

SISYMBRIUM KERMANICUM (BRASSICACEAE: SISYMBRIEAE), A NEW SPECIES FROM IRAN, KERMAN

M. Khodashenas, S. M. Mirtadzadini & M. Assadi

Khodashenas, M., Mirtadzadini, S. M. & Assadi, M. 2006 08 01: *Sisymbrium kermanicum* (Brassicaceae: Sisymbrieae), a new species from Iran, Kerman. -Iran. Journ. Bot. 12 (1): 94-96. Tehran.

Sisymbrium kermanicum is described and illustrated as a new species from Iran. This species is well characterized by the following characters. Fruits 50-60 cm and torulose, the apical part of fruit has strict and short hairs.

The new species seems be most closely related to *S. Irio*, so they are compared. It is also compared with *S. brassiforme*.

Mansoorh Khodashenas, Research Center of Agricultural and Natural Resources of Kerman province, Iran. -Seied Mansour Mirtadzadini, Department of Biology, Faculty of Science, Shahid Bahonar University of Kerman, Iran. -Mostafa Assadi, Research Institute of Forests and Rangelands, P. O. Box. 13185-116, Tehran, Iran.

Key words. *Sisymbrium*, *Sisymbrieae*, *Brassicaceae*, new species, Iran.

گونه جدید *Sisymbrium kermanicum* از ایران، کرمان
منصوره خداشناس، سید منصور میرتاج الدینی و مصطفی اسدی

گونه جدید *Sisymbrium kermanicum* به عنوان گونه جدیدی از ایران معرفی می شود. این گونه با داشتن میوه‌هایی به طول ۶۰ تا ۷۰ میلی‌متر که فقط در فوقانی‌ترین قسمت خود دارای کرک‌های محکم و خشنی می‌باشد از سایر گونه‌های این جنس قابل تشخیص است و به دلیل قرابتی که با گونه‌های *S. brassiforme* و *Sisymbrium Irio* دارد با آنها مقایسه می‌شود. طرح و پراکنش جغرافیایی این گونه جدید ارائه می‌گردد.

Introduction

In a revision of the genus *Sisymbrium* L. in Iran a new species of this genus was collected. It seemed to be interesting and different from the other known species in Iran. Further studies revealed that the plant is a new species which is described here.

Sisymbrium kermanicum Khodashenas & Mirtadzadini, sp. nov.

Plant annual. Stem erect, 50-100 cm high, branched from the base or above, with strict, long, simple and often reflexed hairs below, except the inflorescence glabrous above. Lower leaves petiolate, 7-12x2-4 cm, pinnatisect to pinnatifid, 2-4 lobed; lobes oblong, obtuse, entire or partly toothed or sinuate; upper leaves 9-11x2-6 cm with narrower acute lobes. Raceme dense in flowering, loose in fruiting. Young flowers not

overtopping the flowers. Pedicel with simple hairs. Sepals 3 mm long, 0.5-0.6 mm broad, hairy, not saccate at the base; outers oblong, obtuse; inners oblong-sublanceolate. Petals pale yellow, oblong, 4-4.5 mm long, 1 mm broad, clawed. Stamens 3.5-4 mm long; filaments linear; anthers 1 mm long, oblong-ovate. Fruiting pedicels thin, 7-10 mm long, drooping or recurved, pubescent. Fruits 60-70 mm long, with short and strict hairs near the apex; valves trinerved. Style 1-5 mm long; Stigmas shortly bilobed. Seeds uniseriate, many, shiny, plumped, yellow to yellowish brown, oblong or ovate, 1 mm long, 0.6-0.7 mm broad; radicle incumbent.

Typus. Iran, Kerman: Jebalbarez, Sarzeh, 2450 m, Khodashenas & Mirtadzadini 6017 (holotypus TARI).

The new species is similar to *S. irio* and *S. brassiforme*. It differs from *S. irio* by the following

characters. Petals longer 4-4/5 mm × 1 mm (not 2/5-4 mm). Fruiting pedicels are often patent or drooping (not erect) and thicker. Fruit is longer 60-70 mm long (not 30-45 mm), hairy near the apex (not glabrous). Seeds plumped and longer, ca 1.5 mm long and 0.5-0.6 mm broad.

It differs from *S. brassiciforme* by the following characters: having no rosette leaves, terminal lobe of basal leaves are completely dentate or sinuate (not entire), inflorescence hairy (not glabrous), sepals smaller (3 × 0.5 - 0.6 not 5-6 × 1-1.5) and hairy. Petals

are smaller too. The important difference is presence of hairs only in the upper part of fruit and plumped seeds in *S. kermanicum*.

References

- Hedge, I. C. 1968: *Sisymbrium* in K. H. Rechinger Flora Iranica no 57: 311-318. -Graz.
Schulze, O.E. 1916. Cruciferae. In Das Pflanzenreich, (A.Engler, ed.) vol. IV(105) 70: 46-110.

Archive of SID

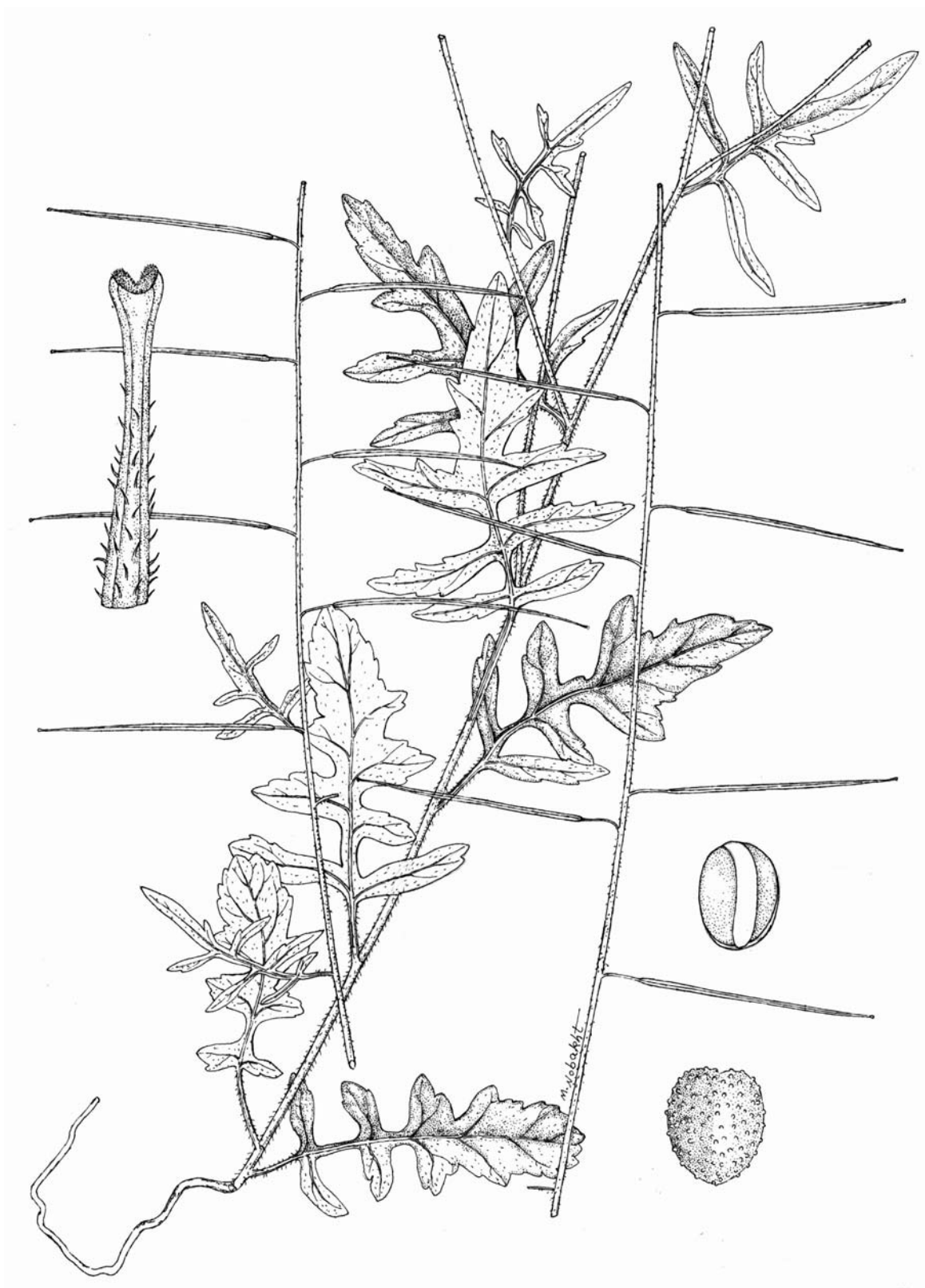


Fig. 1. *Sisymbrium kermanicum* (x 0.63); seed (x 18); embryo (x 23); style (x 5.7).