



A new species of *Medetera* (Diptera: Dolichopodidae) from Slovakia Новый вид рода *Medetera* (Diptera: Dolichopodidae) из Словакии

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Abstract. *Medetera longisurstylata* sp. nov. is described from Slovakia. The new species is similar to *M. tuberculata* Negrobov 1966 but differs from the latter in the dark legs, structure of the genitalia and the surstylus longer than the epandrium.

Резюме. *Medetera longisurstylata* sp. nov. описан из Словакии. Новый вид близок к *M. tuberculata* Negrobov 1966 и отличается от него чёрными ногами, структурой гениталий и сурстилиями, которые длиннее эпандрия.

Key words: Dolichopodidae, *Medetera*, Slovakia, new species

Ключевые слова: Dolichopodidae, *Medetera*, Словакия, новый вид

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Introduction

The genus *Medetera* Fischer von Waldheim, 1819 comprises 194 species and 3 subspecies in the Palaearctic Region (Negrobov & Naglis, 2016). The latest comprehensive taxonomic work of the Palaearctic species is the revision of the subfamily Medeterinae by Negrobov & Stackelberg (1971, 1972, 1974a, 1974b, 1977). Bickel (1985, 1987) published a revision of the Nearctic, Oriental and Australasian *Medetera*. Later on, several taxonomic and nomenclatural changes have been made, and the following species are removed from synonymy based on the differences in the male genitalic structures: *M. belgica* Parent, 1936, *M. bilineata* Frey, 1915, *M. kowarzi* Negrobov in Negrobov & Stackelberg, 1974, *M. miki* Negrobov in Negrobov

& Stackelberg, 1974, *M. peloria* Negrobov, 1967, *M. sphaeropyga* Negrobov in Negrobov & Stackelberg, 1974, *M. tarasovae* Negrobov in Negrobov & Stackelberg, 1974, and *M. thunebergi* Negrobov, 1967 (Negrobov & Naglis, 2016).

Negrobov & Naglis (2016) provided the latest revised key to the Palaearctic species of *Medetera*. Other keys were published for different regional faunas: for the Great Britain (Assis Fonseca, 1978), North Europe (Grichanov, 2006), the Caucasus and the Mediterranean (Grichanov, 2007), Japan (Masunaga & Saigusa, 1998), and China (Yang et al., 2011). Thirteen species from Tibet and Inner Mongolia of China were recently described (Tang et al., 2015, 2016), as well as *M. anjudanica* Grichanov et Ahmadi, 2017 from Iran (Grichanov & Ahmadi, 2017).

Material and methods

The material has been collected by J. Oboňa in Prešov town in Slovakia. One male was captured by hand on balcony of family apartment and preserved in 96% ethanol. Morphological terminology follows Cumming & Wood (2009). The type is stored in the collection of Zoological Institute of the Russian Academy of Sciences (St Petersburg).

Taxonomic part

Order **Diptera**

Family **Dolichopodidae**

Subfamily **Medeterinae**

Genus ***Medetera*** Fischer von Waldheim, 1819

***Medetera longisurstylata* sp. nov.**

(Figs 1–7)

Holotype. Male. **Slovakia**, Prešov, 48°59'51.1"N 21°13'19.0"E, 285 m a.s.l., 1.VIII.2017 (J. Oboňa leg.).

Diagnosis. Antenna black. Postpedicel with rounded tip, wider than long. Proboscis black. Palpus black. Lower postocular setae yellow. Three pairs of strong dorsocentral setae, four strong scutellars. Mid tibia with one anterodorsal seta and one posterodorsal seta in basal quarter. Hind basitarsus with a small notch at base. The posterior crossvein shorter than apical section of CuA_1 .

Description. Male. Body length 1.6 mm; wing length 1.8 mm.

Head. Frons black, without pollinosity. Face black, with a well-developed transverse suture, its width at suture exceeding the postpedicel width; epistome matt, densely pollinose; clypeus without pollinosity. Ratio of epistoma to clypeus length as 1.3: 0.7. Antennae black. Postpedicel small, with rounded tip and short hairs. Arista apical, with short hairs. Postpedicel scarcely wider than long. Ratio of postpedicel length to its width and arista length as 0.3: 0.4: 3.4. Proboscis black. Palpus black, with black hairs, without silvery pollinosity. Lower postocular setae light yellow.

Thorax dark green; mesonotum with two purple stripes on sides; pleura with dense grey pruinosity; all thoracic setae black. Propleura with one black seta and one black hair. Three pairs of strong long dorsocentral setae; second pair of

setae slightly shorter than anterior and posterior setae. Acrostichal setae very short, arranged in one irregular row. One sutural, one notopleural, and one sutural setae; two supraalar setae, anterior seta distinctly shorter than posterior one. Scutellum with two long and two short marginal setae.

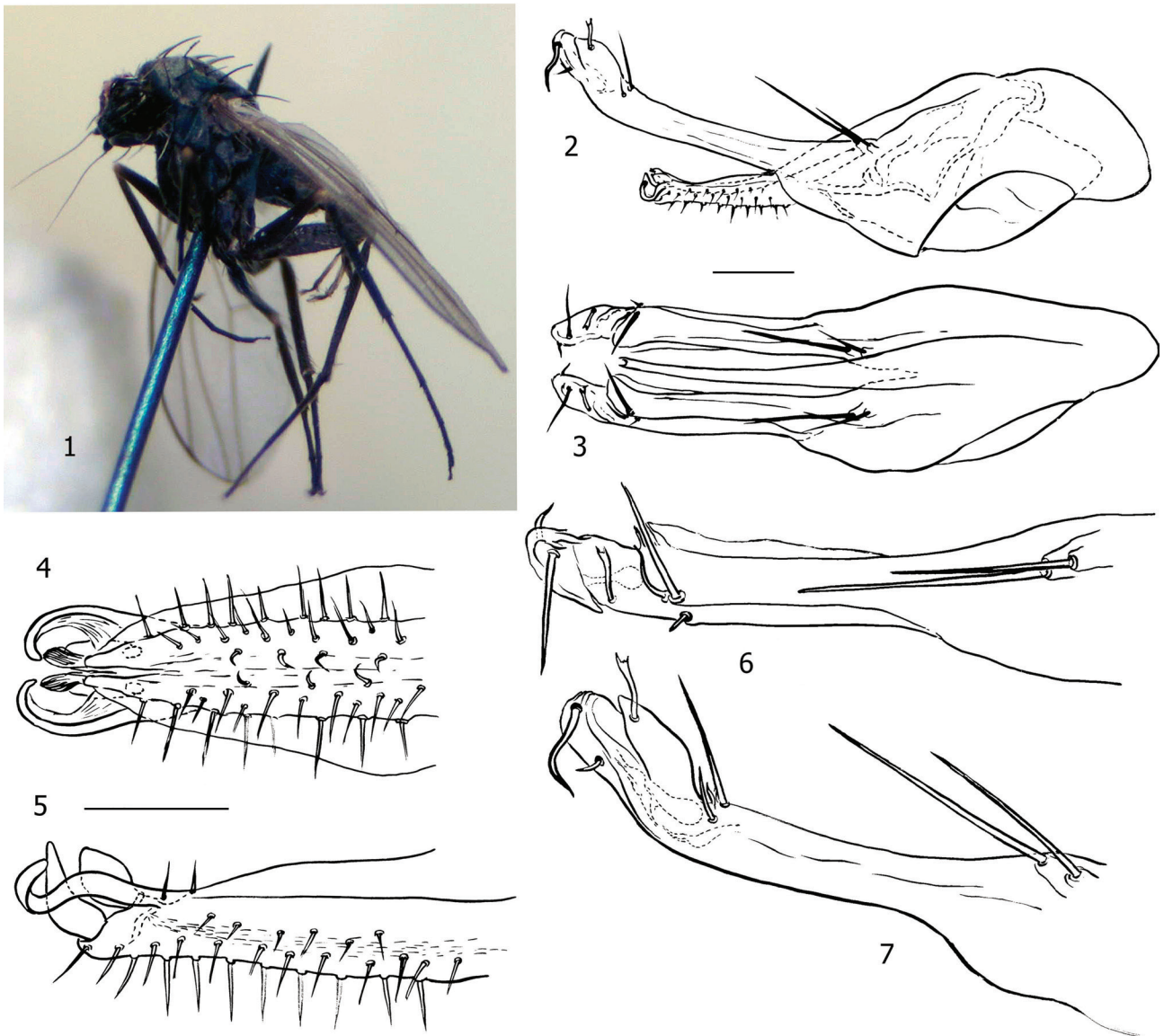
Legs black. Coxae with black hairs. Fore femur with very short white anteroventral hairs, which are shorter than width of femur. Fore tibia without strong setae. Ratio of length of fore tibia and lengths of tarsomeres (1st to 5th) as 3.5: 1.4: 1.3: 0.8: 0.4: 0.5. Mid femur with short white anteroventral hairs, which are shorter than width of femur. Middle tibia in basal quarter with one anterodorsal and one posterodorsal seta. Ratio of length of mid tibia and lengths of tarsomeres (1st to 5th) as 4.7: 2.3: 1.5: 1.1: 0.5: 0.4. Hind femur with short white anteroventral hairs along the entire length, which are shorter than width of femur, and short anterodorsal hairs in basal half, which are also shorter than width of femur. Hind tibia without strong setae, with black posterodorsal process at apex. Hind basitarsus with a small notch at base. Ratio of length of hind tibia and lengths of tarsomeres (1st to 5th) as 4.7: 2.6: 1.5: 1.0: 0.6: 0.4.

Wing hyaline; veins dark. R_{4+5} and M convergent at apex. Ratio of costal section between R_{2+3} and R_{4+5} to that between R_{4+5} and M as 1.5: 0.5. Ratio of posterior crossvein $m-cu$ to apical part of CuA_1 as 1.0: 1.6. Halter yellow. Calypter with black hairs.

Abdomen bright metallic-green, with black setae and hairs. Epandrium elongate-oval, longer than wide. Surstylus long, longer than epandrium, curved at the apex. Phallus apically without branches. Cercus long but shorter than length of epandrium, with long white hairs on dorsal side and with a tooth-shaped process at apex.

Female unknown.

Comparison. According to the key of the Palearctic species (Negrobov & Naglis, 2016), *Medetera longisurstylata* sp. nov. runs to *M. tuberculata* Negrobov, 1966 and can be distinguished from the latter by the legs dark, structure of the genitalia and the surstylus longer than the epandrium. The key by Negrobov & Naglis (1916) can be modified as follows:



Figs 1–7. *Medetera longisurstyla* sp. nov. 1, habitus; 2, hypopygium, lateral view; 3, hypopygium, ventral view; 4, cercus, ventral view; 5, cercus, lateral view; 6, surstylus, ventral view; 7, surstylus, lateral view. Scale bars: 0.1 mm (2–7).

51. Face metallic-green shining, without pruinosity . 51a
 51a. Legs yellow. Surstylus shorter than epandrium (Negrubov & Naglis, 2016: Fig. 40) *M. tuberculata*
 – Legs dark. Surstylus longer than epandrium (Fig. 2)
 *M. longisurstylata* sp. nov.

Etymology. The species is named for the long surstylus.

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