ANNALES HISTORICO-NATURALES MUSEI NATIONALIS HUNGARICI Tomus 62. PABS ZOOLOGICA 1970.

Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei. 231. A Contribution to the Knowledge of the Genus Medetera (Dolichopodidae, Diptera) of Mongolia

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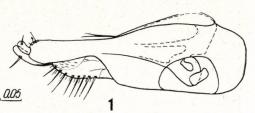
Medetera micacea Lw.

C entral aimak: Onžulin Chundi, 1400 m, 100 km SW v. Ulan-Baator, 15.4. 1964, 3 \bigcirc (Nr 131); 25 km 0 von Somon Lun, 1180 m, 4.7. 1964. 1 \bigcirc (Nr 262); 12 km SO v. Ulan-Baator, Nucht in Bogdo ul, 1500 m, 6. 7. 1964, 4 \checkmark , 3 \bigcirc (Nr 271, 272); Zuun-Chara, Duusch-ul, 1160 m, 8. 7. 1964 (Nr. 284); Kerulen, 45 km 0 v. Somon Bajandelger, 1400 m, 26. 7. 1965 (Nr 304); Uburchangaj aimak: Changaj Gebirge, 2 km S von Somon Schanch, 1690 m, 30. 6. 1964, 1 \bigcirc (Nr 230); Chentej aimak: Čandagan tal 40 km 0 v. Somon Žargaltchaan, 1300 m, 28. 7. 1965, 1 \bigcirc (Nr 316); 7 km NO von Somon Mörön, 1200 m, 28. 7–21. 8. 1965 (Nr 323); Archangaj aimak, Changaj Gebirge, 8 km W von Somon Urdtamir, 1620 m, 19. 6. 1966 (Nr 538).

Medetera kaszabi sp. n. (Fig. 1.)

M ale. Frons metallic green, faintly brilliant, dusted whitish grey. Face narrow, metallic shining, green. Epistoma dusted grey; its length 1.5 times longer than the height of the clypeus. Clypeus metallic green, hardly noticeably dusted on the sides. Antennae black. Third joint of the antennae cross-oval, its length less than its height. Arista apical, brown, its length equal to the distance from ocellar bristles to the lower edge of the face. Palpi metallic shining, blackish brown. Postocular bristles yellow. Thorax metallic brilliant, green, dusted grey. Mesonotum with black bristles. Propleurae with 2 yellow robust bristles. Dorsocentral bristles

hardly differing in length, 3 pairs of dorsocentral bristles. Acrostichal bristles developed. 1 notopleural and 1 supraalar bristles. Scutellum with 2 bristles at hind edge, below yellow. Wings hyaline with yellow weins. Proportions between length of the QOS section of costal vein between r_{2+3} and r₄₊₅ and the length of the section Fig. 1. Medetera kaszabi sp. n. Hypopygium, lateral



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of same vein between r_{4+5} and m_{1+2} as 1.7/0.7. r_{4+5} and m_{1+2} converging to the top, at the top of the wing parallel. Apical section m_{1+2} straight. Proportion of its length and the length of the basal part 5.0/5.9. Basal part of m_{3+4} without dilation. Proportions of apical section m_{3+4} and outer crossvein as 1.4/0.8. Halteres yellow. Squamulae and cilia yellow. Legs brown, tops of tarsi darker. Fore coxae with dark hairs, Middle tibiae with 1 antero- and 1 posterodorsal bristle at the base. Hind femora with a group of anterodorsal bristles at the base. Hind tibiae with a group of pale posterodorsal bristles at the top of tibiae, with a row of robust black bristles at the top on posteroventral side. First hind tarsal joint with a small tooth on the posteroventral side. Proportions of hind tarsal joints I/II as 1.3/2.4. Abdomen metallic green, brilliant, dusted grey, with yellow hairs. Hypopygium long. Epandrium long, narrowing to the top. Gonopods wide. Surstylus consisting of 2 bristles. Cerci long on dorsal side, with robust bristles and hairs.

Length 1.7 mm, wing length 1.5 mm.

Holotypes: A. Mongolia, Central aimak: Zuun Chara, Duusch ul, 1100 m, 8. 7. 1964 (Nr 284).

Paratypes: $2 \, \bigcirc$, Chentej aimak; 150 km ONO v. Öndörchaan, 10 km S von Kerulen, 1000 m, 30. 7. 1965 (Nr 331); $2 \, \bigcirc$, Dzavachan aimak, Tes-somona, 3-4. 7. 1968 (M. KozLov); $1 \, \bigcirc$, Chövsgöl aimak, Tes Fluss bei Schwzjin-Gol, 1. 7. 1968 (M. KozLov). Holotype and one paratype deposited in the collection of the Hungarian Natural History Museum (Budapest). The other paratypes deposited in the collection of the Zoological Institute, Academy of Sciences of USSR (Leningrad).

Medetera latipennis sp. n.

Male. Frons dark green, with a bronze reflection, densely dusted grevish brown. Face narrowed in basal 1/3 of epistoma. Epistoma dark green, with a bronzy reflection, densely dusted greyish brown, with a metallic shining patch in basal 1/3. Clypeus metallic, brilliant, dark green, dusted greyish on the sides. Antennae black. Third joint of antennae cross-oval. Arista apical, brown, its length equal to the distance from vertical bristles to the lower edge of palpi. Postocular bristles vellow. Thorax metallic shining, dark green, dusted greyish brown. Propleurae with 2 robust dusky yellow bristles, approximately equal in length. Mesonotum with 3 dark longitudinal stripes and black bristles. 3 pairs of comparatively robust dorsocentral bristles, first pair emerging before suture. Acrostichal bristles comparatively well developed. From scutellum to the line connecting sutural bristles 2–3 pairs of acrostichal bristles. 2 notopleural and 1 supraalar bristles. Scutellum with robust bristles and 2 bristles smaller in length. Length of scutellum considerably exceeding half of its width. Proportions of the length of scutellum and its width as 1.1/1.5. Wings hyaline. r_{4+5} and m_{1+2} converging to the top. Apical section of m_{1+2} scarcely curved. Apical section m_{3+4} scarcely longer than outer crossvein. Halteres yellow. Squamulae and cilia yellow. Femora greenish brown, top of femora, knees, tibiae and the base of tarsi yellow. Fore coxae with yellowish brown hairs. Middle tibiae with 1 antero- and 1 posterodorsal bristles. Hind femora with a group of long anterodorsal bristles at base. Hind tibiae with 1 dorsal bristle and 1 posterodorsal bristle at base of the tibiae, and with a row of robust bristles on posterodorsal side. First hind tarsal joint with a small tooth on the inner side, its length about 2 times less than that of the second one. Abdomen metallic brilliant, dark, green, with grevish brown pubescence and durky vellow hairs. Hypopygium short. The height of the epandrium considerably exceeding 1/2 of

its length. Gonopods narrow, almost straight, only dorsal lobe bent to ventral side at the top. Surstylus whiplike, bristles of surstylus from a common base. Cerci with clawlike bristles at the top and an appendix on ventral side at the apex of cerci. Hypandrium narrow, dilated only at the base and wedge-like, narrowing to the top. Phallus plain. Ejaculator strongly incrassate. Dorsal apodema of the phallosome with a large appendix on dorso-proximal side. Phallobase with a toothlike appendix.

Female unknown.

Length 1.8-2.0 mm, wing length 2.1-2.2 mm.

Holotype: J. Mongolia, Alashan, Dun-yuan-ik, 22–27, 6. 1908, leg. Koslov (prep. N 24,008).

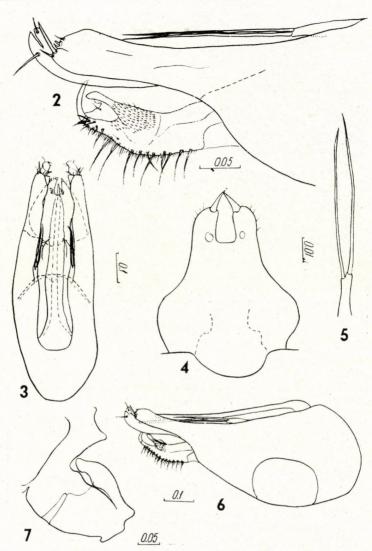
^{\circ} Paratype: 1 $^{\circ}$. Mongolia, Central aimak; 12 km SO v. Ulan-Baator, Nucht i Bogdo ul, 1500 m, 6. 7. 1964 (Nr 271).

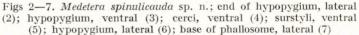
Holotype deposited in the Zoological Institute of the Academy of Sciences of the USSR (Leningrad). Paratype deposited in Hungarian Natural History Museum (Budapest).

Medetera spinulicauda sp. n. (Fig. 2-7.)

Male. Frons dark, metallic, green, dusted grey. Face metallic green, brilliant, broad, dilated to the base. Epistoma dusted grey on the edges; its height 1.5 times as long as that of clypeus. Antennae black. Third joint of the antennae oval, its length exceeding its height. Arista preapical, dark, brown at the apex; its length equal to the distance from the base of ocellar bristles to the lower edge of epistoma. Postocular bristles whitish vellow. Thorax dark, metallic, green, dusted grey. mesonotum with dark longitudinal stripes. Propleurae with 2 brown bristles approximately equal in length. Dorsocentral bristles becoming noticeably longer from frontal edge of mesomotum to scutellum, 3 robust dorsocentral bristles, first, one before suture. Acrostichal bristles fine. 1 supraalar bristle. 1-2 notopleural bristles. Scutellum with 2 robust and 2 small marginal bristles. Coxae and femora (excluding the tops) dark brown, knees vellow, tibiae and base of tarsi vellowish brown, top of tarsi darkened. Coxae with yellow hairs. Femora without bristles from below. Middle tibiae with 1 antero- and 1 posterodorsal bristles at the base: anterodorsal bristle a little better developed and nearer to the apex than posterodorsal one. Distance between the base of bristles about equal to or exceeding the length of anterodorsal bristle. Hind femora with a group of long anterodorsal bristles at the base. Hind tibiae with 1 robust dorsal bristle at the base; at the top with several long dorsal bristles, and on the top with a hollow on posterodorsal side. surrounded at the base by a row of long golden bristles, and at the top by a row of robust black bristles. First hind tarsal joint with a small tooth on the inner side. Proportions of the hind tarsal joints I/II as 1.4/2.5. Wings hyaline. r_{4+5} and m_{1+2} converging. Apical section of m_{1+2} scarcely curved. Proportions of the length of outer crossvein and the length of the apical section m_{3+4} as 1.2/1.8. Halteres and squamulae yellow, cilia whitish yellow, dusted grey, in dusky yellow hairs. Hypopygium big. Height of epandrium about 1.5 times less than its length. Gonopods short. Dorsal and ventral lobes of gonopods closely connected and without a split slid. Ventral lobe of gonopods wide at the apex dilated. Surstylus consisting of 2 bristles with a common base and of about equal height. Bristles of surstylus whiplike, without appendix. Cerci short, at the top with a clawlike robust bristle, on dorsal side with numerous robust bristles and hairs, on ventral side with a long

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appendix in fine bristles. Hypandrium narrow. Phallosome consisting of a large ejaculator, dorsal apodema well developed, 2 small lateral apodemata, phallus thin.

Female. Face a little wider. First hind tarsal joint without a small tooth on the inner side.

Length 1.6-2.4, wing length 1.8-2.7 mm.

Holotype: J. Amur region, 40 km W Svobodnij, Klimouzi, 22. 5. 1959. leg. ZINOVJE V (deposited in Leningrad).

Par atypes: $16 \circ$, $34 \circ$, all the same as holotype, 4. 6. 1958 (prep. Nr 24,115, 24,116, 24,186, 24,129); Mongolia Central aimak: 12 km SO v. Ulan-Baator, Nucht

i. Bogdo ul. 1500 m, 6. 7. 1964, 1 \bigcirc 4 \bigcirc (Nr 271, 272); Zaisan, Bord ul., 15. 6. 1967, 2 \bigcirc , 1 \bigcirc (M. Kozlov); Bajanchongor aimak: Changaj Gebirge, Ulaan čolon, 18 km S vom Pass Egijn davaa, 2300 m, 21. 6. 1966, 3 \bigcirc (Nr 552); Südgobi aimak: Gurban Sajchan ul, 30 km S v. Somon Bulgan, 1700 m, 19. 6. 1964, 1 \bigcirc (Nr 154); Archangaj aimak, Changaj Gebirge, 8 km W von Somon Urdtamir, 1620 m, 19. 6. 1966, 2 \bigcirc (Nr 538, 540).

Medetera brunea sp. n.

Male. Frons metallic, brilliant, green, tinged bronzy, dusted greyish-brown. Face metallic, brilliant, in the lower part of epistoma and in the middle of clypeus green, dusted grevish on the sides, under the antennae and near the suture. Its width under the antennae exceeding 1.5 times the height of the third joint of the antennae. Epistoma hardly longer than clypeus. Antennae black. The third joint cross-oval, its length less than its height. Arista apical, brown, its length equal to the distance from ocellar bristles to lower edge of palpi. Palpi metallic, brilliant, green with brown bristles. Postocular bristles yellow. Thorax metallic, brilliant, green, densely dusted brown, mesonotum without stripes. Propleurae with 2 black bristles, about equal in length. Dorsocentral bristles hardly differing in length. 3 pairs of comparatively robust dorsocentral bristles. Robust dorsocentral bristles absent before suture. Acrostichal bristles well developed, length of hindmost one exceeding the distance between the rows of acrostichal bristles. From the line connecting sutural bristles towards scutellum 3 pairs of acrostichal bristles. Between head and sutural bristle more than 10–11 bristles. 2 notopleural and 2 supraalar bristles. Scutellum with 4 bristles. Wings hardly darkened with brown veins, Apical section of m_{1+2} slightly longer than basal section of same vein, r_{4+5} and m_{1+2} converging to the apex, at the top of the wing parallel. Apical section of m_{1+2} slightly curved. Proportions of the length of the apical section of m_{3+4} and the length of the hind crossvein as 1.7/1.3. Halteres yellow. Squamae yellow with yellow bristles. Legs greenish-brown, knees dingy yellow. Middle tibiae with 1 anterodorsal and 1 posterodorsal bristles at the base. Hind femora with a row of short anteroventral bristles at the top. Hind tibiae with 1 robust dorsal bristle at the base. First joint of hind tarsi with a small tooth on the inner side. Proportions of the first joint of hind tarsi and the second joint as 1.8/3.7. Abdomen metallic, brilliant, brownish-green. Hypopygium big. Gonopods not divided at apex into dorsal and ventral lobes. Surstyli consisting of 2 bristles having a common base and separated from epandrial base and located at the same height. Cerci with robust bristles and hairs on the dorsal side. Hypandrium narrow, long.

Female differing from male by a wider face.

Lenght 4.5 mm, wing length 4.5–4.7.

Holotype: 7 Mongolia, Archangaj aimaik, Changaj Gebirge, Somon Ichtamir and Somon Čuluut, 20 km W von Ichtamir, 2150 m, 19. 6. 1966 (Nr. 546) (deposited in Natural History Museum, Budapest).

Paratypes: $7 \circ^{1}, 5 \circ^{1}$, ibid (one \circ^{1} and one \circ^{1} deposited in Leningrad).

Medetera subtristis sp. n. (Fig. 8–15.)

Male. Frons dark green, dusted brown. Face brilliant, metallic green, narrowed above middle of epistoma, with the edges widening below. Antennae black. Third joint of antennae not large, with a small hollow at the base of arista; its length less

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than its width. Upper edge of third joint longer than lower one. Arista dark, its length equal to the distance from the lower edge of the head to the upper edge of the antennae. Postocular bristles dark. Thorax black with a greenish brown reflection, densely covered with a greyish pruinosity. Propleurae with 2 brown bristles, lower one longer than upper one. Dorsocentral bristles becoming noticeably longer from front edge of mesonotum to scutellum. 3–4 pairs of robust dorsocentral bristles. Acrostichal bristles well developed. 2 supraalar bristles. Scutellum with 4 marginal bristles. Legs, including coxae, black, knees dark brown. Coxae and femora with black bristles. Fore femora with several hardly lengthened posterodorsal bristles at the top. Middle femora from the frontal side with a row of long bristles better developed at the top of femur, their length exceeding 1/2 of the width of femur at the point of the base of the bristle. Middle tibiae with 1 anteroand 1 posterodorsal bristles at the base. Hind femora with long anterodorsal bristles at the base and with long bristles at the top from the frontal side and on antero-

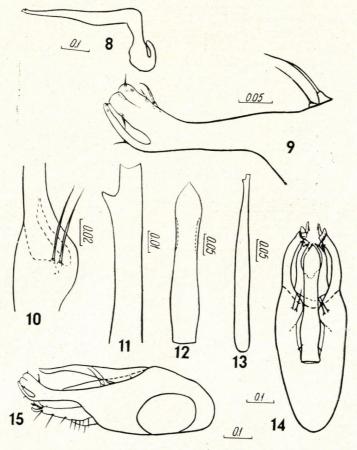


Fig. 8–15. *Medetera subtristis* sp. n. – phallus, lateral (8); end of hypopygium, lateral (9); base of gonopods and surstyli, ventral (10); end of phallus, ventral (11); hypandrium, ventral (12); phallus, ventral (13); hypopygium, ventral (14); hypopygium, lateral (15)

dorsal side. Hind tibiae with several pale bristles at the top on dorsal side. Proportions of hind tarsal joints I/II as 1.7/2.5. Wings scarcely darkened. r_{4+5} and m_{1+2} converging, in the apical part parallel. Apical section of m_{1+2} scarcely curved, slightly exceeding the length of the basal section. Proportions of the length of outer crossvein and the length of apical section of m_{3+4} as 1.1/2.6. Squamula and cilia dusky brown. Halteres dark. Abdomen dark, dusted greyish, with brown hairs. Hypopygium dark. Basal part of gonopods straight, at the apex abruptly curved to the ventral side. Ventral lobe of gonopods well developed, 3–4 times larger than the dorsal lobe of gonopods. Each of the bristles of surstylus with a separate base, the inner one better developed than the outer one. Hypandrium long, narrowed in the middle. Phallus at the left hand top with a small appendix. Cerci long, narrow.

Female. Face wider than in male.

Length 2.0-2.9 mm, wing length 2.0-2.7 mm.

Holotype: \bigcirc USSR, Port Baical, 24. 6. 1965, leg. NEGROBOV (deposited in Leningrad). Paratypes: 3 \bigcirc , USSR, Port Baical, 24. 6. 1965, leg. NEGROBOV; Mongolia, Central aimak: Ulan-Baator, Nucht, im Bogdo ul, 1650 m, 4. 6. 1966, 1 \bigcirc , 1 \bigcirc , (Nr 493); Archangaj aimak: Changaj Gebirge, zwischen Somon Ichtamir und Somon Culuut, 20 km W von Ichtamir, 2150 m, 19. 6. 1966, 8 \bigcirc , 4 \bigcirc (Nr 544); Changaj Gebirge, 8 km W von Somon Urdtamir, 1620 m, 19. 6. 1966 (Nr 538).

Medetera sp. aff. mongolica NEGROBOV

1 \bigcirc , Mongolia, Suchebaator aimak, 25 km N von Somon, Bajanterem, 950 m, 1.8.1965 (Nr. 345).

Key to the species of the genus *Medetera* from Mongolia:

1	(4)	Last section of m_{3+4} at least 1.5 times as long as outer crossvein.
2	(3)	Legs black M. subtristis, sp. n.
3	(2)	Legs yellow M. kaszabi, sp. n.
4	(1)	Last section of m_{a+4} shorter than outer crossvein.
5	(8)	Thorax with 3 pairs of dorsocentral bristles.
6	(7)	Scutellum with 2 briteles M. macacea Lw.
7	(6)	Scutellum with 4 bristles M. mongolica NEGROBOV
8	(5)	Thorax with more than 3 pairs of dorsocentral bristles.
		Tibia yellow
		Tibia black
		Thorax with cross stripes M. brunea, sp. n.
12	(11)	Thorax withour stripes M. spinulicauda, sp. n.

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