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Elucidating the controversial *Drosera montana* complex (Droseraceae): a taxonomic revision

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Abstract

The species of the affinity of *Drosera montana* (Droseraceae) are reviewed taxonomically and the complex is redefined to include only *D. montana*, *D. tentaculata*, *D. tomentosa* var. *tomentosa*, *D. tomentosa* var. *glabrata*, and *D. spirocalyx*. The latter is a newly described narrow endemic species from the Serra do Cipó in central Minas Gerais state, Brazil. The morphological characters distinguishing these five taxa from each other and from other similar species are discussed together with habitat and ecological information. Detailed illustrations, photographs, distribution maps and an identification key are provided. A lectotype for *D. tomentosa* is here designated.

Keywords: Brazil, carnivorous plants, *Drosera tentaculata*, *Drosera tomentosa*, *Drosera tomentosa* var. *glabrata*, *Drosera spirocalyx*, ecology, morphology, new species, lectotypification, taxonomy

Resumo

As espécies do complexo *Drosera montana* (Droseraceae) são revistas taxonomicamente e o complexo é redefinido, passando a incluir apenas *D. montana*, *D. tentaculata*, *D. tomentosa* var. *tomentosa*, *D. tomentosa* var. *glabrata* e *D. spirocalyx*. A última é uma espécie aqui descrita pela primeira vez, sendo endêmica da Serra do Cipó, região central de Minas Gerais, Brasil. Os caracteres morfológicos distinguindo estes cinco táxons entre si e de outras espécies similares são discutidos junto a informações sobre habitat e ecologia. Ilustrações detalhadas, fotografias, mapas de distribuição e uma chave são apresentados. Um lectótipo de *D. tomentosa* é aqui designado.

Palavras-chave: Brasil, *Drosera tentaculata*, *Drosera tomentosa*, *Drosera tomentosa* var. *glabrata*, *Drosera spirocalyx*, ecologia, morfologia, novas espécies, lectotipificação, plantas carnívoras, taxonomia

Introduction

The species complex of the *Drosera montana* Saint-Hilaire (1826: 260) affinity currently comprises a confusing list of 16 names proposed over nearly 200 years of taxonomic research on the genus *Drosera* in Brazil. This was initiated by the French naturalist Auguste de Saint-Hilaire (1824, 1826) who described the first Brazilian *Drosera* taxa. Since then, most botanists have applied a rather expansive taxonomic circumscription of *D. montana*, resulting in a classification that synonymized under this taxon several previously segregated species (e.g. Diels 1906, Correa & Silva 2005). The history of taxa associated with the *D. montana* complex is summarized below:

- Saint-Hilaire (1826) described *D. montana*, *D. parvifolia* Saint-Hilaire (1826: 263), *D. tomentosa* Saint-Hilaire (1826: 261) var. *tomentosa*, *D. tomentosa* var. *glabrata* Saint-Hilaire (1826: 262), *D. hirtella* Saint-Hilaire (1826: 262) var. *hirtella*, and *D. hirtella* var. *lutescens* Saint-Hilaire (1826: 263), together with six other *Drosera* taxa of different affinities (see Gonella *et al.* 2012, 2014).

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