

REICHENBACHIA

Staatliches Museum für Tierkunde Dresden

Band 29

Ausgegeben: 10. Dezember 1992

Nr. 32

Oldenbergiella pappi sp. n., a new heleomyzid species from Spain (Insecta, Diptera: Heleomyzidae)

With 5 figures

MIGUEL C A R L E S - T O L R Á

Barcelona

Abstract. A new species of Heleomyzidae, *Oldenbergiella pappi* sp. n., is described from Spain. Furthermore, the genus *Oldenbergiella* CZERNY is recorded for the first time in Spain.

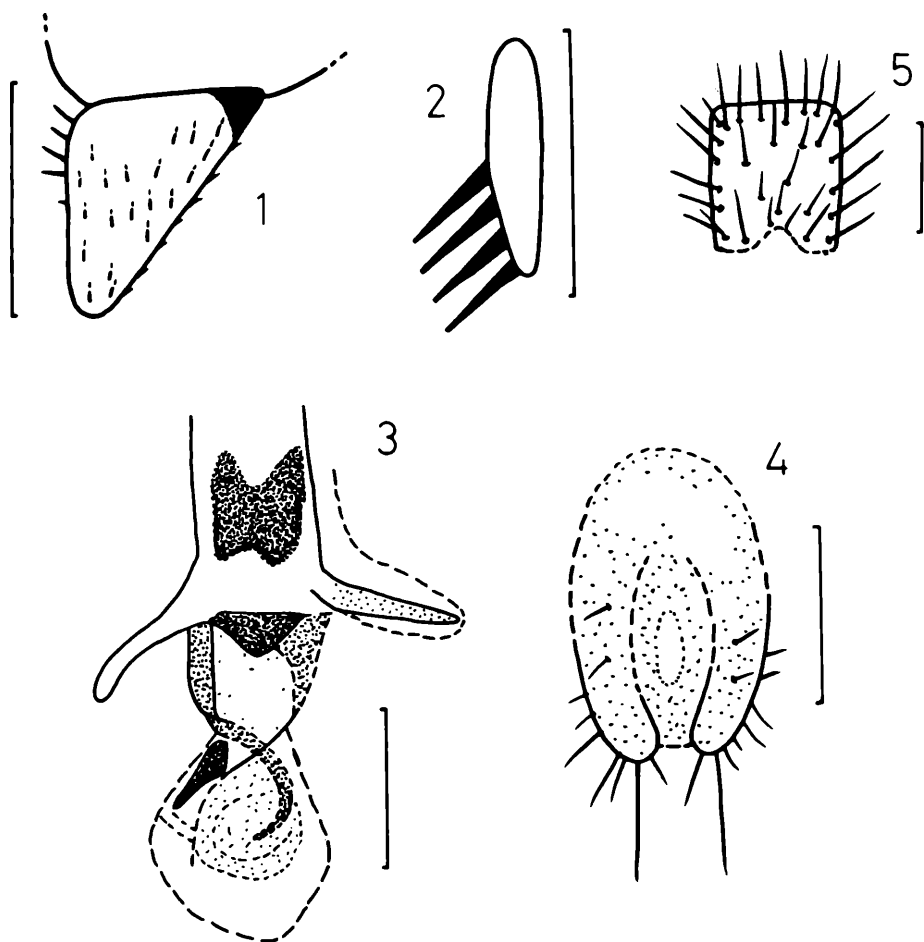
The heleomyzid genus *Oldenbergiella* CZERNY, 1924 comprises small, usually dark grey dusted species. It is an uncommon genus, represented in the Palaearctic region by only 5 species (4 from Europe and 1 from North Caucasus) (PAPP, 1980; GORODKOV, 1984). Biology unknown, some of the records are from excrements and decaying organic matter, so they are probably saprophagous.

During the study of heleomyzid material collected by Mr. Javier Blasco-Zumeta in a very arid region of the northeast of Spain called Monegros, concretely in a zone named Retuerta de Pina (Zaragoza, Pina de Ebro), some exemplars of *Oldenbergiella* have appeared. After a detailed study of them, they have turned out to be new to science. It is also worth mentioning that the genus *Oldenbergiella* is recorded for the first time in Spain.

Oldenbergiella pappi sp. n.

Male. Head and thorax dark brown, abdomen clearer; grey dusted. Frons mat, ocellar triangle very short, not reaching the middle of frons. Anterior half of frons orange. Anterior ors nearer to the posterior ors than to the lunule. 3rd antennal joint dark brown, big, rounded. Arista short, micropubescent. Eyes rounded. Gena orange, not much wide, distance of vibrissa from edge of eye only three tenth of longitudinal axis of eye. Face darkened, concave. Chaetotaxy: head: pvt convergent, oc, vte, vti, 2 ors, vi; thorax: 1 h, 2 np, 1 prst, 0+2 dc (anterior shorter), 3 ac rows, 1 short prsc, 1 sa, 2 pa, 2 sc (basal ones shorter than scutellum) (paratype male with 1 additional hair on the left side), 1 pp, 0 mp, 1 st. Legs dark brown, knees orangish. Dorsal preapical bristle of all tibiae short. Ventral spur of mid tibia short, curved. Mid metatarsus twice as long as second joint (mt 2 / 2nd joint=1.8-2), hind metatarsus short and thickened (mt 3 / 2nd joint=1.7-1.8), ventral apical spine of hind metatarsus weak. Wing: veins light brown; costal vein normal, not thickened; costal spines very weak; mg 3 / mg 4=1.0-1.17, m 1+2 / ta-tp=1.17-1.42. Abdomen with marginal weak bristles. Male genitalia (Figs. 1-4). Editum (Fig. 1): right-angled-shaped, with small sparsely hairs on its internal side. Gonite (Fig. 2): V-shaped, distal arm with 4 strong parallel bristles. Phallus (Fig. 3): long, dorsoventrally flattened, rounded apically, with 1 pair of median lateral processes (finger-like in ventral view, wing-shaped in frontal view). Cerci (Fig. 4): fused, with only 1 moderately long apical bristle (half as long as cercus). Hypandrium with 1 very long posterolateral bristle.

Female: Legs clearer than in the male. Measurements equal or similar to those of the males. Remaining characters as in the male. Tergite 8 (Fig. 5) slightly longer than wide, subquadrangular, with hairs on all its surface. Sternite 8 divided into 2 subparallel haired sclerites.



Figs. 1-5: *Oldenbergiella pappi* sp. n.

1: left editum, 2: distal arm of the left gonite, 3: phallus in ventral view, 4: cerci, 5: female tergite 8.

Scales = 0.1 mm

Total body length: males: 2.6 mm; females: 2.8-3 mm (postabdomen evaginated).

Wing: length: males: 2.6; females: 2.5-2.6; width: males: 1.05; females: 0.9-1.05.

Holotype, male: Spain, Zaragoza, Pina de Ebro (Monegros, Retuerta de Pina), 20. I. 1991, Malaise trap (Blasco leg.). Paratypes: same data as for holotype, 22. XII. 1990 1 female (Malaise trap), 7. I. 1991 1 male (Moericke trap), 20. XI. 1991 1 female (Moericke trap), all Blasco leg. Type specimens preserved in alcohol in the author's collection.

Discussion: According to PAPP's (1980) key, *O. pappi* sp. n. keys out to *O. brumalis* CZERNY (costa not thickened; male hind metatarsus shortened; ventral spur of mid tibia short; phallus without spine-like ventral process; editum attenuating apically; anterior ors not close to lunule). Nevertheless, both species can be easily differentiated by genital characters.

Biology: Unknown, the specimens were collected with Malaise and Moericke traps.

Distribution: Hitherto known only from Spain (northeast).

Remarks: I name this new species for Dr. Papp for his great help and collaboration.

Acknowledgements

I am very grateful to Mr. Javier Blasco-Zumeta (Zaragoza, Pina de Ebro) for the shipment of that very interesting dipterological material to study, and also very specially to Dr. L. Papp (Budapest) for having corroborated that this species is new to science, as well as for his kind comments.

References

- CARLES-TOLRÁ, M., 1990: Contribución al estudio de los Díptera, Cyclorrhapha, Acalyptratae (Insecta) de España peninsular. Tesis Doctoral. Facultad de Biología, Barcelona. 621 pp.
- CARLES-TOLRÁ, M. (in press): New and interesting records of Díptera Acalyptrata from Spain. Part II: Heleomyzidae, Trixoscelididae, Chyromyidae, Curtonotidae, Camillidae, Diastatidae and Campichoetidae. - Graellsia.
- CZERNY, L., 1924: Monographie der Helomyziden (Dipteren). - Abh. zool.-bot. Ges. Wien **15** (1): 2-166.
- CZERNY, L., 1927: 53 a. Helomyzidae. In: LINDNER, E., Die Fliegen der Palaearktischen Region, **5**: 1-46.
- GORODKOV, K. B., 1970: 80. Family Helomyzidae. Keys to the Insects of the European Part of the USSR, **5** (2): 306-325.
- GORODKOV, K. B., 1984: Family Heleomyzidae: 15-45. In: SOÓS, A., Catalogue of Palaearctic Díptera. Volume 10, Clusiidae-Chloropidae. Elsevier Sci. Publ., Amsterdam & Akadémiai Kiadó, Budapest. 402 pp.
- PAPP, L., 1980: Three new species of Helomyzidae (Diptera) from Hungary. - Acta zool. Acad. Sci. hung. **26** (1-3): 211-221.
- PAPP, L., 1981: 54. Heleomyzidae. Fauna Hungariae, Budapest, **149** (15)(5): 1-77.

Author's address:

Dr. M. Carles-Tolrá, Avda. Príncipe Asturias 30 át. 1 a, E-08012 Barcelona (Spain)

(Received on 25. V. 1992)

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Reichenbachia](#)

Jahr/Year: 1992

Band/Volume: [29](#)

Autor(en)/Author(s): Carles-Tolrá Miguel

Artikel/Article: [Oldenbergiella pappi sp. n., a new heleomyzid species from Spain \(Insecta, Díptera: Heleomyzidae\) 195-197](#)