

Updating the CD-rom on Coleoptera Tenebrionidae of Italy and the check-list of the same family

Vittorio Aliquò¹ & Fabien Soldati²

¹Via Umberto Giordano 234, 90144 Palermo, Italy; e-mail: vitaliq@tin.it

²Office National des Forêts, Laboratoire National d'Entomologie Forestière, 2 rue Charles Péguy, 11500 Quillan, France; e-mail: fabien.soldati@onf.fr

ABSTRACT

The authors update their recent work on Italian Tenebrionidae. At first, they present main taxonomic changes, new taxa to Italian fauna and new faunistic data, secondly they present an up to date check-list of Italian Tenebrionidae, including Sardinia and Sicily.

KEY WORDS

Coleoptera; Tenebrionidae; Italy; updated check-list.

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INTRODUCTION

A few years have passed since the publication of the CD-rom on the fauna of Italy for Tenebrionidae Latreille, 1802 (Aliquò et al., 2007) and still some new data, new studies and the emergence of new ideas lead us to publish these update notes that can integrate our previous work and make it more useful to those who wish to consult it.

We are not, of course, sorry for these contingencies, but rather comforted to see how rapidly knowledge progress and many scholars devote themselves to the very same arguments that have fascinated us and filled our lives. Also, we do not exclude to re-publish, in the next future, the CD in a more complete form, perhaps taking advantage of the techniques for comparison and determination experienced in the latter CD of the series.

This paper is divided into two distinct parts. The first one includes “addenda et corrigenda” to the previous CD, excluding the numerous systematic and taxonomic changes reported in the Catalogue of Palaearctic Coleoptera (Löbl et al., 2008). The second part is the complete checklist of Tenebrionidae fauna of Italy updated from the taxo-

nomic point of view, based on the work of Löbl et al. (2008), and including all new entities listed in the first part.

I-CD-ROM Update

Akis Herbst, 1799

Akis tuberculata Kraatz, 1865 is considered as a species distinct by *A. bacarozzo* (Schrank, 1786) by Ferrer et al. (2008). Although not reported for Italy by these authors, is probably frequent in Sardinia as it occurs throughout Corsica. We do not agree with the same authors for the synonymy of *A. italica* Solier, 1837 and *A. barbara* Solier, 1837 with *A. trilineata* Herbst, 1799.

Alphitobius Stephens, 1829

M. Violi reports the presence of *Alphitobius diaperinus* (Panzer, 1796) at Lampedusa (www.entomologiitaliani.it).

Alphitophagus Stephens, 1832

It is reported the presence of *Alphitophagus*

bifasciatus (Say, 1824) also for the Marche (Giovagnoli et al., 2012).

Ammobius Guérin-Méneville, 1844

Findings have been reported for the Marche, thus confirming the previous indication of the presence of *Ammobius rufus* (Lucas, 1846) in that region (Giovagnoli et al., 2012).

Asida Latreille, 1802

To this genus must be added the new species of *Asida*, all endemics of Sardinia and strictly localized, described by Leo (2009): *Asida* (*A.*) *dryas* (Fig. 1), *A.* (*A.*) *anachoreta* and *A.* (*A.*) *solieri* ssp. *caroli* and by Leo (2012): *A.* (*A.*) *androgyna*, *A.* (*A.*) *nurrae* and *A.* (*A.*) *paulae*. At present it is reported the presence of *A. dryas* in the area of Capoterra and S Sulcis, and E and SE of Cagliari; of *A. anachoreta* on Mount Linas (at Medio Campidano); of *A. solieri caroli* on Mount Arci at SW of Oristano, being *A. solieri solieri* limited to the coast around Gonnessa and Teulada, while in the islands of San Pietro and S. Antioco is found *A. solieri fancelloi* Leo, 1984. Additional new species are strictly localized as well: *A. androgyna* at the Southeastern end of Sardinia, in the southern part of the massif of Sarrabus including Monte dei Sette Fratelli; *A. nurrae* at Argentiera on the S coast of the Stintino peninsula and *A. paulae* in the same peninsula and in the islands of Piana and Asinara.

Blaps Fabricius, 1775

Findings from precise locations of the Marche are reported, thus confirming the previous indication of the presence of *Blaps gibba* Laporte de Castelnau, 1840, *B. lethifera* Marsham, 1802 and *B. mucronata* Latreille, 1804 in that region (Giovagnoli et al., 2012).

Boromorphus Wollaston, 1854

Gardini (2010) describes *Boromorphus italicus*, the first representative for Italy of the genus and Boromorphini tribe, present in Calabria and Basilicata.

Corticeus Piller et Mitterpacher, 1783

The presence of *Corticeus fasciatus* (Fabricius, 1790) is reported for Marche, moreover is confirmed, in the same region, the occurrence of *C. uni-*

color Piller et Mitterpacher, 1783 (Giovagnoli et al., 2012).

Dendarus Dejean, 1821

To *Dendarus* (*Pandarinus*) *peslieri* Soldati, 2012 (Fig. 2), described from Ionian Greece, should be attributed all populations from Apulia so far indicated as belonging to *D. coelatus* Brullé, 1832 (Soldati, 2012). On the contrary, this latter is endemic to the Peloponnese. In addition, findings of *Dendarus* (*Pandarinus*) *dalmatinus* (Germar, 1824) are reported as new record for the Marche (Giovagnoli et al., 2012).

Diaclina Jacquelin du Val, 1861

The presence of *Diaclina fagi* (Panzer, 1799) is reported for the Marche (Giovagnoli et al., 2012).

Diaperis Geoffroy, 1762

Findings from some locations of the Marche are reported, thus confirming the previous generic report on the presence of *Diaperis boleti* (Linnaeus, 1758) in that region (Giovagnoli et al., 2012).

Dichillus Jacquelin du Val, 1861

Must be added the new species described by Leo (2008): *Dichillus* (*D.*) *tyrrhenicus* (Fig. 3) and *D.* (*D.*) *tapinomae*, this latter endemic to Sardinia, known at present only of the beach and the dunes of San Giovanni di Sinis, where it lives in the nests of the ant *Tapinoma simrothi* Krausse, 1911. *D. tyrrhenicus* is spread throughout the island. All quotes of *D. corsicus* (Solier, 1838) and *D. pumilus* sensu Auctores nec Solier, 1838 for Argentario, Elba and Tuscan Islands should be referred to *D. tyrrhenicus*. Whereas reports of other *Dichillus* from Calabria, Basilicata and Campania should instead be referred to *D. corsicus* (Solier, 1838).

Elenophorus Dejean, 1821

In Löbl et al. (2008) *Elenophorus* Dejean, 1821 is replaced with *Leptoderis* Billberg, 1820, without any explanations in the introduction to the Catalogue. If the reason is, as indicated by Silfverberg (1984), only the priority of the name, we do not agree. According to the article 23.9 of the International Code of Zoological Nomenclature (ICZN, 1999), *Leptoderis* should be considered “nomen oblitum”, as probably never used after its original



Figure 1. *Asida dryas*. Sardinia, Cagliari: Domusdemaria, Pixina Manna, 9.VI.2003, L. Fancello leg.



Figure 2. *Dendarus peslieri*. Apulia, Lecce, Meledugno, S. Foca-Torre dell'Orso, 25-28.VI.2007, R. Lisa leg.

description, while *Elenophorus*, which has been used consistently by all subsequent authors, should be considered “nomen protectum”.

Eutagenia Reitter, 1886

The presence of *Eutagenia aegyptiaca tunisea* Normand, 1936 is reported also from Lampione islet (Lo Cascio & Pasta, 2012).

Gonocephalum Solier, 1834

A record from the Marche is reported, thus confirming the previous indication of the presence of *Gonocephalum (G.) granulatum nigrum* (Küster, 1849) in that region (Giovagnoli et al., 2012).

Latheticus Waterhouse, 1880

It is reported the capture of *Latheticus oryzae* Waterhouse, 1880 in Piedmont (Evangelista, 2011).

Leichenium Dejean, 1834

Is reported the presence of *Leichenium pictum* (Fabricius, 1801) also for the coast of Marche (Giovagnoli et al., 2012).

Melanimon Steven, 1829

Is reported the presence of *Melanimon tibiale*

(Fabricius, 1781) also for the coasts of Marche (Giovagnoli et al., 2012).

Nalassus Mulsant, 1854

Is indicated the presence of *Nalassus (N.) dermestoides* (Illiger, 1798) also for the Marche (Giovagnoli et al., 2012).

Odocnemis Allard, 1876

Is reported the presence of *Odocnemis exaratus* (Germar, 1817) also for the Marche (Giovagnoli et al., 2012).

Opatrum Fabricius, 1775

G. Altadonna reports and documents the capture of *Opatrum (Colpophorus) validum validum* Rottenberg, 1871 (www.entomologiitaliani.it), on Mount Etna, E side, at Milo, thus confirming that the species is still present in Sicily, place of origin of some specimens of the typical series. *Opatrum dahli* Küster, 1849 indicated in the CD as endemic to Sardinia and Corsica, on the contrary is not present on the latter island, where is replaced by *O. malgorzatae* (Leo et al., 2011).

Pentaphyllus Dejean, 1821

Is reported the presence of *Pentaphyllus tes-*

taceus (Hellwig, 1792) in Piedmont (Evangelista, 2011).

Phaleria Latreille, 1802

Actually, the photo of *Phaleria provincialis ghidinii* Canzoneri, 1961 in the paper by Aliquò et al. (2007) is of *Phaleria acuminata* Küster, 1852. The distribution shown for the latter species includes, incorrectly, Liguria, Emilia Romagna, Veneto and Friuli Venezia Giulia, regions for which there are no reliable reportings.

Phylan Dejean, 1821

Phylan (P.) poggii Ferrer, 2013 is described from Ischia and Southern Italy (Ferrer, 2013).

Pimelia Fabricius, 1775

Pimelia bipunctata papii Canzoneri, 1963, reported from Liguria and Tuscany, is synonymous with the typical form of *P. bipunctata* Fabricius, 1781. Its subspecies *P. bipunctata cajetana* Sénac, 1887 is instead a valid species of Central and Southern Italy (Ferrer & Castro Tovar, 2012). Also the photos in the CD are to be interpreted in this way.

Probaticus Seidlitz, 1896

Sparacio (2007) described *Probaticus cossyren-*

sis (Fig. 4), an endemic species from Pantelleria island, to which should be attributed the specimens from the same island previously reported as *P. anthrax* (Seidlitz, 1896).

Scaphidema L. Redtenbacher, 1849

Is reported the presence of *Scaphidema metallica* (Fabricius, 1792) for the Marche (Giovagnoli et al., 2012).

Scaurus Fabricius, 1775

Is reported the presence of *Scaurus striatus* Fabricius, 1792 and of *S. tristis* A.G. Olivier, 1795 also for the Marche, for populations which, however, might result from accidental importation (Giovagnoli et al., 2012).

Stenosis Herbst, 1799

Stenosis angusticollis elongatissima Koch, 1940 is to be considered a synonym of *S. angusticollis* (Reiche, 1861) (Leo, 2008). Findings are reported from some locations in Marche, thus confirming the previous generic indication of the presence of *S. intermedia* (Solier, 1838) in that region (Giovagnoli et al., 2012).

Tentyria Latreille, 1802

Tentyria ramburi is attributed to the subgenus



Figure 3. *Dichillus tyrrhenicus*. Sardinia, Nuoro: Villanova Strisaili, altitude 1000 m, 23.V.1974.



Figure 4. *Probaticus cossyrensis*, paratypus. Sicily, Trapani: Pantelleria, VIII.1987, V. Aliquò leg.

Subtentyrina Löbl et Merkl, 2003 (Leo, 2009). According to the same author, *T. (T.) rugosa* Gené, 1836 is a valid species, not subspecies of *T. (S.) ramburi* Solier, 1835, and to *T. (T.) rugosa* belong the subspecies *floresii* Gené, 1836 and *cassolai* Ardoin, 1973.

Uloma Dejean, 1821

It is reported a record from Marche, thus confirming the previous indication of the presence of *Uloma culinaris* (Linnaeus, 1758) in that region (Giovagnoli et al., 2012).

II - UPDATING OF THE CHECKLIST OF THE FAUNA OF ITALY

For many years, Tenebrionidae of Italy were grouped only by tribe, according to an ancient tradition that has its best expression especially in the Tables of the monumental book "Fauna coleopterorum italica" by Porta (1934), for over half a century a true "summa" of the Italian systematic entomology, which made it easily accessible, by translating and adapting them, the most classic studies of nearly one hundred years before (between 800 and 900) and, for Tenebrionidae in particular, numerous papers by E. Reitter and H. Gebien. The order of presentation is very similar to that of the more recent check-list by Gardini (1995), which has been widely used and also followed in the preparation of the CD-rom on Coleoptera Tenebrionidae of Italy (Aliquò et al., 2007).

In the 70s and then more frequently from the late 80s of the last century, many studies appeared dealing with systematics of Tenebrionidae (Watt, 1974; Doyen & Lawrence, 1979; Kwieton, 1982; Doyen et al., 1989; Lawrence & Newton, 1995, and subsequently in particular Aalbu et al., 2002; Bouchard et al., 2005; Aalbu, 2006;), in the light of which the overall picture of the Family can be said to have been profoundly changed, with the grouping of tribes in subfamilies according to different schemes which, over time, have been widely accepted.

An authoritative version is given in the recent fundamental catalog of Palaearctic Coleoptera published by Löbl & Smetana (2008), written, of course, with the help of leading specialists in the world. At the same time the opinion that Tenebri-

onidae comprise the old families Lagriidae and Alleculidae is now accepted by almost everyone. Even the inclusion of the genus *Myrmexixenus* Chevrolat, 1835 (considered, at times, to belong to Mycetophagidae or Colydiidae or to other families) with a 4-4-4 tarsal formula (which is not the Heteromera kind) is not so surprising, because one may find Bolitophagini or Phrenapatinae with a not Heteromera-type tarsal formula. So it's no longer justified not to draw the appropriate conclusions, and a new edition of the CD should be completed including also the species belonging to the subfamily Alleculinae (Fig. 5).

Following the approach adopted by Löbl et al. (2008), the list of Tenebrionidae of Italy and of the species and subspecies definitely present in Italy or reliably indicated by catches in the Italian territory, should be updated as follows.

The updated checklist includes 387 taxa, as some species includes one or more subspecies. All endemic taxa of Italian fauna are 139, species and subspecies, and they are indicated with [E]. When the nominal form of a species is not present in Italy, although substituted by one or more subspecies, it is reported within brackets []. New taxa at the species or subspecies level published after the CD-Rom by Aliquò et al. (2007) are mentioned in bold.



Figure 5. *Isomira melanophthalma*. Corsica, Mausoléo, 16.V.2003, F. Soldati leg.

TENEBRIONIDAE check-list**LAGRIINAE** Latreille, 1825**Belopini** Reitter, 1917*Centorus* Mulsant, 1854*(Centorus) crassipes* (Fischer von Waldheim, 1844)*(Centorus) proceroides* Leo, 1984 [E][*(Belopus) elongatus* (Herbst, 1797)]ssp. *ecalcaratus* (Seidlitz, 1896)**Cossyphini** Latreille, 1802*Cossyphus* A.G. Olivier, 1791*(Cossyphus) moniliferus* Chevrolat, 1833*(Cossyphus) tauricus* Steven, 1832**Laenini** Seidlitz, 1896*Laena* Dejean, 1821*viennensis* (Sturm, 1807)**Lagriini** Latreille, 1825*Lagria* Fabricius, 1775*(Apteronympha) rugosula* Rosenhauer, 1856= *glabrata* A.G. Olivier, 1797*(Lagria) atripes* Mulsant et Guillebeau, 1855*(Lagria) hirta* (Linnaeus, 1758)**PHRENAPATINAE** Solier, 1834**Penetini** Lacordaire, 1859*Clamoris* Dès Gozis, 1886*crenatus* (Mulsant, 1854)**PIMELIINAE** Latreille, 1802**Adelostomini** Solier, 1834*Machlopsis* Pomel, 1871*doderoi* Gridelli, 1930**Akidini** Billberg, 1820*Akis* Herbst, 1799*bacarozzo* (Schrank, 1786)*barbara* Solier, 1837*italica* Solier, 1837*subterranea* Solier, 1837*trilineata* Herbst, 1799*tuberculata* Kraatz, 1865**Asidini** Fleming, 1821*Alphasida* Escalera, 1905*(Glabrasida) grossa* (Solier, 1836) [E]ssp. *sicula* (Solier, 1836) [E][*(Glabrasida) puncticollis* (Solier, 1836)]ssp. *moltonii* Canzoneri, 1972 [E]ssp. *tirellii* (Leoni, 1929) [E]*Asida* Latreille, 1802*(Asida) anachoreta* Leo, 2009 [E]*(Asida) androgyna* Leo, 2012 [E]*(Asida) argentierae* Leo, 1980 [E]*(Asida) australis* Baudi, 1875 [E]*(Asida) bayardi* Solier, 1836 [E]ssp. *blaptoides* Leoni, 1909 [E]ssp. *leosinii* Leoni, 1909 [E]*(Asida) calabra* Leoni, 1909 [E]*(Asida) combae* Gené, 1839 [E]*(Asida) corsica* Laporte de Castelnau, 1833ssp. *genei* Solier, 1836 [E]*(Asida) dejeanii* Solier, 1836*(Asida) doderoi* Leoni, 1910 [E]*(Asida) dorgaliensis* Leoni, 1911 [E]ssp. *montalbica* Reitter, 1917 [E]*(Asida) dryas* Leo, 2009 [E]*(Asida) fascicularis* (Germar, 1817)ssp. *fiorii* Leoni, 1909 [E]*(Asida) gestroi* Leoni, 1910 [E]ssp. *capraiensis* Gridelli, 1972 [E]ssp. *gardinii* Lo Cascio, 2000 [E]ssp. *lanzai* Leo, 1998 [E]ssp. *tyrrhena* Leoni, 1910 [E]*(Asida) glacialis* Gené, 1839 [E]ssp. *barbaricina* Leoni, 1911 [E]ssp. *rustica* Gené, 1839 [E]*(Asida) goryi* Solier, 1836 [E]? *(Asida) incerta* Leoni, 1910 [E]*(Asida) ligurica* Baudi, 1875*(Asida) longicollis* Solier, 1836*(Asida) lostiae* Allard, 1888 [E]*(Asida) luigionii* Leoni, 1910 [E]

- ssp. *doriae* Leoni, 1910 [E]
 ssp. *insularis* Leoni, 1910 [E]
 (*Asida*) *lulensis* Reitter, 1917 [E]
 (*Asida*) *minima* Reitter, 1917 [E]
 (*Asida*) *novasiriensis* Grimm, 1985 [E]
 (*Asida*) *nuragica* Leo, 1985 [E]
 (***Asida***) *nurrae* Leo, 2012 [E]
 (***Asida***) *paulae* Leo, 2012 [E]
 (*Asida*) *piligera* Leoni, 1909 [E]
 (*Asida*) *pirazzolii* Allard, 1869 [E]
 ssp. *sardiniensis* Allard, 1869 [E]
 (*Asida*) *sabulosa* (Fuessly, 1775)
 (*Asida*) *sardoa* Leoni, 1910 [E]
 (*Asida*) *schusteri* Reitter, 1917
 (*Asida*) *solieri* Gené, 1836 [E]
 ssp. *caroli* Leo, 2009 [E]
 ssp. *fancelli* Leo, 1985 [E]
 (*Polasida*) *poneli* F. Soldati et L. Soldati, 2001
- Boromorphini** Skopin, 1978
- Boromorphus* Wollaston, 1854
italicus Gardini, 2010 [E]
- Cnemeplatiini** Jacquelin du Val, 1861
- Cnemeplatia* A. Costa, 1847
atropis A. Costa, 1847
- Elenophorini** Solier, 1837
- Elenophorus* Dejean, 1821
collaris (Linnaeus, 1767)
- Erodiini** Billberg, 1820
- Erodius* Fabricius, 1775
 [(*Erodius*) *audouini* Solier, 1834]
 ssp. *destefanii* Failla Tedaldi, 1887 [E]
 ssp. *peiroleri* Solier, 1834
 (*Erodius*) *siculum* Solier, 1834 [E]
 ssp. *neapolitanus* Solier, 1834 [E]
 ssp. *dalmatinus* Kraatz, 1865
- Pimeliini** Latreille, 1802
- Pimelia* Fabricius, 1775
 [(*Pimelia*) *angusticollis* Solier, 1836]
 ssp. *punctatorugosa* Reitter, 1915 [E]
 ssp. *sulcitana* Leo et Pisano, 1978 [E]
 (*Pimelia*) *bipunctata* Fabricius, 1781
 = *papii* Canzoneri, 1963 [E]
 (*Pimelia*) *cajetana* Sénac, 1887 [E]
 (*Pimelia*) *goryi* Solier, 1836 [E]
 ssp. *cassolai* Ardoin, 1973 [E]
 (*Pimelia*) *grossa* Fabricius, 1792
 (*Pimelia*) *payraudi* Latreille, 1829
 ssp. *subalpina* Ardoin, 1973 [E]
 (*Pimelia*) *rugulosa* Germar, 1824 [E]
 ssp. *apula* Gridelli, 1950 [E]
 ssp. *sublaevigata* Solier, 1836 [E]
 (*Pimelia*) *undulata* Solier, 1836 [E]
- Trachyderma* Latreille, 1829
 (*Trachyderma*) *lima* (L. Petagna, 1819)
- Sepidiini** Eschscholtz, 1829
- Sepidium* Fabricius, 1775
siculum Solier, 1844 [E]
- Stenosini** Lacordaire, 1859
- Dichillus* Jacquelin du Val, 1861
 (*Dichillus*) *corsicus* (Solier, 1838)
 = *pumilus* Solier, 1838
 (*Dichillus*) *minutus* (Solier, 1838)
 (*Dichillus*) *socius* Rottenberg, 1871 [E]
 (*Dichillus*) *subtilis* Kraatz, 1862 [E]
 (***Dichillus***) *tapinomae* Leo, 2008 [E]
 (***Dichillus***) *tyrrhenicus* Leo, 2008
 (*Dichillocerus*) *pertusus* (Kiesenwetter, 1861)
- Eutagenia* Reitter, 1886
 [*aegyptiaca* Reitter, 1889]
 ssp. *tunisea* Normand, 1936
elvirae Marcuzzi et Turchetto, 1982 [E]
- Microtelus* Solier, 1838
lethierryi Reiche, 1860
- Stenosis* Herbst, 1799
angusticollis (Reiche, 1861)
 = *elongatissima* Koch, 1940
brenthoides (Rossi, 1790)
brignonei Koch, 1935 [E]
consiglioi Canzoneri, 1976 [E]
freyi Koch, 1940
intermedia (Solier, 1838)
melitana Reitter, 1894
sardoa (Küster, 1848)
 ssp. *ardoini* Canzoneri, 1970 [E]

Tentyriini Eschscholtz, 1831*Imatismus* Dejean, 1834*villosus* (Haag-Rutenberg, 1870)*Pachychila* Eschscholtz, 1831[(*Pachychila*) *crassicollis* Kraatz, 1865]ssp. *cosyrensis* (Ragusa, 1875)(*Pachychila*) *frioli* Solier, 1835(*Pachychila*) *germari* Solier, 1835(*Pachychila*) *servillei* (Solier, 1835)(*Pachychila*) *tazmaltensis* Desbrochers des Loges, 1881(*Pachychilina*) *dejeani* (Besser, 1832)ssp. *doderoi* Peyerimhoff, 1927*Tentyria* Latreille, 1802(*Tentyria*) *grossa* Besser, 1832ssp. *angustata* Kraatz, 1896 [E]ssp. *sommieri* Baudi, 1874 [E]ssp. *sardiniensis* Ardoïn, 1973 [E](*Tentyria*) *italica* Solier, 1835(*Tentyria*) *laevigata* Steven, 1829 [E](*Tentyria*) *rugosa* Gené, 1836 [E]ssp. *cassolai* Ardoïn, 1973 [E]ssp. *floresii* Gené, 1836 [E](*Subtentyrina*) *ligurica* Solier, 1835ssp. *confusa* Ardoïn, 1973 [E]ssp. *pseudorugosa* Ardoïn, 1973 [E](*Subtentyrina*) *ramburi* Solier, 1835= *maillei* Solier, 1835**Zophosini** Solier, 1834*Zophosis* Latreille, 1802(*Oculosis*) *punctata* Brullé, 1832**TENEBRIONINAE** Latreille, 1802**Alphitobiini** Reitter, 1917*Alphitobius* Stephens, 1829*diaperinus* (Panzer, 1796)*laevigatus* (Fabricius, 1781)*Diaclina* Jacquelin du Val, 1861*fagi* (Panzer, 1799)*testudinea* (Piller et Mitterpacher, 1783)**Blaptini** Leach, 1815*Blaps* Fabricius, 1775(*Blaps*) *gibba* Laporte de Castelnau, 1840(*Blaps*) *gigas* (Linnaeus, 1767)(*Blaps*) *lethifera* Marsham, 1802(*Blaps*) *mucronata* Latreille, 1804[(*Blaps*) *nitens* Laporte de Castelnau, 1840]ssp. *mercatii* Canzoneri, 1969 [E]**Bolitophagini** Kirby, 1837*Bolitophagus* Illiger, 1798*interruptus* Illiger, 1800*reticulatus* (Linnaeus, 1767)*Eledona* Latreille, 1796*agricola* (Herbst, 1783)*Eledonoprius* Reitter, 1911*armatus* (Panzer, 1799)*serrifrons* Reitter, 1890**Helopini** Latreille, 1802*Accanthopus* Dejean, 1821= *Enoplopus* Solier, 1848*velikensis* (Piller et Mitterpacher, 1783)= *dentipes* (Rossi, 1790)*Allardius* Ragusa, 1898*oculatus* (Baudi di Selve, 1876) [E]*sardiniensis* (Allard, 1877) [E]*Catomus* Allard, 1876(*Catomus*) *consentaneus* (Küster, 1851)(*Catomus*) *rotundicollis* (Guérin-Méneville, 1825)*Gunarus* Dès Gozis, 1886*parvulus* (Lucas, 1846)*Helops* Fabricius, 1775(*Helops*) *caeruleus* (Linnaeus, 1758)(*Helops*) *rossii* Germar, 1817*Italohelops* Español, 1961*subchalybaeus* (Reitter, 1907) [E]*Nalassus* Mulsant, 1854(*Nalassus*) *aemulus* (Küster, 1850)

- ssp. *calaritanus* Leo, 1985 [E]
 (*Nalassus*) *alpigradus* (Fairmaire, 1883)
 (*Nalassus*) *convexus* (Comolli, 1837)
 (*Nalassus*) *dermestoides* (Illiger, 1798)
 (*Nalassus*) *dryadophilus* (Mulsant, 1854)
 (*Nalassus*) *ecoffeti* (Küster, 1850)
 = *picinus* (Küster, 1850)
 (*Nalassus*) *genei* (Gené, 1839)
 ssp. *melonii* Leo, 1982 [E]
 (*Nalassus*) *pastai* Aliquò, Leo et Lo Cascio,
 2006 [E]
 (*Nalassus*) *planipennis* (Küster, 1850) [E]
 (*Nalassus*) *plebejus* (Küster, 1850)
 (*Helopondrus*) *assimilis* (Küster, 1850)
- Nephodinus* Gebien, 1943
 = *Nephodes* Blanchard, 1845
 (*Nephodinus*) *metallescens* (Küster, 1846)
- Odocnemis* Allard, 1876
 (*Odocnemis*) *clypeatus* (Küster, 1851) [E]
 (*Odocnemis*) *exaratus* (Germar, 1817)
 (*Odocnemis*) *osellai* (Gardini, 1979) [E]
 (*Odocnemis*) *ruffoi* (Canzoneri, 1970) [E]
- Probaticus* Seidlitz, 1896
 (*Helopotrichus*) *gibbithorax* (Gemminge, 1870) [E]
 (*Helopotrichus*) *sphaericollis* (Küster, 1850) [E]
 (*Helopotrichus*) *tomentosus* (Reitter, 1906)
 = *siculus* (Canzoneri, 1960) [E]
 (*Pelorinus*) *anthrax* (Seidlitz, 1896) [E]
 (***Pelorinus***) *cosyrensis* Sparacio, 2007 [E]
 (*Pelorinus*) *ebeninus* (A. Villa et J.B. Villa, 1838)
 ssp. *cassolai* Ardoin, 1973 [E]
- Raiboscelis* Allard, 1876
azureus (Brullé, 1832)
- Stenohelops* Reitter, 1922
 (*Gunarellus*) *carlofortinus* Leo, 1980 [E]
- Stenomax* Allard, 1876
 (*Stenomax*) *aeneus* (Scopoli, 1763)
 (*Asyrmatus*) *foudrasii* (Mulsant, 1854)
 (*Asyrmatus*) *piceus* (J. Sturm, 1826)
- Xanthomus* Mulsant, 1854
pallidus (Curtis, 1830)
 = *ghidinii* Canzoneri, 1959; *residuus* Canzoneri,
 1959
- pellucidus* (Mulsant et Rey, 1856)
grimmi Ferrer et Whitehead, 2002 [E]
- Melanimini** Seidlitz, 1894
- Cheirodes* Gené, 1839
 (*Cheirodes*) *sardous* Gené, 1839
 (*Pseudanemia*) *brevicollis* Wollaston, 1864
- Melanimon* Steven, 1829
tibiale (Fabricius, 1781)
- Opatrini** Brullé, 1832
- Ammobius* Guérin-Méneville, 1844
rufus (Lucas, 1846)
- Clitobius* Mulsant et Rey, 1859
 (*Clitobius*) *ovatus* (Erichson, 1843)
- Dilamus* Jacquelin du Val, 1861
 (*Dilamus*) *planicollis* Fairmaire, 1883
- Gonocephalum* Solier, 1834
 (*Gonocephalum*) *assimile* (Küster, 1849) [E]
 (*Gonocephalum*) *costatum* (Brullé, 1832)
 [(*Gonocephalum*) *granulatum* (Fabricius, 1792)]
 ssp. *meridionale* (Küster, 1849)
 ssp. *nigrum* (Küster, 1849)
 (*Gonocephalum*) *lefranci* (Fairmaire, 1863)
 (*Gonocephalum*) *obscurum* (Küster, 1849)
 (*Gonocephalum*) *perlexum* (Lucas, 1846)
 (*Gonocephalum*) *pygmaeum* (Steven, 1829)
 (*Gonocephalum*) *rusticum* (A.G. Olivier, 1811)
 (*Gonocephalum*) *setulosum* (Faldermann, 1837)
- Opatroides* Brullé, 1832
punctulatus Brullé, 1832
- Opatrum* Fabricius, 1775
 (*Opatrum*) *asperidorsum* Fairmaire, 1878
 (*Opatrum*) *dahli* Küster, 1849 [E]
 (*Opatrum*) *italicum* Reitter, 1904 [E]
 (*Opatrum*) *obesum* A.G. Olivier, 1811
 (*Opatrum*) *sabulosum* (Linnaeus, 1760)
 ssp. *lucifugum* Küster, 1849
 ssp. *sculptum* Rey, 1892
 (*Opatrum*) *sculpturatum* Fairmaire, 1860
 ssp. *capraiense* Razzauti, 1919 [E]
 ssp. *igiliense* Razzauti, 1919 [E]

- ssp. *ilvense* Razzauti, 1919 [E]
 ssp. *urgonense* Razzauti, 1919 [E]
 (*Opatrum*) *verrucosum* Germar, 1817
 (*Colpophorus*) *emarginatum* Lucas, 1846
 (*Colpophorus*) *nivale* (Gené, 1839) [E]
 (*Colpophorus*) *validum* Rottenberg, 1871 [E]
 ssp. *marcuzzii* Canzoneri, 1972 [E]
 ssp. *rottenbergi* Canzoneri, 1972 [E]
 ssp. *schlicki* Gebien, 1906
- Sclerum* Dejean, 1834
armatum (Waltl, 1835)
multistriatum (Forskål, 1775)
- Sinorus* Mulsant et Reveillière, 1860
colliardi (Fairmaire, 1860)
- Palorini** Matthews, 2003
- Palorus* Mulsant, 1854
depressus (Fabricius, 1790)
ratzeburgii (Wissmann, 1848)
subdepressus (Wollaston, 1864)
- Ulomina* Baudi, 1876
carinata Baudi, 1876
- Pedinini** Eschscholtz, 1829
- Allophylax* Bedel, 1906
 (*Allophylax*) *brevicollis* (Baudi, 1876) [E]
 (*Allophylax*) *picipes* (A.G. Olivier, 1811)
 (*Allophylax*) *sardous* (Baudi, 1876) [E]
 (*Phylaximon*) *costatipennis* (Lucas, 1846)
 ssp. *godenigoii* Canzoneri, 1970 [E]
- Bioplanes* Mulsant, 1854
meridionalis Mulsant, 1854
- Colpotus* Mulsant et Rey, 1853
godarti Mulsant et Rey, 1853
strigosus (A. Costa, 1847) [E]
 ssp. *ganglbaueri* D'Amore Fracassi, 1907 [E]
 ssp. *oglasensis* Gardini, 1975 [E]
 ssp. *ragusai* D'Amore Fracassi, 1907 [E]
- Dendarus* Dejean, 1821
 (*Dendarus*) *carinatus* (Mulsant et Rey, 1854)
 (*Dendarus*) *coarcticollis* (Mulsant, 1854)
 = *tristis* sensu Laporte de Castelnau, 1840
 (*Paroderus*) *lugens* (Mulsant et Rey, 1854)
- (*Pandarinus*) *dalmatinus* (Germar, 1824)
 (***Pandarinus***) *peslieri* Soldati, 2012
- Heliopathes* Dejean, 1834
 (*Heliopates*) *avarus* Mulsant et Rey, 1854
 ssp. *donatellae* (Canzoneri, 1970) [E]
 (*Heliopates*) *neptunius* Baudi, 1875 [E]
- Leichenum* Dejean, 1834
pictum (Fabricius, 1801)
pulchellum (Lucas, 1846)
- Pedinus* Latreille, 1796
 (*Pedinus*) *fallax* Mulsant et Rey, 1853
 (*Pedinus*) *femoralis* (Linnaeus, 1767)
 (*Pedinus*) *helopioides* Germar, 1814
 (*Pedinus*) *longulus* Rottenberg, 1871 [E]
 (*Pedinus*) *meridianus* Mulsant et Rey, 1853
 (*Pedinus*) *punctatostriatum* Mulsant et Rey, 1853 [E]
 (*Pedinus*) *sicanus* Canzoneri, 1984 [E]
 (*Pedinus*) *siculus* Seidlitz, 1893 [E]
 (*Pedinulus*) *ragusae* Baudi, 1876
 = *jonicus* Kiesenwetter, 1880
- Phylan* Dejean, 1821
 [(*Phylan*) *abbreviatus* (A.G. Olivier, 1795)]
 ssp. *italicus* (Reitter, 1904) [E]
 (***Phylan***) *poggii* Ferrer, 2013 [E]
- Psammoardoinellus* Leo, 1980
sardiniensis (Ardoin, 1972) [E]
- Scaurini** Billberg, 1820
- Scaurus* Fabricius, 1775
aegyptiacus Solier, 1838
 = *giganteus* Küster, 1848
atratus Fabricius, 1775
striatus Fabricius, 1792
tristis A.G. Olivier, 1795
uncinus (Forster, 1771)
 = *punctatus* Fabricius, 1798)
- Tenebrionini** Latreille, 1802
- Neatus* J.L. Le Conte, 1862
noctivagus (Mulsant et Rey, 1853)
picipes (Herbst, 1797)

Tenebrio Linnaeus, 1758
 (*Tenebrio*) *molitor* Linnaeus, 1758
 (*Tenebrio*) *obscurus* Fabricius, 1792
 (*Tenebrio*) *opacus* Duftschmid, 1812
 (*Tenebrio*) *punctipennis* Seidlitz, 1896

Triboliini Gistel, 1848

Latheticus Waterhouse, 1880
oryzae Waterhouse, 1880

Lyphia Mulsant et Rey, 1859
tetraphylla (Fairmaire, 1856)

Tribolium W. S. Mac Leay, 1825
castaneum (Herbst, 1797)
confusum Jacquelin du Val, 1861
madens (Charpentier, 1825)

Ulomini Dejean, 1821

Uloma Dejean, 1821
culinaris (Linnaeus, 1758)
rufa (Piller et Mitterpacher, 1783)

DIAPERINAE Latreille, 1802

Crypticini Brullé, 1832

Crypticus Latreille, 1817
 (*Crypticus*) *gibbulus* (Quensel, 1806)
 (*Crypticus*) *quisquilius* (Linnaeus, 1760)
 ssp. *aprutianus* Gridelli, 1949 [E]

Lamprocrypticus Español, 1950
alpinus (Comolli, 1837)

Oochrotus Lucas, 1852
unicolor Lucas, 1852
 ssp. *ardoini* Canzoneri, 1961 [E]
 ssp. *moltonii* Canzoneri, 1961 [E]

Pseudoseriscius Español, 1950
griseovestis (Fairmaire, 1879)
helvolus (Küster, 1852)
 ssp. *adriaticus* (Español, 1949)
 [*normandi* (Español, 1949)]
 ssp. *pacificii* Leo, 1982 [E]

[*olivierii* (Desbrochers des Loges, 1881)]
 ssp. *sardiniensis* Leo, 1982 [E]

Diaperini Latreille, 1802

Alphitophagus Stephens, 1832
bifasciatus (Say, 1824)

Diaperis Geoffroy, 1762
boleti (Linnaeus, 1758)

Gnatocerus Thunberg, 1814
 (*Gnatocerus*) *cornutus* (Fabricius, 1798)
 (*Echocerus*) *maxillosus* (Fabricius, 1801)

Neomida Latreille, 1829
haemorroidalis (Fabricius, 1787)

Pentaphyllus Dejean, 1821
chrysomeloides (Rossi, 1792)
testaceus (Hellwig, 1792)

Platydema Laporte de Castelnau et Brullé, 1831
europaea Laporte de Castelnau et Brullé, 1831
violacea (Fabricius, 1790)

Hypophlaeini Billberg, 1820

Corticeus Piller et Mitterpacher, 1783
 (*Corticeus*) *bicolor* (A.G. Olivier, 1790)
 (*Corticeus*) *bicoloroides* (Roubal, 1933)
 (*Corticeus*) *fasciatus* (Fabricius, 1790)
 (*Corticeus*) *fraxini* (Kugelann, 1794)
 (*Corticeus*) *linearis* (Fabricius, 1790)
 (*Corticeus*) *pini* (Panzer, 1799)
 = *leonhardi* (Reitter, 1906)
 (*Corticeus*) *suberis* (Lucas, 1846)
 (*Corticeus*) *unicolor* Piller et Mitterpacher, 1783
 (*Corticeus*) *versipellis* (Baudi, 1876)

Myrmexhixenini Jacquelin du Val, 1858

Myrmexhixenus Chevrolat, 1835
picinus (Aubé, 1850)
subterraneus Chevrolat, 1835
vaporariorum Guérin-Méneville, 1843

Phaleriini Blanchard, 1845

Halammobia Semenov, 1901
pellucida (Herbst, 1799)

- Phaleria* Latreille, 1802
 (*Phaleria*) *acuminata* Küster, 1852
 (*Phaleria*) *bimaculata* (Linnaeus, 1767)
 = *marcuzzii* Aliquò, 1993
 ssp. *adriatica* Rey, 1891
 (*Phaleria*) *insulana* Rey, 1890
 [(*Phaleria*) *provincialis* Fauvel, 1901]
 ssp. *ghidinii* Canzoneri, 1961 [E]
 ssp. *intermedia* Schuster, 1930
 (*Phaleria*) *reveillierei* Mulsant et Rey, 1858
- Phtora* Germar, 1836
 (*Phtora*) *crenata* (Germar, 1836)
- Scaphidemini** Reitter, 1922
- Scaphidema* L. Redtenbacher, 1849
metallica (Fabricius, 1792)
- Trachyscelini** Blanchard, 1845
- Trachyscelis* Latreille, 1809
aphodioides Latreille, 1809
- ALLECULINAE** Laporte de Castelnau, 1840
- Alleculini** Laporte de Castelnau, 1840
- Allecula* Fabricius, 1801
 (*Allecula*) *morio* (Fabricius, 1787)
 (*Allecula*) *rhenana* Bach, 1856
 (*Upinella*) *aterrima* (Rosenhauer, 1847)
- Hymenalia* Mulsant, 1856
rufipes (Fabricius, 1792)
- Hymenophorus* Mulsant, 1851
doublieri Mulsant, 1851
- Prionychus* Solier, 1835
ater (Fabricius, 1775)
fairmairei (Reiche, 1860)
lugens (Küster, 1850)
melanarius (Germar, 1813)
- Gerandryus* Rottenberg, 1873
aetnensis (Rottenberg, 1871)
- Gonodera* Mulsant, 1856
luperus (Herbst, 1783)
metallica (Küster, 1850)
- Isomira* Mulsant, 1856
 (*Isomira*) *anaspiformis* Weise, 1974 [E]
 (*Isomira*) *genistae* (Rottenberg, 1871) [E]
 (*Isomira*) *hypocrita* Mulsant, 1856
 (*Isomira*) *icteropa* (Küster, 1852)
 (*Isomira*) *marcida* Kiesenwetter, 1863
 (*Isomira*) *melanophthalma* (Lucas, 1846)
 = *ferruginea* (Küster, 1850)
 (*Isomira*) *murina* (Linnaeus, 1758)
 = *semiflava* (Küster, 1852)
 (*Isomira*) *ochropus* (Küster, 1850)
 = *parvula* (Rottenberg, 1870)
 (*Isomira*) *parvuloides* Weise, 1974 [E]
 (*Isomira*) *testacea* Seidlitz, 1896
 = *paupercula* (Baudi, 1883)
 (*Isomira*) *umbellatarum* (Kiesenwetter, 1863)
 (*Danielomira*) *scutellaris* (Baudi, 1877) [E]
 (*Heteromira*) *costessii* (Bertolini, 1868)
 (*Heteromira*) *moroi* Hölzel, 1958
- Pseudocistela* Crotch, 1873
ceramboides (Linnaeus, 1758)
- Mycetochara* Berthold, 1827
 (*Mycetochara*) *axillaris* (Paykull, 1799)
 (*Mycetochara*) *flavipes* (Fabricius, 1792)
 (*Ernocharis*) *flavipennis* Reitter, 1908 [E]
 (*Ernocharis*) *humeralis* (Fabricius, 1787)
 (*Ernocharis*) *maura* (Fabricius, 1792)
 = *linearis* (Illiger, 1794)
 (*Ernocharis*) *pygmaea* (L. Redtenbacher, 1874)
 (*Ernocharis*) *quadrifasciata* (Latreille, 1804)
 (*Ernocharis*) *thoracica* (Gredler, 1854)
- Cteniopodini** Solier, 1835
- Cteniopus* Solier, 1835
 (*Cteniopus*) *neapolitanus* Baudi, 1877 [E]
 (*Cteniopus*) *sulphureus* (Linnaeus, 1758)
 (*Rhinobarus*) *sulphuripes* (Germar, 1824)
- Heliotaurus* Mulsant, 1856
 (*Heliotaurus*) *distinctus* (Laporte de Castelnau, 1840)
- Megischia* Solier, 1835
curvipes (Brullé, 1832)
- Megischina* Reitter, 1906
armillata (Brullé, 1832)

Omophlus Dejean, 1834

- (*Euomophlus*) *rugosicollis* (Brullé, 1832)
 (*Odontomophlus*) *dispar* A. Costa, 1847 [E]
 (*Odontomophlus*) *fallaciosus* Rottenberg, 1871 [E]
 (*Odontomophlus*) *flavipennis* Küster, 1849
 (*Odontomophlus*) *infirmus* Kirsch, 1869
 (*Odontomophlus*) *lepturoides* (Fabricius, 1787)
 (*Omophlus*) *longicornis* Bertolini, 1868
 (*Omophlus*) *proteus* Kirsch, 1869
 (*Paromophlus*) *hirtus* Seidlitz, 1896
 (*Paromophlus*) *lividipes* Mulsant, 1856
 (*Paromophlus*) *picipes* (Fabricius, 1792)
 (*Paromophlus*) *pubescens* (Linnaeus, 1758)
 = *betulae* (Herbst, 1783), *rufitarsis* (Leske, 1785)

Podonta Solier, 1835

- italica* Baudi, 1877 [E]
nigrita (Fabricius, 1794)

STENOCHIINAE Kirby, 1837

Cnodalonini Gistel, 1856

Iphthiminius Spilman, 1973

italicus (Truqui, 1857)

Menephilus Mulsant, 1854

cylindricus (Herbst, 1784)

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