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A new *Allium* L. species from middle Asia

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Abstract: *Allium rinae* F. O. KHASS., SHOMURADOV & TOJIBAEV (sect. Costulatae F. O. KHASS. & IENGAL.) is newly described from Uzbekistan (Kyzylkum desert).

Key words: Uzbekistan, *Allium*, taxonomy, description.

Introduction

During a special collecting mission in Kyzylkum desert a new *Allium* species was collected on the southern dry stony and sandy slopes of Bukantau mountains (Fig. 1). The plants clearly belongs to sect. Costulatae F. O. KHASS. & IENGAL. due to the shape of flowers as well as structure of tunics, bulbs and bulblets. Otherhand, numerous (up to 7) scapes are very common for section Multicaulea F. O. KHASS. & IENGAL., but never occur in section Costulatae (Fig. 2, 3). The most widely distributed species of the section in Middle Asia – *A. filidens* REGEL (Fig. 4) is closely related to Bukantau specimens. Since 1990 we have been studying the taxonomy of *A. filidens* alliance. At first we studied the living plants of *A. filidens* collected from classical location in Mogoltau mountains (Northern Tadzhikistan). Then *A. fritschii* F. O. KHASS. & IENGAL. have been described from South Pamiroalaj in the end of 20th century (KHASSANOV et al. 1997). Still this large polymorphous alliance with several new subspecies is not described and published. The plants we collected in Bukantau can be treated as a new species closed to *A. filidens*.

Results

***Allium rinae* F. O. KHASS., SHOMURADOV & TOJIBAEV (sect. Costulatae F. O. KHASS. & IENGAL.), spec. nova**

H o l o t y p e: Uzbekistan, montes Bukantau, prope pagum Uchkuduk, fl., 16.05.2007, leg. KHASSANOV, SHOMURADOV & TOJIBAEV, n.14 (TASH, LI).

Bulbi ovati 1-2 cm crassi, tunicis rufescenti-brunneis, reticulatis, alte productis. Bulbillae paucae, brunnescentes, leaves. Caulis (1) 2-3 (7), 15-35 cm altus. Folia in numero 2-4, quam scapus breviora, 1-2 mm lata, canaliculata, fistulosa, laevia. Spatha mox caduca. Umbella sphaerica vel hemisphaerica, pauciflora. Pedicelli 15-30 mm longi, basi

bracteolati. Perigonii late campanulati phylla albidum, purpureo-nervosum, apice albidoseum. Tepala 4-6 mm longa, laevia, exteriora carinata, triangulari-lanceolata, interioribus lineari-lanceolatis, acutiuscula. Filamenta basi connata et tepalis adnata, basi ciliata, exteriora anguste triangularia, interiora basi perigonii phyllis angustioribus, tricuspidata. Cuspide media quam lateralibus subaequilonga. Antherae violaceae. Stylus exsertus. Capsula valvae ca. 4 mm longae, orbicularis. Habitat in montibus Bukantau (Asia Media, Kyzylkum centralis). Ab *A. filidens* REGEL cuspide media quam lateralibus subaequilonga, floribus coloratis et caules pluribus differt.

Species in honorem Prof. Rina KAMENETSKY denominata est.

Bulbs ovate, 1-2 cm wide. Outer tunics reddish-brownish, cellular, lengthy. Scape (1) 2-3 (7), 15-35 cm long. Leaves 2-4, shorter than scape, 1-2 mm thick, channeled, fistular, glabrous. Spathe deciduous. Inflorescence subglobose or semiglobose, few-flowered. Pedicels 15-30 mm long, with basal bracts. Perianth widely campanulate, whitish-pink with purple midvein. Tepals 4-6 mm long, smooth, outer ones scaphoid, lanceolate elongated, inner ones sharply linear lanceolate. Filaments basally connate, non ciliated, outer ones narrowly triangular, inner ones basally narrow than tepals, tricuspidate. Middle cusps equal or slightly shorter than lateral ones. Anthers violet. Style exserted. Capsule 4 mm long, orbicular.

Zusammenfassung

Allium rinae F. O. KHASS., SHOMURADOV & TOJIBAEV (sect. Costulatae F. O. KHASS. & IENGAL) wird neu aus Usbekistan (Kyzylkum Wüste) beschrieben.

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References

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Fig. 1: Distribution of *A. filidens* alliance in Middle Asia. Black circle – *A. rinae* sp. nov. Black square – *A. fritschii* F. O. KHASS. & IENGAL. Black line – *A. filidens* REGEL



Fig. 2: *Allium rinae* sp. nov. (Bukantau mountains, Central Kyzylkum).



Fig. 3: Inflorescence of *A. rinae* sp. nov.



Fig. 4: Inflorescence of *A. filidens* REGEL (from Kokchatau mountains, Central Kyzylkum).