

A NEW SUBSPECIES OF THE GENUS TULIPA (LILIACEAE) FROM IRAN

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Tulipa humilis subsp. *matinae* is described as new subspecies from Iran. This subspecies is separated by the differences in some of the quantitative and qualitative characters.

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زیرگونه جدیدی از جنس *Tulipa* (Liliaceae) در ایران

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زیرگونه *Tulipa humilis* subsp. *matinae* به عنوان زیرگونه جدیدی از گونه *Tulipa humilis* نامگذاری و شرح داده می شود. این زیرگونه براساس تفاوت در تعدادی از صفات کمی و کیفی از گونه *Tulipa humilis* جدا شده است.

Introduction

In a biosystematic study performed on the species and populations of the genus *Tulipa* of Iran (subgenus *Eriostemonex*, section *Saxatiles*), a new subspecies belonging to *Tulipa humilis* was recognized. The new subspecies is described and the differences with *Tulipa humilis* subsp. *humilis* are discussed.

Tulipa humilis Herbrt subsp. *matinae* Zojajifar & Sheidai, subsp. nov.

Bulbus 2-3 cm diametro, ovoideo-subglobosus; tunicae nigrescenti-brunneae, coriaceae, annulo pilorum aream basalem cingente et pilis appressis ad collum evolutis. Caulis 7-16 cm altus. Folia 3(-4), 9-20×0.5-2 cm. Flos solitarius, purpureus; macula basalis purpureo-nigra; tepala exteriora 2.4-4×0.7-1.7 cm oblanceolato-elliptica, acuta; tepala interiora 2.3-4×1.3-2.5 cm, obovoidea, submucronata. Filamenta 6-10 mm longa, atra; antherae 5-10 mm longae, atrae. Capsula matura 1.6-3×1.3-1.8 cm ellipsoidea, stipitata, rostrata.

Typus. Hamadan: Kuh-e Alvand, near Ganjnameh, 23. 4. 1999, Bidari, 99130 (holotypus Herbarium Shahid Beheshti University, HSBU).

The new subspecies is similar to *Tulipa humilis* subsp. *humilis* in the following characters: number of leaves, number of flower, base filament ciliate, base inner tepals

ciliate, ring of hairs around basal plate of bulb and adpressed hairs at neck of tunics. However the new subspecies differs from the *Tulipa humilis* subsp. *humilis* in the following characters: flower dark purple (not lilac), inner perianth segments obovate (not obovate-elliptic), apice inner perianth segments submucronate (not acute); anthers and pollen grains dark purple (not yellow); tunics coriaceous (not papery); bulb ovate-subglobose (not ovate).

Numerical taxonomic analysis of section *Saxatiles* also separated subspecies *matinae* in a separate cluster/group supporting its subspecies rank (Zojajifar 2001).

Acknowledgment

Tanks are due to Mr. Mehranfard, the artist of the Plant Pests and Diseases Research Institute for preparing the illustration. So thanks are due to Miss. Bidari, student of the Shahid Beheshti University for collecting the specimens of this subspecies.

Reference

- Zojajifar, Sh. 2001: Biosystematic studies of sections Biflores, Australes, Saxatiles, Tulipanum of the genus *Tulipa*, a thesis submitted for the degree of Master of science in Biology. -Shahid Beheshti University, Tehran.



Fig. 1. *Tulipa humilis* subsp. *matinae*