

A NEW SPECIES OF THE GENUS ASTRAGALUS L., SECT. HYMENOSTEGIS FROM N.W. IRAN

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Astragalus dianat-nejadii is described as a new species from northwest of Iran. This species belongs to the sect. *Hymenostegis* Bunge. Its illustration and distribution map is provided. The most related species to this new one are *A. chrysostachys* Boiss. and *A. recognitus* Fischer. These two species differ from the new one in stipule forms, bracts, peduncles, calyx, pods and so on. A table is provided to show the differences of the new species with its affinities.

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گونه جدیدی از سکسیون *Hymenostegis* از جنس *Astragalus* (از
شمال غرب ایران
از: فرخ قهرمانی نژاد

گونه جدید *Astragalus dianat-nejadii* از شمال غرب ایران شرح داده می شود. این گونه از نظر گوشوارک، برگه، دمگل آذین، کاسه، میوه و غیره با دو گونه مجاور به نامهای: *A. recognitus* Fisch., *A. chrysostachys* Boiss. تفاوت دارد. در این مقاله تصویر و نقشه پراکندگی این گونه جدید و همچنین جدول تفاوت های آن با دو گونه مجاور و شرح آن به زبان لاتین آمده است.

INTRODUCTION

During my work on *Astragalus* sect. *Hymenostegis* Bunge, a specimen from, Arasbaran protected area was collected which had some differences from *A. chrysostachys* Boiss. and *A. recognitus* Fisch. It is described as a new species.

***Astragalus dianat - nejadii* F. Ghahremani., sp. nov.**

Differt ab *A. chrysostachys* Boiss. stipulae chartaceae (nec hyalinae), bracteis calyce angustis (nec latioris), tubum calycinum minorum (nec calyces aequantes). Differt ab *A. recognitus* Fisch. pedunculi angusti (nec crassi), legumen 8-9 mm longum (nec 11-12 mm).

Plantae perennes, caespitosae, pilis 0.2-2 mm longis (calycis pilis 3 mm longis), 11-45 cm altae (cum racemis); caules 4-15 cm longi, plus minusve dense foliosus, appressissime sericeus. Stipulae 12-22 mm longae, basi per 7-14 mm petiolo adnatae, flavae, lanceolatae, chartaceo-membranaceae, apicem versus hyalinae, sparse appresse albo-pilosae vel glabrae, ciliatae. Folia 4-14 cm longa, petiolo 1-3.5

cm longo sicut rachis plus minusve appressis sericea. Foliola 6-9 juga, 8-20 (22) mm longa et 2-3 mm lata, elliptico-lanceolata vel oblongo-lanceolata, mucronulata, mucronae 0.6-1.1 mm longae, utrinque laxe vel dense appresse hirsuta. Pedunculi ca. 5-23 cm longi, foliis aequilongi, usque duplo superantes, laxe et dense appresse pilosa. Inflorescentiae axillares mutiflorae in juveniles cylindrica diende elongatae vel anguste cylindrica, 4-20 cm longae. Bractee flavae, chartaceo-membranaceae, ovato-lanceolatae vel anguste oblongo-lanceolatae, acuminatae, 10-15 mm longae, 2-3(5) mm latae; tubo calycino breviores vel subaequantes vel angustiores, in partim superiorum ab nervum medianum laxe pilosae vel glabrae, margine ciliatae. Bracteolae nullae. Calycis flavis vel vix rubro-striati, 13-17 mm longi, 4-5 mm lati tubulosus; diende inflatus 6-7 mm latus, elliptico-cylindraceus, dense moliter sericeo-villosi, pili ad 3 mm longus, paralleliter 10-11 nervus; laciniae 3.5-5.5 mm longae, subulatae dimidio tubo breviores. Corolla glabra, in vivo alba, in sicco flava. Vexillum 18-23 mm longum; lamina oblonga, 6-9 mm lata, apice obtusa, basim breviter auriculata. Alae 12-16 mm longae, lamina oblonga vel elliptico-obovata, antice rotundata, 7-8.5 mm longa



Fig. 1. *Astragalus diant-nejadii* (x 0.45; standard, wing, keel and leaflets x 0.9)

et 2.5-4 mm lata; basi auriculata 0.6 mm longa; ungue 10-13 mm longo. **Carina** 15-18.5 mm longa; lamina oblique **obovato-triangularis**, 5-6 mm longa, 3-3.5 mm lata; ungue 10-12 mm longo. Ovarium 4-5 mm longum, densissime adpresse sericeum. Stylus 9-12.5 mm longus, fere ad basi vix pilosus. Legumen stipitatum; stipite ca. 1 mm longo suffultum, unilocularum et saepius monospermum, oblongo-ellipticum, 8-9 mm longum, ventro-dorso comperssum, ventro carinatum, dorso applanatum

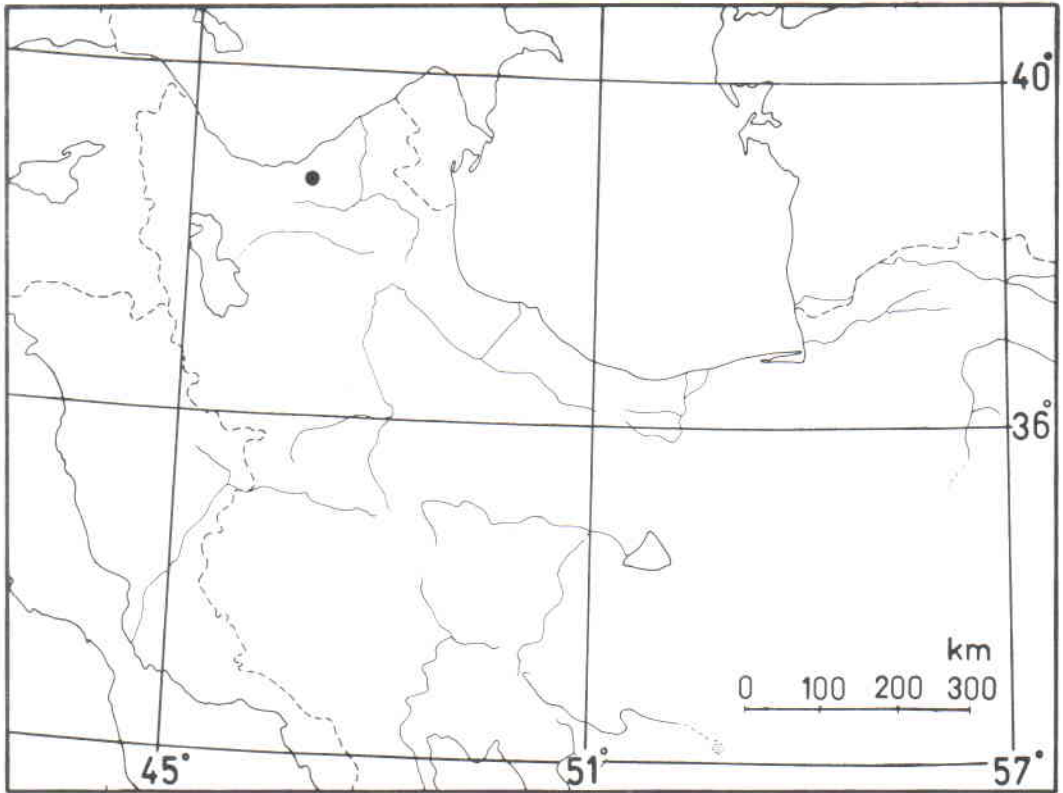
densissime adpresse sericeum. Semina ochracea, reniformia, 4-5 mm longa, 2.5 mm lata.

Typus: Iran, prov. Azarbayejan, Ahar to Kaleibar, protected region of Arasbaran, 1550 m, 8.7.91, F. Ghahremani-Nejad & Sh. Zarre, 69611 (holo: TARI; iso: Herb. Univ. Tarbiat-Moallem)

* The new species is named in honour of the Iranian botanist and ecologist; Dr. Dyanat-nejad.

Table 1: Differences of *A. dianat-nejadii* with its affinities.

<i>A. chrysostachys</i>	<i>A. dianat-nejadii</i>	<i>A. recognitus</i>
-Inflorescence 3-12 cm long.	Inflorescence 4-20 cm long.	Inflorescence 3.5-5.5 cm long.
-Fruit 6-8.5 mm long.	Fruit 6-9 mm long.	Fruit 11-12 mm long.
-Calyx, with yellow nerves, hair 4-5 mm	Calyx, usually with violet or purplish nerves, hair 3 mm	Calyx, with yellow nerves, hair 3 mm
-Bract 10-20 x 2.5-7.5 mm, glabrous, wider than calyx.	Bract 10-15 x 2-3.5 mm, hairy, narrower than calyx	Bract, 12-16 x 3-6 mm, hairy, narrower than calyx
-Stipule, hyaline	Stipule, papery-membranaceous	Stipule, papery



Map. 1. Distribution of *Astragalus Dianat-Nejadii*

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