



New typifications and synonyms in *Senecio* ser. *Culcitium* and related taxa (Asteraceae, Senecioneae)

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Abstract

Seven lectotypes and three neotypes are designated for ten names applicable to species of *Senecio* sect. *Senecio* ser. *Culcitium*. Our results show that *Senecio culcitenellus* and *S. vaginifolius* are conspecific with *S. magellanicus*, while *S. roripifolius* is considered a synonym of *S. aspleniifolius*.

Key words: *Aetheolaena*, Compositae, *Lasiocephalus*, lectotypes, neotypes, nomenclature, *Senecio*, synonymy

Introduction

Senecio L. (1753: 866) ser. *Culcitium* (Humboldt & Bonpland 1808: 1) Cabrera (1985: 112) is a South American group containing ca. 40 species characterized by discoid and usually nodding capitula with large calycular bracts, giving the involucre the appearance of being composed of multiple series of phyllaries. Pelsner *et al.* (2007) demonstrated that *S.* ser. *Culcitium*, in the sense as it has been treated in recent years (e.g. Cabrera 1949, 1985, Cabrera *et al.* 1999, Cuatrecasas 1978), is polyphyletic and that this series and two Andean genera from South America, *Lasiocephalus* Schlechtendal (1818: 308) and *Aetheolaena* Cassini (1827: 453), both including 2 (or 3), and ca. 15 species, respectively (Nordenstam 2007), are deeply nested within *Senecio* and therefore have been subsumed under that genus (Nordenstam *et al.* 2009, Pelsner *et al.* 2010).

Two species names have been typified so far in *Senecio* ser. *Culcitium*: *S. magellanicus* Hooker & Arnott (1841: 343) by Porter (1999), and *S. gilliesii* Hooker & Arnott (1841: 43) by Tortosa & Bártoli (2010).

During a revision of *Senecio* ser. *Culcitium*, we have studied the nomenclatural types of South American species transferred by Cuatrecasas from *Culcitium* Humboldt & Bonpland (1808: 1) to *Senecio* (Cuatrecasas 1950, 1951), treated by Cabrera as members of *S.* ser. *Culcitium* (Cabrera 1949, Cabrera *et al.* 1999) and *S.* sect. *Aetheolaena* Hoffmann (1892: 301) (Cabrera 1985), and considered by Nordenstam (1978, 2007) as members of the genera *Aetheolaena* and *Lasiocephalus*. We have also studied types of the names treated by Cuatrecasas (1978) as referable to *Lasiocephalus*.

The aims of this study were to typify several names, for which no types had been designated previously or type material had been destroyed, and to propose synonymy for two species of *Senecio*.

Materials and Methods

Digital images of the type specimens at BR, G, GOET, W were requested and studied. We also examined type specimens from K, F, E, P, NY, G, HAL, US, CODR, GH at the website of JSTOR (<http://plants.jstor.org>). To designate neotypes we considered digital images at CUZ and USM, as well as collections at LP and SI, which contain relevant South American collections. Herbarium acronyms follow Thiers (2013).

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