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**New records of Pteromalidae (Hymenoptera: Chalcidoidea)
for the fauna of Romania and the Carpathian Basin**

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Abstract – Three genera (*Cea* WALKER, 1837, *Erythromalus* GRAHAM, 1956 and *Perniphora* RUSCHKA, 1923) and eleven species of Pteromalidae belonging to the subfamilies Ceinae, Ormocerinae, Miscogasterinae, Pireninae and Pteromalinae were found to be new for Romania. Two of them are new for the Carpathian Basin too. One new plant associate record is given for *Thektogaster abdominalis* DELUCCHI, 1953.

Key words – Hymenoptera, Pteromalidae, new records, Carpathian Basin, Romania.

INTRODUCTION

ANDRIESCU (1971, 1973, 1993) studied the Pteromalidae of Romania in detail, while several species records were published by BOȚOC (1967, 1972) and TUDOR (1969, 1971). In the last years the number of known Pteromalidae species for the fauna of Romania showed significant growing (ANDRIESCU 2001, ANDRIESCU & MITROIU 2001, 2003*a, b*, 2004, LÁSZLÓ 2003, MITROIU 2001, 2004, 2005*a, b*, MITROIU & ANDRIESCU 2005, MITROIU & POPESCU 2006). However, the Pteromalidae fauna of the Transylvanian part of Romania is still poorly known. The number of published species is around one hundred, while based on the number and complexity of habitat types there should be more than 400 species (LÁSZLÓ 2006).

The specimens were collected by the author and other staff members of the Hungarian Natural History Museum (HNHM) between 1912 and 2002. Some of these species were determined by other chalcidologists (JÓZSEF ERDŐS, GUSZTÁV SZELÉNYI, HANS VON ROSEN and CSABA THURÓCZY), but

these data were never published before. All specimens are deposited in the Hymenoptera collection of the HNHM in Budapest.

LIST OF SPECIES WITH COMMENTS
ON THEIR BIOLOGY AND DISTRIBUTION

Cea WALKER, 1837

Remarks – *Cea* WALKER, 1837 is represented by a single species in the Western Palaearctic. This genus is new for Romania.

Cea pulicaris WALKER, 1837 – Romania, [Bihar county,] Tășnad, 12.VII.1912, 1 male, leg. BÍRÓ, det. ERDŐS, HNHM. – Its biology is unknown. It was recorded from Hungary (ERDŐS 1960) and Moldavia (BOUČEK 1965). New species for Romania.

Erythromalus GRAHAM, 1956

Remarks – The genus includes two species, *E. rufiventris* (WALKER, 1835) and *E. nubilipennis* (WALKER, 1835) occurring in the Western Palaearctic (GRAHAM 1956, 1969). Both species were mentioned from the Carpathian Basin (BOUČEK 1977, KALINA 1989) and Moldavia (BOUČEK 1965). New genus record for Romania.

Erythromalus rufiventris (WALKER, 1835) – Romania, [Alba county,] Munții Cugirului, Rîu Mare, 5.VIII.1913, 2 females, leg. BÍRÓ, HNHM; Romania, [Harghita county,] Munții Giurgiului, Praid, 1.VII.1995, 1 female, leg. PODLUSSÁNYI, HNHM; Romania, [Alba county,] Munții Cugirului, Sugag, 20.VII.1993, 1 female, leg. ROZNER, HNHM. – Its biology is unknown. New species for Romania.

Gastrancistrus WESTWOOD, 1833

Remarks – More than 100 described species belong to this worldwide-distributed genus (NOYES 2003). About 50 are reported from the Western Palaearctic (GRAHAM 1969), and seventeen of them were mentioned from the Carpathian Basin (NOYES 2003).

Gastrancistrus acutus WALKER, 1834 – Romania, [Maramureș county,] Munții Maramureșului, Pop Ivan, 13.VIII.1939, 1 female, leg. SZELÉNYI, det. SZELÉNYI, HNHM. – Its biology is

unknown. GRAHAM (1969) found the species on rough pastures, meadows and sand dune vegetation. New species record for the Carpathian Basin and Romania.

Lamprotatus WESTWOOD, 1833

Remarks – The genus is distributed worldwide. About twenty species occur in the Western Palaearctic (BOUČEK & RASPLUS 1991, GRAHAM 1969). They are usually parasitoids of leaf mining Agromyzidae and other Diptera (NOYES 2003).

Lamprotatus annularis (WALKER, 1833) – Romania, [Hunedoara county,] Retezat National Park, 24.VII.2000, 1 male, leg. LÁSZLÓ, HNHM. – This species is widely distributed in Europe, in the vicinity of the Carpathians it was recorded from the Czech Republic (KALINA 1989) and Hungary (ERDŐS 1946). New species record for Romania.

Lamprotatus pschorni DELUCCHI, 1953 – Romania, [Covasna county,] Valea Oituzului, 10.VII.2001, 1 male, leg. LÁSZLÓ, HNHM. – A European species. From the central and eastern part of Europe it was recorded from the Czech Republic (KALINA 1989), Croatia (BOUČEK 1977) and Moldavia (BOUČEK 1965). New species record for Romania.

Merismus WALKER, 1833

Remarks – Five *Merismus* species are known to occur in Europe (BOUČEK & RASPLUS 1991). Two of them, *M. megapterus* WALKER, 1833 (ANDRIESCU 2001, MITROIU & POPESCU 2006) and *M. rufipes* WALKER, 1833 (MITROIU & POPESCU 2006) have already been recorded from Romania. The species are mainly parasitoids of leaf mining Diptera.

Merismus nitidus (WALKER, 1833) – Romania, [Harghita county,] Lacul Dracului, creek shores, 9.VIII.2000, 1 female, leg. LÁSZLÓ, HNHM. – There is a single record about the biology of this species: it is primary parasitoid in the pupa of *Cnemacantha rorida* (FALLÉN, 1820) (Diptera, Lauxaniidae) (ASKEW 1970). New species record for Romania. This is its easternmost locality.

Mesopolobus WESTWOOD, 1833

Remarks – More than 100 described valid species belong to this worldwide genus (NOYES 2003). About fifty of them occur in the Western Palaearctic (BOUČEK & RASPLUS 1991, GRAHAM 1969). They are parasitoids of various insects, mainly Diptera, Coleoptera, Lepidoptera and Hymenoptera (NOYES 2003).

Mesopolobus incultus (WALKER, 1834) – Romania, [Bistrița-Nasăud county,] Munții Rodnei, 22.VII.1943, 1 female, leg. ERDŐS, det. von ROSEN. – A hyperparasitoid in *Apion* sp. in *Trifolium pratense* (ROSEN 1961, GRAHAM 1969), it is distributed all over Europe and Middle East (ROSEN 1958, GRAHAM 1969). New species for Romania.

Perniphora RUSCHKA, 1923

Remarks – Two species, the Western Palaearctic *P. robusta* RUSCHKA, 1923 and the Nearctic *P. americana* MILLER, 1965 belong to this genus.

Perniphora robusta RUSCHKA, 1923 – Romania, [Covasna county,] Valea Oituzului, *Picea* cutting, 10.VII.2001, 3 females, leg. LÁSZLÓ. – A European species. Ectoparasitoid of xylophagous beetles (HEDQVIST 1963, THOMSEN *et al* 1949). New species for Romania.

Semiotellus WESTWOOD, 1839

Remarks – Eight *Semiotellus* species occur in Europe (NOYES 2003). They are usually parasitoids of Cecidomyiidae (Diptera) (BOUČEK & RASPLUS 1991).

Semiotellus fumipennis THOMSON, 1856 – Romania, [Hunedoara county,] Retezat National Park, 25.VII.2000, 1 male, leg. LÁSZLÓ. – Known distribution is Sweden and England (GRAHAM 1969). New species for the Carpathian Basin and Romania. This is the easternmost locality data.

Thektogaster DELUCCHI, 1955

Remarks – Four species of this Palaearctic genus occur in Europe. Their biology is nearly unknown (GRAHAM 1969), although *T. aberlenci* DELVARE, 1986 was collected on *Gentiana lutea* (DELVARE 1986 in BOUČEK & RASPLUS 1991). The genus is mentioned by for Romania MITROIU (Ph.D. thesis, unpublished).

Thektogaster abdominalis DELUCCHI, 1953 – Romania, [Harghita county,] on *Rubus* sp. shrubs in a pine forest between Borsec and Toplița, 1.IX.2002, 1 female, leg. LÁSZLÓ. – In Europe it is known from Austria and Sweden (DELUCCHI 1953, HEDQVIST 2003). New species for Romania and new plant associate record.

Trichomalus THOMSON, 1878

Remarks – Over fifty species have been described in this worldwide genus (NOYES 2003). In the Western Palaearctic at least 40 species occur (BOUČEK & RASPLUS 1991). They are usually parasitoids of Diptera and Coleoptera.

Trichomalus helvipes (WALKER, 1834) – Romania, [Bistrița-Nasăud county,] Munții Rodnei, 19.VII.1943, 1 female, leg. ERDŐS, det. THURÓCZY; Romania, [Bistrița-Nasăud county,] Munții Rodnei, 24.VII.1943, 1 female, leg. ERDŐS, det. THURÓCZY; Romania, [Alba county,] Aiud, shores of the Mureș river, 25.VII.1917, 1 female, leg. BÍRÓ, det. THURÓCZY; Romania, [Hunedoara county,] Sibișel, 9.VII.1913, 1 female, leg. BÍRÓ, det. THURÓCZY. – Common in Europe, it is usually parasitoid of Curculionidae and Apionidae (GRAHAM 1969). New species for Romania.

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