Zeitschrift: Mitteilungen der Schweizerischen Entomologischen Gesellschaft = Bulletin de la Société Entomologique Suisse = Journal of the Swiss Entomological Society

Herausgeber: Schweizerische Entomologische Gesellschaft

Band: 54 (1981)

Heft: 4: Fascicule-jubilé pour le 80e anniversaire du Prof. Dr. Jacques de Beaumont = Festschrift zum 80. Geburtstag von Prof. Dr. Jacques de Beaumont

Artikel: New synonyms in old world Sphecidae (Hymenoptera)

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DOI: https://doi.org/10.5169/seals-402010

MITTEILUNGEN DER SCHWEIZERISCHEN ENTOMOLOGISCHEN GESELLSCHAFT
BULLETIN DE LA SOCIÉTÉ ENTOMOLOGIQUE SUISSE
54, 363-366, 1981

New synonyms in Old World Sphecidae (Hymenoptera)

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New synonyms in Old World Sphecidae - *Ectemnius flagellarius* (F. MORAWITZ, 1892) is a valid species, not a synonym of *urophori* (RADOSZKOWSKI, 1877). *Gorytes cribratus* F. MORAWITZ, 1892, is transferred to *Oryttus,* and *Stizus lutescens* RADOSZKOWSKI, 1877, to *Sphecius.* The following are newly established synonyms: *Crabro pavlovskii* GUSSAKOVSKIJ, 1952 = *Crossocerus acanthophorus* (KOHL, 1892); *Ectemnius dilaticornis* (F. MORAWITZ, 1893) = *urophori* (RADOSZKOWSKI, 1877); *Gastrosericus apostoli* DE BEAUMONT, 1967 = *funereus* GUSSAKOVSKIJ, 1931; *Gastrosericus fimbriatus* KAZENAS, 1980 = *moricei* SAUNDERS, 1910; *Gastrosericus rufitarsis* CAMERON, 1902, and *lanuginosus* ARNOLD, 1922 = *waltlii* (SPINOLA, 1839); *Gorytes mitjaevi* KAZENAS, 1972 = *Ammatomus coarctatus* (SPINOLA, 1808); *Sphecius turanicus* ROTH, 1959 = *lutescens* (RADOSZKOWSKI, 1877); *Nysson curtulus* F. MORAWITZ, 1892 = *Synnevrus decemmaculatus* (SPINOLA, 1808).

Synonymizing different names given to the same species is an important aspect of taxonomy because it leads to a stable nomenclature, and DE BEAUMONT published several papers on new synonyms. This paper establishes new synonyms derived from my type studies at various museums, but especially my 1980 visit to the Zoological Institute in Leningrad. The exclamation mark before the name of a species below means that the holotype has been examined.

Gastrosericus funereus GUSSAKOVSKIJ

Gastrosericus funereus GUSSAKOVSKIJ, 1931: 445, ♂. ! Holotype ♂: Turkmen SSR: Anau near Askhabad (Zool. Inst., Leningrad).

Gastrosericus apostoli DE BEAUMONT, 1967: 332, ♀, ♂. Holotype ♀: Turkey: Mersin Province: Tarsus (coll. J. GUSENLEITNER, Linz). New synonym.

A male paratype of *apostoli* (my collection) is conspecific with the holotype of *funereus* and other Transcaspian specimens studied. See DE BEAUMONT (1967) for recognition characters.

Gastrosericus moricei SAUNDERS

Gastrosericus moricei SAUNDERS, 1910: 529, ♂. Holotype ♂: Algeria: Biskra (Oxford Univ. Mus.).

Gastrosericus fimbriatus KAZENAS, 1980: 1104, ♂, ♀. Holotype ♂: Tadzhik SSR: Yangiabad, 7 km e. Garauty, e. shore of Vakhsh River (Zool. Inst., Leningrad). New synonym.

Several paratypes of *fimbriatus* were kindly sent for study by Dr. V. L. KAZENAS. They are conspecific with *moricei.* The species is characterized by: the short, appressed thoracic vestiture: the uniformly microsculptured thorax (without well defined punctures); foremargin of the marginal cell 2.0-2.2 times the apical truncation; and gaster red, without yellow markings. *G. flavicornis* GUSSAKOVSKIJ is similar, but unlike that species the female pygidial plate of *moricei* is densely setose, and male sterna III and IV are fimbriate.

Gastrosericus waltlii SPINOLA

Gastrosericus waltlii SPINOLA, 1839: 481, ♂. Lectotype ♂: Egypt (Ist. Mus. Zool. Univ. Torino), designated by DE BEAUMONT, 1952: 49.

Gastrosericus rufitarsis CAMERON, 1902: 286, «♀» = ♂. ! Holotype ♂: India: Bombay Province: Deesa (British Mus. Nat. Hist.). New synonym.

Gastrosericus lanuginosus ARNOLD, 1922: 117, ♂. Holotype ♂: Zimbabwe: Sawmills (South African Museum, Capetown). New synonym.

Like *drewseni* DAHLBOM, *guigliae* DE BEAUMONT and *shestakovi* GUSSAKOVSKIJ, *waltlii* has a woolly, erect vestiture on the head and thorax. It differs from *guigliae* in having a black clypeus (clypeus yellow in that species). Unlike *drewseni,* the gaster of *waltlii* is all black or at least has a black apex (gaster all red in *drewseni).* The marginal cell of *waltlii* is longer than in *shestakovi* (its foremargin 1.5–2.6 times apical truncation in the former, and 1.2 times in the latter).

G. waltlii was previously known from North Africa, Cyprus, Turkey, Transcaspia and Mongolia. It also occurs in western India and in Zimbabwe. Two males from the last country labelled as *lanuginosus* by ARNOLD were studied.

Crossocerus acanthophorus (KOHL)

Crabro acanthophorus KOHL, 1892: 200, ♀, ♂. Syntypes: Italy: Bolzano; Austria: Wippach; Switzerland: Sierre (Nathist. Mus., Vienna). - In *Crossocerus:* LECLERCQ, 1954: 232.

Crabro pavlovskii GUSSAKOVSKIJ, 1952: 262, ♀, ♂. Syntypes: Tadzhik SSR: Kondara; Cyprus: Limassol (Zool. Inst., Leningrad). New synonym.

A female from Varzob, Tadzhik SSR (my collection) agrees with *pavlovskii* and *acanthophorus* as described by GUSSAKOVSKIJ (1952) and DE BEAUMONT (1959), respectively. Consequently I regard these two names as synonyms. The main recognition features of *acanthophorus* are: tergum II constricted basally; mesopleuron tuberculate before midcoxa; propodeal enclosure ridged, delimited by a sulcus; female mandible bidentate apically; female clypeus tridentate; female pygidial plate unsculptured, shallowly punctate except convex, punctate mediobasally; male tergum VII unusually small.

Ectemnius flagellarius (F. MORAWITZ)

Crabro flagellarius F. MORAWITZ, 1892: 175, ♀, ♂. ! Lectotype ♂: Turkmen SSR: Dort-Kuyu, 37° 38'N, 61° 18' E, labelled as lectotype by V. G. MARSHAKOV, present designation. - As synonym of *E. urophori:* PULAWSKI, 1979: 304.

I previously synonymized this species with *urophori,* but reexamination of types in 1979 and 1980 after the discovery of better characters demonstrated that *flagellarius* and *urophori* actually are separate species. In *flagellarius,* most scutal punctures at the middle are many diameters apart, female flagellomere I is shorter than wide, and the male midbasitarsus is flattened dorsoventrally. In *urophori,* most scutal punctures are less than 1 diameter apart, female flagellomere I is about as long as wide (like *massiliensis* KOHL), and the male midbasitarsus is cylindrical.

Ectemnius urophori (RADOSZKOWSKI)

Crabro urophori RADOSZKOWSKI, 1877: 78, ♀. ! Holotype ♀: Uzbek SSR: Samarkand (Zool. Mus., Moscow). - In *Ectemnius:* PULAWSKI, 1979: 308.

Crabro dilaticornis F. MORAWITZ, 1893: 427, ♂ ! Lectotype ♂: Tadzhik SSR: Yagnob (Zool. Inst., Leningrad), labelled as lectotype by V. G. MARSHAKOV, present designation. New synonym.

I previously thought (PULAWSKI, 1979) that *urophori* and *flagellarius* are synonyms, but reexamination of types proved that *dilaticornis* is actually a junior synonym of *urophori.* See *flagellarius* for details.

Oryttus cribratus (F. MORAWITZ), new combination

Gorytes cribratus F. MORAWITZ, 1892: 157. ! Holotype ♂: Turkmen SSR: Dort-Kuyu, 37° 38' N, 61° 18' E (Zool. Inst., Leningrad).

The holotype of *cribratus* actually is an *Oryttus.* The species can be recognized by the all black thorax and gaster. The male midtibia has two spurs.

Synnevrus decemmaculatus (SPINOLA)

Nysson decemmaculatus SPINOLA, 1808: 41, ♂. Lectotype ♂: Italy: Liguria: Genova (Mus. Zool. Univ. Torino), designated by DE BEAUMONT, 1952: 41. - In *Synnevrus:* BOHART & MENKE, 1976: 470.

Nysson curtulus F. MORAWITZ, 1892: 156, ♂. ! Holotype ♂: Tadzhik SSR: Yaban to Gusar (Zool. Inst., Leningrad). New synonym.

The holotype of *curtulus* has all diagnostic features of *decemmaculatus:* tergal hindmargin double-edged, postscutellum dentate anterolaterally, flagellum and femora black.

Sphecius lutescens (RADOSZKOWSKI), new combination

Stizus lutescens RADOSZKOWSKI, 1877: 36, ♀, ♂. ! Syntypes: Kazakh SSR: Karak Mt. near Baygakum (Zool. Mus., Moscow).

Sphecius turanicus ROTH, 1959: 68, ♀, ♂. Holotype ♀: Kazakh SSR: Kara-Mts. near Dzhulek = Chiili (Mus. Natl. Hist. Nat. Paris). New synonym.

I studied the syntype females of *lutescens* and found that they agree completely with the description of *turanicus.* Some of the recognition characters of *lutescens* are: propodeal punctures at middle many diameters (female) or more than 1 diameter (male) apart; female clypeus rugose apically, with integument not concealed by vestiture basally; male flagellomere XI black except reddish apically.

Ammatomus coarctatus (SPINOLA)

Gorytes coarctatus SPINOLA, 1808: 245. Lectotype ♂: Italy: Liguria: near Novas (Mus. Zool. Univ. Turin), designated by DE BEAUMONT, 1952: 40. - In *Hoplisus:* COSTA, 1859: 36. - In *Ammatomus:* COSTA, 1869: 76.

Gorytes (Lestiphorus) mitjaevi KAZENAS, 1972: 148, ♂, ♀. ! Holotype ♀: Kazakh SSR: Lavar, 90 km ne. Alma Ata (Zool. Inst., Leningrad). New synonym.

The holotype of *mitjaevi* actually is an *Ammatomus.* It has all characters of *coarctatus* as defined by PULAWSKI (1973).

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