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A check-list of the Hungarian Scarabaeoidea with the description of ten new taxa (Coleoptera)

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A check-list of the Hungarian Scarabaeoidea with the description of ten new taxa (Coleoptera). – A list of the species of Scarabaeoidea occurring in Hungary is given. *Rhodaphodius* gen. n., *Bodilopsis* gen. n., *Bubalonthophagus* gen. n., *Citellonthophagus* gen. n., *Troglonthophagus* gen. n., *Kisonthophagus* gen. n., *Lucidonthophagus* gen. n., *Haplonthophagus* gen. n. as well as *Liothorax muscorum* sp. n. and *Nimbus proximus* sp. n. are described. A new synonymy is established: *Aphodius hoherlandti* Tesar, 1945 is a junior synonym of *Aphodius affinis* Panzer, 1823.

DESCRIPTION OF THE NEW TAXA

Rhodaphodius gen. n.

Type species: *Scarabaeus foetens* Fabricius, 1787 (present designation).

Frons with one small median and two obsolete lateral tubercles; clypeus with an obsolete, transversal, arcuate ridge. Prothorax weakly transverse quadrangular; posterior angles (in lateral view) very broadly rounded and shallowly sinuate; lateral and basal margin distinctly bordered. Scutellum narrowly triangular. Pronotum pitch-black in colour, anterior angles usually with a larger or smaller red spot; elytra typically red, disc largely fuliginous in exceptional cases; abdomen transparently pale red. Apical setae of middle and hind tibiae short and equal in length.

Bodilopsis gen. n.

Type species: *Scarabaeus sordidus* Fabricius, 1775 (present designation).

Frons with one small median and two obsolete lateral tubercles; clypeus without a transversal ridge. Prothorax transverse quadrangular; posterior angles (in lateral view) broadly rounded; lateral and basal margin distinctly bordered. Scutellum triangular. Pronotum reddish brown to pitch-black in colour, anterior angles usually with a larger or smaller yellowish or reddish spot; elytra typically yellowish or reddish brown, suture and first interval or even lateral margin more or less fuliginous, disc sometimes with obscure, larger or smaller spots, largely fuliginous in exceptional cases; abdomen yellowish or reddish brown. Apical setae of middle and hind tibiae short and equal in length.

Liothorax muscorum sp. n.

In general appearance extremely similar to *Liothorax plagiatus* (Linnaeus, 1767). Body convex, elongate oval, moderately broadening posteriorly; slightly shining, pitch-black in colour, antennae and palpi fuliginous, tarsi pitch-black to dark brown.

Head transverse quadrangular, convex, surface strongly, somewhat irregularly punctuated, particularly near margins. Anterior clypeal margin slightly emarginate, anterior angles broadly rounded. Frontal tubercles absent. Genae obtusely angulate.

Pronotum transverse quadrangular, strongly convex, arcuately narrowing anteriorly, posterior angles obtusely rounded. Lateral and basal margin distinctly bordered but basal border broadly interrupted at middle. Surface moderately, somewhat irregularly, lateral sides densely punctuated.

Elytra uniformly black in colour, surface finely microreticulated, slightly shining or almost dull. Striae distinctly punctuated, elytral intervals barely convex, finely but distinctly punctuated. Scutellum subpentagonal.

Upper terminal spur of hind tibiae a little shorter than first tarsal segment. Apical setae of middle and hind tibiae short and equal in length.

Length: 4–5 mm.

Holotype (sex not studied): Hung., Borsod-Abaúj-Zemplén m., Aggtelek, Vörös-tó, 350 m, *Typhetum angustifoliae-latifoliae*, iszapból [from mud], 1989. V. 19., leg.: Ádám L. The type is deposited in the Department of Zoology of the Hungarian Natural History Museum, Budapest.

Bionomy: *Liothorax muscorum* sp. n. is a typical species for water-dependent treeless habitats. It occurs in moist soil, in drying-out marshes, puddles, in meadows, etc., feeds on small mosses, on algae, on decaying plant substances rotting in mud, etc.

The two species, *Liothorax muscorum* and *Liothorax plagiatus* very closely resemble each other; the external features (not rugosely punctuated clypeus, distinctly punctuated elytral striae, finely punctuated elytral intervals) by which *Liothorax muscorum* is distinguished are not very evident. A careful comparison is required for the determination of these species.

This species should not be named as *Scarabaeus niger* Panzer, 1797 with which most of the authors have attached it. The head of the species described by Panzer (1797) has three tubercles (in the original description Panzer says: "...tuberculis tribus obsoletis", as it is shown in Fig. 37: 1 in his work). In addition the beetle was found in dung ("Habitat in stercore..."), which suggests that the species described by Panzer is identical with *Scarabaeus bimaculatus* Fabricius, 1787. (This name is a junior primary homonym of *Scarabaeus bimaculatus* Laxmann, 1770. The name *Scarabaeus niger* Panzer, 1797 itself also is preoccupied: it is a junior primary homonym of *Scarabaeus niger* Giorna, 1791. These should be replaced by the name *Aphodius varians* Duftschmid, 1805.) There are no available synonyms for the species *Scarabaeus niger* auct. (the name *Aphodius limnophilus* Harold, 1871 was published originally as a junior objective synonym of *Scarabaeus niger* Panzer, 1797, therefore, it is unavailable), so I have described it as a new species.

Nimbus proximus sp. n.

In general appearance similar to *Nimbus affinis* (Panzer, 1823). Body moderately convex, elongate oval, moderately broadening posteriorly; slightly shining (with weak metallic lustre), pitch-black in colour, elytra transparently yellowish brown, with dark spots, clypeal and pronotal margins narrowly yellowish brown, antennae and palpi fuliginous, legs ferruginous.

Head transverse quadrangular, moderately convex, surface strongly punctuated, with setiferous punctures and long setae. Anterior clypeal margin barely emarginate, anterior angles broadly rounded. Genae almost rectangular.

Pronotum transverse quadrangular, moderately convex, arcuately narrowing anteriorly, posterior angles broadly rounded. Lateral and basal margin distinctly bordered, lateral margins fringed with relatively short, rather sparsely and irregularly distributed hair-like setae. Surface finely microreticulated, disc strongly and densely punctuated, lateral sides very densely punctuated (with short setae in intact specimens).

Elytra transparently yellowish brown with obscure spots: 2nd–4th intervals with two spots each, forming a short transversal stripe, 5th interval with one small basal spot, 6th–8th intervals with longitudinal stripe; surface finely microreticulated. Striae superficially punctuated, elytral intervals moderately convex, strongly punctuated along striae, distinctly pubescent. Lateral margins fringed with short, hair-like setae at humeral region only. Scutellum triangular.

Lower terminal spur of middle tibiae mutilated (male) or incisive (female). Upper terminal spur of hind tibiae a little shorter than first tarsal segment. Apical setae of middle and hind tibiae short and unequal in length.

Length: 5–6 mm.

Holotype (male): [France], Fontainebleau. The type is deposited in the Department of Zoology of the Hungarian Natural History Museum, Budapest.

This species may be distinguished from the similar *Nimbus affinis* (Panzer, 1823) by the smaller size, by the pronotal sides which are fringed with relatively short setae, and by the presence of fine pronotal and elytral microsculpture.

This species has been named as *Aphodius affinis* by most of the recent authors (e. g. Chromy and Král 1988, Dellacasa 1983, Pittino 1982). However, the pronotal sides of *Aphodius affinis* Panzer, 1823 are fringed with relatively long setae and their size is larger than that of *Aphodius affinis* auct. These have been shown in Fig. 1 in Panzer's work (1823), from which it may be known that this is a quite different beetle. It is, on the other hand, distributed in Central and East Europe (the type locality is "Austria"), while *Aphodius affinis* auct. distributed in West and Southwest Europe. *Aphodius dorbignyi* Clouët des Pesruches, 1896, treated as a subspecies of *Aphodius affinis* auct. (e. g. Pittino 1982), is also a distinct species according to my opinion, distributed in North Africa (Algeria, Morocco, Tunisia). *Aphodius hoberlandti* Tesar, 1945, described from South Ural, is identical with *Aphodius affinis* Panzer, 1823. There are no available synonyms for the species *Aphodius affinis* auct., so I have described it as a new species.

Bubalonthophagus gen. n.

Type species: *Onthophagus furciceps* Marseul, 1869 (present designation).

Body surface finely microreticulated, weakly shining. Frontal ridge distinct in both sexes. Vertical ridge prominent, with a median tooth and with long, arcuate horn at both sides (male) or with short horn at both sides (female). Anterior part of pronotum with double median knob in both sexes, lateral knobs indistinct. Pronotal punctuation granulated.

Citellonthophagus gen. n.

Type species: *Scarabaeus vitulus* Fabricius, 1776 (present designation).

Body surface finely microreticulated, weakly shining, almost dull. Frontal ridge distinct in both sexes. Vertical ridge prominent, with a short, erect horn at both sides (male) or without horns (female). Anterior part of pronotum with double median knob and with simple lateral knobs in both sexes. Pronotal punctuation granulated.

Troglonthophagus gen. n.

Type species: *Scarabaeus semicornis* Panzer, 1798 (present designation).

Body surface finely microreticulated, weakly shining, almost dull. Frontal ridge distinct in both sexes. Vertical ridge prominent, upper margin deeply (male) or shallowly excised (female). Anterior part of pronotum with double median knob and with simple lateral knobs in both sexes. Pronotal punctuation granulated.

Kisonthophagus gen. n.

Type species: *Scarabaeus ovatus* Linnaeus, 1767 (present designation).

Body surface finely microreticulated, weakly shining, almost dull. Frontal ridge indistinct in male, distinct in female. Vertical ridge simple in both sexes, more prominent in male. Anterior part of pronotum without knobs. Pronotal punctuation granulated.

Lucidonthophagus gen. n.

Type species: *Copris lucidus* Illiger, 1800 (present designation).

Body surface polished, strongly shining. Frontal ridge distinct in both sexes. Vertical ridge prominent, with a short, erect horn at the middle (male) or with short horn at both sides (female). Anterior part of pronotum with double median knob and with simple lateral knobs in both sexes. Pronotal punctuation granulated at anterior and anteriolateral region, discal punctuation simple, very fine.

Haplonthophagus gen. n.

Type species: *Scarabaeus lemur* Fabricius, 1781 (present designation).

Body surface finely microreticulated, weakly shining, almost dull. Frontal ridge indistinct in male, distinct in female. Vertical ridge simple in both sexes, more prominent in male. Anterior part of pronotum with double median knob and with simple lateral knobs in both sexes. Pronotal punctuation granulated.

A CHECK-LIST OF THE HUNGARIAN SCARABAEAOIDEA

This check-list of the species of Scarabaeoidea occurring in Hungary have been based on authentic faunistic data, literature records have not been considered. The number of species known from our country is 186, the presence of further 19 species is uncertain.

Several species (*Lasioplia bromicola*, *Miltotrogus nocturnus*, *Codocera ferrugineum*, *Alocoderus hydrochaeris*, *Bodilus punctipennis*, *Heptaulacus testudinarius*, *Cheironitis ungaricus*, *Caccobius histeroides*, *Ateuchetus semipunctatus*, *Actinophorus pius*) were found in Hungary for the last time at about the middle of this century. Some species (*Amidorus thermicola*, *Nimbus affinis*, *Leiopsammodius haruspex*, *Psammodius laevipennis*, *Bubalonthophagus furciceps*, *Palaeonthophagus tesquorum*) were captured in one or two specimens only. Probably a part of the enumerated beetles have disappeared from the territory of our country (perhaps for a time only). Their occurrence requires further confirmation.

The following species have voucher specimen(s) but their occurrence in Hungary is highly improbable.

Calopotosia aerata (Erichson, 1834) (*Cetonia aerata* Erichson, 1834).

Netocia morio (Fabricius, 1781) (*Cetonia morio* Fabricius, 1781).

Oxythyrea cinctella (Schaum, 1841) (*Cetonia cinctella* Schaum, 1841).

Pentodon castaneum Mulsant, 1842 (*Scarabaeus punctatus* Villers, 1789 nec Linnaeus, 1758; *Scarabaeus punctulatus* Rossi, 1790 nec Gmelin, 1790; *Pentodon punctatus* var. *castaneus* Mulsant, 1842).

Mimela junii (Duftschmid, 1805) (*Melolontha junii* Duftschmid, 1805).

Anoxia villosa (Fabricius, 1781) (*Melolontha villosa* Fabricius, 1781).

Thorectes brullei (Jekel, 1866) (*Geotrupes brullei* Jekel, 1866).

Hybalus cornifrons (Brullé, 1832) (*Geobius cornifrons* Brullé, 1832; *Hybalus graecus* Reitter, 1892).

Hybosorus roei Westwood, 1845 (*Hybosorus roei* Westwood, 1845; *Hybosorus iligeri* Reiche, 1853; *Hybosorus arator* palaearcticus Endrődi, 1956)

Omorgus suberosus (Fabricius, 1775) (*Trox suberosus* Fabricius, 1775).

Aphodius coniugatus (Panzer, 1794) (*Scarabaeus coniugatus* Panzer, 1794).

Chilothonax lineolatus (Illiger, 1803) (*Aphodius lineolatus* Illiger, 1803).

Psammodius nocturnus Reitter, 1892 (*Psammodius nocturnus* Reitter, 1892).

Onitis damoetas Steven, 1806 (*Onitis damoetas* Steven, 1806).

Bubas bison (Linnaeus, 1767) (*Scarabaeus bison* Linnaeus, 1767).

Euonthophagus gibbosus (Scriba, 1790) (*Copris gibbosus* Scriba, 1790).

Palaeonthophagus fissicornis (Steven, 1809) (*Copris fissicornis* Steven, 1809).

Gymnopleurus sturmii (MacLeay, 1821) (*Scarabaeus sturmii* MacLeay, 1821).
Ateuchetus armeniacus (Ménétrries, 1832) (*Ateuchus armeniacus* Ménétrries, 1832).

The suprageneric classification and sequence are given according to my conception. Within a genus the species are listed in alphabetical order. The synonyms (original combination of the valid name, and a few more important names) are enumerated in the order of priority.

Scarabaeoidea (Laicharting, 1781)

Scaraboides Laicharting, 1781

- Lucanidae (Latreille, 1804)
 - Lucanides* Latreille, 1804
- Lucaninae (Latreille, 1804)
 - Lucanides* Latreille, 1804
- Lucanini (Latreille, 1804)
 - Lucanides* Latreille, 1804
- Lucanus Scopoli, 1763
- Lucanus *cervus cervus* (Linnaeus, 1758)
 - Scarabaeus cervus* Linnaeus, 1758
- Dorcini (Parry, 1864)
 - Dorcidae* Parry, 1864
- Dorcus MacLeay, 1819
- Dorus *parallelipipedus* (Linnaeus, 1758)
 - Scarabaeus parallelipipedus* Linnaeus, 1758
- Platycerinae (Mulsant, 1842)
 - Platycéraires* Mulsant, 1842
- Platycerus Fourcroy, 1785
- Platycerus *caprea* (De Geer, 1774)
 - Lucanus caprea* De Geer, 1774
 - Platycerus caraboides*: Endrődi, 1956
- Platycerus *caraboides* (Linnaeus, 1758)
 - Scarabaeus caraboides* Linnaeus, 1758
 - Platycerus cibratus* Mulsant et Rey, 1863
- Sinodendrinae (Mulsant, 1842)
 - Sinodendriens* Mulsant, 1842
- Sinodendron Schneider, 1791
- Sinodendron *cylindricum* (Linnaeus, 1758)
 - Scarabaeus cylindricus* Linnaeus, 1758
- Aesalinae (MacLeay, 1819)
 - Aesalidae* MacLeay, 1819
- Aesalus Fabricius, 1801
- Aesalus *scarabaeoides* (Panzer, 1794)
 - Lucanus scarabaeoides* Panzer, 1794
- Cetoniidae (Gmelin, 1790)
 - Cetoniae* Gmelin, 1790
- Trichiinae (Gmelin, 1790)
 - Trichii* Gmelin, 1790
- Osmodermini Schenkling, 1922
 - Osmodermini* Schenkling, 1922
- Gymnodus Kirby, 1827
 - Osmoderma* Le Peletier et Serville, 1828
- Gymnodus *eremita* (Scopoli, 1763)
 - Scarabaeus eremita* Scopoli, 1763

- Trichiini (Gmelin, 1790)
 - Trichii* Gmelin, 1790
- Aleurostictus Kirby, 1827
 - Gnorimus* Le Peletier et Serville, 1828
- Aleurostictus *nobilis* (Linnaeus, 1758)
 - Scarabaeus nobilis* Linnaeus, 1758
- Aleurostictus *variabilis* (Linnaeus, 1758)
 - Scarabaeus variabilis* Linnaeus, 1758
 - Cetonia octopunctata* Fabricius, 1775
- Trichius Fabricius, 1775
 - Trichius fasciatus* (Linnaeus, 1758)
 - Scarabaeus fasciatus* Linnaeus, 1758
- Trichius sexualis Bedel, 1906
 - Trichius sexualis* Bedel, 1906
- Valginae (Mulsant, 1842)
 - Valguaires* Mulsant, 1842
- Valgini (Mulsant, 1842)
 - Valguaires* Mulsant, 1842
- Valgus Scriba, 1790
- Valgus *hemipterus* (Linnaeus, 1758)
 - Scarabaeus hemipterus* Linnaeus, 1758
- Cetoniinae (Gmelin, 1790)
 - Cetoniae* Gmelin, 1790
- Cetoniini (Gmelin, 1790)
 - Cetoniae* Gmelin, 1790
- Cetonischema Reitter, 1898
- Cetonischema *speciosissima* (Scopoli, 1786)
 - Scarabaeus speciosissimus* Scopoli, 1786
 - Potosia aeruginosa*: Endrődi, 1956
- Eupotosia Miksic, 1954
- Eupotosia *affinis affinis* (Andersch, 1797)
 - Cetonia affinis* Andersch, 1797
- Liocola Thomson, 1859
- Liocola *marmorata* (Fabricius, 1792)
 - Cetonia lugubris* Herbst, 1785 nec Fabricius, 1775
 - Cetonia aeruginea* Herbst, 1790 nec Herbst, 1785
 - Cetonia marmorata* Fabricius, 1792
- Netocia A. Costa, 1852
 - Potosia* Mulsant et Rey, 1871
- Netocia *cuprea obscura* (Andersch, 1797)
 - Cetonia obscura* Andersch, 1797
- Netocia *fieberi* (Kraatz, 1880)
 - Cetonia fieberi* Kraatz, 1880

- Netocia ungarica ungarica** (Herbst, 1790)
Cetonia ungarica Herbst, 1790
- Cetonia** Fabricius, 1775
- Cetonia aurata aurata** (Linnaeus, 1758)
Scarabaeus auratus Linnaeus, 1758
- Epicometis** Burmeister, 1842
- Epicometis hirta** (Poda, 1761)
Scarabaeus hirtus Poda, 1761
- Leucocelini** (Kraatz, 1882)
Leucoceliden Kraatz, 1882
- Oxythyrea** Mulsant, 1842
- Oxythyrea funesta** (Poda, 1761)
Scarabaeus funestus Poda, 1761
- Scarabacidae** (Laicharting, 1781)
Scaraboides Laicharting, 1781
- Geotrupidae** Leach, 1815
- Dynastidae** MacLeay, 1819
- Oryctinae** (Mulsant, 1842)
Oryctesiens Mulsant, 1842
- Oryctini** (Mulsant, 1842)
Oryctesiens Mulsant, 1842
- Oryctes** Illiger, 1798
- Oryctes nasicornis nasicornis** (Linnaeus, 1758)
Scarabaeus nasicornis Linnaeus, 1758
Oryctes nasicornis holdhausi Minck, 1914
- Pentodontini** (Mulsant, 1842)
Pentodonaires Mulsant, 1842
- Pentodon** Hope, 1837
- Pentodon idiota** (Herbst, 1789)
Scarabaeus idiota Herbst, 1789
- Rutelidae** MacLeay, 1819
Rutelidae MacLeay, 1819
- Euchloriniae** (Hope, 1839)
Euchloridae Hope, 1839
- Euchlorini** (Hope, 1839)
Euchloridae Hope, 1839
Anomalaires Mulsant, 1842
- Mimela** Kirby, 1823
Rhombonyx Hope, 1837
Palora Mulsant et Rey, 1871
Ambloimala Reitter, 1903
- Mimela aurata** (Fabricius, 1801)
Scarabaeus ovatus Piller et Mitterpacher, 1783
 nec Linnaeus, 1767
Melolontha aurata Fabricius, 1801
- Euchlora** MacLeay, 1819
Anomala Leach, 1819 nec Block, 1799
- Euchlora dubia** (Scopoli, 1763)
Scarabaeus dubius Scopoli, 1763
Scarabaeus aeneus De Geer, 1774 nec Linnaeus, 1764
Melolontha frischii Fabricius, 1775
- Euchlora solida** (Erichson, 1847)
Anomala solida Erichson, 1847
- Euchlora vitis** (Fabricius, 1775)
Melolontha vitis Fabricius, 1775
- Anisopliini** (Burmeister, 1844)
Anisopliadae Burmeister, 1844
- Anisoplia** Dejean, 1821
Phylloputha Kirby et Spence, 1828
Phyllopertha Stephens, 1830
- Anisoplia horticola** (Linnaeus, 1758)
Scarabaeus horticola Linnaeus, 1758
- Chaetopteroplia** Medvedev, 1949
- Chaetopteroplia segetum segetum** (Herbst, 1783)
Melolontha segetum Herbst, 1783
Scarabaeus secalis Földi, 1801
- Autanisoplia** Medvedev, 1949
- Autanisoplia austriaca** (Herbst, 1783)
Melolontha austriaca Herbst, 1783
- Lasioplia** Medvedev, 1949
Ammanisoplia Medvedev, 1949
- Lasioplia agricola** (Poda, 1761)
Scarabaeus agricola Poda, 1761
- Lasioplia bromicola** (Germar, 1817)
Melolontha bromicola Germar, 1817
- Lasioplia erichsoni** (Reitter, 1889)
Anisoplia erichsoni Reitter, 1889
- Lasioplia lata** (Erichson, 1847)
Anisoplia lata Erichson, 1847
- Lasioplia tempestiva** (Erichson, 1847)
Anisoplia tempestiva Erichson, 1847
- Melolonthidae** MacLeay, 1819
Melolonthidae MacLeay, 1819
- Melolonthinae** (MacLeay, 1819)
Melolonthidae MacLeay, 1819
- Melolonthini** (MacLeay, 1819)
Melolonthidae MacLeay, 1819
- Melolontha** Fabricius, 1775
- Melolontha hippocastani** Fabricius, 1801
Melolontha hippocastani Fabricius, 1801
Melolontha pectoralis Megerle, 1812
- Melolontha melolontha** (Linnaeus, 1758)
Scarabaeus melolontha Linnaeus, 1758
- Melolontha rhenana** Bach, 1845
Melolontha rhenana Bach, 1845
Melolontha aceris Erichson, 1847 nec Faldermann, 1835
Melolontha pectoralis Endrődi, 1956
- Polyphylla** Harris, 1841
- Polyphylla fullo** (Linnaeus, 1758)
Scarabaeus fullo Linnaeus, 1758
- Protanoxia** Medvedev, 1951
- Protanoxia orientalis** (Krynicki, 1832)
Melolontha orientalis Krynicki, 1832
- Anoxia** Castelnau, 1833
- Anoxia pilosa** (Fabricius, 1792)
Melolontha pilosa Fabricius, 1792
- Rhizotroginae** (Burmeister, 1855)
Rhizotrogidae Burmeister, 1855
- Rhizotrogini** (Burmeister, 1855)
Rhizotrogidae Burmeister, 1855
- Rhizotrogus** Berthold, 1827
- Rhizotrogus aestivus** (Olivier, 1789)
Melolontha aestiva Olivier, 1789

- Amphimallon** Berthold, 1827
Amphimallon assimile (Herbst, 1790)
Melolontha assimilis Herbst, 1790
Amphimallon burmeisteri (Brenske, 1886)
Amphimallus burmeisteri Brenske, 1886
Amphimallon solstitiale (Linnaeus, 1758)
Scarabaeus solstitialis Linnaeus, 1758
Microtrogus Miksic, 1965
Microtrogus pilicollis (Gyllenhal, 1817)
Melolontha pilicollis Gyllenhal, 1817
Miltotrogus Reitter, 1902
Miltotrogus aequinoctialis (Herbst, 1790)
Melolontha aequinoctialis Herbst, 1790
Miltotrogus nocturnus Nonveiller, 1958
Miltotrogus nocturnus Nonveiller, 1958
Miltotrogus vernus (Germar, 1824)
Melolontha verna Germar, 1824
Sericinae (Kirby, 1837)
Sericidae Kirby, 1837
Sericini (Kirby, 1837)
Sericidae Kirby, 1837
Maladera Mulsant et Rey, 1871
Maladera holosericea (Scopoli, 1772)
Scarabaeus holosericeus Scopoli, 1772
Sericia MacLeay, 1819
Sericia brunna (Linnaeus, 1758)
Scarabaeus brunneus Linnaeus, 1758
Omaloplia Schönherr, 1817
Omaloplia nigromarginata (Herbst, 1785)
Melolontha nigromarginata Herbst, 1785
Homaloplia alternata: Endrődi, 1956
Omaloplia ruricola (Fabricius, 1775)
Melolontha ruricola Fabricius, 1775
Scarabaeus marginatus Fuesslin, 1775 nec Drury,
 1773
Acarina Barraud, 1965
Acarina spireae spireae (Pallas, 1773)
Scarabaeus spireae Pallas, 1773
Hopliidae (Latreille, 1829)
Hoplides Latreille, 1829
Hopliinae (Latreille, 1829)
Hoplides Latreille, 1829
Hopliini (Latreille, 1829)
Hoplides Latreille, 1829
Hoplia Illiger, 1803
Hoplia argentea (Poda, 1761)
Scarabaeus argenteus Poda, 1761
Scarabaeus farinosus Linnaeus, 1761
Hoplia dilutipes Reitter, 1890
Hoplia dilutipes Reitter, 1890
Hoplia hungarica Burmeister, 1844
Hoplia hungarica Burmeister, 1844
Hoplia subnuda Reitter, 1903
Hoplia philanthus (Fuesslin, 1775)
Scarabaeus philanthus Fuesslin, 1775
Hoplia praticola Duftschmid, 1805
Hoplia praticola Duftschmid, 1805
- Bolboceridae** (Mulsant, 1842)
Bolbocéaires Mulsant, 1842
Chromogeotrupinae (Zunino, 1984)
Chromogeotrupini Zunino, 1984
Chromogeotrupini Zunino, 1984
Chromogeotrupini Zunino, 1984
Sericotrupes Zunino, 1984
Sericotrupes mutator (Marsham, 1802)
Scarabaeus mutator Marsham, 1802
Sericotrupes puncticollis (Malinowsky, 1811)
Scarabaeus spiniger Marsham, 1802 nec Gmelin,
 1790
Scarabaeus puncticollis Malinowsky, 1811
Sericotrupes stercorarius (Linnaeus, 1758)
Scarabaeus stercorarius Linnaeus, 1758
Anoplotrupes Jekel, 1866
Anoplotrupes stercoreosus (Scriba, 1791)
Scarabaeus stercoreosus Scriba, 1791
Trypocopris Motschulsky, 1859
Trypocopris vernalis (Linnaeus, 1758)
Scarabaeus vernalis Linnaeus, 1758
Lethrinae (Mulsant et Rey, 1871)
Lethraires Mulsant et Rey, 1871
Lethrus Scopoli, 1777
Lethrus apterus (Laxmann, 1770)
Lucanus apterus Laxmann, 1770
Bolbocerinae (Mulsant, 1842)
Bolbocéaires Mulsant, 1842
Bolbelasmus Boucomont, 1911
Bolbelasmus unicornu (Schrank, 1789)
Scarabaeus unicornu Schrank, 1789
Odonteus Leach, 1819
Bolboceras Kirby, 1819
Odonteus armiger (Scopoli, 1772)
Scarabaeus armiger Scopoli, 1772
Ochodaeidae (Mulsant et Rey, 1870)
Ochodeaires Mulsant et Rey, 1870
Ochodaeinae (Mulsant et Rey, 1870)
Ochodeaires Mulsant et Rey, 1870
Ochodaeini (Mulsant et Rey, 1870)
Ochodeaires Mulsant et Rey, 1870
Codocera Eschscholtz, 1821
Codocera ferrugineum (Eschscholtz, 1818)
Lethrus ferrugineus Eschscholtz, 1818
Ochodaeus Dejean, 1821
Ochodaeus chrysomeloides (Schrank, 1781)
Scarabaeus chrysomeloides Schrank, 1781
Ochodaeus thalycroides Reitter, 1892
Ochodaetus thalycroides Reitter, 1892
Trogidae MacLeay, 1819
Trogidae MacLeay, 1819
Trox Fabricius, 1775
Trox barbosus Laicharting, 1781
Silpha scabra Linnaeus, 1767 nec Scopoli, 1763
Trox barbosus Laicharting, 1781

- Trox cadaverinus** Illiger, 1801
Trox cadaverinus Illiger, 1801
- Trox eversmannii** Krynicki, 1832
Trox eversmannii Krynicki, 1832
- Trox niger** Rossi, 1792
Trox niger Rossi, 1792
- Trox hispidus**: Endrödi, 1956
- Trox perrisi** Fairmaire, 1868
Trox perrisi Fairmaire, 1868
- Trox sabulosus** (Linnaeus, 1758)
Scarabaeus sabulosus Linnaeus, 1758
- Glaresidae** (Semenov-Tian-Shanskij et Medvedev, 1932)
Glaresini Semenov-Tian-Shanskij et Medvedev, 1932
- Glaresis** Erichson, 1848
- Glaresis rufa** Erichson, 1848
Glaresis rufa Erichson, 1848
- Aphodiidae** (Leach, 1815)
Aphodida Leach, 1815
- Aphodiinae** (Leach, 1815)
Aphodida Leach, 1815
- Aphodiini** (Leach, 1815)
Aphodida Leach, 1815
- Teuchestes** Mulsant, 1842
- Teuchestes fessor** (Linnaeus, 1758)
Scarabaeus fessor Linnaeus, 1758
- Otophorus** Mulsant, 1842
- Otrophorus haemorrhoidalis** (Linnaeus, 1758)
Scarabaeus haemorrhoidalis Linnaeus, 1758
- Coprimorphus** Mulsant, 1842
- Coprimorphus scrutator** (Herbst, 1789)
Scarabaeus scrutator Herbst, 1789
- Eupleurus** Mulsant, 1842
- Eupleurus subterraneus** (Linnaeus, 1758)
Scarabaeus subterraneus Linnaeus, 1758
- Colobopterus** Mulsant, 1842
- Colobopterus erraticus** (Linnaeus, 1758)
Scarabaeus erraticus Linnaeus, 1758
- Rhodaphodius** gen. n.
- Rhodaphodius foetens** (Fabricius, 1787)
Scarabaeus foetens Fabricius, 1787
- Scarabaeus vaccinarius* Herbst, 1789
- Aphodius aestivalis* Stephens, 1839
- Loraphodius** Reitter, 1892
- Loraphodius suarius** (Faldermann, 1835)
Aphodius suarius Faldermann, 1835
- Aphodius** Illiger, 1798
Platycephalus Cuvier, 1798 nec Block, 1795
- Aphodius conflagratus** (Herbst, 1783)
Scarabaeus conflagratus Herbst, 1783
- Scarabaeus foetidus* Herbst, 1783
- Aphodius scybularius*: Endrödi, 1956
- Aphodius fimetarius** (Linnaeus, 1758)
Scarabaeus fimetarius Linnaeus, 1758
- Loraspis** Mulsant et Rey, 1870
- Loraspis frater** (Mulsant et Rey, 1870)
Aphodius frater Mulsant et Rey, 1870
- Aphodius sulcatus*: Endrödi, 1956
- Aphodius pannonicus* Petrovitz, 1961
- Ammocetus** Mulsant, 1842
- Ammocetus brevis** Erichson, 1848
Ammoecius brevis Erichson, 1848
- Agelinus** Mulsant et Rey, 1870
- Agelinus ater** (De Geer, 1774)
Scarabaeus ater De Geer, 1774
- Agelinus convexus** (Erichson, 1848)
Aphodius convexus Erichson, 1848
- Planolinus** Mulsant et Rey, 1870
- Planolinus putridus** (Sturm, 1805)
Aphodius putridus Sturm, 1805
- Aphodius borealis* Gyllenhal, 1827
- Planolinus uliginosus** (Hardy, 1847)
Scarabaeus putridus Herbst, 1789 nec Fourcroy, 1785
- Scarabaeus fasciatus* Olivier, 1789 nec Linnaeus, 1758
- Scarabaeus sus* Kugelann, 1792 nec Herbst, 1783
- Scarabaeus foetidus* Fabricius, 1792 nec Herbst, 1783
- Aphodius uliginosus* Hardy, 1847
- Agoliinus** A. Schmidt, 1914
- Agoliinus nemoralis** (Erichson, 1848)
Aphodius nemoralis Erichson, 1848
- Oromus** Mulsant et Rey, 1870
- Oromus vertumnus** (Gistel, 1857)
Aphodius corvinus Erichson, 1848 nec Haldeman, 1848
- Aphodius vertumnus* Gistel, 1857
- Limarus** Mulsant et Rey, 1870
- Limarus maculatus** (Sturm, 1800)
Aphodius maculatus Sturm, 1800
- Alocoderus** A. Schmidt, 1914
- Alocoderus hydrochaeris** (Fabricius, 1798)
Scarabaeus hydrochaeris Fabricius, 1798
- Bodilopsis** gen. n.
- Bodilopsis scybularius** (Fabricius, 1781)
Scarabaeus scybularius Fabricius, 1781
- Scarabaeus rufus* Moll, 1782 nec De Geer, 1778
- Bodilopsis sordidus** (Fabricius, 1775)
Scarabaeus sordidus Fabricius, 1775
- Acanthobodilus** Dellacasa, 1983
- Acanthobodilus immundus** (Creutzer, 1799)
Aphodius immundus Creutzer, 1799
- Calamosternus** Motschulsky, 1859
- Calamosternus granarius** (Linnaeus, 1767)
Scarabaeus granarius Linnaeus, 1767
- Nialus** Mulsant et Rey, 1870
- Nialus haagi** (Becker, 1867)
Aphodius haagi Becker, 1867
- Aphodius kraatzi* Harold, 1868
- Nialus varians** (Duftschmid, 1805)
Scarabaeus bimaculatus Fabricius, 1787 nec Laxmann, 1770

- Scarabaeus niger* Panzer, 1797 nec Giorna, 1791
Aphodius varians Duftschmid, 1805
Aphodius limnophilus Harold, 1871
Aphodius venygei Endrődi, 1969
Liothorax Motschulsky, 1859
Liothorax muscorum sp. n.
Aphodius niger: Endrődi, 1956
Liothorax plagiatus (Linnaeus, 1767)
Scarabaeus plagiatus Linnaeus, 1767
Labarrus Mulsant et Rey, 1870
Labarrus lividus (Olivier, 1789)
Scarabaeus lividus Olivier, 1789
Subrinus Mulsant et Rey, 1870
Subrinus rufus (Sturm, 1805)
Aphodius rufus Sturm, 1805
Aphodius illigeri Mulsant et Rey, 1870
Aphodius sturmi Harold, 1870
Bodilus Mulsant et Rey, 1870
Bodilus ictericus (Laicharting, 1781)
Scarabaeus ictericus Laicharting, 1781
Scarabaeus nitidulus Fabricius, 1792
Bodilus lugens (Creutzer, 1799)
Aphodius lugens Creutzer, 1799
Bodilus punctipennis (Erichson, 1848)
Aphodius punctipennis Erichson, 1848
Melaphodius Reitter, 1892
Melaphodius circumcinctus (W. L. Schmidt, 1840)
Aphodius limbatus Germar, 1824 nec Wiedemann, 1821
Aphodius circumcinctus W. L. Schmidt, 1840
Amidorus Mulsant et Rey, 1870
Amidorus thermicola (Sturm, 1800)
Aphodius thermicola Sturm, 1800
Sigorus Mulsant et Rey, 1870
Sigorus porcus (Fabricius, 1792)
Scarabaeus porcus Fabricius, 1792
Phalacronothus Motschulsky, 1859
Orodalus Mulsant et Rey, 1870
Emadus Mulsant et Rey, 1870
Eudolus Mulsant et Rey, 1870
Esymus Mulsant et Rey, 1870
Eurodalus Dellacasa, 1983
Phalacronothus biguttatus (Germar, 1824)
Scarabaeus sanguinolentus Panzer, 1797 nec Herbst, 1783
Aphodius biguttatus Germar, 1824
Phalacronothus citellorum (Semenov-Tian-Shanskij et Medvedev, 1929)
Aphodius citellorum Semenov-Tian-Shanskij et Medvedev, 1929
Aphodius quadrimaculatus: Endrődi, 1956
Phalacronothus merdarius (Fabricius, 1775)
Scarabaeus merdarius Fabricius, 1775
Phalacronothus paracoenosus (Balthasar et Hrbant, 1960)
Aphodius tristis: Endrődi, 1956
Aphodius paracoenosus Balthasar et Hrbant, 1960
Phalacronothus pusillus (Herbst, 1789)
Scarabaeus pusillus Herbst, 1789
Phalacronothus quadriguttatus (Herbst, 1783)
Scarabaeus quadriguttatus Herbst, 1783
Trichonotulus Bedel, 1911
Trichonotus Mulsant, 1842 nec Schneider, 1801
Trichonotulus seroфа (Fabricius, 1787)
Scarabaeus scrofa Fabricius, 1787
Plagiogonus Mulsant, 1842
Plagiogonus putridus (Fourcroy, 1785)
Scarabaeus putridus Fourcroy, 1785
Aphodius arenarius: Endrődi, 1956
Acrossus Mulsant, 1842
Acrossus depresso (Kugelann, 1792)
Scarabaeus depresso Kugelann, 1792
Acrossus luridus (Fabricius, 1775)
Scarabaeus luridus Fabricius, 1775
Scarabaeus tessellatus O. F. Müller, 1776
Acrossus rufipes (Linnaeus, 1758)
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Biralus Mulsant et Rey, 1870
Biralus satellitius (Herbst, 1789)
Scarabaeus satellitius Herbst, 1789
Nobius Mulsant et Rey, 1870
Nobius serotinus (Panzer, 1799)
Scarabaeus serotinus Panzer, 1799
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Melinopterus consputus (Creutzer, 1799)
Aphodius consputus Creutzer, 1799
Melinopterus prodromus (Brahm, 1790)
Scarabaeus prodromus Brahm, 1790
Melinopterus pubescens (Sturm, 1800)
Aphodius pubescens Sturm, 1800
Melinopterus punctatosulcatus (Sturm, 1805)
Aphodius punctatosulcatus Sturm, 1805
Aphodius sabulicola Thomson, 1868
Melinopterus sphacelatus (Panzer, 1798)
Scarabaeus sphacelatus Panzer, 1798
Chilothonax Motschulsky, 1859
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Aphodius tessulatus var. *irregularis* Mulsant, 1842 nec Hope, 1839
Aphodius tessulatus var. *connexus* Mulsant, 1842
Aphodius paykulli Bedel, 1908
Aphodius tessulatus: Endrődi, 1956
Chilothonax pictus (Sturm, 1805)
Aphodius pictus Sturm, 1805
Dimendius Semenov-Tian-Shanskij et Medvedev, 1929
Dimendius distinctus (O. F. Müller, 1776)
Scarabaeus distinctus O. F. Müller, 1776
Dimendius melanostictus (W. L. Schmidt, 1840)
Aphodius melanostictus W. L. Schmidt, 1840
Volinus Mulsant et Rey, 1870
Volinus equestris (Panzer, 1798)
Scarabaeus equestris Panzer, 1798
Scarabaeus sticticus Panzer, 1798 nec Linnaeus, 1767

- Nimbus** Mulsant et Rey, 1870
Nimbus affinis (Panzer, 1823)
Aphodius affinis Panzer, 1823
Aphodius hoherlandti Tesar, 1945
Nimbus contaminatus (Herbst, 1783)
Scarabaeus contaminatus Herbst, 1783
Nimbus oblitteratus (Panzer, 1823)
Aphodius oblitteratus Panzer, 1823
Euheptaulacus Dellacasa, 1983
Euheptaulacus porcellus (J. Frivaldszky, 1879)
Oxyomus porcellus J. Frivaldszky, 1879
Euheptaulacus sus (Herbst, 1783)
Scarabaeus sus Herbst, 1783
Euheptaulacus villosus (Gyllenhal, 1806)
Aphodius villosus Gyllenhal, 1806
Heptaulacus Mulsant, 1842
Heptaulaculus Dellacasa and Baraud, 1978
Heptaulacus testudinarius (Fabricius, 1775)
Scarabaeus testudinarius Fabricius, 1775
Oxyomus Dejean, 1833
Oxyomus sylvestris (Scopoli, 1763)
Scarabaeus sylvestris Scopoli, 1763
Psammodiinae (Mulsant, 1842)
Psammodiaires Mulsant, 1842
Pleurophorini (Mulsant, 1842)
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Rhyssemina Pittino et Mariani, 1986
Rhyssemus Mulsant, 1842
Rhyssemus germanus (Linnaeus, 1767)
Ptinus germanus Linnaeus, 1767
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Psammodiinae (Mulsant, 1842)
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Diastictus Mulsant, 1842
Diastictus vulneratus (Sturm, 1805)
Aphodius vulneratus Sturm, 1805
Leiopsammodius Rakovic, 1981
Psammodius haruspex (Ádám, 1980)
Psammodius haruspex Ádám, 1980
Psammodius Fallén, 1807
Psammodius asper (Fabricius, 1775)
Scarabaeus asper Fabricius, 1775
Aphodius sulcicollis Illiger, 1801
Psammodius canaliculatus Mulsant, 1842
Psammodius sulcicollis var. *canaliculatus* Mulsant, 1842
Psammodius pierottii Pittino, 1979
Psammodius danubialis Ádám, 1989
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Psammodius laevipennis A. Costa, 1844
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Copridae (Leach, 1815)
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- Coprinae** (Leach, 1815)
Coprides Leach, 1815
Coprinini (Leach, 1815)
Coprides Leach, 1815
Copris O. F. Müller, 1776
Pilularius Schrank, 1798
Copris lunaris (Linnaeus, 1758)
Scarabaeus lunaris Linnaeus, 1758
Copris umbilicatus Abeille de Perrin, 1901
Copris umbilicatus Abeille de Perrin, 1901
Onitini (Hope, 1837)
Onitiidae Hope, 1837
Cheironitis Lansberge, 1875
Cheironitis ungaricus (Herbst, 1789)
Scarabaeus ungaricus Herbst, 1789
Oniticellini (d'Orbigny, 1915)
Oniticellides d'Orbigny, 1915
Euoniticellus Janssens, 1953
Euoniticellus flavipes (Fabricius, 1781)
Scarabaeus fulvus Goeze, 1777 nec De Geer, 1774
Scarabaeus flavipes Fabricius, 1781
Euoniticellus pallipes (Fabricius, 1781)
Scarabaeus pallipes Fabricius, 1781
Onthophagini (Lacordaire, 1856)
Onthophagides Lacordaire, 1856
Euonthophagus Balthasar, 1959
Euonthophagus alces (Fabricius, 1792)
Scarabaeus alces Fabricius, 1792
Onthophagus amynatas: Endrődi, 1956
Onthophagus Latreille, 1802
Onthophagus illyricus (Scopoli, 1763)
Scarabaeus illyricus Scopoli, 1763
Onthophagus taurus (Schreber, 1759)
Scarabaeus taurus Schreber, 1759
Bubalonthophagus gen. n.
Bubalonthophagus furciceps (Marseul, 1869)
Onthophagus furciceps Marseul, 1869
Onthophagus kindermanni Harold, 1877
Citellonthophagus gen. n.
Citellonthophagus vitulus (Fabricius, 1776)
Scarabaeus vitulus Fabricius, 1776
Troglonthophagus gen. n.
Troglonthophagus semicornis (Panzer, 1798)
Scarabaeus semicornis Panzer, 1798
Furconthophagus Zunino, 1979
Furconthophagus furcatus (Fabricius, 1781)
Scarabaeus furcatus Fabricius, 1781
Kisonthophagus gen. n.
Kisonthophagus grossepunctatus (Reitter, 1905)
Onthophagus ovatus *grossepunctatus* Reitter, 1905
Kisonthophagus joannae (Goljan, 1953)
Onthophagus joannae Goljan, 1953
Kisonthophagus ovatus (Linnaeus, 1767)
Scarabaeus ovatus Linnaeus, 1767
Kisonthophagus ruficapillus (Brullé, 1832)
Onthophagus ruficapillus Brullé, 1832

- Lucidonthophagus** gen. n.
- Lucidonthophagus lucidus** (Illiger, 1800)
Copris lucidus Illiger, 1800
Copris lucida Sturm, 1800 nec Illiger, 1800
- Haplonthophagus** gen. n.
- Haplonthophagus lemur** (Fabricius, 1781)
Scarabaeus lemur Fabricius, 1781
- Palaeonthophagus** Zunino, 1979
- Palaeonthophagus coenobita** (Herbst, 1783)
Scarabaeus coenobita Herbst, 1783
- Palaeonthophagus fracticornis** (Preissler, 1790)
Scarabaeus fracticornis Preissler, 1790
- Palaeonthophagus gibbulus** (Pallas, 1781)
Scarabaeus gibbulus Pallas, 1781
- Palaeonthophagus nuchicornis** (Linnaeus, 1758)
Scarabaeus nuchicornis Linnaeus, 1758
Scarabaeus verticicornis Fabricius, 1775
- Palaeonthophagus nutans** (Fabricius, 1787)
Scarabaeus verticicornis Laicharting, 1781 nec
 Fabricius, 1775
Scarabaeus nutans Fabricius, 1787
- Palaeonthophagus similis** (Scriba, 1790)
Copris similis Scriba, 1790
- Palaeonthophagus tesquorum** (Semenov-Tian-Shanskij et Medvedev, 1927)
Onthophagus tesquorum Semenov-Tian-Shanskij et Medvedev, 1927
- Palaeonthophagus vacca** (Linnaeus, 1767)
Scarabaeus vacca Linnaeus, 1767
- Caccobius** Thomson, 1859
Histeridium Motschulsky, 1859
- Caccobius histeroides** (Ménétries, 1832)
Onthophagus histeroides Ménétries, 1832
- Caccobius schreberi** (Linnaeus, 1767)
Scarabaeus schreberi Linnaeus, 1767
- Ateuchinae** (Castelnau, 1840)
Ateuchites Castelnau, 1840
- Sisyphini** (Mulsant, 1842)
Sisyphaires Mulsant, 1842
- Sisyphus** Latreille, 1810
- Sisyphus schaefferi** (Linnaeus, 1758)
Scarabaeus schaefferi Linnaeus, 1758
- Gymnopleurini** (Lacordaire, 1856)
Gymnopleurides Lacordaire, 1856
- Gymnopleurus** Illiger, 1803
- Gymnopleurus geofroae** (Fuesslin, 1775)
Scarabaeus geofroae Fuesslin, 1775
Gymnopleurus cantharus Illiger, 1803
- Gymnopleurus mopsus** (Pallas, 1781)
Scarabaeus mopsus Pallas, 1781
- Ateuchini** (Castelnau, 1840)
Ateuchites Castelnau, 1840
- Ateuchetus** Bedel, 1892
- Ateuchetus semipunctatus** (Fabricius, 1792)
Scarabaeus semipunctatus Fabricius, 1792
- Actinophorus** Creutzer, 1799
Ateuchus Weber, 1801
- Actinophorus pius** (Illiger, 1803)
Ateuchus pius Illiger, 1803
- Actinophorus typhon** (Fischer, 1824)
Ateuchus typhon Fischer, 1824
- Ateuchus affinis* Brullé, 1832 nec Fabricius, 1801

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