the type collection of *Abies fanjingshanensis* were obtained from the Chinese Virtual Herbarium (CVH, <http://www.cvh.ac.cn/>). This work was supported by the National Natural Science Foundation of China [31970205 & 31770211].

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