

Article



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The genus *Picris* (Asteraceae) in southern Italy: contribution to its systematic knowledge

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Abstract

In southern Italy two species of Picris occur: the widespread P. hieracioides subsp. hieracioides and the endemic P. scaberrima. The latter is still lacking any karyological knowledge, it is imperfectly known as concerns cypselae morphology and its name requires typification. Thus, the name *Picris scaberrima* is here lectotypified and a map summarizing its distribution is presented. In addition, new data concerning cypselae morphology and karyology of the topotype population of P. scaberrima and of a nearly co-occurring population of *P. hieracioides* subsp. *hieracioides* are provided.

Key words: Calabria, cypsela, Gussone, karyotype heterozygosities, karyotype asymmetry, SEM

Introduction

The genus Picris Linnaeus (1753: 792) (Asteraceae) includes four species in Italy (Pignatti & Lack 1982, Conti et al. 2005). According to recent studies (Slovák et al. 2009a-b, 2012) on the infraspecific variation of the generitype P. hieracioides Linnaeus (1753: 792), only two subspecies are now recognized within this taxon in Italy: P. hieracioides subsp. hieracioides and P. hieracioides subsp. umbellata (Schrank 1789: 334) Ces. in Cattaneo (1844: 303). The other three species are the adventive P. rhagadioloides (Linnaeus 1767: 108) Desfontaines (1804: 89), recorded in northeastern Italy, P. hispidissima (Bartling 1825: 125) Koch (1837: 422), an Illyrian species, also occurring in north-eastern Italy, and P. scaberrima Guss. in Tenore (1830: 113), a species endemic to southern Italy (Peruzzi et al. 2014).

Picris scaberrima was described for the first time by G. Gussone, based on samples collected in Calabria (Tarsia). Conti et al. (2005) recorded this species in Calabria, Basilicata and doubtfully in Campania. More recently, Terzi & D'Amico (2009) discovered a population in Apulia, from where the species was actually previously reported by Fiori (1924). According to Pignatti & Lack (1982), Picris scaberrima is a scapose hemicryptophyte living on dry uncultivated calcareous grounds, at altitudes of 100-1000 m. Its body is covered by 2-4-barbed glochids (anchorshaped hairs) and involucre scales of capitula show a peculiar dense and short tomentum. The glochids and basal leaf shape make it clearly distinct from other morphologically similar taxa. This distinction was further confirmed by recent molecular studies (Slovák et al. 2014), where P. scaberrima is shown to be phylogenetically related to the Irano-Turanian P. strigosa Marschall Bieberstein (1808: 250), and both species form a clade sister to the monophyletic P. hieracioides species complex within P. sect. Picris (Sell 1976). Within that section, Lack (1974) recognised two subsections: P. Hieracioides Vassiliev ex Lack (1974: 77; whose correct name should be subsect. Picris, Art. 22.1 of the ICN, McNeill et al. 2012), including taxa with 2-barbed glochids, and P. subsect. Strigosae Vassiliev ex Lack (1974: 77; type species: P. strigosa), including taxa with 2-4-barbed glochids. While P. hieracioides is obviously belonging to P. subsect. Picris, the infrageneric placement of P. scaberrima has never been discussed in detail.

Picris scaberrima and P. hieracioides subsp. hieracioides are the only two taxa occurring in southern Italy and, according to literature (Tenore 1830, Sell 1976, Pignatti & Lack 1982), are easily distinguished by their leaf shape (pinnatisect vs. undivided and dentate, respectively). Only Pignatti & Lack (1982) quoted two further distinguishing features: the occurrence of 4-barbed glochids and the putatively more developed beak of cypselae in P. scaberrima.

Concerning the karyology of these two taxa, whereas an extensive literature of karyological studies is available for the diploid P. hieracioides s.l. (i.e., for instance Slovák et al. 2007 and literature cited therein; Bedini et al. 2010 onwards), no chromosome count exists for P. scaberrima.