

## NEW PLANT RECORDS FROM IRAN

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*Cousinia apiculata*, *C. raddeana* and *Scutellaria lindbergii* which have been collected from Khorasan province are reported as new species to Iran.

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*Key words.* *Cousinia*, *Scutellaria*, new records, Iran.

فریده عطار و محمدرضا جوهرچی

معرفی گونه های جدید برای فلور ایران

گونه های *Scutellaria lindbergii*, *C. raddeana*, *Cousinia apiculata* که از استان

خراسان جمع آوری شده اند به عنوان گونه های جدید برای فلور ایران معرفی می شوند.

**Cousinia apiculata** Tscherneva (*Compositae*, sect. *Pseudoactinia* Tscherneva)

Khorasan: Shirvan, Sarani, 2300 m, Ghahreman, Attar, Joharchi & Mehdigholi, 27664-TUH.

This species which was described from Kopetdagh mountains, between Kheyraabad and Garmakan (Turkmenian region), is recorded for the first time in Iran. Other species of this section include: *C. oreodoxa* Bornm. & Sint. (endemic of Iran & Turkmenistan) and *C. glochidata* Kult. (endemic of Turkmenistan).

*Cousinia apiculata* is distinguished by these characteristics: canescent-arachnoid in appearance; very suffruticose base; leaves not decurrent; heads large, numerous, shortly stalked; bracts exappendiculate; corolla and anther tube purple.

*Habitat.* Stony slopes.

**Cousinia raddeana** Tscherneva (*Compositae*, sect. *Haplophylla* Tscherneva)

Khorasan: Mashhad, Kalat-e Naderi road, Sanganeh, Chahchaheh, Ghahreman, Attar, Joharchi & Mehdigholi, ca. 1600 m, 27315-TUH.

Section of *Haplophylla* is a monospecific section. *Cousinia raddeana* is distinguished by following characteristics: stem long, solitary, white and shining, with corymbose branches above; heads small and numerous, longly stalked; bracts imbricate; corolla and anther tube milky white.

This species was geographically distributed in Afghanistan, Badghiz, south of Pamir-Alaj and is reported for the first time in Iran.

*Habitat.* Woodlands of *Pistacia vera*.

**Scutellaria lindbergii** Rech. f. (*Labiatae*)

Khorasan: West of Mashhad, Kang mountain, Joharchi, 1800 m, 2001.

This species is distinguished from other close species by discolored leaves, unicolored yellow corolla, flat appendage of calyx and long entire bracts. It is compared in table 1 with *Scutellaria litwinowii* Bornm. & Sint. ex Bornm., *S. luteo-coerulea* Bornm. & Sint. ex Bornm. and *L. pinnatifida* A. Hamilt. subsp. *alpina* (Bornm.) Rech. f. The nearest locality to the Iranian collection is Badakhshan in Afghanistan.

#### ACKNOWLEDGMENT

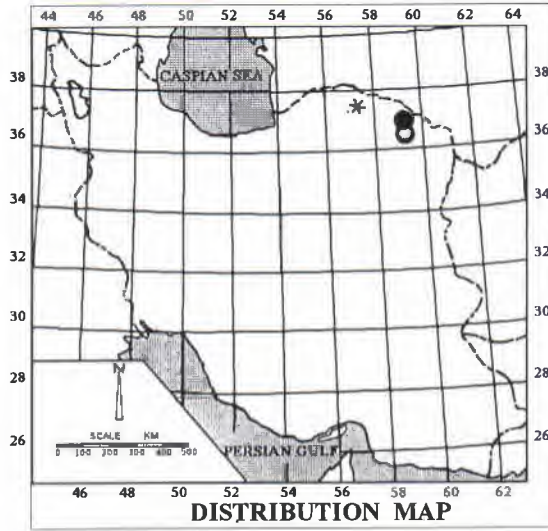
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Table 1. Comparison of *Scutellaria lindbergii* with some relatives.

| Characters                | <i>S. litwinowii</i>         | <i>S. luteo-coerulea</i>     | <i>S. pinnatifida subsp. alpina</i> | <i>S. lindbergii</i>         |
|---------------------------|------------------------------|------------------------------|-------------------------------------|------------------------------|
| Leaf                      | Concolored                   | Concolored                   | Concolored                          | Discolored                   |
| Inflorescence             | Flowering and fruiting loose | Flowering and fruiting loose | Flowering and fruiting dense        | Flowering and fruiting dense |
| Bract                     | 8-11mm, entire               | 4-7mm, entire                | Incised                             | 11mm, entire                 |
| Scutellum                 | 8-10mm wide                  | 3 mm wide                    | —                                   | 1.5mm wide                   |
| Calyx                     | 2mm                          | 2-4mm                        | 3.5-4mm, (5-6mm in fruit)           | 3mm                          |
| Lower lip of corolla limb | Dark-purple                  | Dark-blue                    | —                                   | Pale violet in throat        |
| Corolla                   | 25-30mm                      | 18-24mm                      | 30-35mm                             | 27-30mm                      |



Map. 1. *Cousinia apiculata* \*; *C. raddeana* ● ; *Scutellaria lindbergii* ○.



Fig. 1. *Cousinia apiculata* ( $\times 0.5$ ).



Fig. 2. *Cousinia raddeana* ( $\times 0.5$ ).



Fig. 3. *Scutellaria lindbergii* ( $\times 0.8$ ).