

## Hemigasterini and Euryproctini (Hymenoptera: Ichneumonidae) new or rare for the Romanian fauna

Irinel CONSTANTINEANU, Raoul CONSTANTINEANU & Camil Ștefan LUNGU - CONSTANTINEANU

### Summary

In this paper the authors present 16 ichneumonid species belonging to 7 genera of tribes Hemigasterini (subfamily Cryptinae) and Euryproctini (subfamily Ctenopelmatinae), collected from some forest ecosystems, especially protected areas. The species *Euryproctus alpinus* Holmgren and *Euryproctus arbustorum* Holmgren are new for the Romanian fauna. The other 14 species are rare in the Romanian fauna and for all over the world.

### Rezumat

#### Hemigasterini and Euryproctini (Hymenoptera: Ichneumonidae) noi sau rare pentru fauna României

În această lucrare autorii prezintă 16 specii de ichneumonide care aparțin la 7 genuri din triburile Hemigasterini (subfamilia Cryptinae) și Euryproctini (subfamilia Ctenopelmatinae), colectate din unele ecosisteme forestiere, în special arii protejate. Speciile *Euryproctus alpinus* Holmgren și *Euryproctus arbustorum* Holmgren sunt noi pentru fauna României. Celelalte 14 specii sunt rare atât pentru fauna României, cât și pentru fauna mondială.

**Key words:** Ichneumonidae, Hemigasterini, Euryproctini, new or rare species, Romanian fauna

Order **HYMENOPTERA** Linnaeus, 1758  
Family **ICHNEUMONIDAE** Latreille, 1802

Subfamily **Cryptinae** Förster, 1869  
Tribe **Hemigasterini** Ashmead, 1900

#### Synonyms:

1944 *Aptesini*, Townes, Mem. Amer. Ent. Soc., **11**: 233.

1958 *Echthrini*, Narayanan & Lal, Proc. Indian Acad. Sci., **47**: 18.

I. Genus *Aptesis* Förster, 1850

Type species: *Ichneumon sudeticus* Gravenhorst, 1815, in Förster "Arch. Naturgesch.", **16** (1): 49 – 232.

#### Synonyms:

1850 *Aptesis* Förster, Arch. Naturdesch., **16** (1): 71.

1968 *Clypeodiodon* Aubert (subgenus *Aptesis*), Bull. Soc. Ent. Mulhouse, 1 – 9.

1. *Aptesis assimilis* (Gravenhorst, 1829), ♀

#### Synonyms:

1829 *Phygadeuon assimilis* Gravenhorst, Ichn. Eur., **2**: 1 - 989.

1883 *Microcryptus distans* Thomson, Opusc. Ent., **9**: 850 – 872.

**Material** : 1 ♀, July 26, 1992, "Codrul Secular Slătioara", natural reservation, Suceava county.

**Hosts**: unknown.

**Geographical distribution**: Western Europe, Western and Centre of ex-USSR. In Romania it is a relative rare species, being previously recorded by A. Kiss (1922 – 1924) from Rus, Sălaj county; by A. Kiss (1925 – 1926) from Sânnicolau of Beiuș, Bihor county, Cehu Silvaniei, Sălaj county; by A. Kiss (1929 – 1930) from Ineu, Arad county, Deva, Hunedoara county, Saschiz, Mureș county.

*Aptesis femoralis* (Thomson, 1883), ♂

#### Synonyms:

1883 *Microcryptus femoralis* Thomson, Opusc. Ent., **9**: 850 – 872.

1894 *Microcryptus zonatus* Kriechbaumer, 4386

**Material** : 1 ♂, May 17, 2007, "Uricani" natural reservation, Iași county.

**Hosts**: unknown.

**Geographical distribution**: Sweden. In Romania it is a relative rare species, being previously recorded by A. Mocsáry (1918) from Oravița, jud. Caraș – Severin, Ulmi, jud. Hunedoara and Ulmi, Hunedoara county; by A. Kiss, (1922 – 1924) from

Cojocna, Cluj county and by M. CONSTANTINEANU, R. CONSTANTINEANU (1968) from C. A. Rosetti, "Danube Delta", Biosphere Reserve, Tulcea county.

*Aptesis flagitator* (Rossi, 1794), ♀♂

**Synonyms:**

1794 *Ichneumon flagitator* Thomson, Opusc. Ent., 9: 850 – 872.

1829 *Phygadeuon pumilio* Gravenhorst, Ichn. Eur., 2: 1 - 989.

1829 *Cryptus tyranna* Gravenhorst, Ichn. Eur., 2: 1 - 989.

1856 *Cryptus hopei* Desvignes, Ichn. Brit. 2: 1 - 351.

1886 *Phygadeuon proximator* Costa, Rend. Acad. Sci. Fis. Mat., 24: 322 - 324.

1894 *Microcryptus tricolor* Kriechbaumer, 4386

1907 *Acanthocryptus hopei* (preocupat de *Aptesis hopei* Desvignes, Ichn. Brit. 2: 1 - 351.

1925 - 1926 *Acanthocryptus feketei*, Kiss, Verh. Mitt. Sieb. Ver. Naturwiss., 75 – 76: 74 – 120, Hermannstadt.

**Material** : 1 ♀, and 1 ♂♂, May 22, 2007, "Humosu" natural reservation, Iași

county, 1 ♂, May 17, 2007, "Uricani" natural reservation, Iași county.

**Hosts**: unknown.

**Geographical distribution**: Western Europe. In Romania it is a relative rare species, being previously recorded by A. MOCSÁRY (1918) from Mehadia, Caraș – Severin county, Ulmi, Hunedoara county; by A. KISS (1925 – 1926, 1929 – 1930) from Saschiz, Mureș county, Ineu, Arad county; by A. KISS (1925 – 1926) from Porcești Sibiu county; by M. CONSTANTINEANU et al (1975) from Ieșelnița, Mehedinți county and by M. CONSTANTINEANU, M. VOICU (1980) from "Ponoare" natural reservation, Suceava county.

4. *Aptesis leucotarsus* (Gravenhorst, 1829), ♀♂

**Synonyms:**

1829 *Cryptus leucotarsus* Gravenhorst, Ichn. Eur., 2: 1989.

1892 *Microcryptus amoenus* Kriechbaumer, Ent. Nachr., 18 (23): 362 - 365.

**Material** : 1 ♂, July 27, 1992, "Golul Alpin Todirescu", natural reservation, Suceava county.

**Hosts**: unknown.

**Geographical distribution**: Western Europe, Russia (European zone). In Romania it is a very rare species, being previously recorded by M. CONSTANTINEANU & R. CONSTANTINEANU (1968) from

Hașmacu Mare forest, "Danube Delta" Biosphere Reserve, Tulcea county.

II. Genus *Cratocryptus* (Thomson, 1873)

Type species: *Cryptus furcator* Thomson, 1873, Opusc. Ent., 8: 732 – 777.

**Synonyms:**

1873 *Cratocryptus* Thomson, Opusc. Ent., 5 : 521.

1868 *Chaeretymma* Förster, Verh. Naturh. Ver. Preuss. Rheinl. Westf., 25: 187.

5. *Cratocryptus furcator* (Gravenhorst, 1829), ♀

**Synonyms:**

1829 *Cryptus furcator* Gravenhorst, Ichn. Eur., 2: 1 - 989.

**Material** : 1 ♀, May 17, 2007, "Uricani" natural reservation, Iași county.

**Hosts**: unknown.

**Geographical distribution**: Northern and Western Europe. In Romania it is a very rare species, being previously recorded by M. CONSTANTINEANU et al (1975) only from Dubova, Plavișevița commune, Mehedinți county.

III. Genus *Cubocephalus* Ratzeburg, 1848

Type species: *Cryptus fortipes* Gravenhorst, 1829, in Thomson, 1873, Opusc. Ent., 5: 455 – 527.

**Synonyms:**

1848 *Cubocephalus* Ratzeburg, Ichneumoniden der Forstinsecten, 2: 121;

1869 *Ecporthetor* Förster, Verh. Naturhist. Preuss. Ver. Preuss. Westf., 25: 135 – 223;

1869 *Pammachus* Förster, Verh. Naturhist. Preuss. Ver. Preuss. Westf., 25: 135 – 223;

1873 *Microcryptus* Thomson, Opusc. Ent., 5: 455 – 527;

1873 *Stenocryptus* Thomson, Opusc. Ent., 5: 455 – 527;

1949 *Planocryptus* Heinrich, Mitt. Münch. Ent. Ges., 35 – 39: 1 – 101.

6. *Cubocephalus anatorius* (Gravenhorst, 1829), ♂

**Synonyms:**

1829 *Cryptus anatorius* Gravenhorst, Ichn. Eur., 2: 1 - 989.

1917 *Cratocryptus exareolatus* Habermehl, Deutsch. Ent. Zeitschr., 61 - 64.

1924 *Plectocryptus albopictus* Kiss, Verh. Mitt. Si-ebenbürg. Ver. Naturwiss. Hermannstadt, 72 – 74: 32 – 146.

**Material** : 1 ♂, May 17, 2007, "Uricani" natural reservation, Iași county.

**Hosts:** unknown.

**Geographical distribution:** Western Europe, Russia (European and Siberian zones). In Romania it is a relative rare species, being previously recorded by A. MOCSÁRY (1918) from Tășnad, Satu Mare county; by A. KISS (1922 – 1924) from Rus, Sălaj county; by A. KISS (1925 – 1926) from Saschiz, Mureș county; by A. KISS (1929 – 1930) from Ineu, Arad county; by M. CONSTANTINEANU (1961) from Măgura Sibiului, Sibiu county and by J. ŠĚDIVÝ (1965) from Timișul de Sus, Brașov county.

7. *Cubocephalus nigriventris* (Thomson, 1874), ♀

**Synonyms:**

1874 *Stenocryptus erythrinus* Thomson, Opusc. Ent., 6: 589 – 612.

**Material :** 1 ♀, May 22, 2007, “Humosu“ natural reservation, Iași county.

**Hosts:** *Eupoecilia ambiguella* Hb., *Polychrosis botrana* Den. et Schiff. (Lep., Tortricidae), *Allantus cinctus* L. (Hym., Tenthredinidae).

**Geographical distribution:** Western Europe, Russia (European and Siberian zones). In Romania it is a very rare species, being previously recorded by A. Kiss (1922 – 1924) from Văliug, Caraș – Severin county and by A. Kiss (1925 – 1926) from Sibiu, Sibiu county.

IV. Genus *Echthrus* (Gravenhorst, 1829)

Type species: *Ichneumon reluctator* Linnaeus, in Gravenhorst, Ichn. Eur., 3: 1 – 1097.

**Synonyms:**

1840 *Sphaetes* Brems, Stett. Ent. Zeit., 10: 92 – 96.

1929 *Karaechthrus* Uchida, Ins. Matsum., 3: 169 – 187.

1930 *Bioleter* Meyer, Ezheg. Zool. Muz. Akad. Nauk SSSR, 31: 165 – 180.

1908 *Echthrus* Schmiedeknecht, Opusc. Ichn., 3: 1340.

8. *Echthrus reluctator* (Linnaeus, 1758), ♀♂

**Synonyms:**

1758 *Ichneumon reluctator* Linnaeus, Systema naturae, 1: 1 – 824.

1753 *Ichneumon usurpator* Scopoli, Entomologia carniolica, J. T. Trattner, Vindobonae, 30 + 420 + 3 pp.

1804 *Cryptus reluctator* Fabricius, Syst. Piez., p. 79.

1849 *Sphaetes crassicus* Brems, Stett. Ent. Zeit., 10: 95.

1829 *Echthrus reluctator* Gravenhorst, Ichn. Eur., 3: 863.

**Material:** 1 ♀, July 27, 1992, “Golul Alpin Todirescu”, natural reservation, Suceava county and 1 ♂, May 17, 2007, “Uricani” natural reservation, Iași county.

**Hosts:** *Rhagium inquisitor* L., *Saperda populnea* L and *Tetropium castaneum* L. (Col., Cerambycidae).

**Geographical distribution:** Northern, Western and Southern Europe. In Romania it is a relative rare species, being previously recorded by A. KISS (1922 – 1924) from Sibiu, Sibiu county; by M. CONSTANTINEANU (1928) from Retezat mountains, Hunedoara county; by M. CONSTANTINEANU (1971) Bârnova forest, Iași county, Turnișor, Sibiu county; by M. CONSTANTINEANU & G. ISTRATE (1973) from Câmpulung Moldovenesc, Suceava county; by C. PISICĂ (1977) from Rechetău, Bacău county and Turnișor, Sibiu county.

Subfamily **Ctenopelmatinae**, Förster, 1869

Tribe **Euryproctini** Thomson, 1883

V. Genus *Anisotacrus* Schmiedeknecht, 1913

Type species: *Mesoleius tenellus* Holmgren, 1857, Opusc. Ichn., 5 (33 – 35): 2563 – 2802.

9. *Anisotacrus bipunctatus* Gravenhorst, 1829, ♂

**Synonym:**

1829 *Euryproctus exareolatus* Thomson, Opusc. Ent., 1: 110, ♀♂.

**Material:** 1 ♂, May 14, 1964, National Park Retezat (Scientific Zone); 2 ♂♂,

July 27, 1992, “Golul Alpin Todirescu”, natural reservation, Suceava county and 1 ♂,

July 22, 1968, natural reservation “Codrul Secular Slătioara”, Suceava county.

**Hosts:** unknown.

**Geographical distribution:** Centre and Northern Europe, Ukraine (Poltava, Crimeea). In Romania it is a very rare species, being recorded previously by A. Kiss (1925-1926 and 1926) from Valea Vinului, Bistrița-Năsăud county, Râu Sadului, Sibiu county, Bucegi, Prahova county .

VI. Genus *Euryproctus* Holmgren, 1855

10. *Euryproctus alpinus* Holmgren, 1857, ♂

**Synonyms:**

1855 *Euryproctus alpinus* Holmgren, Svensk. Vet.-Akad., 1: 110.

1888 *Euryproctus exareolatus* Thomson, Opusc. Ent., 13: 1435, ♀♂.

**Material:** 2 ♂♂, August 14, 1964, National Park Retezat (Scientific Zone) and 5 ♂♂, in June 1967 and 1968, natural reservation “Codrul Secular Slătioara”, Suceava county.

♂. Body coarse-coriaceous, nonshiny. Head is not narrowed behind. Propodeum is obvious areoled. Area superomedia is opened behind. Areolet absent. Nervellus is intercepted above the middle. Tergite 1 is a little curved. Postpetiole gradually widened to its hind part, being of three times broader as petiole.

Black. White - yellowish are: palpi, clypeus, scapus on ventral side and face; face with a black median stripe. Antennae with an white ring; flagelli sometimes partially reddish. Tegulae black or with light edges. Tibiae, anterior tarsi and femorae, except base, are red. Hind tibiae with black end (tip), hind tarsi with an white ring. Middle of the abdomen is red. Length 10 – 12 mm.

**Hosts:** unknown.

**Geographical distribution:** Sweden, Austria, Russia (St. Petersburg, Kamciatka). **New species for the Romanian fauna.**

11. *Euryproctus arbustorum* Holmgren, 1856, ♂

**Material:** 1 ♂, July 18, 1969, “Codrul Secular Slătioara”, Suceava county.

♂. Head is a little broader than thorax, a little narrowed behind the eyes, densely, but fine rugous and punctuated, mat. Antennae long as body. Propodeum obviously carinated, area superomedia long, area posteromedia small, semicircular. Areolet small. Nervellus is intercepted approximately in the middle. Abdomen is plane, enough shiny.

Black. Face edges and mandibles are yellowish. Antennae ventrally are reddish. The tip of the anterior femorae, tibiae, tarsi and tergite 3 – 4 or only 3 are red. Length 10 – 12 mm.

**Hosts:** unknown.

**Geographical distribution:** Norway, Sweden, Russia. **New species for the Romanian fauna.**

12. *Euryproctus geniculosus* Gravenhorst, 1829, ♀♂

**Synonyms:**

1855 *Mesoleptus geniculosus* Gravenhorst, 1829, Ichn. Eur., **2**: 102;

1855 *Euryproctus geniculatus* Holmgren, Svensk. Vet. Akad., **1**: 114;

1889 *Euryproctus (Sychnoleter) geniculosus* Thomson, Opusc. Ent., **13**: 1430.

**Material:** 1 ♀, May 22, 2007, “Humosu” natural reservation, Iași county, 1 ♂, May 17, 2007, “Uricani” natural reservation, Iași county.

**Hosts:** *Selandria serva* F. and *Selandria sixi* Voll. (Hym., Tenthredinidae).

**Geographical distribution:** Center and Northern Europe, Ukraine. In Romania it is a rare species, being recorded previously by A. MOCSÁRY (1918) from Uihei, Timiș county, Tășnad, Satu Mare county and Saschiz, Mureș county; by J. ŠEDIVÝ (1965) from Comana, Ilfov county; by M. CONSTANTINEANU and M. VOICU (1976-1977) from “Ponoare” natural reservation, Suceava county and by M. CONSTANTINEANU & L. ȚĂȚAN (1976-1977) from “Hârboanca” natural reservation, Vaslui county.

13. *Euryproctus plantator* Thunberg, 1822, ♂

**Synonyms:**

1822 *Ichneumon plantator* Thunberg, Mém. Acad. Imp. Sci. St. Petersburg, **9**: 285 – 368;

1857 *Euryproctus albipes* Holmgren, Svensk. Vet. Handl. N. F. **1** (1): 93 – 246;

1857 *Euryproctus tuberculatus* Holmgren, Svensk. Vet. Handl. N. F. **1** (1): 93 – 246;

1889 *Euryproctus exareolatus* Thomson, Opusc. Ent., **13**: 1401 – 1438.

**Material:** 2 ♂♂, May 14, 1964, Retezat National Park (Scientific Zone) and 5 ♂♂, in July 1967 and 1968, “Codrul Secular Slătioara” natural reservation, Suceava county.

**Hosts:** unknown.

**Geographical distribution:** Northern and centre of Europe, Russia (Penza). In Romania it is a very rare species, being recorded by Raoul and Irinel CONSTANTINEANU (1978) only from Dornișoara, Suceava county.

14. *Euryproctus regenerator* Fabricius 1804, ♀♂

**Synonyms:**

1804 *Cryptus regenerator* Fabricius, Syst. Piez., p.83,

1822 *Ichneumon regenerator* Thunberg, Mem. Acad. St. Petersburg, **8**: 257,

1829 *Mesoleptus regenerator* Gravenhorst, Ichn. Eur., **2**: 75,

1855 *Euryproctus regenerator* Holmgren, Svensk. Vet. Akad., **1**: 111.

**Material:** 1 ♀ and 1 ♂, August 13 and 17, 1964, Retezat National Park, Hunedoara county and 1 ♂, July 24, 1968, “Codrul Secular Slătioara” natural reservation, Suceava county.

**Hosts:** unknown.

**Geographical distribution:** Centre and Northern Europe. In România it is a very rare species, being recorded by A. KISS (1922-1924) from Bihor mountains, Bihor county and Bocșa Montană, Caraș-Severin county and by R. CONSTANTINEANU and Iri-

nel CONSTANTINEANU (1997) from Retezat National Park (Scientific zone), Hunedoara county.

#### VII. Genus *Hypamblys* Förster, 1868

##### **Synonyms:**

1868 *Hypamblys* Förster, Verh., Naturh. Ver. Preuss. Rhein., **25**: 212;

1869 *Apystus* Förster, Verh., Naturh. Ver. Preuss. Rhein., **25**: 135 – 221;

1869 *Lathrophagus* Förster, Verh., Naturh. Ver. Preuss. Rhein., **25**: 212.

15. *Hypamblys albopictus* Gravenhorst 1829, ♀♂

##### **Synonyms:**

1829 *Tryphon albopictus* Gravenhorst, Ichn. Eur., **2**: 255,

1857 *Mesoleius transfuga* Holmgren, Svensk. Vet. Akad., **1**: 169;

1883 *Euryproctus transfuga* Thomson, Opusc. Ent., **9**: 92;

1911 *Euryproctus albopictus* Morley, Ichn. Brit., **4**: 248.

**Material:** 2 ♀♀, June 14, 1968, Arșița Rea, Rarău mountains and 1 ♂, May 22, 2007, “Humosu” natural reservation, Iași county.

**Hosts:** *Platycampus luridiventris* Fall., *Pristiphora erichsonii* Htg., *Croesus latipes* Vill., *Croesus septentrionalis* L., *Hemichroa australis* Lep. and *Pteronidea pavida* Lep. (Hym., Tenthredinidae).

**Geographical distribution:** Centre and Northern Europe. In România it is a very rare species, being recorded by M. CONSTANTINEANU & all (1975) from Valea Sirinea – Cozla, Mehedinți county and by M. CONSTANTINEANU, G. ISTRATE (1971) from Câmpulung Moldovenesc, Suceava county.

#### VII. Genus *Mesoleptidea* Viereck, 1912

Type species: *Mesoleptus amoenus* Holmgren, Proc. Ent. Soc. Washington, **14**: 175 – 178.

16. *Mesoleptidea melanobasis* Kriechbaumer, 1896, ♂

**Material:** 1 ♂, May 22, 2007, “Humosu” natural reservation, Iași county.

**Hosts:** unknown.

**Geographical distribution:** Belgium, Spain, France. In România it is a very rare species, being recorded by M. CONSTANTINEANU & L. ȚĂȚAN (1976-1977) only from “Hârboanca” natural reservation, Vaslui county.

#### **Conclusions**

The authors present 16 ichneumonid species of 7 genera: 4 genera and 8 species belonging to the tribe Hemigasterini (subfamily Cryptinae) and

3 genera and 8 species belonging to the tribe Euryproctini (subfamily Ctenopelmatinae).

*Euryproctus alpinus* Holmgren and *Euryproctus arbustorum* Holmgren (subfamily Ctenopelmatinae) are new species for the Romanian fauna.

The other 14 species are rare in the Romanian fauna and for all over the world.

#### **REFERENCES**

CONSTANTINEANU M. I. 1961. Contributions à l'étude des Gelines (Hym., Ichneum.) de Dobrogea, An. Șt. Univ. «Al. I. Cuza» Iași (Serie nouă), Secț. II (Șt. Nat.), **7(2)**: 313 - 328.

CONSTANTINEANU M. I. 1928. Contributions à l'étude des Ichneumonides en Roumanie, Ann. Sc. Univ. Jassy, **15** (3 - 4): 387 - 641.

CONSTANTINEANU M. I. 1973. Ichneumonidae (Hym.) din Delta Dunării (grindul Caraorman), PEUCE, **3**: 131-162.

CONSTANTINEANU M., CONSTANTINEANU R. 1968. “Ord. Hymenoptera, Fam. Ichneumonidae”, pp. 149 - 183, în “L'entomofaune de l'île de Letea (Delta du Danube)”, Trav. Mus. Hist. Nat. “Grigore Antipa”, **9**.

CONSTANTINEANU R., CONSTANTINEANU I. 1978. Recherches sur les sousfamilles des Neteliinae et Scolobatinae (Hym., Ichneumonide) du Nord de la Moldavie - entomophages des populations des insectes nuisibles, Trav. Mus. Hist. Nat. “Grigore Antipa”, **9**: 307-310.

CONSTANTINEANU M. I., ISTRATE G. 1971. Contribuții la cunoașterea ichneumonidelor parazite în dăunătorii molidului (*Picea excelsa* Link.) din județul Suceava, Stud. Com. Șt. Nat., Muz. Jud. Suceava, **3(2)**: 289 - 307.

CONSTANTINEANU M. I., ISTRATE G. 1973. Contribuții la cunoașterea ichneumonidelor parazite în dăunătorii molidului (*Picea excelsa* Link.) din județul Suceava (II), Stud. Com. Șt. Nat., Muz. Jud. Suceava, **3(2)**: 289 - 307.

CONSTANTINEANU M. I. & all. 1975 - Hymenoptera - Ichneumonidae, Acad. Rom., Fauna, Grup. Cercet. Compl. “Porțile de Fier”, Ser. monogr., pp. 112 - 155, București.

CONSTANTINEANU M. I., ȚĂȚAN L. 1976 - 1977. Tryphonidae (Hym., Ichn.) din rezervațiile naturale “Bălteni” și “Hârboanca” (jud. Vaslui), Trav. Staț. “Stejarul”, Ecol. Terr., Gen.: 297 - 306.

CONSTANTINEANU M. I., VOICU M. C. 1977. Ichneumonidae (Hym., Ichn.) din rezervațiile naturale “Ponoare” și “Frumoasa”, jud. Suceava, An. Muz. Șt. Nat. Piatra Neamț, Ser. Bot. - Zool., **3**: 205 - 213.

CONSTANTINEANU M. I., VOICU M. C. 1980. Gelinoidea (Hym., Ichn.) din rezervațiile naturale

- “Ponoare” și “Frumoasa”, jud. Suceava, Ocrot. Nat. Moldova, Acad. Rom., Fil. Iași: 146 – 154.
- CONSTANTINEANU R., CONSTANTINEANU I. - 1978 – Recherches sur les sousfamilles des Neteliinae et Scolobatinae (Hym., Ichn.) du Nord de la Moldavie, Trav. Mus. Hist. Nat. “Grigore Antipa”, **19**: 307 – 310.
- CONSTANTINEANU R., CONSTANTINEANU I. - 1997 - Ichneumonidae (Insecta: Hymenoptera) from the Retezat Mountains and Cerna Valley (pp. 153 – 211) in: “Entomofauna parcurilor naționale Retezat și Valea Cernei” (ed. L. RÁKOSY), Soc. Lep. Rom., Cluj-Napoca.
- KISS A. 1922-1924. Beiträge zur Kenntnis der ungarischen und siebenbürgischen Ichneumoniden- (Schlupfwespen-) Fauna, Verh. Mitt. Sieb. Ver. Naturwiss. Hermannstadt, **75 - 76**: 74 - 120.
- KISS A. 1925 – 1926. Zweiter Beitrag zur Kenntnis der ungarischen und siebenbürgischen Ichneumoniden- (Schlupfwespen-) Fauna, Verh. Mitt. Sieb. Ver. Naturwiss. Hermannstadt, **75-76**: 74-120.
- KISS A. 1929 – 1930. Dritter Beitrag zur siebenbürgischen Ichneumoniden – Schlupfwespen Fauna, Verh. Mitt. Sieb. Ver. Naturwiss., **79 – 80**: 89 – 144, Hermannstadt.
- MOCȘĂRY A. 1918. Fauna Regni Hungariae, Budapest.
- PISICĂ, C. 2001. Ichneumonidele (Hymenoptera, Insecta) din România și gazdele lor. Catalog, 406 pp., Edit. Univ. “Al. I. Cuza” Iași.
- ŠEDIVÝ J. 1965. Neue und interessante Ichneumoniden aus Rumänien, Acta Faun. Ent. Mus. Nat. Praeae, **10**: 163-176, Praga.
- YU D. S., HORSTMANN K. 1997. A Catalogue of World Ichneumonidae (Hymenoptera), **58** (1): 1 - 763 (Subfamilies Acaenitinae to Ophioninae); **58** (2): 764 - 1558 (Subfamilies Orthocentrinae to Xoridinae), Amer. Ent. Inst., Gainesville.

Irinel CONSTANTINEANU, Raoul CONSTANTINEANU & Camil Ștefan LUNGU – CONSTANTINEANU  
 Biological Research Institute, Lascăr Catargi Street, no. 47  
 700107 Iași  
 E-mail: racon38@yahoo.com

Received: 10.12.2007  
 Accepted: 17.12.2007  
 Printed: 24.12.2007