

A taxonomic revision of the South African endemic genus *Dasispermum* (Apiaceae, Apioideae)

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Abstract

A taxonomic revision of the recircumscribed South African endemic genus *Dasispermum* Raf. is presented, including keys to the species, complete nomenclature, typifications, descriptions, and geographical distributions. In addition, two new species, *D. grandicarpum* Magee & B.-E. van Wyk and *D. perennans* Magee & B.-E. van Wyk, are described. Seven species of *D. Dasispermum* are now recognised and can be distinguished from one another by their habit (life history and growth form), leaf morphology (leaf texture, leaf colour and width of the ultimate leaflet segments), inflorescence structure (length of the peduncle, presence or absence and division of involucrel and involucrel bracts), fruit morphology (relative length of the styles, fruit size and the prominence and relative orientation of the ribs) and fruit anatomy (shape of the cells external to the vittae).

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Keywords: Apiaceae; *Dasispermum*; New species; *Sonchidinae*; South Africa; *Sasibaceae*; Taxonomy

1. Introduction

The circumscription of the genus *Dasispermum* Raf. was expanded by Magee et al. (2009b) to include five species previously treated as *Sonchidina* H. Wolff as well as the only South African species of *Sasibaceae* Raf., namely *S. capense* (Lam.) B.L. Burt. As a result, this previously monotypic genus now comprises seven South African endemic species, two of which (*D. Dasispermum* sp. 1 and *D. sp. 2*) were undescribed at the time and are here formalised as *D. perennans* Magee & B.-E. Van Wyk and *D. grandicarpum* Magee & B.-E. van Wyk respectively.

This conclusion resulted from a thorough taxonomic study of *D. Dasispermum* and related genera using molecular, morphological and anatomical data (Magee et al., 2009b). The geographically disjunct *Sasibaceae* was shown to be polyphyletic, with the type of the genus from North Africa placed within the tribe Apieae and the only South African species embedded

within the genus *Sonchidina*. Such a treatment was proposed by Adamson (1939) who considered *Sonchidina hispida* (Thunb.) H. Wolff and *Sasibaceae capense* to be closely related (as did Sonder, 1862). Furthermore, *Sonchidina* was rendered paraphyletic by the inclusion of *D. Dasispermum grandicarpum* (Berg.) B.L. Burt, which was strongly allied to a clade including *Sonchidina hispida* and *Sonchidina* sp. 1 (described here as *D. perennans*). *D. Dasispermum* s.s. is traditionally defined by the succulent or semi-succulent leaves and often winged fruit, both of which were argued by Magee et al. (2009b) to be adaptations to the harsh littoral conditions in which this species occurs. Leaf succulence and rolled margins are both common halophytic adaptations (Mucina et al., 2006b). Based on the results of phylogenetic analyses of separate and combined molecular and morphological data (Magee et al., 2009b), an expanded *D. Dasispermum* s.l. was strongly supported as part of the *Capposphyllon* group (together with the Cape endemic genera *Capposphyllon* Gaertn. and *Scruboides* Magee & B.-E. van Wyk) within the *Lefebwea* clade of the tribe Torryliaceae. The genus, in its new circumscription, can be distinguished from all other genera within the *Lefebwea* clade by a combination of characters, namely the sympodial growth habit (resulting in leaf-opposed umbels), papillose petals, isodiametric

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