

## THE BRUCHINAE (COLEOPTERA, CHRYSOMELIDAE) OF SICILY: RECENT RECORDS AND UPDATED CHECKLIST

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**ABSTRACT.** The Bruchinae (Coleoptera: Chrysomelidae) fauna of Sicily is reviewed, and an annotated checklist is presented, along with the taxa distribution by the island's provinces. In total, 76 species arranged in 8 genera are listed as the seed beetle fauna of Sicily (45 *Bruchidius* spp., 19 *Bruchus* spp., 4 *Serratobruchidius* spp., 3 *Spermophagus* spp., and *Callosobruchus* spp., one *Acanthoscelides* sp., *Paleoacanthoscelides* sp. and *Pseudopachymerina* sp.), which constitutes approximately 19% of the Palearctic Bruchinae fauna. Additionally, the questionable or problematic records from Sicily of seven species are evaluated separately.

### 1. Introduction

Leaf beetles (Coleoptera: Chrysomelidae) are all phytophagous Coleoptera. Even if worldwide some 32,500 species in 2,114 genera of Chrysomelidae have been described (Slipinski, Leschen, and Lawrence 2011), the actual worldwide described number of species likely reaches 45,000 (Jolivet 2015). The subfamily Bruchinae, with about 1,700 known species (Borowiec 1987), is specialized seeds eaters as larvae (mainly bean). This group of beetles has traditionally been treated as a separate family (Bruchidae) (Borowiec 1987). Many phylogenetic studies converged on supporting the group as a chrysomelid subfamily. Also, the current mitogenome data supported the subfamily rank of Bruchinae within Chrysomelidae (Zhang, Song, and Yin 2022).

Bruchinae larvae develop in the pods, within a seed, where pupation often occurs. Some species are pests of stored food, especially peas, lentils and beans. With very few exceptions, the Sicilian species of Bruchinae develop in the seeds of plants of the legume family (Fabaceae). These feeding habits led some species to become cosmopolitan as they have been introduced with food shipments very far from their native distribution areas.

To identify ancient distributional data of Bruchinae species, there are many problems. Before 1995, when the International Commission on Zoological Nomenclature fixed the family name as "Bruchidae" with the type genus as *Bruchus* Linnaeus, 1757 (ICZN 1995), there were many species of Bruchinae erroneously inserted in other families. Moreover, the generic name "*Bruchus*" was used for species currently classified in the genus *Ptinus*

(Ptinidae) or in the Mylabridae, Urodontidae, or Dermestidae beetle families (Borowiec 1987).

Even if the taxonomic problems presented above cause misidentification, several Sicilian Bruchinae have been known since a long time listed only from “Sicily”, without more data, in beetles’ catalogues. The first catalogue of World Bruchinae, published by Pic (1913), recorded only five species from Sicily. The first catalogue of Italian Coleoptera by De Bertolini (1872) cite 48 species from Sicily (38 species expressly from “Sic.” and 15 from “Tutta It.”, understood by the author in the preface as “geographical Italy”, including the islands Sardinia and Sicily). P. Luigioni (1929) and Porta (1934) confirm almost all Bertolini’s data with very few additions.

The checklist of Italian Fauna (as Bruchidae Zampetti 1995a) lists 50 species of Chrysomelidae Bruchinae from Sicily: 31 of *Bruchidius* spp., 15 of *Bruchus* spp., one species each for *Spermophagus* sp., *Acanthoscelides* sp., *Paleoacanthoscelides* sp. and *Callosobruchus* sp. The Catalogue of Palaearctic Chrysomelidae lists four species exclusively from Sicily among the 89 species recorded from Italy (Anton 2010). The online Fauna Europaea checklist (Audisio *et al.* 2015; Zampetti 2017) lists 72 species of Chrysomelidae Bruchinae from Sicily: 43 belongs to the genus *Bruchidius* sp., 19 to *Bruchus* sp., 3 each to *Spermophagus* sp. and *Callosobruchus* sp. and one each to *Zabrotes* sp., *Acanthoscelides* sp., *Paleoacanthoscelides* sp. and *Pseudopachymerina* sp. Detailed data on single Sicilian localities for Bruchinae were recorded in few papers like: Blanchard (1844) which describes seven new species from Sicily, (Rottenberg 1871; Ciofalo 1886; Vitale 1902, 1903; G. Luigioni and Tirelli 1913; Vitale 1921, 1932, 1940; Borowiec 1985; Borowiec and Anton 1993; Zampetti 1995b).

The aim of the present paper is to provide an updated account of the presence and distribution of the Chrysomelidae Bruchinae in Sicily as it has recently been conducted for Chrysomelidae Cassidinae and Cryptocephalini (Baviera and Sassi 2020), Curculionidae Curculioninae (Baviera and Caldara 2020), Histeridae (Baviera and Vienna 2019), Elateridae (Baviera and Platia 2018), Cerambycidae (Baviera *et al.* 2017), Chrysomelidae Alticini (Baviera and Biondi 2015) and Nitidulidae and Kateretidae (Baviera and Audisio 2014).

## 2. Materials and methods

Data came from sampling carried out all over Sicily (see Fig. 1), concentrated on the best-preserved habitats in mountain ranges (Sicani, Madonie, Nebrodi, Peloritani, Erei, Iblei and Mount Etna) and on Sicilian islands. Many listed specimens were collected during research carried out aiming for a better knowledge of the Sicilian Coleoptera (Baviera and Sparacio 2002; Baviera 2007, 2008, 2010; Baviera and Liberti 2010; Baviera and Magnano 2010; Bellò and Baviera 2011; Magrini and Baviera 2011; Toševski *et al.* 2011; Caldara, Casalini, and Baviera 2012; Toševski *et al.* 2014; Baviera 2015; Toševski *et al.* 2015; Baviera and Bellò 2016; Jelínek *et al.* 2016; Solano *et al.* 2016; Bellò, Osella, and Baviera 2017, 2019). Specimens were collected directly on plants or trees by sweeping net, or sifting leaf and soil litter then processed by a Berlese funnel and a Winkler eclector, but also indirectly by the use of pitfall traps, light traps, and window traps. The data obtained were compared and combined with the regional presence available in published records.



FIGURE 1. Map showing administrative provinces of Sicily

The systematics and nomenclature follow the recent Catalogue of Palaearctic Coleoptera (Anton 2010), partially updated (Yus Ramos 2007, 2010a,b, 2013; Yus Ramos and Angelini 2019). Genera and species are listed in alphabetical order within each group. For each species is given nomenclatural combinations and chorotype (according to the categories proposed by Vigna Taglianti *et al.* (1993, 1999) and Biondi, Urbani, and D’Alessandro (2013) for the endemic distribution types). For the records taken from the literature, the source is given after the mentioned locality.

Data on larval host plants were obtained through bibliography (B. Delobel and A. Delobel 2003, 2005, 2007; Yus Ramos 2008; Yus Ramos, Pérez Ortigosa, and Coello García 2008; Yus Ramos and Sáez Bolaño 2008; Yus Ramos and Zuzarte 2008; Yus Ramos and Gavira Romero 2011; Bukejs *et al.* 2012; Yus Ramos and Gavira Romero 2013; Yus Ramos and Lencina Gutiérrez 2014; Yus Ramos and Pérez Onteniente 2015).

For the names of botanic families, we used the last checklist of Sicilian flora (Raimondo, Domina, and Spadaro 2010). As far as the trophic range is concerned, we refer to the terminology used by Biondi (1996), modified as follows: “monophagous” (MON): species with adults feeding on one plant genus; “oligophagous” (OLI): species with adults feeding on two or more plant genera from the same family; and “polyphagous” (POL): species with larvae feeding on many botanical genera not closely related. New records are reported, grouped by Sicilian provinces, with data written on labels pinned under the specimens and standardized as follows: locality (with municipality and province), date, collecting method and habitat, surname and initials of the collector, and collection acronym. The source of records taken from the literature is given as locality or generic regional record. All of the specimens were collected by the author and preserved in the author’s collection. Finally, we built up a chapter with those species to be deleted from the Sicilian fauna due to erroneous identification.

## CHOROTYPE ACRONYMS

- 0.01 COS = Cosmopolitan
- 1.03 WPA = West-Palaearctic
- 1.04 ASE = Asiatic-European
- 1.06 CEM = Central-European-Mediterranean
- 1.07 CAE = Central-Asiatic-European
- 1.08 CAM = Central-Asiatic-Mediterranean
- 2.01 EUR = European
- 3.01 MED = Mediterranean
- 3.03 EME = East-Mediterranean
- 3.04 NAF = North African

## ENDEMIC DISTRIBUTION TYPE ACRONYMS

SICI = Sicilian Endemic

## PLANT FAMILY ACRONYMS

- API = Apiaceae
- AST = Asteraceae
- CIS = Cistaceae
- CON = Convolvulaceae
- FAB = Fabaceae
- SCR = Scrophulariaceae
- UNK = Unknown

## 3. Results

*List of species*

## SUBFAMILY BRUCHINAE LATREILLE, 1802

### Tribe Amblycerini Bridwell, 1932

Subtribe Spermophagina Borowiec, 1987

Genus **Spermophagus** Schoenherr, 1833

*Spermophagus calystegiae* (Lukjanovitch & Ter-Minassian, 1957)

Chorotype – WPA

Host Plants – CON (*Calystegia sepium*, *C. soldanella*, *Convolvulus althaeoides*, *C. arvensis*, *C. meoanthus*, *C. siculus*, *C. tricolor*)

Trophic category - OLI

New records – **Messina** Torre Faro. Contr. Granatari, 28.IV.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.V.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.VI.2010, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 30.X.2009, Baviera C. Leg.; ditto, 17.X.2002, Baviera C. Leg.; ditto, 02.VI.2004, Baviera C. Leg.; ditto, 05.V.2004, Baviera C. Leg.; ditto, 06.X.2008, Baviera C. Leg.; ditto, 17.X.1998, Baviera C. Leg.; ditto, 08.I.2011, Baviera C. Leg.; Monti Peloritani, Colli San Rizzo, 700m a.s.l., 23.VIII.1997, Baviera C. Leg.; Monti Peloritani, Musolino, 800m a.s.l., 28.IV.2001, Baviera C. Leg.; Monti Peloritani, Portella Croce Cumia, 700m a.s.l., 30.IX.2010, Baviera C. Leg.; Milazzo, Capo, 01-02.V.2000, Baviera C. Leg.; Marinello, Laghetti di Oliveri, 10.X.2007, Baviera C. Leg.; Aeolian Islands, Filicudi Island, 01.IX.2006, Baviera C. Leg.; Salina Island, 10-12.V.2007, Baviera C. Leg.; **Trapani**: Egadi Islands; Levanzo Island, 23.IV.2007, Baviera C. Leg.

**Notes.** This species was recorded from Sicily only from “Fiume Nicoto” (River of Noto?) (Borowiec and Anton 1993), Messina (Baviera and Sparacio 2002), and from Lipari in Aeolian Island (Lo Cascio *et al.* 2006). Newly recorded from Salina and Filicudi Islands in Aeolian and from Egadi (Levanzo).

*Spermophagus kuesteri* (Schilsky, 1905)

Chorotype – WPA

Host Plants – CON (*Convolvulus althaeoides*, *C. arvensis*, *C. cantabrica*, *C. tricolor*)

Trophic category - MON

**Notes.** This species was firstly recorded from Sicily by Vitale (1932).

*Spermophagus sericeus* (Geoffroy, 1785)

Chorotype – WPA

Host Plants – CON (*Convolvulus arvensis*, *C. pseudocantabricus*)

Trophic category - MON

New records – **Messina**: Torre Faro. Contr. Granatari, 28.IV.2010, Baviera C. Leg.; ditto, 21.VI.1998, Baviera C. Leg.; Mortelle, Lido Spiaggia d’oro, 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 17.X.2002, Baviera C. Leg.; Marinello, Laghetti di Oliveri, 10.X.2007, Baviera C. Leg.; **Catania**: Calatabiano, San Marco, Alcantara River mouth, 19.V.2010, Baviera C. Leg.; **Enna**: Piazza Armerina, sifting *Quercus* sp., 19.III.2010, Bellò C. Leg.; **Palermo**: Bisoquino, 535m a.s.l., 25.XI.2009, Baviera C. Leg.; Madonie, Portella Colla, 1450m a.s.l., 03.VI.2000, Baviera C. Leg.; Monti Sicani, Portella della Ginestra, 800m a.s.l., 24.IV.2008, sifting, Baviera C. and Bellò C. Leg.; **Trapani**: Egadi Islands, Favignana Island, 19.IV.2007, Baviera C. Leg.

**Notes.** A species recorded from Gibilmanna (Lundberg, Palm, and Trottestam 1987), Pantelleria (Zampetti 1995b) and Lipari and Salina in Aeolian Island (Lo Cascio *et al.* 2006; Lo Cascio, Altadonna, and Ponel 2022). Newly recorded from Egadi (Favignana).

**Tribe Bruchini Latreille, 1802**

Subtribe Acanthoscelidina Bridwell, 1946

Genus **Acanthoscelides** Schilsky, 1905

*Acanthoscelides obtectus* (Say, 1831)

Chorotype – COS (Originating from the New World)

Host Plants – FAB (*Cicer arietinum*, *Phaseolus coccineus*, *P. vulgaris*, *Vicia faba*)

Trophic category - OLI

**Notes.** This common species in Sicily was firstly recorded by Vitale (1921).

Subtribe Bruchina Latreille, 1802

Genus **Bruchidius** Schilsky, 1905

*Bruchidius albolineatus* (Blanchard, 1844)

Chorotype – CEM

Host Plants – FAB (*Edysarum fexuosum*)

Trophic category - MON

New records – **Messina** Torre Faro. Contr. Granatari, light trap, 18-22.V.2000, Baviera C. Leg.;

Trapani: R.N.O. “Zingaro”, 19-21. V.2003, Baviera C. Leg.

**Notes.** This species, described as *Bruchus albolineatus* from Messina (Lectotype by A. Delobel (2004)) and Milazzo (Paralectotype by A. Delobel (2004)) was recorded also from Palermo (as *Bruchus gracilis* Blanchard, 1844) Blanchard (1844). Recently recorded from Aeolian Islands in Lipari (Lo Cascio, Altadonna, and Ponel 2022).

*Bruchidius algericus* (Allard, 1883)

Chorotype – NAF

Host Plants – FAB (*Lens culinaris*, *Vicia faba*)

Trophic category - OLI

**Notes.** A species recorded from Spain, Portugal, and the biggest Mediterranean Islands (Ricci and Zampetti 2005). Firstly recorded from Italy and Sicily (Agrigento) by Borowiec (1985). Anton (2010) considered this species to be synonymous of *Bruchidius incarnatus* (Kraatz) without consider the differentiation of both species proposed by De Luca (1960) as reported by Yus Ramos (2010b).

*Bruchidius annulicornis* (Allard, 1868)

Chorotype – ASE

Host Plants – FAB (*Trifolium cherleri*)

Trophic category – MON

**Notes.** This species, firstly recorded from Sicily from Palermo (Gibilmanna, Baviera and Sparacio (2002)) is recorded from Italy only from Calabria and Sicily (Zampetti 2017). Not recorded from Italy by Anton (2010).

*Bruchidius biguttatus* (Olivier, 1795)

Chorotype – CEM

Host Plants – CIS (*Cistus albidus*, *C. creticus*, *C. halimifolius*, *C. ladanifer*, *C. monspeliensis*, *C. salviiifolius*)

Trophic category – MON

New records – **Messina:** Peloritani Mountains, Massa San Giovanni, 23.VIII.1997, Baviera C. Leg.; Monte Antennammare. 1133m a.s.l., 16.V.2007, Baviera C. Leg.; Campo Italia, 476m a.s.l., on *Cistus crispus* 21.IV.2010, Baviera C. Leg.; Aeolian Islands, Vulcano Island, Piano 300m a.s.l., 24-29.VII.2001, Baviera C. Leg.

**Notes.** This species is recorded from Pantelleria (Zampetti 1995b) and Lipari Island (Lo Cascio *et al.* 2006), newly recorded from Vulcano Island.

*Bruchidius bimaculatus* (Olivier, 1795)

Chorotype – CEM (imported in Oriental Region)

Host Plants – FAB (*Astragalus nitidiflorus*, *Medicago arabica*, *M. doliata*, *M. intertexta* subsp. *ciliaris*, *M. littoralis*, *M. marina*, *M. minima*, *M. muricoleptis*, *M. orbicularis*, *M. polymorpha*, *M. praecox*, *M. radiata*, *M. rigidula*, *M. sativa*, *M. scutellata*, *M. tornata*, *M. truncatula*, *Trigonella esculenta*)

Trophic category – OLI

New records – **Messina:** Torre Faro. Contr. Granatari, 14.IV.1998, Baviera C. Leg.; ditto, 25.VII.1999, Baviera C. Leg.; Camaro Superiore, 24.IV.2000, Baviera C. Leg.; Peloritani Mountains, Portella San Rizzo, 467m a.s.l., 27.IV.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.IV.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 29.III.2010, Baviera C. Leg.; ditto, 19.V.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.IV.2010, Baviera C. Leg.; Nebrodi Mount. Floresta, Sorgente San Giacomo, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.; San Fratello, 1300m a.s.l., 25.VI.2001, Baviera C. Leg.; Aeolian Islands, Salina Island, 10-12.V.2007, Baviera C. Leg.; Stromboli Island, 07-09.IV.2006, Baviera C. Leg.; **Catania:** Calatabiano, San Marco, Alcantara River mouth, 19.IV.2010, Baviera C. Leg.; ditto, 19.V.2010, Baviera C. Leg.; **Palermo:** Sicani Mountains, Ficuzza Wood, Alpe Cucco, 1020m a.s.l., 29.V.2007, Baviera C. Leg.; **Trapani:** Egadi Islands, Favignana Island, 19.IV.2007, Baviera C. Leg.; ditto, 23.V.1965, Romano M. Leg.; R.N.O. “Zingaro”, 26-29.III.2003, Baviera C. Leg.; Alcamo, Pizzo Montelongo, 300m a.s.l., 10.III.2009, Baviera C. Leg. sifting *Olea*.

**Notes.** This species in Sicily, was recorded (sub *Bruchus variegatus* Germar, 1824) from Syracuse by Rottenberg (1871), and recently from Palermo (Ficuzza, Madonie), Messina (Taormina), and Egadi Islands (Favignana Island) (Borowiec and Anton 1993) and from

Lampedusa Island (Zampetti 1995b). Also recorded from Lipari, Vulcano and Salina Islands in Aeolian Islands (Lo Cascio *et al.* 2006; Lo Cascio, Altadonna, and Ponel 2022), new record from Stromboli Island.

*Bruchidius bituberculatus* Schilsky, 1905

Chorotype – CEM

Host Plants – FAB (*Hymenocarpos circinnatus*)

Trophic category - MON

**Notes.** A species known in Italy only from Sicily and Calabria (Zampetti and Ricci 2012). Recorded from Sicily from Messina and Syracuse (Pachino) (Borowiec and Anton 1993). Not recorded for Italy by Anton (2010).

*Bruchidius borowieci* Anton, 1998

Chorotype – CEM

Trophic category – OLI

Host plant – FAB (*Coronilla juncea*, *C. scorpioides*, *C. valentina* subsp. *glauca*, *Ononis spinosa*)

**Note.** This species, in Italy, recorded only from Sicily, from “Pacchino” [Pachino] Siracusa, (Anton 1998).

*Bruchidius calabrensis* Blanchard, 1844 (= *B. varipictus* Motschulsky, 1874; = *B. stylophorus* (K. Daniel, 1904))

Chorotype – CEM

Host Plants – FAB (*Medicago murex*, *M. turbinata*)

Trophic category - MON

New records – **Messina:** Mortelle, Lido Spiaggia d’oro, 28.IV.2010, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Peloritani Mountains, Portella San Rizzo, 467m a.s.l., 27.IV.2010, Baviera C. Leg.; Salice, 07.IV.2004, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.IV.2010, Baviera C. Leg.; **Palermo:** Sicani Mountains, Ficuzza Wood, 11.IV.1967, Romano M. Leg.; Madonie Mountains, Piano Battaglietta, 1800m a.s.l., 23.VI.2007, Baviera C. Leg. sifting *Acer*; **Syracuse:** Augusta, 08.VII.1997, I.S.A. Leg.

**Notes.** This species was recorded from Sicily only from Palermo (Madonie: Cefalù and Gibilmanna; Sicani: Godrano) (sub *B. varipictus* by Borowiec and Anton (1993). Recorded from Sicily in Italian and European checklists (sub *B. stylophorus* by Zampetti (1995a, 2017).

*Bruchidius caninus* (Kraatz, 1869)

Chorotype – CEM

Host Plants – FAB (*Astragalus boeticus*, *A. echinatus*, *A. hamosus*, *A. scorpioides*, *A. sesameus*)



Trophic category - MON

**Notes.** This species, in Sicily, was recorded from Messina (Taormina by Borowiec and Anton (1993)).

*Bruchidius cinerascens* (Gyllenhal, 1833)

Chorotype – CEM

Host Plants – API (*Eryngium campestre*, *E. maritimum*, *E. triquetrum*)

Trophic category - MON

New records – **Messina:** Mortelle, Lido, 19.VI.2002 Baviera C. Leg.

**Notes.** This species was recorded from Sicily since Pic (1913) catalogue and confirmed in Italian and European checklists (Zampetti 1995a, 2017). Recorded from Messina (Blanchard 1844) and recently from Salina Island in Aeolian Archipelago (Lo Cascio, Altadonna, and Ponel 2022).

*Bruchidius cisti* (Fabricius, 1775)

Chorotype – EUR

Host Plants – FAB (*Genista corsica*, *G. cinerea*, *Cytisus scoparius*, *Coronilla juncea*, *Helianthemum aegyptiacum*, *H. grandiflorum*, *Hippocrepis emerus*, *Lotus corniculatus*, *Onobrychis viciifolia*)

Trophic category - POL

New records – **Messina:** Monti Peloritani, Monte Antennammare. 1133m a.s.l., 05.VII.1999, Baviera C. Leg.; ditto, 27.VI.1997; ditto, 16.V.2007, Baviera C. Leg.; Mandanici, 560m a.s.l., sifting *Olea*, 19.XII.2013, Baviera C. Leg.; Campo Italia, 21.IV.2010 on *Cistus crispus*, Baviera C. Leg.; **Palermo:** Piano Zucchi, 03.VI.2000, Baviera C. Leg.; Antillo, 500m a.s.l., 29.V.2010, Baviera C. Leg.

**Notes.** A species wide distributed in Italy (Borowiec and Anton 1993; Zampetti and Ricci 2012). Recorded from Messina (sub *B. canus* (Germar, 1824) by Blanchard (1844) and Borowiec and Anton (1993). *B. canus*, as a synonym of *B. cisti* by Anton (2010), was recorded from Italy but not from Sicily in Italian checklist (Zampetti 1995a).

*Bruchidius dispar* (Gyllenhal, 1833)

Chorotype – CEM

Host Plants – FAB (*Trifolium angustifolium*, *T. bocconei*, *T. ochroleucon*, *T. pratense*, *T. striatum*, *T. trichopterum*)

Trophic category - MON

New records – **Messina:** Torre Faro, Contr. Granatari, 07.IV.1998, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.IV.2010, Baviera C. Leg.

**Notes.** This species, recorded from Sicily since the catalogue of Pic (1913), was confirmed in Italian and European checklists (Zampetti 1995a, 2017). In Sicily it was recorded from Syracuse by Rottenberg (1871), and Lipari Island in Aeolian (Lo Cascio, Altadonna, and Ponel 2022).

*Bruchidius foveolatus* (Gyllenhal, 1833)

Chorotype – CEM

Host Plants – FAB (*Cytisus scoparius*; *C. aeolicus*; *Genista fasselata*; *Spartium junceum*)

Trophic category - OLI

New records – **Messina**: Monti Peloritani, Musolino, 800m a.s.l., 28.IV.2001, Baviera C. Leg.; Campo Italia, 476m a.s.l., 21.IV.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.IV.2010; Portella Armacera, 620m a.s.l., 06.I.2010, sifting *Quercus*, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Rometta, Gimello, San Leone, 29.IV.2000, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 16.V.2007; ditto, 27.IV.2010, Baviera C. Leg.; ditto, 27.VII.1999, Baviera C. Leg.; Montalbano Elicona, Malabotta Wood, 1200m a.s.l., sifting, 12.XI.2005, Baviera C.; ditto, 25.VII.2006, Baviera C. Leg.; ditto, 23.VI.2006, Baviera C. Leg.; Mojo Alcantara, 26.V.2009, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C.; San Pier Niceto, Li Pantani, 700m a.s.l., 04.IV.2010, Baviera C. Leg.; San Saba, Capo Rasocolmo, 26.IV.2010, Baviera C. Leg.; Milazzo, Capo, 28.II.2010, sifting *Olea*, Baviera C. Leg.; Mortelle, Lido Spiaggia d'oro, 28.IV.2010, Baviera C. Leg.; Aeolian Islands, Vulcano Island, 09-10.V.2007, Baviera C. Leg.; Aeolian Islands, Vulcano Island, Piano 300m a.s.l., 24-29.VII.2001, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.V.2010; Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C.; Biviere di Cesarò Lake, 1274m a.s.l., 09.IX.2005, Baviera C. Leg.; San Fratello, 1300m a.s.l., 28.XI.2009, Baviera C. and Bellò C. Leg.; **Catania**: Calatabiano, San Marco, Alcantara River mouth, 19.V.2010, Baviera C. Leg.; Castiglione di Sicilia, Alcantara River, Cuba Bizantina, 29.III.2010, Baviera C. Leg.; ditto, 19.V.2010, Baviera C. Leg.; ditto, 11.III.2011; Etna Mount, Linguaglossa, 900m a.s.l., 11.V.2003, Baviera C. Leg.; ditto, 22.IV.2000, Baviera C. Leg.; **Siracusa**: Ilei Mountains, Sortino, 255m a.s.l., 14.IV.2010, sifting *Olea*, Baviera C. Leg.; **Agrigento**: Bisaquino 3, 570m a.s.l., 04.IV.2011, Baviera C. and Bellò C. Leg.; Monte Genuardo, 28.V.2007, Baviera C. and Bellò C. Leg.; **Palermo**: Capaci, 14.XI.1980, Romano M. Leg.; Monte Pellegrino, 435m a.s.l., sifting *Olea* and *Eucaliptus*, 28.XI.2009, Baviera C. Leg.; ditto, sifting, 29.II.2009, Baviera C. and Bellò C. Leg.; Madonie, Case La Liccia, sifting *Quercus*, 30.V.2007, Baviera C. and Bellò C. Leg.; Piano Zucchi, 03.VI.2000, Baviera C. Leg.; ditto, 16.V.2008, Baviera C. and Rando A. Leg.; Portella Colla, 03.VI.2000, Baviera C. Leg.; Sicani Mountains, Piana degli Albanesi, 600m a.s.l., 05.I.2007, Baviera C.; Godrano, Gorgo del Drago, 700m 16.IV.2010, Baviera C. and Bellò C. Leg.; Palazzo Adriano, Casale Borgia, 950m a.s.l., sifting *Olea*, 22.XII.2013, Baviera C. and Bellò C. Leg.; **Trapani**: R.N.O. "Zingaro", 26-29. III.2003, Baviera C. Leg.; Monte Sparagio, 550m a.s.l., sifting *Olea*, 16.V.2008, Baviera C. and Bellò C. Leg.; Egadi Islands; Levanzo Island, 23.IV.2007, Baviera C. Leg.

**Notes.** Probably the commonest *Bruchidius* sp. in the Mediterranean Region. This species was firstly recorded from Sicily (Messina) sub *Bruchus grandicornis*, *B. oblongus* and *B. ovalis* described from Messina, and sub *B. costatus* and *B. concolor* described from Castellammare (Trapani ?) by Blanchard (1844) and A. Delobel (2004). After recorded by Vitale (1932), from Palermo province (Sicani: Ficuzza, Godrano, Partinico; Madonie: Gibilmanna; Palermo Mountains: M. Cuccio), Messina (Messina and Taormina) (sub *Bruchus grandicornis* Borowiec and Anton, 1993). Recorded also from Pantelleria (Liebmann 1962; Zampetti 1995a), Lipari, Vulcano and Alicudi Islands in Aeolian Islands (Lo Cascio *et al.* 2006; Lo Cascio, Altadonna, and Ponel 2022). New record from Egadi Islands (Levanzo).

*Bruchidius fulvicornis* (Motschulsky, 1874)

Chorotype – EUR

Host Plants – FAB (*Trifolium vesiculosum*)  
Trophic category - MON

**Notes.** A species firstly recorded from Sicily (sub *B. varius* v. *fulvicornis*) by Vitale (1921). This European species (Yus Ramos 2010b), synonymized, since a long time, with *B. varius*, was restabilized as good species by Borowiec (1983). Recorded from Italy as “incerte sedis” by Anton (2010), it wasn’t recorded in Italian and European Bruchidae checklists (Zampetti 1995a, 2017).

*Bruchidius holosericeus* (Gyllenhal, 1833)  
Chorotype – CAE  
Host Plants – FAB (*Lathyrus latifolius*)  
Trophic category - MON

**Notes.** A species known in Italy only from Veneto and Sicily (Zampetti and Ricci 2012; Zampetti 2017), not recorded from Sicily in Italian checklist (Zampetti 1995a).

*Bruchidius imbricornis* (Panzer, 1795)  
Chorotype – CEM  
Host Plants – FAB (*Galega officinalis*, *Genista officinalis*, *G. cinerea*, *G. liniifolia*, *Hedysarum coronarium*)  
Trophic category - OLI

**Notes.** This species was recorded from Sicily in Italian and European checklists (Zampetti 1995a, 2017).

*Bruchidius incarnatus* (Bohemann, 1833)  
Chorotype – NAF  
Host Plants – FAB (*Pisum sativum*)  
Trophic category - MON

**Notes.** In Italy this species was recorded only from Sicily (Borowiec and Anton 1993; Anton 2010; Zampetti 2017).

*Bruchidius lineatus* (Allard, 1868)  
Chorotype – CEM  
Host Plants – FAB (*Lathyrus aphaca*)  
Trophic category - MON

**Notes.** A very rare species, recorded from Sicily in Italian and European checklists (Zampetti 1995a, 2017).

*Bruchidius lividimanus* (Gyllenhal, 1833)

Chorotype – WPA

Host Plants – FAB (*Adenocarpus* spp., *Argyrocytismus battandieri*, *Calicotome infesta*, *C. spinosa*, *C. villosa*; *Cytisophyllum sessilifolium*; *Cytisus arboreus*, *C. austriacus*, *C. baeticus*, *C. balansae*, *C. grandiflorus*, *C. hirsutus*, *C. multiflorus*, *C. proliferus*, *C. scoparius*, *C. striatus*, *C. villosus*; *Genista anglica*, *G. ferox*, *G. linifolia*, *G. maderensis*, *G. monspessulana*, *Spartium junceum*, *Ulex europaeus*)

Trophic category - POL

New records – **Messina**: Città, SS. Annunziata, 11.III.2000, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Campo Italia, 476m a.s.l., 21.IV.2010, on *Cistus crispus*, Baviera C. Leg.; Peloritani Mountains, Monte Antennammare, 1133m a.s.l., 02.VI.2004, Baviera C. Leg.; Peloritani Mountains, Portella San Rizzo, 467m a.s.l., 05.IV.1998, Baviera C. Leg.; Peloritani Mountains, Massa San Giovanni, 05.IV.1998, Baviera C.; Mortelle, Canale Inglesi pit-fall trap on seashore, 28.IV.2010, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C.; Nebrodi Mount, Biviere di Cesarò Lake, 1274m a.s.l., 02.VII.2005, Baviera C. Leg.; **Catania**: Etna Mount, Passopisciaro, Via Guardiola, on *Inula* sp. and *Linaria* sp., 30.IV.2016, Baviera C. Leg.; **Siracusa**: Augusta, on *Citrus*, 05.VIII:1997, Leg. ISA; Portopalo di Capo Passero, Isola delle Correnti, 02.XI.2010, Baviera C. Leg.; **Trapani**: Custonaci, Purgatorio, 273m a.s.l., sifting *Olea*, 29.I.2011, Baviera C. and Bellò C. Leg.

**Notes.** A species recorded from Messina by two synonyms described (Blanchard 1844) (*Bruchus laticornis*, from Torre dell'Isola (Messina ? as *Bruchus obsoletus*) and from Castellammare (Trapani ?) by one other synonym, *Bruchus latus* also described by Blanchard (1844). After, recorded from Palermo (Monte Pellegrino, Partinico: Monte Sagana), Trapani (Monte Cofano) (Borowiec and Anton 1993), and Lipari and Vulcano Islands in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Also recorded form Pantelleria (sub *Bruchidius livimanus* ab. *velaris* by Liebmann (1962)).

*Bruchidius longulus* Schilsky, 1905

Chorotype – CEM

Host Plants – FAB (*Astragalus monspessulanum*, *Trigonella grandiflora*)

Trophic category - OLI

**Notes.** A species recorded from Sicily also by Fiori (1906).

*Bruchidius lutescens* (Blanchard, 1844)

Chorotype – CAE

Host Plants – FAB (*Hedysarum coronarium*, *H. spinosissimum*, *Onobrychis caput-galli*, *O. viciifolium*)

Trophic category - OLI

**Notes.** This species described from Messina, recently confirmed (A. Delobel 2004).

*Bruchidius marginalis* (Fabricius, 1775)

Chorotype – EUR

Host Plants – FAB (*Astragalus glycyphyllos*, *A. hamosus*, *A. monspessulanus*, *A. tragacantha*, *A.*

*vesicarius*, *Oxytropis pilosa*, *uralensis*, *Securigera varia*)

Trophic category - OLI

**Notes.** This species was recorded from Sicily in European (Zampetti 2017) but not in Italian checklist (Zampetti 1995a).

*Bruchidius martinezi* (Allard, 1868)

Chorotype – MED

Host Plants – FAB (*Trifolium augustifolium*, *T. bocconei*, *T. repens*, *T. fragiferum*)

Trophic category - MON

**Notes.** A species recorded from Sicily since Pic (1913) catalogue and after confirmed in Italian and European checklists (Zampetti 1995a, 2017).

*Bruchidius misellus* (Boheman, 1833)

Chorotype – MED

Host Plants – UNK

Trophic category - UNK

**Notes.** A species known from Italy only from Veneto and Sicily (Zampetti and Ricci 2012).

*Bruchidius mulsanti* (Brisout, 1863)

Chorotype – CAE

Host Plants – FAB (*Trifolium subterraneum*)

Trophic category - MON

New records – **Messina:** Monti Peloritani, Musolino, 800m a.s.l., 04.VI.2000, Baviera C. Leg.; Antillo, 500m a.s.l., 29.V.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 17.X.2002, Baviera C. Leg.; **Palermo:** Sicani Mount, Ficuzza, Alpe Cucco, 25.V.2007, Baviera C. Leg.

**Notes.** A species, until now, recorded from Sicily from Palermo (Sicani, Godrano) (Borowiec and Anton 1993).

*Bruchidius murinus* (Boheman, 1829)

Chorotype – CEM

Host Plants – FAB (*Medicago intertexa*, *M. sativa*, *Trifolium subterraneum*, *T. pratense*, *Vicia ervilia*, *V. faba*)

Trophic category - OLI

New records – **Messina:** Torre Faro. Contr. Granatari, light trap, 25-30.VI.2008, Baviera C. Leg.; Città, SS. Annunziata, 03.V.2000, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; ditto, 23.III.2010, Baviera C. Leg.; Falcone, 400m a.s.l., 04.V.2013, Baviera C.; Monti Peloritani, Musolino, 800m a.s.l., 27.XII.1998, Baviera C. Leg.; Monte Scuderi, 1100m a.s.l., sifting, 29.IX.2005, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 06.X.2008; ditto, 17.X.2002, Baviera C. Leg.;

ditto, 27.VII.1999, Baviera C. Leg.; ditto, 27.IV.2010, Baviera C. Leg.; ditto, 05.VII.1999, Baviera C. Leg.; ditto, 27.VI.1997, Baviera C. Leg.; ditto, 09.IV.2002, Baviera C. Leg.; ditto, 16.V.2007; ditto, 05.V.2009, Baviera C. Leg.; Salice, 07.IV.2004; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 24.IV.2006, Baviera C.; ditto, 08.VIII.2007, Baviera C. Leg.; ditto, 22.VIII.2007; ditto, 14.V.2005; ditto, 16.IV.2005; ditto, 25.VII.2006, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.IV.2010; ditto, 19.V.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.IV.2010; Rometta, Gimello, San Leone, 29.IV.2000; Nebrodi Mountains, Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C.; San Fratello, 1300m a.s.l., 17.V.2002; ditto, 20.V.2000, Baviera C. Leg.; ditto, 03.VII.1999, Baviera C. Leg.; Biviere di Cesarò Lake, 1274m a.s.l., 11.IV.2002, Baviera C. Leg.; ditto, 09.IX.2005, Baviera C. Leg.; ditto, 02.VII.2005, Baviera C. Leg.; ditto, 03.VII.1999; ditto, 20.V.2000; ditto, 01.VIII.1998, Baviera C. Leg.; Floresta, 16.VIII.2000; Floresta, Monte Pojumoru, 1400m a.s.l., 14.VIII.1998, Baviera C. Leg.; Nebrodi Mountains: Soro Mount, 1800m a.s.l. 11.VIII.1998, Baviera C.; ditto, 08.VIII.2001, Baviera C. Leg.; ditto, 07.V.2013, Baviera C. Leg.; ditto, 20.V.2000; Sella Tre Arie, 1400m a.s.l., 03.VII.2009, Baviera C. Leg.; Portella Moulazzo, 1400m a.s.l., 08.VIII.2001, Baviera C. Leg.; ditto, 23.VI.2001, Baviera C. Leg.; Aeolian Islands, Vulcano Island, 09-10.V.2007, Baviera C. Leg.; ditto, Loc. Piano, 300m a.s.l., 24-29.VII.2001, Baviera C. Leg.; **Catania**: Etna Mount, Passopisciaro, Via Guardiola, on *Inula* sp. and *Linaria* sp., 30.IV.2016, Baviera C. Leg.; Etna Mount, North slope, 1500m a.s.l., 23.VI.2001, Baviera C. Leg.; Etna Mount, North slope, Piano Provenzana, 1900m a.s.l., 09.VIII.1998, Baviera C. Leg.; Etna Mount, Milo, 1100m a.s.l., sifting *Hedera* and *Quercus*, 06.IV.2013, Baviera C. Leg.; Adrano Osservatorio, 1400m a.s.l., 12.VI.2011, Baviera C. Leg.; **Palermo**: Madonie Mountains, Piano Zucchi, 03.VI.2000, Baviera C. Leg.; ditto, 19.VII.2006, Baviera C. Leg.; Piano Pomieri, 1450m a.s.l., windows trap, 03.VIII.2013, Baviera C. Leg.; Sicani Mount, Ficuzza, 800m a.s.l., 20.VI.2001; **Trapani**: R.N.O. "Zingaro", 23-24. IV.2003, Baviera C. Leg.; ditto, 23-25.VI.2003, Baviera C. Leg.; Saline di Trapani e Paceco, Salina Vecchia, 28.IV.2004; Egadi Islands; Levanzo Island, 23.IV.2007, Baviera C. Leg.; ditto, 05.XI.2010, Bellò C. Leg.; Marettimo Island, 22.X.2006, Baviera C. Leg.

**Notes.** A species recorded (sub *Bruchus murinus* Boh.) from Sicily (Syracuse, Catania) by Rottenberg (1871). New record from Aeolian (Vulcano) and Egadi Islands (Levanzo).

#### *Bruchidius nanus* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Medicago orbicularis*, *M. arabica*, *M. polymorpha*)

Trophic category - MON

New records – **Messina**: Torre Faro, Contr. Granatari, 03-20.VIII.2001, Baviera C. Leg.; Peloritani, Montalbano Elicona, Malabotta Wood, 1300m a.s.l., at light, 08.VIII.2007, Baviera C. Leg.; Monti Peloritani, Musolino, 800m a.s.l., 08.VIII.1998, Baviera C. Leg.; Rometta, Gimello, San Leone, 09.VIII.1998, Baviera C. Leg.; Nebrodi, Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.

**Notes.** Recorded from Sicily (sub *Mylabris nana*) from Noto (Assenza 1892), Catania (sub *Bruchus nanus* Bris.) by Rottenberg (1871), and recently from Palermo (Madonie, Collesano) and Messina (Borowiec and Anton 1993).

#### *Bruchidius nudus* (Allard, 1868)

Chorotype – MED

Host Plants – FAB (*Cytisus hirsutus*, *C. aeolicus*)

Trophic category - OLI

New records – **Messina**: Monti Peloritani, Monte Antennammare. 1133m a.s.l., 05.VII.1999, Baviera C. Leg.; ditto, 27.VI.1997, Baviera C. Leg.; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 22.VIII.2007, Baviera C. Leg.; Monte Scuderi, Torrente Lampiello, 600m a.s.l., 14.IV.2004, Baviera C. Leg.; Nebrodi Mount. Floresta, 1100m a.s.l., 13.VIII.2002, Baviera C. Leg.; **Palermo**: Ficuzza Wood, Rocca Busambra, on *Quercus*, 900m a.s.l., 15.V.1977, Romano M. Leg.

**Notes.** This species, anciently recorded from Sicily (Allard 1868), is also recorded from Pantelleria Island (Zampetti 1995b), Vulcano, Stromboli and Alicudi Islands in Aeolian Archipelago (Lo Cascio 2004; Lo Cascio *et al.* 2006).

*Bruchidius obscuripes* (Gyllenhal, 1839)

Chorotype – CEM

Trophic category – MON

Host plant – SCR (*Veronica orientalis*)

**Note.** Recorded from Sicily in Italian and European checklists (Zampetti 1995a, 2017).

*Bruchidius olivaceus* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Onobrychis aequidentata*, *O. vaginalis*, *O. transcaucasica*, *O. antasica*, *O. viciifolia*)

Trophic category - MON

**Notes.** Recorded from Sicily in the European checklist (Zampetti 2017), but not in the Italian checklist (Zampetti 1995a).

*Bruchidius pauper* (Boheman, 1829)

Chorotype – CAM Host Plants – FAB (*Anthyllis vulneraria*, *Coronilla coronata*, *C. scorpioides*, *C. juncea*, *C. repanda*, *Ornithopus compressus*, *O. pinnatus*)

Trophic category - OLI

**Notes.** This species was firstly recorded from Sicily (as *B. pauper* v. *corsicus*) from Messina (Castanea) by Vitale (1921), recently recorded from Lipari Island in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Specimens of this species from Messina collected by Blanchard (1844) was recently confirmed by A. Delobel (2004).

*Bruchidius picipes* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Lotus corniculatus*, *Trifolium augustifolium*, *T. incarnatum*, *T. obscurum*, *T. ochroleucum*, *T. striatum*)

Trophic category - OLI

New records – **Messina**: Monti Peloritani, Monte Antennammare 1133m a.s.l., 05.VII.1999, Baviera C. Leg.; Nebrodi Mountains, San Fratello, 1200m a.s.l., 26.V.2004, Baviera C. Leg.; Biviere di Cesarò

Lake, 1274m a.s.l., 11.IV-19.VI.2002, pit-fall traps, Baviera C. Leg.; Nebrodi Mount. Floresta, 1100m a.s.l., 21.VII.2010, Baviera C. Leg.

**Notes.** This species was recorded from Sicily since the catalogue of Pic (1913) (sub *Bruchus albopunctatus* Blanchard, 1844) and confirmed from Messina (Borowiec and Anton 1993) (sub *B. albopunctatus*). This species, recorded from Sicily in Italian checklist (Zampetti 1995a), but not in European checklist (Zampetti 2017).

*Bruchidius poecilus* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Astragalus contortuplicatus*, *A. hamosus*, *A. sinaicus*, *A. stella*)

Trophic category - MON

**Notes.** Recorded from Sicily in the European checklist (Zampetti 2017), but not in the Italian checklist (Zampetti 1995a).

*Bruchidius poupillieri* (Allard, 1868)

Chorotype – CEM

Host Plants – FAB (*Anthyllis cytisoides*, *A. polycephala*, *A. vulneraria*, *A. polyphylla*, *Onobrychis arenaria*, *O. gracilis*)

Trophic category - OLI

New records – **Agrigento:** Oasi Torre Salsa, sifting, 23.IV.2010, Bellò C. Leg.; **Palermo:** Madonie, Castelbuono, 120m a.s.l., sifting *Olea*, 05.IV.2011, Baviera C. Leg; **Trapani:** Monte Sparagio, 550m a.s.l., sifting *Olea*, 16.III.2008, Baviera C. and Bellò C. Leg.; Alcamo, Monte Bonifato, S. Nicola, 250m a.s.l., sifting *Olea*, Baviera C. and Bellò C. Leg.

*Bruchidius pygmaeus* (Boheman, 1833)

Chorotype – CEM

Host Plants – FAB (*Trifolium alexandrinum*, *T. angustifolium*, *T. arvense*, *T. fragiferum*, *T. gemellum*, *T. hirtum*, *T. incarnatum*, *T. ochroleucon*, *T. phleoides*, *T. pratense*, *T. scabrum*, *T. squamosum*, *T. stellatum*, *T. striatum*, *T. subterraneum*, *T. tomentosum*)

Trophic category - MON

New records – **Messina:** San Pier Niceto, Li Pantani, 700m a.s.l., 04.IV.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 06.X.2008, Baviera C. Leg.; ditto, 02.IV.2004, Baviera C. Leg.; ditto, 08.I.2011, Baviera C. Leg.; ditto, 27.IV.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.IV.2010, Baviera C. Leg.; Nebrodi Mount. Floresta, Sorgente San Giacomo, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.; Capizzi, Tassita, 1450m a.s.l., windows trap, 29.IV.2015, Baviera C. Leg; Biviere di Cesarò Lake, 1274m a.s.l., 11.IV.2002, Baviera C. Leg.; ditto, 14.V.2004, Baviera C. Leg.; Aeolian Islands, Salina Island, 10-12.V.2007, Baviera C. Leg.; Vulcano Island, 09-10.V.2007, Baviera C. Leg.; **Catania:** Etna Mount, Rif. Brunek, 1500m a.s.l., 20.VI.2006, Baviera C. Leg.; **Siracusa:** Monte Casale, 650m a.s.l., 24.V.2010, Baviera C. Leg.; Vendicari, 25m a.s.l., sifting *Olea*, 01.III.2013, Baviera C. and Bellò C. Leg.; **Palermo:** Giacalone, Poggio S. Francesco, 800m a.s.l., 07.XI.2010, sifting *Olea*, Baviera C. and Bellò C. Leg.; Sicani Mountains, Monte Cammarata, 12.III.2009, sifting woody area, Baviera C. and Bellò C. Leg.; Ficuzza Wood, Rocca Busambra, on *Quercus*, 900m a.s.l., 15.V.1977, Romano M. Leg.; Madonie, Piano Pomieri, 1450m a.s.l., windows trap, 03-09.VIII.2015, Baviera C. Leg.; **Trapani:** Custonaci, Monte



Sparagio, 475m a.s.l., sifting *Olea*, 03.IV.2011, Baviera C. and Bellò C. Leg.

**Notes.** This species was recorded from Sicily from Messina (Scala), by Vitale (1921) (sub *B. anxius*), Palermo (Monte Pellegrino and Sicani: Godrano and Ficuzza) and Messina (city surrounding and Taormina) (Borowiec and Anton 1993). Also recorded from Pantelleria (Zampetti 1995b).

*Bruchidius pusillus* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Coronilla juncea*, *C. scorpioides*, *Hippocrepis comosa*, *H. emerus*, *Lotus cytoides*, *L. ornithopodioides*, *Securigera securidaca*, *S. varia*)

Trophic category - OLI

**Notes.** This species was recorded from Sicily only from Messina (Blanchard 1844).

*Bruchidius raddiana* (Anton and Delobel 2003)

Chorotype – COS

Host Plants – FAB (*Vachellia karroo*)

Trophic category - MON

**Notes.** This species was recorded, for the first time, from Lampedusa on the South African acacia tree, *Vachellia karroo* (Hayne) Banfi & Galasso (Toma *et al.* 2017).

*Bruchidius rufisurus* (Allard, 1883)

Chorotype – EME

Host Plants – UNK

Trophic category - UNK

New records – **Messina:** Monti Peloritani, Monte Antennammare. 1133m a.s.l., 27.VI.1997, Baviera C. Leg.; **Palermo:** Madonie Mountains, Piano Battaglia, 1600m a.s.l., 08.VIII.2015, yellow traps, Baviera C. Leg.; **Trapani:** Mazara del Vallo, 120m a.s.l., 03.IV.2011, sifting garrigue, Baviera C. and Bellò C. Leg.

**Notes.** A species confirmed from Sicily by a specimen from Messina (Baviera and Sparacio 2002). Recorded from Sicily in the European checklist (Zampetti 2017), Anton (2010) don't recorded this species from Italy.

*Bruchidius salinaensis* (Zampetti and Toma, 2020)

Chorotype – SICI

Host Plants – UNK)

Trophic category - UNK

**Notes.** This species was recently described from the Aeolian Archipelago, in Lingua Lake of Salina Island (Zampetti and Toma 2020).

*Bruchidius seminarius* (Linné, 1767)

Chorotype – PAL

Host Plants – FAB (*Anthyllis lotoides*, *Dorycnium hirsutum*, *Hippocrepis multisiliquosa*, *unisiliquosa*, *Lotus corniculatus*, *L. cytisoides*, *L. edulis*, *L. maritimus*, *L. ornithopodioides*, *L. pedunculatus*, *L. peregrinus*, *Ornithopus compressus*, *O. perpusillus*, *O. sativus*, *Scorpiurus muricatus*, *S. vermiculatus*, *Securigera varia*)

Trophic category - OLI

New records – **Messina:** Torre Faro. Contr. Granatari, 28.IV.2010, Baviera C. Leg.; ditto, 18-23.V.2000, Baviera C. Leg.; ditto, 09.VI.2000, Baviera C. Leg.; ditto, 22.III.2010, Baviera C. Leg.; ditto, 03-20.VIII.2001, Baviera C. Leg.; ditto, 04.IV.1999, Baviera C. Leg.; ditto, 07.IV.1998, Baviera C. Leg.; ditto, 13.IV.2001, Baviera C. Leg.; ditto, 12.V.2001, Baviera C. Leg.; ditto, 23-28.IV.2000, Baviera C. Leg.; Mortelle, Lido Spiaggia d'oro, 28.IV.2010, Baviera C. Leg.; ditto, 23.III.2010, Baviera C. Leg.; San Saba, Capo Rasocolmo, 26.IV.2010, Baviera C. Leg.; Città, SS. Annunziata, 03.V.2000, Baviera C. Leg.; ditto, 18.IV.2001, Baviera C. Leg.; ditto, 11.III.2000, Baviera C. Leg.; Peloritani Mountains, Massa San Giovanni, 23.VIII.1997, Baviera C. Leg.; Catarratti, 170m a.s.l. Baviera C. Leg.; Salice, 07.IV.2004, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.VI.2010, Baviera C. Leg.; Peloritani Mountains, Portella San Rizzo, 467m a.s.l., 27.IV.2010, Baviera C. Leg.; Monte Antennammare, 1133m a.s.l., 26.IV.2000; ditto, 09.IV.2002, Baviera C. Leg.; ditto, 27.IV.2010, Baviera C. Leg.; ditto, 05.VII.1999, Baviera C. Leg.; ditto, 27.VII.1999, Baviera C. Leg.; ditto, 27.VI.1997, Baviera C. Leg.; ditto, 17.X.2002, Baviera C. Leg.; Antillo, 500m a.s.l., 29.V.2010, Baviera C. Leg.; Mortelle, Canale Inglesi pit-fall trap on seashore, 28.IV.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.V.2010, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 29.VI.2010, Baviera C. Leg.; Rometta, Gimello, San Leone, 29.IV.2000, Baviera C. Leg.; Campo Italia, 476m a.s.l., on *Cistus crispus* 21.IV.2010, Baviera C. Leg.; Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; ditto, 23.III.2010, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C. Leg.; Nebrodi Mountains, Biviere di Cesarò Lake, 1274m a.s.l., 11.IV.2002, Baviera C. Leg.; Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.; Aeolian Archipelago, Stromboli Island, 07-09.IV.2006, Baviera C. Leg.; **Catania:** Etna Mount, Linguaglossa, 900m a.s.l., 22.IV.2000; ditto, 23.V.2010, Baviera C. Leg.; **Syracuse:** Lentini, on Citrus, 08.VI.2000, Baviera C. Leg.; Buccheri, under *Zelkovia sicula*, 28.V.2010, Baviera C. Leg.; **Palermo:** Sicani Mountains, Ficuzza Wood, sifting *Quercus*, 16.IV.2010, Baviera C. Leg.; **Trapani:** Egadi Islands, Favignana Island, 19.IV.2007, Baviera C. Leg.

**Notes.** This is a very common species in Sicily, recorded from Catania, Syracuse, and Palermo by Rottenberg (1871) (sub *Bruchus inspergatus* Gyll. and *Bruchus basalis* Gyll.) and Anton (1998). Also recorded from Pantelleria (Ragusa 1875; Zampetti 1995b), Lipari, Vulcano, Alicudi e Panarea Islands in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Newly recorded from Stromboli Island in Aeolian and from Egadi Islands (Favignana).

*Bruchidius sericatus* (Germar, 1824)

Chorotype – CEM

Host Plants – FAB (*Trifolium angustifolium*, *T. hybridum*, *T. ochroleucon*, *T. pannonicum*, *T. pratense*, *T. rubens*, *T. stellatum*, *T. striatum*, *T. vesiculosum*)

Trophic category - MON

New records – **Messina**: Acquarone, 09.V.2009, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.V.2010, Baviera C. Leg.; Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.; ditto, 21.VII.2010, Baviera C. Leg.; Siracusa: Monte Casale, 650m a.s.l., 24.V.2010, Baviera C. Leg.; **Ragusa**: Iblei, Giarratana, 500m a.s.l., 04.V.2010, sifting *Olea*, Baviera C. and Bellò C. Leg.; **Palermo**: Sicani Mountains, Ficuzza Wood, Alpe Cucco, 1020m a.s.l., 23.IV.2008, Baviera C. Leg.

**Notes.** This species was also described as *Bruchus minimus* from Messina by Blanchard (1844).

*Bruchidius taorminensis* (Blanchard, 1844)

Chorotype – MED

Host Plants – FAB (*Scorpiurus*)

Trophic category - MON

**Notes.** This species, described from Taormina (Messina) by Blanchard (1844), is not recorded in the Italian and European checklists (Zampetti 1995a, 2017).

*Bruchidius tibialis* (Boheman, 1829)

Chorotype – CEM

Host Plants – FAB (*Medicago minima*, *M. orbicularis*, *M. polymorpha*, *M. praecox*)

Trophic category - MON

New records – **Messina**: Monti Peloritani, Monte Antennammare. 1133m a.s.l., 06.X.2008; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.IV.2010, Baviera C. Leg.; Nebrodi Mountains: Soro Mount, 1800m a.s.l. 11.VIII.1998, Baviera C. Leg.; Nebrodi Mountains: Biviere Cesarò Lake, 1274m a.s.l., 11.VIII.1998, Baviera C. Leg.; **Catania**: Etna Mount, North slope, 1500m a.s.l., 23.VI.2001, Baviera C. Leg.; Calatabiano, San Marco, Alcantara River mouth, 11.III.2011, Baviera C. Leg.; ditto, 19.IV.2010, Baviera C. Leg.; Syracuse: Lentini, on Citrus, 08.VI.2000, Baviera C. Leg.; Monte Casale, 650m a.s.l., 27.V.2010, Baviera C. Leg.; **Palermo**: Madonie Mountains, Piano Pomieri, 1450m a.s.l., windows trap, 03.VIII.2013, Baviera C. Leg.

**Notes.** This species was recorded from Sicily from Catania by Rottenberg (1871), (sub *Bruchus tibialis* Bris.).

*Bruchidius trifolii* (Motschulsky, 1873)

Chorotype – CEM

Host Plants – FAB (*Medicago sativa*, *Trifolium alexandrinum*, *T. clypeatus*, *T. incarnatus*, *T. ochraceus*, *T. ochroleucon* ?, *T. pratense*, *T. squamosum*)

Trophic category - MON

*Bruchidius tuberculatus* (Hochhut, 1847)

Chorotype – CEM

Host Plants – AST (*Centaurea iberica*)

Trophic category - MON

*Bruchidius varius* (Olivier, 1795)

Chorotype – WPA

Host Plants – FAB (*Trifolium alpestre*, *T. angustifolium*, *T. diffusum*, *T. fragiferum*, *T. glomeratum*, *T. hirtum*, *T. hybridum*, *T. medium*, *T. physodes*, *T. pratense*, *T. repens*, *T. resupinatum*, *T. rubens*, *T. scabrum*, *T. stellatum*)

Trophic category - MON

New records – **Messina**: Città, SS. Annunziata, 03.V.2000, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Cuba Bizantina, 19.V.2010, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Acquarone, 09.V.2009, Baviera C. Leg.; San Fratello, 1300m a.s.l., 17.V.2002; ditto, 20.V.2000, Baviera C. Leg.; Salice Urmi, 23.III.2010, Baviera C. Leg.; Peloritani Mountains, Monte Antennammare. 1133m a.s.l., 02.VI.2004; ditto, 23.VII.2000, Baviera C. Leg.; **Catania**: Etna Mount, Noth-Est, dint S. Alfio, 1200m a.s.l., 02.VII.1999, Baviera C. Leg.

**Notes.** This species was recorded from Sicily from Palermo (Sicani: Godrano) and Messina (Borowiec and Anton 1993). Also recorded from Pantelleria (Zampetti 1995b).

*Bruchidius villosus* Fabricius, 1792 (= *B. fasciatus* Olivier; = *B. ater* (Marsham, 1802))

Chorotype – COS (imported from Nearctic)

Host Plants – FAB (*Calicotome spinosa*, *C. villosa*, *Cytisophyllum sessilifolium*, *Cytisus austriacus*, *C. elongatus*, *C. eriocarpus*, *C. grandiflorus*, *C. hirsutus*, *C. purpureus*, *C. scoparius*, *C. striatus*, *C. supinus*, *C. villosus*, *Genista anglica*, *G. cinerea*, *G. corsica*, *G. linifolia*, *G. monspessulana*, *G. pilosa*, *G. tinctoria*, *Laburnum alpinum*, *L. anagyroides*, *Petteria ramentacea*, *Podocytisus caramanicus*, *Spartium junceum*)

Trophic category - MON

New records – **Messina**: Torre Faro Contr. Granatari, 22.III.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.IV.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 17.X.2002, Baviera C. Leg.; Aeolian Islands, Stromboli Island, 07-09.IV.2006, Baviera C. Leg.; **Catania**: Etna Mount, Linguaglossa, 900m a.s.l., 22.IV.2000, Baviera C. Leg.; **Trapani**: Egadi Islands, Favignana Island, 19.IV.2007, Baviera C. Leg.

**Notes.** This species was recorded from Sicily only from Messina (sub *Bruchus obscuricornis*) by Blanchard (1844); and by Borowiec and Anton (1993). Recently recorded from Vulcano Island in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Newly recorded from Stromboli in Aeolian and from Egadi Islands (Favignana).

Genus **Serratobruchidius** YusRamos, 2013

*Serratobruchidius jocosus* (Gyllenhal, 1833)

Chorotype – MED

Host Plants – FAB (*Cicer arietinum*, *Lupinus luteus*, *Lathyrus sativus*)

Trophic category - MON

New records – **Messina**: Torre Faro. Contr. Granatari, light trap, 25.V-05.VI.2000, Baviera C. Leg.; Aeolian Islands, Vulcano Island, 09-10.V.2007, Baviera C. Leg.; Francavilla di Sicilia, Alcantara

River, Le Gurne, 19.V.2010, Baviera C. Leg.; **Catania**: Etna Mount, Passopisciaro, Via Guardiola, on *Inula* sp. and *Linaria* sp., 30.IV.2016, Baviera C. Leg.

**Notes.** Borowiec and Anton (1993) considered this species as “little known” because often confused with *S. rubiginosus* (Desbr). Recorded from Lipari and Vulcano Islands in Aeolian Islands (Lo Cascio *et al.* 2006) (sub *B. jocosus*); (Lo Cascio, Altadonna, and Ponel 2022). Like in south of Spain (Yus Ramos 2013), also in Sicily this specie lives together with *S. rubiginosus*.

*Serratobruchidius meleagrinus* (Géné, 1839)

Chorotype – MED

Host Plants – FAB (*Lathyrus tingitanus*, *Vicia* sp.)

Trophic category - OLI

New records – **Messina**: Torre Faro. Contr. Granatari, 28.IV.2010; ditto, 08.VII.2002, Baviera C. Leg.; ditto, 18-23.V.2000, Baviera C. Leg.; ditto, 12.V.2001, Baviera C. Leg.; ditto, 27.V-05.VI.2000, Baviera C. Leg.; Mortelle, Lido Spiaggia d’oro, 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Monti Nebrodi, Alcara li Fusi, 19.VI.2002, Baviera C. Leg.; Maniace, Vivaio Chiusitta, 04.IV.2013, sifting *Quercus* and *Acer*, Baviera C. Leg.; Isole Aeolian, Salina Island, 10-12.V.2007; Aeolian Islands, Vulcano Island, 09-10.V.2007, Baviera C. Leg.; ditto, Loc. Piano, 300m a.s.l., 24-29.VII.2001, Baviera C. Leg.; **Catania**: Etna Mount, Rif. Brunek, 1500m a.s.l., 20.VI.2006, Baviera C.; **Enna**: Piazza Armerina, sifting *Quercus* sp., 19.III.2010, Bellò C. Leg.; Ragusa: Iblei, Giarratana, Lago S. Rosalia, 377m a.s.l., 15.IV.2010, sifting *Olea*, Baviera C. and Bellò C. Leg.; **Palermo**: Bagheria, Monte Calafato, 220m a.s.l., 30.I.2011, Baviera C. and Bellò C. Leg.; Monte Pellegrino, 370m a.s.l., sifting garrigue, 28.XI.2009; Sicani Mountains, Ficuzza Wood, Alpe Cucco, 25.IX.2010, Baviera C. and Bellò C. Leg.; Madonie Mountains, Piano Battaglietta, 1800m a.s.l., 16.V.2008, Baviera C. and Rando A. Leg.; ditto, inghiottitoio, 23.VI.2007, Baviera C. Leg.; **Trapani**: Monte S. Giuliano, 10.III.2009 sifting, *Olea*, Baviera C. and Bellò C. Leg.; Egadi Islands; Levanzo Island, 23.IV.2007, Baviera C. Leg.

**Notes.** A species recorded from Sicily (Messina) since a long time by Blanchard (1844) and Rottenberg (1871), sub *Bruchus meleagrinus* Gene from Messina (Colle S. Rizzo, Alcantara, Taormina), Termini Imerese (Ciofalo 1886), Trapani (Monte Cofano) (sub *Bruchidius meleagrinus*) (Borowiec and Anton 1993) Pantelleria Island (Zampetti 1995b), and from Lipari (sub *B. meleagrinus* (Lo Cascio *et al.* 2006)), Vulcano, Filicudi and Panarea in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Newly record from Salina Island in Aeolian and from Egadi Islands (Levanzo).

*Serratobruchidius quinqueguttatus* (Olivier, 1795)

Chorotype – CEM (imported in Australian Region)

Host Plants – FAB (*Vicia faba*, *Vicia sativa*, *Cicer arietinum*)

Trophic category - OLI

**Notes.** This is the type species of genus *Bruchidius*, recorded in Italy only from Sicily (sub *Bruchidius quinqueguttatus*) (Anton 2010), wasn’t recorded among Sicilian species in European checklist (Zampetti 2017).

*Serratobruchidius rubiginosus* (Desbrochers, 1869)

Chorotype – MED

Host Plants – FAB (*Lupinus micranthus*, *L. augustifolius*, *Vicia sativa*)

Trophic category - OLI

New records – **Messina**: Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 23.V.2006, Baviera C. Leg.

**Notes.** This species was recorded firstly from Sicily (Messina) by Vitale (1932), sub *Bruchidius rubiginosus*, and after from Catania (Etna, Nicolosi, Monti Rossi) and Messina (city surrounding and Taormina) (sub *B. rubiginosus*), by Borowiec and Anton (1993). Recorded from Sicily by Yus Ramos (2013). This is one of the biggest species of Chrysomelidae Bruchinae known from Sicily. Often misidentified with *S. jocosus* (Gyllenhal, 1833) (Yus Ramos 2007). Not recorded from Sicily in Italian checklist (Zampetti 1995a) nor in Fauna Europea checklist (Zampetti 2017).

Genus **Callosobruchus** Pic, 1902*Callosobruchus chinensis* Linnaeus, 1758

Chorotype – COS

Host Plants – FAB (*Abrus* sp., *Acacia* sp., *Arachis* sp., *Cajanus* sp., *Canavalia* sp., *Cercis* sp., *Crotalaria* sp., *Cyamopsis* sp., *Dolichos* sp., *Glycine* sp., *Indigofera* sp., *Lablab* sp., *Lathyrus* sp., *Lens* sp., *Lupinus* sp., *Macrotyloma* sp., *Medicago* sp., *Phaseolus* sp., *Physostigma* sp., *Pisum* sp., *Pueraria* sp., *Rhynchosia* sp., *Sphenostylis* sp., *Vicia* sp., *Vigna* sp.)

Trophic category - POL

*Callosobruchus maculatus* (Fabricius, 1775)

Chorotype – COS

Host Plants – FAB (*Cicer arietinum*; *Phaseolus vulgaris*; *Pisum sativum*)

Trophic category - OLI

*Callosobruchus phaseoli* (Gyllenhal, 1833)

Chorotype – COS (from Asia)

Host Plants – FAB (*Vigna angularis*, *Vigna radiata*, *Vicia faba*, *Pisum sativum*, *Cajanus cajan*, *Lablab purpureus*, *Wisteria* sp., *Phaseolus lunatus*, *Phaseolus vulgaris*, *Cicer arietinum*, *Sesbania* sp., *Crotalaria spectabilis*, *Lupinus* sp.)

Trophic category - POL

**Notes.** This cosmopolitan species is recorded from Sicily only in European checklist (Zampetti 2017).

Genus **Paleoacanthoscelides** Borowiec, 1985*Paleoacanthoscelides gilvus* Gyllenhal, 1839

Chorotype – CEM (Imported in Oriental Region)

Host Plants – FAB (*Hedysarum coronarium*, *H. flexuosum*, *H. spinosissimum*, *Onobrychis aequidentata*, *O. grandis*, *O. schahuaensis*, *O. vaginalis*, *O. viciifolia*)

Trophic category - OLI

New records – **Messina**: Torre Faro. Contr. Granatari, light trap, 25-30.VI.2008, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 06.X.2008, Baviera C. Leg.; ditto, 17.X.2002, Baviera C. Leg.; Campo Italia, 476m a.s.l., 24.IV.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 23.III.2010, Baviera C. Leg.; Monti Peloritani, Musolino, 800m a.s.l., 08.VIII.1998, Baviera C. Leg.; Monti Peloritani, Salice, 07.IV.2004, Baviera C. Leg.; Monte Scuderi, Torrente Lampiello, 600m a.s.l., 14.IV.2004, Baviera C. Leg.; Rometta, Gimello, San Leone, 28.VII.1999, Baviera C. Leg.; 07.VIII.1999, Baviera C. Leg.; Nebrodi Monts, Maulazzo Lake, 1300m a.s.l., wet zone, 28.V.2011, Baviera C. Leg.; Biviere di Cesarò Lake, 1274m a.s.l., 11.IV.2002 Baviera C. Leg.; ditto, 09.IX.2005; Aeolian Islands, Filicudi Island, 01.IX.2006, Baviera C. Leg.; Salina Island, 10-12.V.2007, Baviera C. Leg.; Stromboli Island, 07-09.IV.2006, Baviera C. Leg.; Alicudi Island, 30.IX.2006, Baviera C. Leg.; Vulcano Island, 09-10.V.2007, Baviera C. Leg.; **Catania**: Etna Mount, Passopisciaro, Via Guardiola, on *Inula* sp. and *Linaria* sp., 30.IV.2016, Baviera C. Leg.; Etna Mount, Piano Provenzana, 2030m a.s.l., 28.IV.2019, Baviera C. Leg.; **Agrigento**: Bisacquino 3, 570m a.s.l., 04.IV.2011, Baviera C. Leg.; **Siracusa**: Augusta, 15.VII.1997, on *Citrus*, I.S.A. Leg.; **Caltanissetta**: Erei Mountains, Niscemi Sughereta, 19.III.2010, sifting *Olea* and *Quercus*, Baviera C. and Bellò C. Leg.; **Palermo**: Termini Imerese, sifting *Olea*, 200m a.s.l., 15.III.2008, Baviera C. and Bellò C. Leg.; Madonie Mountains, Piano Battaglietta, 1800m a.s.l., 16.V.2008, Baviera C. and Rando A. Leg.; Sicani Mountains, Ficuzza Wood, Crocifisso, 900m a.s.l., sifting *Quercus*, 16.IV.2010; ditto, Alpe Cucco, 1020m a.s.l., 25.IX.2010; ditto, Alpe Cucco B, 950m a.s.l., 25.IX.2010; Cinisi, Madonna del Furi, 380m a.s.l., 30.I.2011, Baviera C. Leg.; **Trapani**: R.N.O. “Zingaro”, 23-24. IV.2003; ditto, 26-29.III.2003, Baviera C. Leg.; Custonaci, Purgatorio, 273m a.s.l., sifting *Olea*, 29.I.2011, Baviera C. and Bellò C. Leg.; Erice, 750m, sifting soil, 06.III.2013, Baviera C. Leg.; Egadi Islands; Levanzo Island, 22.X.2006, Baviera C. Leg.; ditto, 16-18.IV.2006, Baviera C. Leg.

**Notes.** This species was recorded from Sicily only from Palermo (Ficuzza), and Messina (city surroundings and Furnari) (Borowiec and Anton 1993). Newly record from Aeolian (Salina, Alicudi, Filicudi, Stromboli and Vulcano) and Egadi Islands (Levanzo).

Genus **Pseudopachymerina** Zacher, 1952*Pseudopachymerina spinipes*(Erichson, 1834)

Chorotype – COS

Host Plants – FAB (*Acacia farnesiana*)

Trophic category - MON

**Notes.** This species was recorded from Sicily from Palermo by Vitale (1921), sub *Acanthoscelides lallemani* Sainte-Claire-Deville 1910. Recorded from Sicily in European checklist (Zampetti 2017).

Genus **Bruchus** Linnaeus, 1767*Bruchus affinis* Frölich, 1799

Chorotype – WPA (Imported in Oriental Region)

Host Plants – FAB (*Lathyrus angustifolius*, *L. aphaca*, *L. grandiflorus*, *L. japonicus*, *L. latifolius*, *L. ochrus*, *L. odoratus*, *L. pratensis*, *L. sativus*, *L. sylvestris*, *L. tuberosus*)

Trophic category - MON

*Bruchus brachialis* Fåhraeus, 1839

Chorotype – WPA (Imported in Oriental and Nearctic Regions)

Host Plants – FAB (*Vicia cracca*, *V. sativa*, *V. pannonica*, *V. villosa*, *V. benghalensis*, *V. caroliniana*, *V. grandiflora*, *V. pannonica*, *V. peregrina*, *V. pubescens*, *V. sepium*, *V. tenuifolia*, *V. villosa*)

Trophic category - MON

New records – **Messina**: Città, SS. Annunziata, 03.V.2000, Baviera C. Leg.; Torre Faro. Contr. Granatari, 09.VI.2000, Baviera C. Leg.; Francavilla di Sicilia, Alcantara River, Le Gurne, 19.V.2010, Baviera C. Leg.; Monti Peloritani, Pizzo Chiarino, 845m a.s.l., 27.IV.2010, Baviera C. Leg.; Monti Peloritani, Musolino, 800m a.s.l., 08.VIII.1998, Baviera C. Leg.; Monti Peloritani, Portella Croce Cumia, 700m a.s.l., 07.IV.2004, Baviera C. Leg.; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 24.IV.2006, Baviera C. Leg.; Monti Peloritani, Monte Antennammare. 1133m a.s.l., 27.IX.2009, Baviera C. Leg.; ditto, 04.VI.2000, Baviera C. Leg.; ditto, 17.X.2002, Baviera C. Leg.; ditto, 07.IV.2004, Baviera C. Leg.; Rometta, Gimello, San Leone, 29.IV.2000, Baviera C. Leg.; Nebrodi Mountains, Biviere di Cesarò Lake, 1274m a.s.l., 01.VI.2007, Baviera C. Leg.; San Fratello, 1300m a.s.l., 17.V.2002, Baviera C. Leg.; Aeolian Islands, Salina Island, 10-12.V.2007, Baviera C. Leg.; Stromboli Island, 07-09.IV.2006, Baviera C. Leg.; Vulcano Island, 09-10.V.2007, Baviera C. Leg.; **Catania**: Castel di Judica, 700m a.s.l. on *Quercus*, 29.IV.2015, Baviera C. Leg.; **Palermo**: Madonie, Portella Colla, 1450m a.s.l., 03.VI.2000, Baviera C. Leg.; Sicani Mountains, Monte Cammarata, 27.V.2007, Baviera C. Leg.; Madonie, Piano Zucchi, 03.VI.2000, Baviera C. Leg.

**Notes.** This species was recorded from Sicily only from Palermo (Sicani: Ficuzza; Madonie: Gibilmanna, Cefalù) and Messina (Borowiec and Anton 1993). Recently recorded from Alicudi, Salina, Panarea and Vulcano Islands in Aeolian Islands (Lo Cascio *et al.* 2006; Lo Cascio, Altadonna, and Ponel 2022). Newly recorded from Stromboli (Eolie).

*Bruchus ervi* Frölich, 1799

Chorotype – COS (from Europe)

Host Plants – FAB (*Lens culinaris*)

Trophic category - MON

*Bruchus griseomaculatus* Gyllenhal, 1833

Chorotype – MED

Host Plants – FAB (*Vicia parviflora*, *V. sepium*, *V. tetrasperma*)

Trophic category - MON

New records – **Catania**: Etna Mount, Northern Slope, Linguaglossa surr., 22.IV.2000, Baviera C.



**Notes.** This species was recorded from Sicily only from Palermo (Sicani: Ficuzza) and Messina (Tripi) (Borowiec and Anton 1993).

*Bruchus laticollis* Boheman, 1833

Chorotype – ASE

Host Plants – FAB (*Lathyrus aphaca*)

Trophic category - MON

**Notes.** This species was recorded from Sicily only from Palermo (Sicani: Ficuzza) (Borowiec and Anton 1993).

*Bruchus lentis* Frölich, 1799

Chorotype – COS

Host Plants – FAB (*Lathyrus sativus*, *Lens culinaris*, *Vicia ervilia*)

Trophic category - OLI

**Notes.** This species was recorded from Sicily only from Termini Imerese (Ciofalo 1886), Noto (sub *Mylabris lentis* by Assenza (1892)), and Messina (Borowiec and Anton 1993).

*Bruchus luteicornis* Illiger, 1794

Chorotype – COS (imported from Oriental Region)

Host Plants – FAB (*Lathyrus cicera*, *L. pratensis*, *L. sativus*, *Vicia grandiflora*, *V. sativa*, *V. barbazitae*, *V. cracca*, *V. grandiflora*, *V. sativa*, *V. cordata*, *V. incisa*, *V. nigra*, *V. sepium*)

Trophic category - OLI

*Bruchus perezi* Kraatz, 1868

Chorotype – MED

Host Plants – FAB (*Calicotome spinosa*)

Trophic category - MON

**Notes.** A species recorded from Sicily since Pic (1913) catalogue and confirmed in Italian and European catalogues (Zampetti 1995a, 2017). This species is recorded, in Italy, only from Sicily (Zampetti 1995a; Anton 2010; Zampetti 2017).

*Bruchus pisorum* (Linné, 1758)

Chorotype – COS

Host Plants – FAB (*Lathyrus latifolius*, *L. sativus*, *Pisum sativum*, *Vicia faba*, *V. leucantha*, *V. peregrina*, *V. sativa*)

Trophic category - OLI

New records – **Messina:** Francavilla di Sicilia, Alcantara River, Le Gurne, 19.IV.2010, Baviera C. Leg.; Peloritani Mountains, Monte Scuderi, Torrente Lampiello, 600m a.s.l., 14.IV.2004, Baviera C. Leg.; **Ragusa:** Iblei Mountains, Sant. Santa Rosalia, sifting *Olea*, 15.IV.2010, Baviera C. and Bellò C.

Leg.; **Palermo**: Sicani Mountains, Piana degli Albanesi, 11.XII.1974, Romano M. Leg.

**Notes.** This species was recorded from Sicily from Catania and Palermo by Rottenberg (1871), sub *Bruchus pisi* L., and after from Messina (Borowiec and Anton 1993). Also recorded from Pantelleria Island (Borowiec and Anton 1993; Zampetti 1995b).

*Bruchus rufimanus* Boheman, 1833

Chorotype – COS

Host Plants – FAB (*Lathyrus clymenum*, *L. laxiflorus*, *L. venetus*, *Vicia articulata*, *V. bithynica*, *V. faba*, *V. hybrida*, *V. lutea*, *V. monantha*, *V. narbonensis*, *V. onobrychioides*, *V. pannonica*, *V. peregrina*, *V. sativa*, *V. villosa*)

Trophic category - OLI

New records – **Messina**: Peloritani Mountains, Forte S. Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 23.V.2006, Baviera C. Leg.; Patti, Olivieri, Laghetti di Marinello, 02.III.2002, Baviera C. Leg.; Nebrodi Mountains, Biviere di Cesarò Lake, 1274m a.s.l., 11.IV.2002, Baviera C. Leg.; ditto, 27.V.2006, Baviera C.; **Palermo**: Isnello, Piano Zucchi, 1100m a.s.l., 03.IV.2000, Baviera C. Leg.

**Notes.** This species was recorded in Sicily from Agrigento, Catania and Palermo by Rottenberg (1871), after recorded from Noto (Syracuse) by Assenza (1892) (sub *Mylabris rufimanus*), by Vitale (1902) from Messina (Monte Cicci, 480 m) and by Lundberg, Palm, and Trottestam (1987) from Gibilmanna.

*Bruchus rufipes* Herbst, 1783

Chorotype – CEM

Host Plants – FAB (*Vicia articulata*, *V. cracca*, *V. ervilia*, *V. sativa*, *V. cordata*, *V. macrocarpa*, *V. nigra*, *V. tenuifolia*, *V. tetrasperma*, *V. villosa*)

Trophic category - MON

New records – **Messina**: Peloritani Mountains, Forte S. Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; ditto, 23.III.2010, Baviera C. Leg.; Pizzo Chiarino, 27.IV.2010, Baviera C. Leg.; San Pier Niceto, Li Pantani, 700m a.s.l., 04.IV.2010, Baviera C. Leg.; Monte Scuderi, Torrente Lampiello, 600m a.s.l., 14.IV.2004, Baviera C. Leg.; Rometta, Gimello, San Leone, 29.IV.2000; Montalbano Elicona, Malabotta Wood, 1300m a.s.l. 14.V.2005, Baviera C. Leg.; Nebrodi Mountains: Soro Mount, 1800m a.s.l. 27.VI.2008, Baviera C. Leg.; Biviere di Cesarò Lake, 1274m a.s.l., 01.VI.2007, Baviera C. Leg.; Aeolian Islands, Vulcano Island, 09-10.V.2007, Baviera C. Leg.; **Catania**: Etna Mount, Passopisciaro, Via Guardiolo, on *Inula* sp. and *Linaria* sp., 30.IV.2016, Baviera C. Leg.; Caltanissetta: Biviere di Gela, 29-30.V.2006, Baviera C. Leg.; **Palermo**: Sicani Mountains, Ficuzza Wood, Alpe Cucco, 1020m a.s.l., 29.V.2007, Baviera C. Leg.; Madonie Mountains, Piano Battaglietta, 1800m a.s.l., 16.V.2008, Baviera C. and Rando A.

**Notes.** This species was recorded from Sicily by Vitale (1902) from Messina (Monte Cicci, 480 m), and from Palermo (Sicani: Ficuzza) by Borowiec and Anton (1993), from Pantelleria Island (Zampetti 1995b). Recently recorded from Lipari Island in Aeolian Islands (Lo Cascio, Altadonna, and Ponel 2022). Newly recored form Vulcano.

*Bruchus signaticornis* Gyllenhal, 1833

Chorotype – CEM (imported in Neartic)

Host Plants – FAB (*Lathyrus cicero*, *Lens culinaris*, *Vicia articulata*, *V. benghalensis*, *V. cracca*, *V. incana*, *V. ervilia*)

Trophic category - OLI

New records – **Messina**:Mortelle, Lido Spiaggia d'oro, 28.IV.2010, Baviera C. Leg.; San Saba, Capo Rasocolmo, 23.III.2010, Baviera C. Leg.; **Palermo**: Sicani Mountains, Piana degli Albanesi, 11.XII.1974, Romano M. Leg.**Notes.** This species, recorded from Sicily in Italian and European checklists (Zampetti 1995a, 2017), was recorded from Lampedusa Island (Zampetti 1995b), and recently from Alicudi Island in Aeolian (Lo Cascio *et al.* 2006).*Bruchus tristiculus* Fåhræus, 1839

Chorotype – CEM

Host Plants – FAB (*Lathyrus amphicarpos*, *L. angulatus*, *L. annuus*, *L. aphaca*, *L. cicera*, *L. clymenum*, *L. hirsutus*, *L. latifolius*, *L. nissolia*, *L. ochrus*, *L. odoratus*, *L. pratensis*, *L. sativus*, *L. sphaericus*, *L. sylvestris*, *L. tingitanus*, *Vicia ervilia*, *V. faba*, *V. hirsuta*)

Trophic category - OLI

New records – **Messina**:Torre Faro. Contr. Granatari, 18-23.V.2000, Baviera C. Leg.; Monti Peloritani, Forte San Jachiddu, 375m a.s.l., 28.IV.2010, Baviera C. Leg.; Monti Peloritani, Portella San Rizzo, 467m a.s.l., 27.IV.2010, Baviera C. Leg.; Città, SS. Annunziata, 03.V.2000, Baviera C. Leg.; **Palermo**: Sicani Mountains, Piana degli Albanesi, 600m a.s.l., under *Eucalyptus* bark, 08.III.2009, Baviera C. Leg.**Notes.** This species was recorded from Sicily only from Trapani (Egadi: Favignana), Messina (city surrounding, Taormina) by Borowiec and Anton (1993), from Pantelleria Island (Zampetti 1995b), and from Lipari and Vulcano Islands in Aeolian (Lo Cascio *et al.* 2006; Lo Cascio, Altadonna, and Ponel 2022).*Bruchus tristis* Boheman, 1833

Chorotype – CEM

Host Plants – FAB (*Lathyrus blepharicarpus*, *Lens culinaris*)

Trophic category - OLI

**Notes.** This species was recorded from Sicily from Agrigento, Catania and Syracuse by Rottenberg (1871) and after from Messina (Borowiec and Anton 1993).*Bruchus ulicis* Mulsant & Rey, 1858

Chorotype – CEM (imported in Neartic)

Host Plants – FAB (*Calicotome villosa*, *Lens culinaris*, *Pisum sativum*, *Vicia ervilia*, *V. sativa*)

Trophic category - OLI

**Notes.** This species was recorded from Sicily only from Palermo (Madonie: Gibilmanna) (Borowiec and Anton 1993).

*Bruchus viciae* Olivier, 1795

Chorotype – CEM

Host Plants – FAB (*Lathyrus clymenum*, *L. digitatus*, *L. niger*, *L. pannonicus*, *L. pratensis*, *L. rotundifolius*, *L. sphaericus*, *L. sylvestris*, *L. venetus*)

Trophic category – MON

New records – **Messina:** Francavilla di Sicilia, Alcantara River, Le Gurne, 19.IV.2010, Baviera C. Leg.; Monte Scuderi, 1200m a.s.l., sifting, 29.X.2005, Baviera C. Leg.; Nebrodi Mountains, Biviere di Cesarò Lake, 1274m a.s.l., 05.VIII.2005, Baviera C. Leg.; Floresta, San Giacomo source, Alcantara River, 1100m a.s.l., 29.VI.2010, Baviera C. Leg.; **Catania:** Etna Mount, Milo 4, 1300m a.s.l., sifting *Hedera* and *Quercus*, 04.V.2012, Baviera C. Leg.; **Palermo:** Madonie Mountains, Piano Battaglietta, 1800m a.s.l., 16.V.2008, Baviera C. and Rando A. Leg.

**Notes.** This species was recorded by Vitale (1902) from Messina (Monte Cicci, 480m).

### Species doubtfully recorded from Sicily

[*Bruchidius incipiens* (Kolenati, 1858)]

**Notes.** An Asiatic species recently recorded from Sicily in European checklist (Zampetti 2017). The presence of this species in Sicily needs confirmation.

[*Penthobruchus germaini* Pic, 1894]

**Notes.** This Neotropical species, recorded for the first time from Sicily (Palermo) by Vitale (1932), sub *Pseudopachimerus Germaini* as “probably imported”, confirmed from Italy (only Sicily) in the checklist of Anton (2010) but never recorded from Sicily in European nor Italian checklist (Zampetti 1995a, 2017). The acclimatation of this species in Sicily needs confirmation.

[*Bruchus longicornis* Thunberg, 1816]

**Notes.** A species described from China, not recorded, until now, from Europe nor Palearctic. This species was recorded from Sicily by Rottenberg (1871), “Bei Cat , auf blühenden Erbsen und *Taraxacum* [At Cat[ania], on flowering peas and taraxacum”) never recollected thereafter in the Island.

[*Mimosestes mimosae* (Fabricius, 1781)]

**Notes.** This species, recorded for the first time from Sicily (Palermo) by Vitale (1932), sub *Acanthoscelides mimosa* as “very common on *Acacia farnesiana* L.”) after was recorded only from “Sicily” by Vitale (1921) sub *A. caliginosus*; and Borowiec and Anton (1993) and never recorded thereafter. Probably a periodically imported species never naturalized in Sicily.

[*Algarobius prosopis* (LeConte, 1858)]

**Notes.** A cosmopolitan species non recorded, until now, from Europe (Anton 2010). This species was recorded from Sicily by Rottenberg (1871) (sub *Bruchus uniformis* Bris.), never recorded thereafter in the Island.

[*Palaeobruchidius plagiatus* (Reiche & Saulcy, 1857)]

**Notes.** This species was recorded from Italy in the checklist of Anton (2010) but never recorded in European nor in Italian checklist (Zampetti 1995a, 2017). Vitale recorded this species for the first time in Sicily from Botanical Garden of Palermo (sub *Bruchus plagiatus*, as probably imported, “avendone catturati varii individui all’Orto Botanico della città dove si ricevono molti semi esotici” [having captured various individuals at the Botanical Garden of the city where many exotic seeds were received] (Vitale 1932, 1940). The presence of this species in Sicily needs confirmation.

[*Zabrotes subfasciatus* (Boheman, 1833)]

**Notes.** This cosmopolitan species was recorded from Sicily for the first time sub *Spermophagus subfasciatus* by Vitale (1921). Not recorded in Italian checklist (Zampetti 1995a), but only in Fauna Europea checklist (Zampetti 2017). A periodically imported species very probably never naturalized in Sicily.

#### 4. Conclusions and final remarks

In total, 76 species arranged in 8 genera are listed as the seed beetle fauna of Sicily (45 *Bruchidius* spp., 19 *Bruchus* spp., 4 *Serratobruchidius* spp., 3 *Spermophagus* spp., and *Callosobruchus* spp., one *Acanthoscelides* sp., *Paleoacanthoscelides* sp. and *Pseudopachymerrina* sp.), which constitutes the 83% of Italian Bruchinae fauna and approximately 19% of the Palaearctic Bruchinae fauna (Zampetti, 1995; Anton, 2010). Additionally, seven species often introduced in Sicily were considered as not acclimatized. Eleven different chorotypes are represented; 60% of the total species show a widespread distribution in the Palaearctic Region (PAL s.l.), including mainly the Centrasiatic-European-Mediterranean chorotype (CEM) (34 species; 45% of the total) (see Figs. 2 and 3).

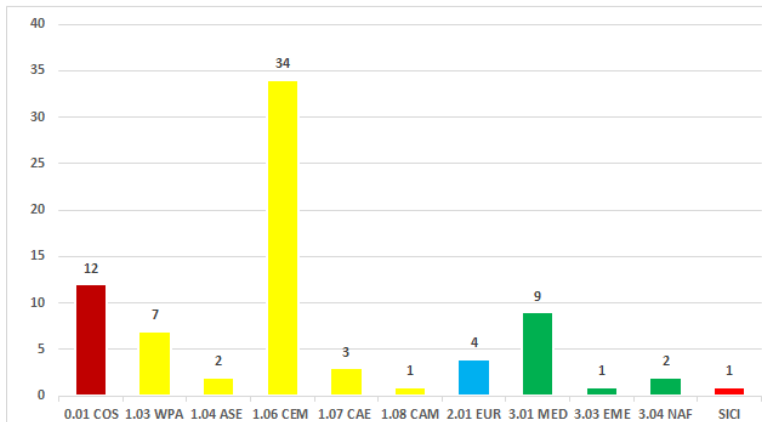


FIGURE 2. Number of Sicilian Bruchinae species per chorotype (see Section 2 for abbreviations)

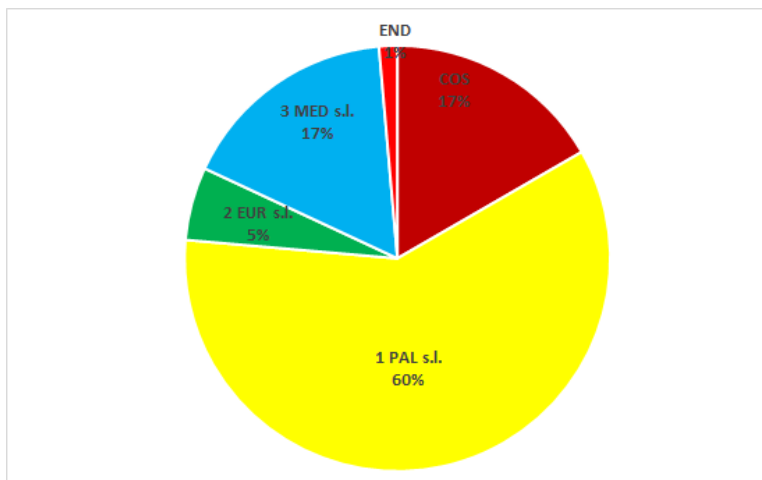


FIGURE 3. Percentage of Sicilian Bruchinae species per chorotype class (see Section 2 for abbreviations)

As for the endemism, Sicilian Bruchinae comprise only one strictly endemic Sicilian (SICI) taxa. Unlike what can be observed for others Sicilian Chrysomelidae (Baviera and Sassi 2020), the species of the Bruchinae tribe tend to be strictly monophagous (MON). Even using a restricted concept of “monophagy”, an half of the Sicilian species feeds on plant species of a single genus (Fig. 4).

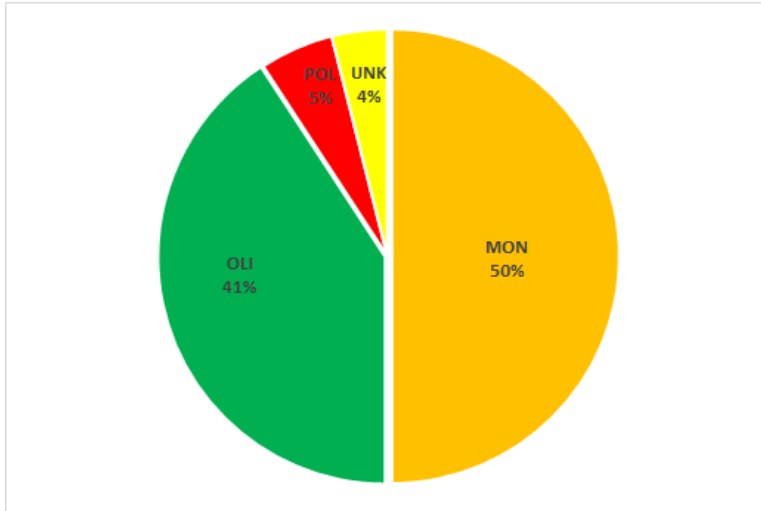


FIGURE 4. Percentage of Sicilian Bruchinae species per trophic category (see Section 2 for abbreviations)

The Sicilian Bruchinae are so associated with only 6 different host plant families, with Fabaceae (FAB) largely dominating, as are chosen by 66 species (87% of the total species) (Fig. 5). There are 13 genera of Fabaceae that host Bruchinae species, with *Vicia* sp., *Lathyrus* sp. and *Trifolium* sp. being the most common (see Fig. 6).

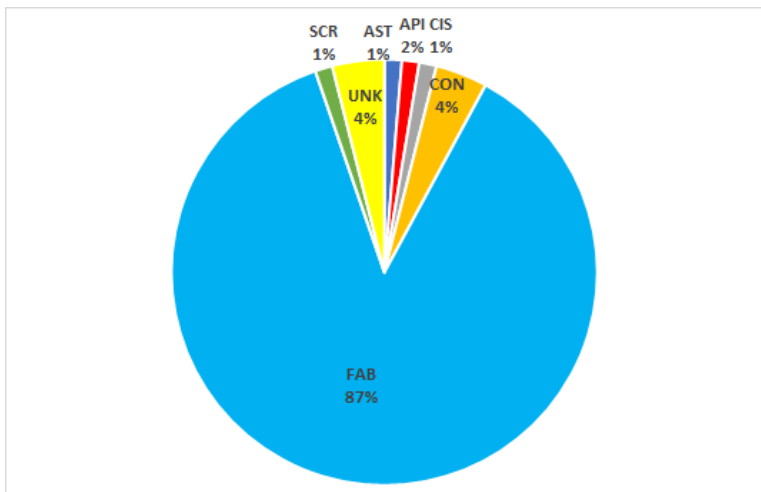


FIGURE 5. Percentage of Sicilian Bruchinae species per host plants families (see Section 2 for abbreviations)

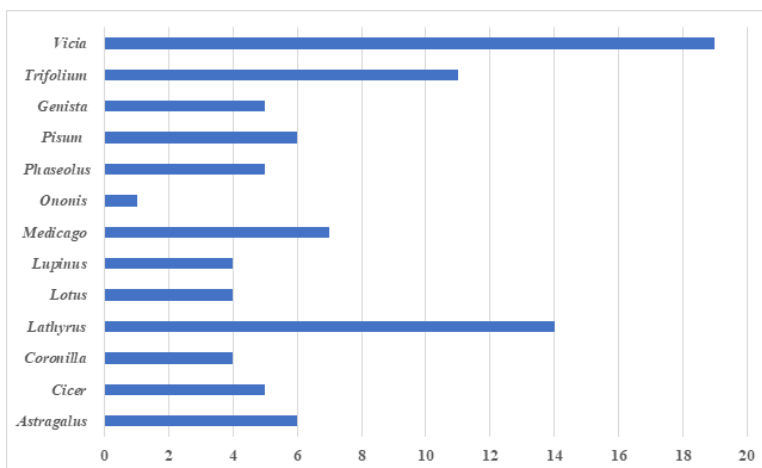


FIGURE 6. Number of Sicilian Bruchinae species living on Fabaceae (FAB) per host plant genus

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## References

- Allard, E. (1868). "Étude sur le groupe des Bruchites d'Europe et du bassin de la Méditerranée". *Annales de la Société Entomologique de Belgique* **11**, 83–124. URL: <https://www.biodiversitylibrary.org/item/45311#page/89/mode/1up>.
- Anton, K. W. (1998). "Revision of the genus *Bruchidius*. Part I: The *B. seminarius* group (Coleoptera: Bruchidae: Bruchinae)." *Stuttgarter Beiträge zur Naturkunde. Ser. A (Biologie)* **573**, 1–13. URL: <https://biostor.org/reference/95766>.
- Anton, K. W. (2010). "Subfamily Bruchinae Latreille, 1802". In: *Catalogue of Palaearctic Coleoptera. Chrysomeloidea*. Ed. by I. Löbl and A. Smetana. Vol. 6. Stenstrup, Denmark: Apollo Books, pp. 339–353.
- Assenza, V. (1892). "Materiali per una fauna entomologica dei dintorni di Noto (Siracusa)". *Il Naturalista Siciliano* **11**, 23–45. URL: <https://www.biodiversitylibrary.org/item/41683#page/35/mode/1up>.
- Audisio, P., Zarazaga, M.-A. A., Slipinski, A., Nilsson, A., Jelínek, J., Taglianti, A. V., Turco, F., Otero, C., Canepari, C., Kral, D., Liberti, G., Sama, G., Nardi, G., Löbl, I., Horak, J., Kolibac, J., Háva, J., Sapiejewski, M., Jäch, M., Bologna, M. A., Biondi, M., Nikitsky, N. B., Mazzoldi, P., Zahradnik, P., Wegrzynowicz, P., Constantin, R., Gerstmeier, R., Zhantiev, R., Fattorini, S., Tomaszewska, W., Rucker, W. H., Vazquez-Albalade, X., Cassola, F., Angelini, F., Johnson, C., Schawaller, W., Regalin, R., Baviera, C., Rocchi, S., Cianferoni, F., Beenen, R., Schmitt, M., Sassi, D., Kippenberg, H., Zampetti, M. F., Trizzino, M., Chiari, S., Carpaneto, G. M., Sabatelli, S., and de Jong, Y. (2015). "Fauna Europaea: Coleoptera 2 (excl. series Elateriformia, Scarabaeiformia, Staphyliniformia and superfamily Curculionoidea)". *Biodiversity Data Journal* **3**, e4750. DOI: [10.3897/BDJ.3.e4750](https://doi.org/10.3897/BDJ.3.e4750).



- Baviera, C. (2007). "First record of *Gonioctena* (Coleoptera Chrysomelidae, Chrysomelinae) in Sicily, with the description of *Gonioctena theae* n. sp." *Italian Journal of Zoology* **74**(4), 389–393. DOI: [10.1080/11250000701650719](https://doi.org/10.1080/11250000701650719).
- Baviera, C. (2008). "Prima segnalazione del genere *Aesalus*, Fabricius, 1801 in Sicilia con descrizione di *Aesalus scarabaeoides siculus* n. ssp. (Coleoptera Lucanidae: Aesalinae)." *Revue Suisse de Zoologie* **115**(3), 585–592. DOI: [10.5962/bhl.part.80447](https://doi.org/10.5962/bhl.part.80447).
- Baviera, C. (2010). "*Alaocyba ientilei* n. sp. (Coleoptera: Curculionoidea, Raymondionymidae) dell'Isola di Marettimo (Isole Egadi, Sicilia)". *Revue Suisse de Zoologie* **117**(1), 11–16. DOI: [10.5962/bhl.part.117584](https://doi.org/10.5962/bhl.part.117584).
- Baviera, C. (2015). "A review of the genus *Solariola* Flach, 1908 (Coleoptera: Curculionidae: Entiminae, Peritelini)". *Zootaxa* **3920**(3), 401–430. DOI: [10.11646/zootaxa.3920.3.1](https://doi.org/10.11646/zootaxa.3920.3.1).
- Baviera, C. and Audisio, P. (2014). "The Nitidulidae and Kateretidae (Coleoptera: Cucujoidea) of Sicily: recent records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **92**(2), A1 [32 pages]. DOI: [10.1478/AAPP.922A1](https://doi.org/10.1478/AAPP.922A1).
- Baviera, C., Bellavista, M., Altadonna, G., Turrise, G., Bella, S., Muscarella, C., and Sparacio, I. (2017). "The Cerambycidae (Coleoptera: Chrysomeloidea) of Sicily: Recent records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **95**(1), A2 [79 pages]. DOI: [10.1478/AAPP.951A2](https://doi.org/10.1478/AAPP.951A2).
- Baviera, C. and Bellò, C. (2016). "The Peritelini (Coleoptera: Curculionidae, Entiminae) of the Vitale collection". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **94**(1), A1 [10 pages]. DOI: [10.1478/AAPP.941A1](https://doi.org/10.1478/AAPP.941A1).
- Baviera, C. and Biondi, M. (2015). "The Alticini (Coleoptera: Chrysomelidae, Galerucinae) of Sicily: recent records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **93**(2), A2 [50 pages]. DOI: [10.1478/AAPP.932A2](https://doi.org/10.1478/AAPP.932A2).
- Baviera, C. and Caldara, R. (2020). "The Curculioninae (Coleoptera: Curculionidae) of Sicily: recent records and updated catalogue". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **98**(1), A1 [79 pages]. DOI: [10.1478/AAPP.981A1](https://doi.org/10.1478/AAPP.981A1).
- Baviera, C. and Liberti, G. (2010). "Dasytidae of the Egadi Archipelago (Coleoptera, Cleroidea) with description of *Danacea hierena* n. sp." *Zootaxa* **2351**, 49–57. URL: <http://www.mapress.com/zootaxa/2010/f/z02351p057.pdf>.
- Baviera, C. and Magnano, L. (2010). "Contribution to the knowledge of the weevil subgenus *Aramichnus* Gozis, genus *Otiorhynchus* Germar (Coleoptera, Curculionidae) from Sicily and the Sicilian islands." *Zootaxa* **2432**, 45–58. URL: <http://www.mapress.com/zootaxa/2010/f/z02432p058.pdf>.
- Baviera, C. and Platia, G. (2018). "The Elateridae (Coleoptera: Elateroidea) excl. Cebrionini and Drilini of Sicily: recent records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **96**(2), A1 [33 pages]. DOI: [10.1478/AAPP.962A1](https://doi.org/10.1478/AAPP.962A1).
- Baviera, C. and Sassi, D. (2020). "The Cassidinae and Cryptocephalini (Coleoptera Chrysomelidae) of Sicily: recent records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **98**(2), A7 [35 pages]. DOI: [10.1478/AAPP.982A7](https://doi.org/10.1478/AAPP.982A7).
- Baviera, C. and Sparacio, I. (2002). "Coleotteri nuovi o poco noti di Sicilia. II". *Il Naturalista Siciliano*. 4th ser. **26**(1-2), 79–94.
- Baviera, C. and Vienna, P. (2019). "The Histeridae (Coleoptera: Histeroidea) of Sicily: new records and updated checklist". *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **97**(2), A7 [34 pages]. DOI: [10.1478/AAPP.972A7](https://doi.org/10.1478/AAPP.972A7).

- Bellò, C. and Baviera, C. (2011). “On the Sicilian species of *Pseudomeira* Stierlin (Coleoptera: Curculionidae: Entiminae)”. *Zootaxa* **3100**, 35–68. URL: <http://www.mapress.com/zootaxa/2011/f/zt03100p068.pdf>.
- Bellò, C., Osella, G., and Baviera, C. (2017). “A taxonomic monograph of the genus *Dodomeira* Bellò & Baviera, a new genus of Peritelini from Sicily (Coleoptera: Curculionidae: Entiminae)”. *Zootaxa* **4334**(1), 1–138. DOI: [10.11646/zootaxa.4334.1.1](https://doi.org/10.11646/zootaxa.4334.1.1).
- Bellò, C., Osella, G., and Baviera, C. (2019). “A taxonomic monograph of the genus *Solariola* Flach, 1908 (Coleoptera: Curculionidae: Entiminae)”. *Zootaxa* **4676**(1), 1–261. DOI: [10.11646/zootaxa.4676.1.1](https://doi.org/10.11646/zootaxa.4676.1.1).
- Biondi, M. (1996). “Proposal for an ecological and zoogeographical categorization of the Mediterranean species of the flea beetle genus *Longitarsus* Berthold.” In: *Chrysomelidae Biology. General Studies*. Ed. by P. H. A. Jolivet and M. L. Cox. Vol. 3. Amsterdam, The Netherlands: SPB Academic Publishing, pp. 13–35.
- Biondi, M., Urbani, F., and D’Alessandro, P. (2013). “Endemism patterns in the Italian leaf beetle fauna (Coleoptera, Chrysomelidae)”. *ZooKeys* **332**, 177–205. DOI: [10.3897/zookeys.332.5339](https://doi.org/10.3897/zookeys.332.5339).
- Blanchard, C. E. (1844). “Communications [Recherches entomologiques faites en Sicile et en Calabre avec description de 35 especes de *Bruchus*]”. *Annales de la Societe Entomologique de France*. Tome Second, Quatrième Trimestre, Séance du 11 Décembre 1844, 78–86. URL: <https://gallica.bnf.fr/ark:/12148/bpt6k6346474k/f556.item>.
- Borowiec, L. (1983). “Survey of seed-beetles of Bulgaria (Coleoptera, Bruchidae)”. *Polskie Pismo Entomologiczne* **53**, 107–127.
- Borowiec, L. (1985). “New synonym and new distributional data of Palaearctic seed-beetles (Coleoptera, Bruchidae)”. *Polskie Pismo Entomologiczne* **55**, 205–207.
- Borowiec, L. (1987). “The genera of seed-beetles (Coleoptera, Bruchidae)”. *Polskie Pismo Entomologiczne* **57**, 3–207.
- Borowiec, L. and Anton, K. W. (1993). “Materials to the knowledge of seed beetles of the Mediterranean Subregion (Coleoptera: Bruchidae)”. *Annals of the Upper Silesian Museum, Entomology* **4**, 99–152.
- Bukejs, A., Tamutis, V., Ferenca, R., and Alekseev, V. I. (2012). “New and insufficiently known leaf-beetle species (Coleoptera: Chrysomelidae) of the Lithuanian fauna. 2”. *Zoology and Ecology* **22** (3–4), 203–211. DOI: [10.1080/21658005.2012.745324](https://doi.org/10.1080/21658005.2012.745324).
- Caldara, R., Casalini, R., and Baviera, C. (2012). “Taxonomic and nomenclatural notes on the *Rhinusa tetra* (Fabricius) species complex (Coleoptera: Curculionidae)”. *Zootaxa* **3329**, 31–40. DOI: [10.11646/zootaxa.3329.1.3](https://doi.org/10.11646/zootaxa.3329.1.3).
- Ciofalo, S. (1886). “Catalogo dei Coleotteri dei dintorni di Termini Imerese posseduti e raccolti dal Professore Saverio Ciofalo”. *Atti dell’Accademia Gioenia di Scienze Naturali in Catania* **19**, 181–212. URL: <https://www.biodiversitylibrary.org/item/30356#page/209/mode/1up>.
- De Bertolini, S. (1872). *Catalogo Sinonimico e Topografico dei Coleotteri d’Italia*. Firenze: Tipografia Cenniniana. URL: <https://www.biodiversitylibrary.org/item/36632#page/9/mode/1up>.
- De Luca, Y. (1960). “Au sujet de *Bruchidius algiricus* All. et *Bruchidius incarnatus* Boh. (Col. Bruchidae)”. *Algerian Annals of Agronomy* **2**(2), 3–12. URL: <https://www.asjp.cerist.dz/en/article/15090>.
- Delobel, A. (2004). “Les types de *Bruchidius* décrits par Émile Blanchard (Coleoptera, Bruchidae)”. *Revue Française d’Entomologie (NS)* **26**(4), 165–173. URL: <http://home.sandiego.edu/~gmorse/pdfs/469003.pdf> (visited on 02/15/2024).
- Delobel, B. and Delobel, A. (2003). “Les plantes hôtes des bruches (Coleoptera Bruchidae) de la faune de France, une analyse critique”. *Bulletin Mensuel de la Société Linnéenne de Lyon* **72**(6), 199–221. URL: [https://www.persee.fr/doc/linly\\_0366-1326\\_2003\\_num\\_72\\_6\\_13471](https://www.persee.fr/doc/linly_0366-1326_2003_num_72_6_13471).

- Delobel, B. and Delobel, A. (2005). “Les plantes hôtes des bruches (Coleoptera Bruchidae): données nouvelles et corrections.” *Bulletin Mensuel de la Société Linnéenne de Lyon* **74** (7-8), 277–291. URL: [https://www.persee.fr/doc/linly\\_0366-1326\\_2005\\_num\\_74\\_7\\_13607](https://www.persee.fr/doc/linly_0366-1326_2005_num_74_7_13607).
- Delobel, B. and Delobel, A. (2007). “Contribution to the knowledge of Bulgarian seed beetles (Coleoptera: Bruchidae)”. *Russian Entomological Journal* **16**(2), 213–218. URL: [https://kmkjournals.com/upload/PDF/REJ/16/ent16\\_2%20213\\_218%20Delobel\\_Delobel.pdf](https://kmkjournals.com/upload/PDF/REJ/16/ent16_2%20213_218%20Delobel_Delobel.pdf).
- Fiori, A. (1906). “Una breve escursione in Sicilia”. *Il Naturalista Siciliano* **18**(3), 200–211. URL: <https://www.biodiversitylibrary.org/item/42593#page/256/mode/1up>.
- ICZN (1995). “*Bruchus* Linnaeus, 1767, *Ptinus* Linnaeus, 1767 and *Mylabris* Fabricius, 1775 (Insecta, Coleoptera): conserved”. *Bulletin of Zoological Nomenclature* **52**(2), 208–210. URL: <https://www.biodiversitylibrary.org/partpdf/6772>.
- Jelínek, J., Audisio, P., Hájek, J., Baviera, C., Moncoutier, B., Barnouin, T., Brustel, H., Genç, H., and Leschen, R. A. B. (2016). “*Epuraea imperialis* (Reitter, 1877). New invasive species of Nitidulidae (Coleoptera) in Europe, with a checklist of sap beetles introduced to Europe and Mediterranean areas”. *Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali* **94**(2), A4 [24 pages]. DOI: [10.1478/AAPP.942A4](https://doi.org/10.1478/AAPP.942A4).
- Jolivet, P. (2015). “Together with 30 years of Symposia on Chrysomelidae! Memories and personal reflections on what we know more about leaf beetles”. *ZooKeys* **547**: *Research on Chrysomelidae* 5. Ed. by P. Jolivet, J. Santiago-Blay, and M. Schmitt, 35–61. DOI: [10.3897/zookeys.547.7181](https://doi.org/10.3897/zookeys.547.7181).
- Liebmann, W. (1962). “Ein Beitrag zur Käferfauna von Pantelleria”. *Stuttgarter Beiträge zur Naturkunde. Ser. A (Biologie)* **87**, 1–6. URL: <https://www.biodiversitylibrary.org/item/104640#page/77/mode/1up>.
- Lo Cascio, P. (2004). “Preliminary observations on the insect fauna associated with two threatened plant species, *Bassia saxicola* (Guss.) A. J. Scott and *Cytisus Aeolicus* Guss., on the Aeolian Islands (Southern Tyrrhenian sea)”. *Il Naturalista Siciliano*. 4th ser. **28** (3-4), 1155–1169. URL: [https://www.ssn.it/PDF/PDF%20Nat.%20sic.%203-4%202004/LoCascio\\_1155-1169.pdf](https://www.ssn.it/PDF/PDF%20Nat.%20sic.%203-4%202004/LoCascio_1155-1169.pdf).
- Lo Cascio, P., Altadonna, G., and Ponel, P. (2022). “Diversity and distribution of beetles in a Mediterranean volcanic archipelago: an updated checklist of the Coleoptera of the Aeolian Islands (Sicily, Italy)”. *Biodiversity Journal* **13**(3), 531–585. DOI: [10.31396/Biodiv.Jour.2022.13.3.531.585](https://doi.org/10.31396/Biodiv.Jour.2022.13.3.531.585).
- Lo Cascio, P., Cecchi, B., Abbazzi, P., and Arnone, M. (2006). “A contribution to the knowledge of the Coleoptera of the Aeolian Islands (*Insecta Coleoptera*)”. *Il Naturalista Siciliano*. 4th ser. **30**(2), 315–341. URL: [http://www.ssn.it/PDF/PDF%20Nat.%20Sic.%202%202006/Lo%20Cascioetalii\\_315-341.pdf](http://www.ssn.it/PDF/PDF%20Nat.%20Sic.%202%202006/Lo%20Cascioetalii_315-341.pdf).
- Luigioni, G. and Tirelli, A. (1913). “Una settimana in Sicilia. Escursione entomologica nei dintorni di Palermo e nei boschi di Ficuzza”. *Bollettino della Società Entomologica Italiana* **44**, 148–167.
- Luigioni, P. (1929). “I coleotteri d’Italia. Catalogo sinonimico-topografico-bibliografico”. *Memorie della Pontificia Accademia delle Scienze. I Nuovi Lincei*. 2nd ser. **13**, 1–1160.
- Lundberg, S., Palm, T., and Trottestam, O. (1987). “Skalbaggstudier på Siciliens norkust. I. Ekskog vid Gibilmanna”. *Entomologisk Tidskrift* **108**, 45–54.
- Magrini, P. and Baviera, C. (2011). “Note sulle *Typhloreicheia* (Holdhaus, 1924) siciliane del “gruppo *praecox*” con descrizione di una nuova specie (Coleoptera Carabidae: Scaritinae)”. *Revue Suisse de Zoologie* **118**(2), 329–343. DOI: [10.5962/bhl.part.117813](https://doi.org/10.5962/bhl.part.117813).
- Pic, M. (1913). “Bruchidae”. In: *Coleopterorum Catalogus*. Ed. by W. Junk and S. Schenkling. Pars 55. Berlin, Germany. URL: <https://www.biodiversitylibrary.org/item/38595#page/9/mode/1up>.
- Porta, A. (1934). *Fauna Coleopterorum Italica. Heteromera - Phytophaga*. Vol. 4. Piacenza: Stabilimento Tipografico Piacentino.
- Ragusa, E. (1875). “Gita entomologica all’isola di Pantelleria”. *Bollettino della Società Entomologica italiana* **7**, 238–256. URL: <https://www.biodiversitylibrary.org/item/81159#page/254/mode/1up>.

- Raimondo, F. M., Domina, G., and Spadaro, V. (2010). “Checklist of the vascular flora of Sicily”. *Quaderni di Botanica Ambientale Applicata* **21**, 189–252. URL: <https://www.centroplantapalermo.org/quaderni/21-189.pdf>.
- Ricci, M. S. and Zampetti, M. F. (2005). “Contributo alla conoscenza dei bruchidi dell’Europa (Coleoptera Bruchidae)”. *Entomologica* (39), 121–167. DOI: [10.15162/0425-1016/772](https://doi.org/10.15162/0425-1016/772).
- Rottenberg, A. (1871). “Beiträge zur Coleopteren-Fauna von Sicilien”. *Deutsche Entomologische Zeitschrift (Berliner Entomologische Zeitschrift und Deutsche Entomologische Zeitschrift in Vereinigung)* **15**, 225–248. URL: [https://www.zobodat.at/pdf/Deutsche-Ent-Zeitschrift\\_15\\_0225-0248.pdf](https://www.zobodat.at/pdf/Deutsche-Ent-Zeitschrift_15_0225-0248.pdf).
- Slipinski, S. A., Leschen, R. A. B., and Lawrence, J. F. (2011). “Order Coleoptera Linnaeus, 1758. In: *Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness*. Ed. by Zhang, Z.-Q”. *Zootaxa* **3148**, 203–208. URL: <http://www.mapress.com/zootaxa/2011/ftzt03148p208.pdf>.
- Solano, E., Arno, T., Karen, C., Carpaneto, G. M., Cortellessa, S., Baviera, C., Bartolozzi, L., Zilioli, M., Casiraghi, M., Audisio, P., and Antonini, G. (2016). “When morphological identification meets genetic data: the case of *Lucanus cervus* and *L. tetraodon* (Coleoptera, Lucanidae)”. *Journal of Zoological Systematics and Evolutionary Research* **54**(3), 197–205. DOI: [10.1111/jzs.12124](https://doi.org/10.1111/jzs.12124).
- Toma, L., Yus Ramos, R., Severini, F., Di Luca, M., Mei, M., and Zampetti, M. F. (2017). “First record of *Bruchidius raddianae* in Italy: infested seeds of *Vachellia karroo* from Lampedusa island (Coleoptera: Bruchidae; Fabales: Fabaceae)”. *Fragmenta Entomologica* **49**(1), 89–91. DOI: [10.13133/2284-4880/236](https://doi.org/10.13133/2284-4880/236).
- Toševski, I., Caldara, R., Jović, J., Baviera, C., Hernández-Vera, G., Gassmann, A., and Emerson, B. C. (2014). “Revision of *Mecinus heydenii* species complex (Curculionidae): integrative taxonomy reveals multiple species exhibiting host specialization”. *Zoologica Scripta* **43**(1), 34–51. DOI: [10.1111/zsc.12037](https://doi.org/10.1111/zsc.12037).
- Toševski, I., Caldara, R., Jović, J., Hernández-Vera, G., Baviera, C., Gassmann, A., and Emerson, B. C. (2011). “Morphological, molecular and biological evidence reveal two cryptic species in *Mecinus janthinus* Germar (Coleoptera, Curculionidae), a successful biological control agent of Dalmatian toadflax, *Linaria dalmatica* (Lamiales, Plantaginaceae)”. *Systematic Entomology* **36**(4), 741–753. DOI: [10.1111/j.1365-3113.2011.00593.x](https://doi.org/10.1111/j.1365-3113.2011.00593.x).
- Toševski, I., Caldara, R., Jović, J., Hernández-Vera, G., Baviera, C., Gassmann, A., and Emerson, B. C. (2015). “Host associated genetic divergence and taxonomy in the *Rhinusa pilosa* Gyllenhal species complex: an integrative approach”. *Systematic Entomology* **40**(1), 268–287. DOI: [10.1111/syen.12109](https://doi.org/10.1111/syen.12109).
- Vigna Taglianti, A., Audisio, P., Belfiore, C., Biondi, M., Bologna, M. A., Carpaneto, G. M., De Biase, A., De Felici, S., Piattella, E., Racheli, T., Zapparoli, M., and Zoia, S. (1993). “Riflessioni di gruppo sui corotipi fondamentali della fauna W-paleartica ed in particolare italiana”. *Biogeographia* **16**, 159–179. DOI: [10.21426/B616110375](https://doi.org/10.21426/B616110375).
- Vigna Taglianti, A., Audisio, P., Biondi, M., Bologna, M. A., Carpaneto, G. M., De Biase, A., Fattorini, S., Piattella, E., Sindaco, R., Venchi, A., and Zapparoli, M. (1999). “A proposal for a chorotype classification of the Near East Fauna, in the framework of the Western Palearctic region”. *Biogeographia* **20**, 31–59. DOI: [10.21426/B6110172](https://doi.org/10.21426/B6110172).
- Vitale, F. (1902). “Un giorno di caccia entomologica”. *Rivista Italiana di Scienze Naturali* **22** (3-4), 38–40. URL: <https://www.biodiversitylibrary.org/item/127830#page/46/mode/1up>.
- Vitale, F. (1903). “Notizie di caccia”. *Bollettino del Naturalista* **23** (5-6), 66–67. URL: <https://archive.org/details/rivistaitalianad2325sien/page/n275/mode/2up>.
- Vitale, F. (1921). “Catalogo dei coleotteri di Sicilia”. Coleotteri nuovi per la Sicilia. *Atti della Reale Accademia Peloritana* **29**, 33–43.

- Vitale, F. (1932). “Coleotteri nuovi o poco noti di Sicilia”. *Bollettino della Società Entomologica Italiana* **64**, 35–40.
- Vitale, F. (1940). “Nuovi acquisti per la fauna entomologica sicula”. *Atti della Reale Accademia Peloritana. Classe di Scienze Fisiche, Matematiche e Biologiche* **42**, 170–183. URL: <https://cab.unime.it/mus/2131/>.
- Yus Ramos, R. (2007). “Las especies de *Bruchidius* Schilsky del grupo *serraticornis*: revisión de la fauna ibero-baleár (Coleoptera: Bruchidae)”. *Boletín de la Sociedad Entomológica Aragonesa* **41**, 321–333. URL: [http://sea-entomologia.org/Publicaciones/PDF/BOLN41/321\\_333\\_BSEA\\_41\\_Bruchidius.pdf](http://sea-entomologia.org/Publicaciones/PDF/BOLN41/321_333_BSEA_41_Bruchidius.pdf).
- Yus Ramos, R. (2008). “Catálogo comentado de los brúquidos de las islas Canarias (Coleoptera: Bruchidae)”. *Vieraea* **36**, 29–54. URL: <https://www.museosdetenerife.org/muna-museo-de-naturaleza-y-arqueologia/vieraea-36-2008/>.
- Yus Ramos, R. (2010a). “Catálogo comentado de brúquidos de la provincia de Málaga (España) (Coleoptera: Bruchidae)”. *Boletín de la Asociación Española de Entomología* **34**(3-4), 353–393. URL: <https://www.entomologica.es/publicaciones-boletin/art985>.
- Yus Ramos, R. (2010b). “Correcciones al Catálogo de Coleópteros Bruchinae Paleárticos de Löbl & Smetana (Coleoptera: Bruchidae). Boletín de la Asociación española de Entomología”. *Boletín de la Asociación Española de Entomología* **34**(1-2), 219–234. URL: <https://www.entomologica.es/publicaciones-boletin/en/art938>.
- Yus Ramos, R. (2013). “*Serratobruchidius*, un género nuevo de Bruchidiini para los *Bruchidius* Schilsky (s.l.) del grupo *serraticornis* (Coleoptera: Bruchidae)”. *Boletín de la Sociedad Entomológica Aragonesa* **52**, 17–21. URL: <http://sea-entomologia.org/PDF/Boletin52/017021BSEA52SerratobruchusgennBruchidae.pdf>.
- Yus Ramos, R. and Angelini, F. (2019). “Contribución al conocimiento de los brúquidos (Coleoptera, Bruchidae) de Grecia”. *Boletín de la Asociación Española de Entomología* **42**(3-4), 351–389. URL: <https://www.entomologica.es/publicaciones-boletin/art1751>.
- Yus Ramos, R. and Gavira Romero, O. (2011). “Los escarabajos de las semillas (Coleoptera: Bruchidae) del valle del Genal (Málaga, España)”. *Boletín de la Sociedad Entomológica Aragonesa* **49**(3-4), 119–126. URL: [http://sea-entomologia.org/Publicaciones/PDF/BOLN\\_49/119126BSEA49BruchidaeValleGenil.pdf](http://sea-entomologia.org/Publicaciones/PDF/BOLN_49/119126BSEA49BruchidaeValleGenil.pdf).
- Yus Ramos, R. and Gavira Romero, O. (2013). “Contribución al conocimiento de los brúquidos (Coleoptera: Bruchidae) del valle del Genal (Málaga, España): especies de la subfamilia Amblycerinae”. *Boletín de la Sociedad Entomológica Aragonesa* **52**(3-4), 229–233. URL: <http://sea-entomologia.org/PDF/Boletin52/229233BSEA52BruquidosGenal.pdf>.
- Yus Ramos, R. and Lencina Gutiérrez, J. L. (2014). “Catálogo preliminar de los brúquidos (Coleoptera: Bruchidae) de la región de Murcia (España)”. *Boletín de la Sociedad Entomológica Aragonesa* **55**(3-4), 197–203. URL: <http://sea-entomologia.org/Publicaciones/Boletines/Boletin55/Boletin55/197203BSEA55BruquidosMurcia.pdf>.
- Yus Ramos, R. and Pérez Onteniente, A. (2015). “Catálogo provisional y comentado de los brúquidos de la comunidad Valenciana (España) (Coleoptera: Bruchidae)”. *Boletín de la Sociedad Entomológica Aragonesa* **57**(3-4), 262–268. URL: [http://www.sea-socios.com/Boletines/PDF/Boletin57/262\\_268BSEA57BruchidaeValencia.pdf](http://www.sea-socios.com/Boletines/PDF/Boletin57/262_268BSEA57BruchidaeValencia.pdf).
- Yus Ramos, R., Pérez Ortigosa, A. M., and Coello García, P. (2008). “Siete nuevos fitohuéspedes de brúquidos (Coleoptera: Bruchidae) de la fauna ibero-baleár”. *Boletín de la Asociación Española de Entomología* **32**(1-2), 161–166. URL: <https://www.entomologica.es/publicaciones-boletin/art894>.
- Yus Ramos, R. and Sáez Bolaño, J. A. (2008). “Catálogo comentado de los brúquidos de la provincia de Badajoz (España) (Coleoptera: Bruchidae)”. *Boletín de la Sociedad Entomológica Aragonesa* **43**(3-4), 379–386. URL: [http://sea-entomologia.org/Publicaciones/PDF/BOLN43/379\\_386BSEA43BruquidosBadajoz.pdf](http://sea-entomologia.org/Publicaciones/PDF/BOLN43/379_386BSEA43BruquidosBadajoz.pdf).

- Yus Ramos, R. and Zuzarte, A. J. (2008). “Catálogo preliminar de brúquidos de Portugal (Coleoptera: Bruchidae)”. *Boletín de la Asociación Española de Entomología* **32**(3-4), 263–291. URL: [http://www.coleoptera-neotropical.org/BIBLIOTECAJEBT/pdf/bruchidae/Yus, %20R. R. - A. J. %20Zuzarte.%202008.pdf](http://www.coleoptera-neotropical.org/BIBLIOTECAJEBT/pdf/bruchidae/Yus,%20R.-A.J.%20Zuzarte.%202008.pdf).
- Zampetti, M. F. (1995a). “Bruchidae (generi 157-163)”. In: *Checklist delle Specie della Fauna Italiana. Coleoptera Polyphaga XV (Chrysomelidae, Bruchidae)*. Ed. by A. Minelli, S. Ruffo, and S. La Posta. Vol. 60. Bologna: Calderini. URL: <https://www.comitato.faunaitalia.it/docs/F60.docx> (visited on 02/13/2024).
- Zampetti, M. F. (1995b). “Coleoptera Bruchidae”. *Il Naturalista Siciliano*. 4th ser. **19** (Suppl.): *Arthropoda di Lampedusa, Linosa a Pantelleria (Canale di Sicilia, Mar Mediterraneo)*. Ed. by B. Massa, 591–596. URL: <https://www.ssn.it/PDF/PDF%20NS%2019suppl/19suppl.pdf>.
- Zampetti, M. F. (2017). *Fauna Europaea: Coleoptera Polyphaga, Cucujiformia, Chrysomeloidea, Chrysomelidae, Bruchinae*. (version 2017.06).
- Zampetti, M. F. and Ricci, M. S. (2012). *Guida ai Coleotteri Bruchidi della Fauna Italiana. Sistematica e Biologia. Gestione e Controllo*. Roma: Darwin Edizioni.
- Zampetti, M. F. and Toma, L. (2020). “Description of seven new species of seed beetles (Coleoptera Bruchidae) from Mediterranean basin and Africa”. *Biodiversity Journal*. 4th ser. **11**(2), 553–564. URL: <https://doi.org/10.31396/Biodiv.Jour.2020.11.2.553.564>.
- Zhang, H., Song, N., and Yin, X. (2022). “Higher-level phylogeny of Chrysomelidae based on expanded sampling of mitogenomes”. *PLOS ONE* **17**(1), e0258587. DOI: [10.1371/journal.pone.0258587](https://doi.org/10.1371/journal.pone.0258587).

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