

A NEW SPECIES OF THE GENUS ONOSMA FROM W. IRAN

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Onosma iranshahrii is described as a new species from W. Iran. This species is set up between *Onosma qandilicum* from Iraq and *O. bilabiatum* from W. Iran.

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گونه جدیدی از جنس *Onosma* برای فلور جهان از غرب ایران

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گونه *Onosma iranshahrii* به عنوان گونه‌ای جدید برای فلور جهان از غرب ایران نامگذاری و شرح داده می‌شود.

INTRODUCTION

Among the plants collected in Kurdistan, a specimen of *Onosma*, different from the other species of this genus in Iran and neighbouring countries was found. The specimen was compared with those specimens already existing and identified in the herbarium of Tehran University (THU), Research Institute of Forests and Rangelands (TARI), and Ministry of Agriculture (IRAN). Characters of the specimen examined and compared with those of the allied species (table 1). The specimen revealed to be a new species and it is introduced and named as a new species for the world's flora.

NEW SPECIES

Onosma iranshahrii Ghahreman & Attar, **sp. nov.** Fig. 1.

Differt ab *O. bilabiatum* Boiss. & Buhse: folia basalia petiolo incluso 30-110 mm longa, corolla 25-30 mm longa, annulus nectarifer villosus et pedicelli floriferi 2-3 mm longi, differt ab *O. qandilicum*: calicibus laciniis 8 mm latis, duabus ad medium connatis, corolla 1-1.3 mm longa, antherae 8.5 mm longae (table 1).

Planta perennis, basi lignosa. Caules floriferi erecti vel ascendentes, 18-27 cm alti. Folia rosulae petiolo incluso 50-70 mm longa, (10 -) 20-25 mm lata, ovata vel obovata vel spathulata, apiculata, dense setosa, basi tuberculatis, tuberculis stellato-pilosis, inter tubercula pilosa. Folia caulina 25-50 cm longa, 10-20 cm lata, sessilia, spathulata vel lanceolata, acuta. Inflorescentiae scorpioideo ramosae. Bracteae 10 mm longae, lanceolatae. Pedicelli floriferi 5 mm, fructiferi 6-7 mm longi. Calyces 18-20 mm longi, bilabiati, setulosi, laciniis 3-5 mm latis, acutis; calyces fructiferi acuti, 30 mm longi; laciniis 8 mm latis, duabus ad medium connatis. Corolla 20 mm longa, claviformis vel campanulata, lobis latis triangularibus revolutis; in parte superior breviter pilosa, flava, interdum rubescentia-brunnescens. Antherae 8.5 mm longae, basi sagittatae, apice sterili, subexsertae, Filamenta 2-3 mm longa. Annulus nectarifer sparse villosus. Stylus filiformis corollam superans. Nuculae 8 mm longae, 4.5 mm latae, apicem versus attenuatae, laevae, reticulatae, nitidae.

Typus. Iran, Kurdistan: Marivan to Pave, Gardan-e Tat between Dezli and



Fig. 1 *Onosma iranshahrii* (x5.6); calyx and corolla (x2.1).

Table 1. Comparison of the morphological characteristics of *O. iranshahrii* and the two closely related species *O. bilabiatum* and *O. qandilicum*.

Species	<i>O. bilabiatum</i>	<i>O. iranshahrii</i>	<i>O. qandilicum</i>
Leaf	3-11 cm long 0.7-2.5 cm wide.	5-7 cm long 1.5-2.5 cm wide.	3-5 cm long 1-2.5 cm wide.
Pedicel	2-3 mm long in flower and fruit.	3-5 mm long in flower, 9 mm in fruit.	3-5 mm long in flower and fruit.
Calyx	In flower 18-20 mm long, 2-3 mm wide; in fruit 25-27 mm long, 5-6 mm wide. Lobes connate at the base.	In flower 18-22 mm long, 3-5 mm wide; in fruits, 30 mm long, 8 mm wide. Lobes connate up to the middle	In flower 15 mm long, 1 mm wide; in fruit slightly accrescent free up to the base.
Flower	25-30 mm long; outside pilose, inside glabrous	20-22 mm long; outside pilose in the upper part, inside glabrous.	10-13 mm long; outside and inside glabrous.
Nectar	glabrous.	hairy.	hairy.
Anther	9-10 mm long.	8.5 mm long.	5 mm long.
Nutlet	6 mm long. foveolate- punctate	8 mm long, white, reticulate, smooth.	4 mm long, brown, canescent, smooth.

Hanigarmale, 1800-2600 m, 9.7.1995, Ghahreman & Mozaffarian 18334 (holotypus TUH).

Perennial, woody at base. Flowering stem erect or ascending, 18-27 cm high. Basal leaves (with petiole) 50-70 mm long, (10-) 20-25 mm wide, ovate or obovate or spatulate, densely setose hairy; tubercles with stellate hairs, intermixed with shorter hairs, cauline leaves 25-50 mm long, 10-20 mm wide, sessile, spatulate or lanceolate, acute. Inflorescence scorpioid, branched. Bracts 10 mm long, lanceolate. Flowering

pedicel 5 mm long, 9 mm in fruit. Calyx 18-20 mm long, bilabiate, up to 30 mm in fruit, setosely hairy; lobes 3-5 mm wide, 8 mm in fruit, acute, 2 and 3 lobes connate up to the middle. Corolla yellow, sometimes reddish-brown, 20 mm long, clavate-campanulate, lobes widely triangular, revolute, puberulent outside in the upper part, nectar sparsely villose. Anthers 8-8.5 mm long, sagittate at base, subexserted, filaments 2-3 mm long. Nutlets 8 mm long, 4.5 mm wide, attenuate towards the apex, white, smooth, reticulate, shining.