



## Notes on Early Land Plants Today. 47. Transfer of *Iwatsukia* to *Odontoschisma* (Cephaloziaceae, Marchantiophyta)

S. ROBBERT GRADSTEIN<sup>1</sup>, SILVIA CALVO ARANDA<sup>2</sup> & ALAIN VANDERPOORTEN<sup>3</sup>

<sup>1</sup>Muséum National d'Histoire Naturelle, Dept. Systématique et Evolution, Case Postale 39, 57 rue Cuvier, 75231 Paris cedex 05, France; [gradstein@mnhn.fr](mailto:gradstein@mnhn.fr)

<sup>2</sup>Dept. Biogeografía y Cambio Global, Museo Nacional de Ciencias Naturales, Calle José Gutiérrez Abascal, 228006 Madrid, Spain; [silviac@mncn.csic.es](mailto:silviac@mncn.csic.es)

<sup>3</sup>Institute of Botany, University of Liège, B22 Sart Tilman, 4000 Liège, Belgium; [a.vanderpoorten@ulg.ac.be](mailto:a.vanderpoorten@ulg.ac.be)

The genus *Iwatsukia* (Cephaloziaceae) is a small tropical liverwort genus of 4 species, *Iwatsukia exigua* from Sabah and New Guinea, *Iwatsukia bifida* from Venezuela and Costa Rica, the pantropical *Iwatsukia jishibae*, and *Iwatsukia spinosa* from Venezuela (Schuster 1968, 2002). Vilnet *et al.* (2012) showed that *Iwatsukia jishibae* is nested in *Odontoschisma* (Dumortier 1831: 68) Dumortier (1835: 19) and Váňa *et al.* (2013) made the necessary nomenclatural transfer. In the framework of a phylogenetic and taxonomic study of *Odontoschisma* and related genera which is in preparation, we were able to confirm the position of *Iwatsukia jishibae* in *Odontoschisma*. In addition, we found that *Iwatsukia bifida* is nested in *Odontoschisma*, forming a separate lineage within the genus together with *Iwatsukia jishibae*. We also found that *Iwatsukia exigua*, the type species of *Iwatsukia*, is a synonym of *Iwatsukia jishibae*. We therefore transfer the genus *Iwatsukia* to *Odontoschisma*.

### Formal treatment

*Odontoschisma* (Dumort.) Dumort. **sect. *Iwatsukia*** (N.Kitag.) Gradst., Aranda & Vanderp., **comb. nov.** Basionym:—*Iwatsukia* N.Kitag., *J. Hattori Bot. Lab.* 27: 178, 1964 (Kitagawa 1964). Type:—*Iwatsukia exigua* N.Kitag.

*Odontoschisma jishibae* (Steph.) L.Söderstr. et Váňa, *Phytotaxa* 112: 13, 2013 (Váňa *et al.* 2013). Basionym:—*Cephalozia jishibae* Steph., *Sp. Hepat. (Stephani)* 6: 437, 1924 (Stephani 1924). Type:—JAPAN. Shinano, Mt. Yaku, *Jishiba* 203 (lectotype [designated by Grolle 1965] G-00061127, isolectotype JE!) ≡ *Iwatsukia jishibae* (Steph.) N.Kitag., *Acta Phytotax. Geobot.* 21: 114, 1965 (Kitagawa 1965).

= *Iwatsukia exigua* N.Kitag., *J. Hattori Bot. Lab.* 27: 178, 1964 (Kitagawa 1964), **syn. nov.** Type:—SABAH. S slope of Mt. Kinabalu below Paca Cave, *Iwatsuki* 1070 (holotype NICH!; isotype JE!).

*Odontoschisma bifidum* (Fulford) Gradst., Aranda & Vanderp., **comb. nov.** Basionym:—*Cladomastigum bifidum* Fulford, *Acta Bot. Venez.* 2: 80, 1967 (Fulford 1967). Type:—VENEZUELA. Bolivar, Auyan-tepui, along Río Churún, *Steiermark* 93300 (holotype NY 713605!) ≡ *Iwatsukia bifida* (Fulford) R.M.Schust., *Bull. Nat. Sci. Mus. Tokyo* 11: 314, 1968 (Schuster 1968).

*Odontoschisma spinosum* (Fulford) Gradst., Aranda & Vanderp., **comb. nov.** Basionym:—*Cladomastigum spinosum* Fulford, *Mem. N.Y. Bot. Gard.* 23: 840, 1972 (Fulford 1972). Type:—VENEZUELA. Bolivar, summit of Meseta de Jáua, *Steiermark* 98009 (holotype CINC) ≡ *Iwatsukia spinosa* (Fulford) R.M.Schust., *Trop. Bryol.* 2: 249, 1990 (Schuster 1990).

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