







# A preliminary checklist of saproxylic beetles (Coleoptera) in the Hyrcanian forests of Iran, with distributional data

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## Abstract

Saproxylic beetles play a vital role in conservation as indicators of the status of unmanaged forests. In light of the concern regarding the adverse impact of anthropogenic pressure on biodiversity, an essential step in forest conservation strategy is the identification of saproxylic beetles. The Hyrcanian forests are a unique remnant of natural broadleaf temperate forests, with an evolutionary history that can be traced to the Tertiary and a high diversity tree species. Here we present the first checklist of saproxylic beetles in the Hyrcanian forests, including 398 species of saproxylic beetles, belonging to 207 genera and 46 families, identified by us. Based on our results and literature data, at least 670 saproxylic beetles occur in the Hyrcanian forests. The bias in our results towards some families supports the view that the detection of additional species can be expected, particularly from the forests with a greater diversity of tree species.

## Keywords

Biodiversity, decay wood, forest, saproxylic organism, survey

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## Introduction

Saproxyllic organisms include insects, fungi, and vertebrates that rely for at least part of their life cycle on dead or decaying wood (Müller et al. 2018). The amount of deadwood in forests affects the species composition and functional characteristics of saproxyllic insects such that it often correlates with the biodiversity of this group (Seibold and Thorn 2018). Saproxyllic beetles feed on the wood of dead, decaying, or weakened trees belonging to many species and on wood-inhabiting fungi (Alexander 2008; Fowels and Alexander 2016). By recycling nutrient material, they play an important role in forest ecosystem (Buse et al. 2009; Mico et al. 2011; Stokland et al. 2012; Ulyshen 2012) and can be considered as bioindicators of forest health (Wermelinger et al. 2002). However, with the increasing management and exploitation of forests throughout the world, saproxyllic beetles and saproxyllic organisms in general, are at high risk of extinction (Geisser 1998).

Several studies have investigated saproxyllic beetle populations in Europe (Götmark and Kiffer 2014; Gosner et al. 2016; Miklin et al. 2018). Among the ~29,000 beetle species in Europe, saproxyllic beetles account for ~4000 species (Audisio et al. 2015; Cáliz et al. 2018). Comparative studies on saproxyllic beetles in southern Sweden and in Turkey have shown a greater number of species at Turkish sites and their high forest-conservation value (Jansson and Coskun 2008). In a study of the Tugai forest in Kazakhstan, 91 saproxyllic species were identified, with most of them belonging to the families of Buprestidae, Curculionidae, and Cerambycidae (Borissova 2018). However, despite the importance of saproxyllic beetles in forest conservation, little is known about their populations in many countries, including Iran (Müller et al. 2018). Thus far, nearly 270 species of saproxyllic beetles have been recorded in Iran's Mazandaran province, most of them associated with decaying wood (Haghverdi et al. 2013; Müller et al. 2018). These species feed on different host plants and most have been identified as bark and wood-boring beetles.

The Hyrcanian forests cover a unique, high-diversity region in need of special protection. However, the saproxyllic beetles of the Hyrcanian forests, and their important role, has not been well studied. Here we present the first checklist of saproxyllic beetles, including distributional data, of the Hyrcanian forests of Iran.

## Study Area

The Hyrcanian forests of Iran, located at the southern end of the Caspian Sea, comprise one of the largest temperate forests in the world. In 2019, the forests were designated as a Natural Heritage Site. Across the elevation gradient of the forests, the middle altitude zone is dominated by Oriental Beech (*Fagus orientalis* Lipsky). The forests are isolated by surrounding deserts, steppe,

and the sea, and they are characterized by a high diversity. The old-growth features of many of these forests account for the presence of many endemic species (Jalili and Jamzad 1999; Sagheb Talebi 2014). The Hyrcanian forests are a unique remnant of natural broadleaf temperate forests, with an evolutionary history that can be traced to the Tertiary and a high diversity of tree species. Across the elevation gradient, middle-altitude forests are dominated by *F. orientalis*.

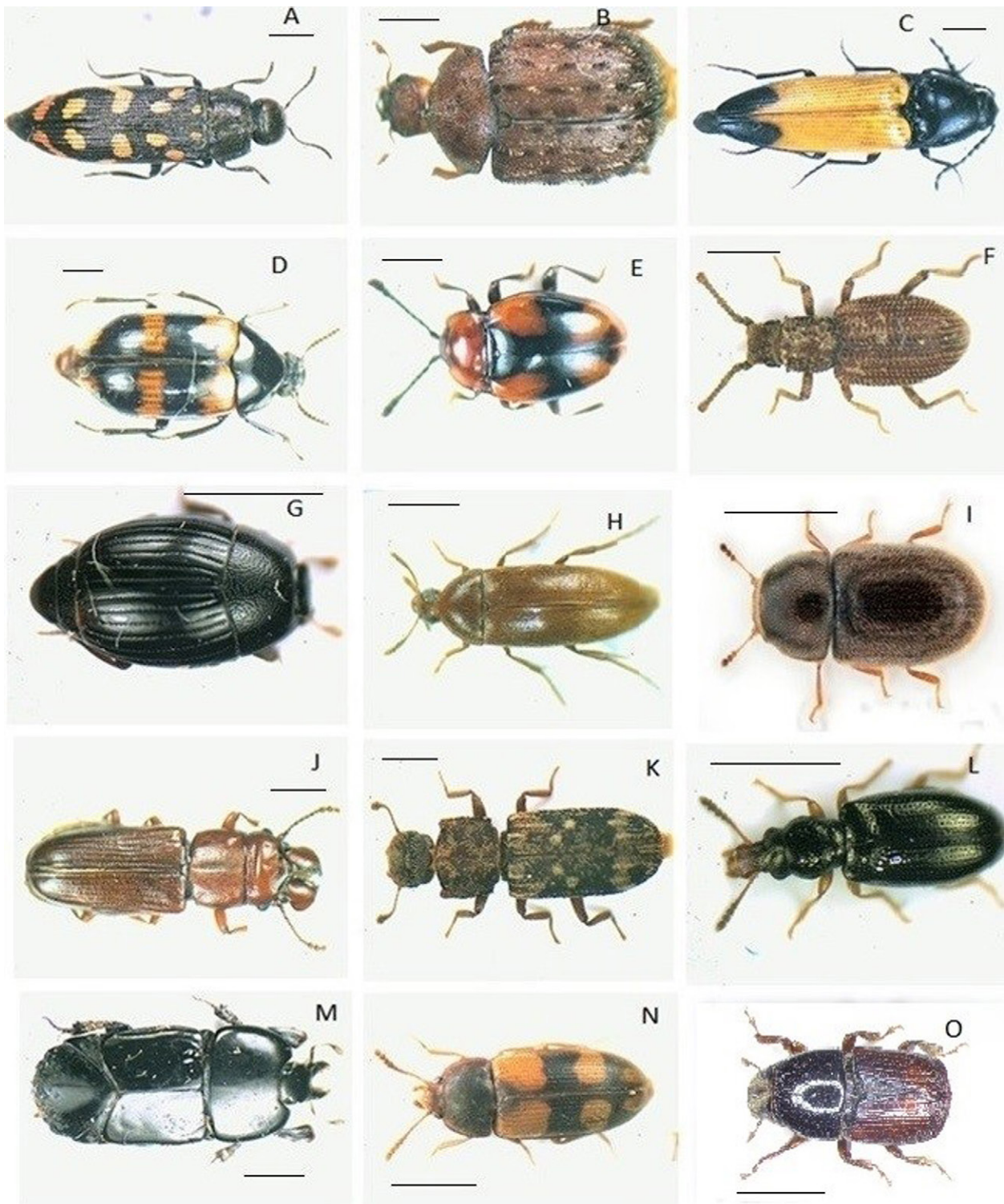
## Methods

Our survey of saproxyllic beetles was carried out during extensive studies in Hyrcanian forests in Guilan, Mazandaran, and Golestan provinces between 2012 and 2018. Specimens were collected using pitfall and window traps, with sampling conducted monthly from April to November. The host plants mostly included old beech, oak, and hornbeam trees and logs; COLlected specimens were kept in vials and identified morphologically by expert taxonomists: Vladimír Novák (Alleculinae), Heiko Gebhardt and Sudabe Amini (Scolytinae), Peter Sprick and Lutz Behne (Curculionidae), Mikhail Danilevsky (Cerambycidae), Dirk Rohwedder (Cetoniidae), Volker Assing (Staphylinidae), Wolfgang H. Rucker (Latridiidae), Marcin Kadej (Dermestidae), Johannes Reibnitz (Ciidae), Isidor Plonski (Melyridae), Ivan Löbl (Scaphidiidae), Jens Esser (Cryptophagidae), Boris Büche (Anobiinae, Dorcatominae, Ernobiinae, Eucradinae, Ptilinae), Alexander G. Kirejtshuk (Nitidulidae), and Rüdiger Peschel (Histeridae). The classification follows the modern taxonomy of the Coleoptera according to Löbl and Semanta (2003–2020) and Alonso-Zarazaga et al. (2017).

Specimens have been deposited in the Museum of Research Institute of Forest and Rangeland, Tehran, Iran. The checklist provided here is largely based on sampling but also on our review of the literature up to 2020. The final list is presented alphabetically, by genus, and species. Geographical coordinates, elevation, host plant, and world distribution data for each collected species are detailed separately.

## Results

Thus far, 670 saproxyllic beetle species belonging to 207 genera and 46 families have been identified in the Hyrcanian forests. Of these, 398 species were collected by us for this project (Figs. 1–3). The families with the highest abundances are Cerambycidae, Buprestidae, Staphylinidae, and Curculionidae (Fig.4). A summary of these findings and those obtained from literature records of saproxyllic beetles in the Hyrcanian forests are given in Table 1. The checklist also reports the distribution and host plant of each species.



**Figure 1.** Some saproxylic beetles collected from Hyrcanian forests. **A.** *Acmaeodera rufoguttata*. **B.** *Aesalus ulanowski*. **C.** *Ampedus elegantulus*. **D.** *Diaperis boleti*. **E.** *Mycetina cruciata*. **F.** *Rhopalocerus rondani*. **G.** *Epiurus comptus*. **H.** *Orchesia luteipalpis*. **I.** *Cis tomentosus*. **J.** *Prostomis elburica*. **K.** *Niphopelta imperialis*. **L.** *Salpingus planirostris*. **M.** *Hololofta plana*. **N.** *Mycetophagus mycetophagus*. **O.** *Scolytus ecksteini*. Scale bars = 1 mm.

Family Carabidae Latreille, 1802

Genus *Clinidium* Kirby, 1835

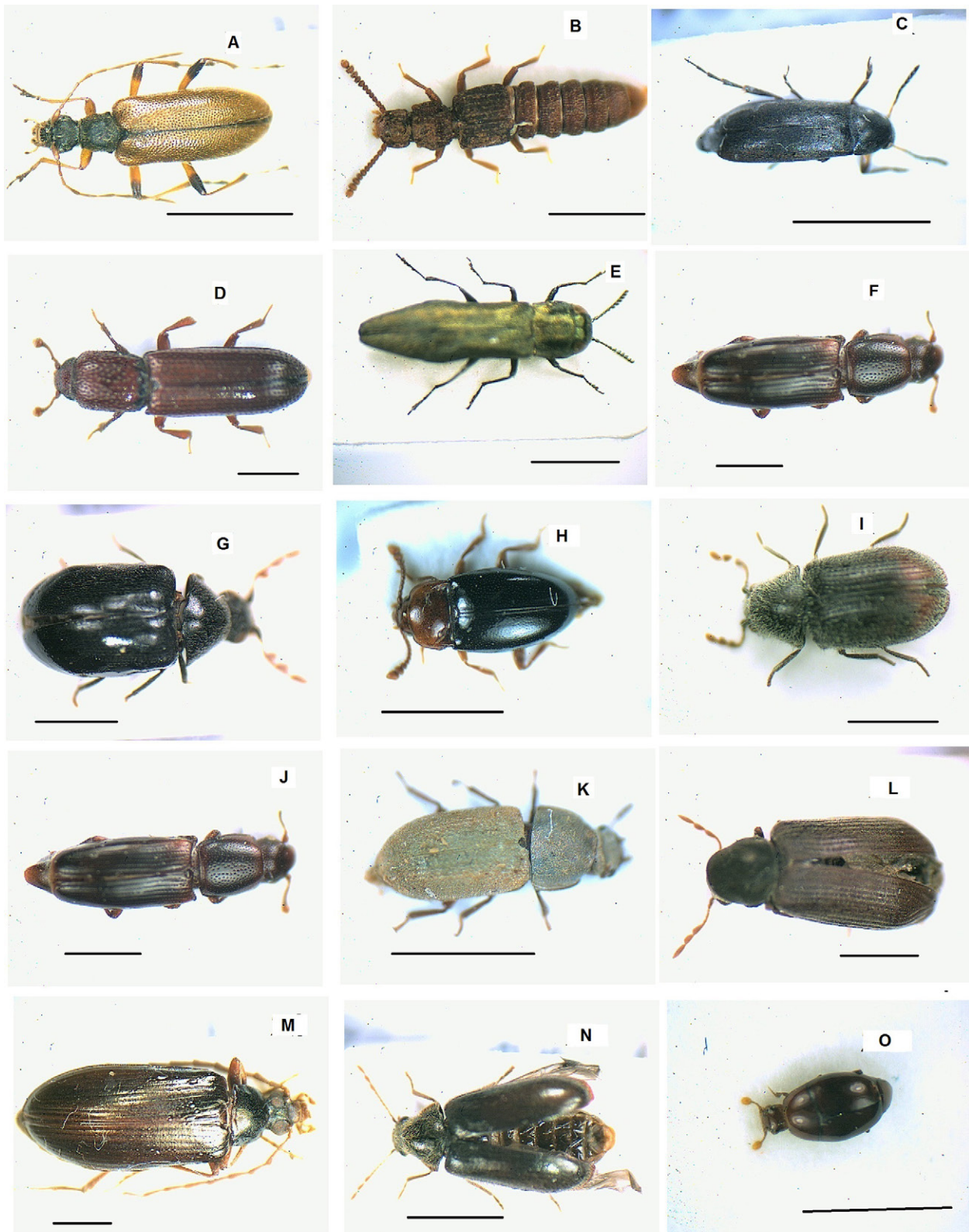
***Clinidium marginicolle* Reitter, 1889**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; 1 spec.; on *Alnus subcordata* • Chalandar;

36°32'32.0"N, 051°38'43.8"E; 1105 m; 2014; leg. Thorn. 12 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43 '25"N, 054°38'26"E; 983 m; 2018; on *Fagus orientalis*; leg. Rafiei-Jahed; 3 spec.; COL-246672018; leg. Thorn; 2 spec.

**Distribution.** Azerbaijan, Iran (Bell 2008; Huber et al. 2017).





**Figure 2.** Some saproxylic beetles collected from Hyrcanian forests. **A.** *Cortodera crataegi*, **B.** *Toracophorus certicinus*, **C.** *Anaspis frontalis*, **D.** *Oxylaemus cylindricus*, **E.** *Agrilus graminis*, **F.** *Rizhophagus oblongicollis*, **G.** *Dorcatoma robusta*, **H.** *Aeletes aomarius*, **J.** *Rizhophagus oblongicollis*, **K.** *Cis rugulosus*, **L.** *Hyperisus plumberun*, **M.** *Hemicoelus rufipennis*, **N.** *Gonodia gilanicca*, **O.** *Aeletes aomarius*. Scale bars = 1 mm.

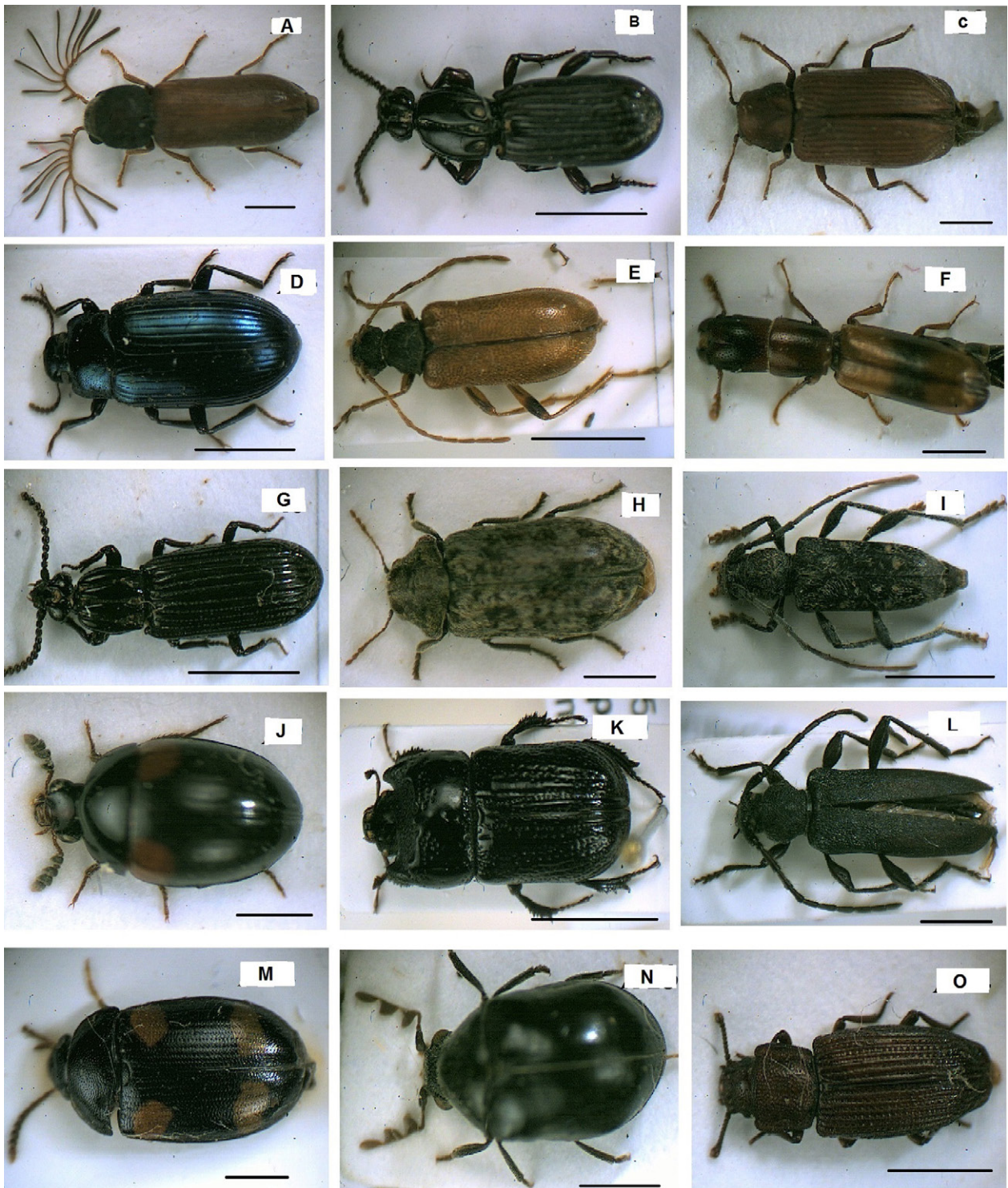
Genus *Omoglymmius* Ganglbauer, 1892

***Omoglymmius germari* (Ganglbauer, 1891)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; 4 spec.; on *Alnus subcordata*

• Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1749 m; 2015; 8 spec.; on *Carpinus betulus* • Sari, Dodangeh–Pardkola–Nejim; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; 2 spec.; on *Fagus orientalis* • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn. 15 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E;





**Figure 3.** Some saproxylic beetles collected from Hyrcanian forests. **A.** *Ptilinus pectinicornis*. **B.** *Clinidium marginicolle*, **C.** *Hemicoelus fulvicornis*, **D.** *Metaclysa viridis*, **E.** *Corrodera pumila*, **F.** *Nemozoma caucasicum*, **G.** *Omoglymmius germari* **H.** *Mycetophagus multipunctatus*, **I.** *Paraclytus reitteri*, **J.** *Anisotoma axillaris*, **K.** *Sinodendrn persicum*, **L.** *Ropalopus macropus*, **M.** *Mycetophagus quadripustulatus*, **N.** *Dorcatoma robusta*, **O.** *Pycnomerus serbans*. Scale bars = 1 mm.

2014; leg. Thorn; 2 spec. • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; 2 spec.; on *Fagus orientalis*; COL-24668.

**Distribution.** Armenia, Austria, Azerbaijan, Bulgaria, France, Georgia, Germany, Hungary, Iran, Italy, Macedonia, Poland, Romania, Russia, Ukraine, Turkey (Bell 2008; Huber et al. 2017).

Family Histeridae Gyllenhal, 1808

Genus *Abraeus* Leach, 1817

***Abraeus areolatus* Reitter, 1884**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'07"N, 054°39'44"E; 886 m; 2018; leg. Rafiei-Jahed; 2 spec.; on *Fagus orientalis*; COL-24669.

**Distribution.** Azerbaijan, Iran (Lackner et al. 2015)

**Table 1.** List of saproxylic beetles in Hyrcanian forests, Iran. Sources: X = this study 1 = Amini et al. 2020b; 2 = Amini et al. 2020c; 3 = Amini et al. 2017; 4 = Amini and Nozari 2016; 5 = Amini et al. 2016; 5 = Amini et al. 2013; 6 = Anlas and Newton 2010; 7 = Bartolozzi et al. 2014; 8 = Beaver et al. 2016; 9 = Fanti and Ghahari 2016; 10 = Farhangian et al. 2013; 11 = Esser et al. 2018; 12 = Ghahari et al. 2011; 13 = Ghahari et al. 2015; 14 = Ghahari et al. 2017a; 15 = Ghahari et al. 2017b; 16 = Ghahari and Legalov 2018; 17 = Ghahari and Colloneilli 2019; 18 = Jelínek 1981; 19 = Lason and Ghahari 2013; 20 = Liu et al. 2016; 21 = Mirutenko and Ghahari 2016; 22 = Müller et al. 2018; 23 = Otero et al. 2017; 24 = Platia 2013; 25 = Platia and Ghahari 2016; 26 = Ruzzier et al. 2017; 27 = Sama et al. 2008; 28 = Samin et al. 2011; 29 = Samin et al. 2018; 30 = Thomas and Ghahari 2016; 31 = Vinolas and Ghahari 2017; 32 = Zappi and Ghahari 2016. \* = in this study and in the literature

Family	Species	Source	Family	Species	Source
Carabidae	<i>Omoglymmius germari</i> (Ganglbauer, 1891)	X	Staphylinidae	<i>Phloeostiba plana</i> (Paykull, 1792)	X
Carabidae	<i>Clinidium marginicollis</i> Reitter, 1889	X	Staphylinidae	<i>Philonthus intermedius</i> (Lacordaire 1835)*	6
Histeridae	<i>Abraeus parvulus</i> Aubé, 1842	X	Staphylinidae	<i>Philonthus nitidicollis</i> (Lacordaire 1835)*	6
Histeridae	<i>Abraeus areolatus</i> Reitter, 1884*	14	Staphylinidae	<i>Quedius microps</i> Gravenhorst, 1847	X
Histeridae	<i>Abraeus perpusillus</i> (Marsham, 1802)	X	Staphylinidae	<i>Quedius cinctus</i> (Paykull, 1790)	X
Histeridae	<i>Cyclobacanius soliman</i> (Marseul, 1862)*	14	Staphylinidae	<i>Quedius cruentus</i> (Olivier, 1795)	X
Histeridae	<i>Dendrophilus punctatus</i> (Herbst, 1791)*	14	Staphylinidae	<i>Quedius mixtus</i> Eppelsheim, 1890*	X
Histeridae	<i>Eblisia minor</i> (Rossi, 1790)	X	Staphylinidae	<i>Quedius persicus</i> Korge, 1971*	6
Histeridae	<i>Epiurus comptus</i> Erichson, 1834	X	Staphylinidae	<i>Scaphisoma agaricinum</i> (Linnaeus, 1758)	X
Histeridae	<i>Hololepta plana</i> (Sulzer, 1776)	X	Staphylinidae	<i>Scaphisoma boleti</i> (Panzer, 1793)*	X
Histeridae	<i>Margarinotus merdarius</i> (Hoffmann, 1803)*	14	Staphylinidae	<i>Scaphisoma assimile</i> Erichson, 1845*	X
Histeridae	<i>Platylomalus complanatus</i> (Panzer, 1797)*	14	Staphylinidae	<i>Scaphisoma boreale</i> (Lundblad, 1952)	X
Histeridae	<i>Paromalus flavicornis</i> (Herbst, 1791)*	14	Staphylinidae	<i>Scaphisoma subalpinum</i> Reitter, 1881*	X
Histeridae	<i>Paromalus parallelepipedus</i> (Herbst, 1792)*	14	Staphylinidae	<i>Scaphisoma laeviusculum</i> (Reitter, 1898)*	X
Histeridae	<i>Platysoma compressum</i> (Herbst, 1783)*	14	Staphylinidae	<i>Sepedophilus testaceus</i> (Fabricius, 1792)*	6
Histeridae	<i>Plegaderus caesus</i> (Herbst, 1791)*	14	Staphylinidae	<i>Sepedophilus binotatus</i> (Gravenhorst, 1802)	X
Histeridae	<i>Plegaderus dissectus</i> Erichson, 1839*	14	Staphylinidae	<i>Sepedophilus bipustulatus</i> (Gravenhorst, 1802)	X
Histeridae	<i>Plegaderus fortisculptus</i> Reitter, 1897*	14	Staphylinidae	<i>Sognorus calcaratus</i> (Baudi di Selve, 1870)*	28
Histeridae	<i>Teretrius fabricii</i> Mazur, 1972*	14	Staphylinidae	<i>Zeteotomus scripticollis</i> (Hochhuth, 1849)	X
Histeridae	<i>Teretrius mogul</i> Lewis, 1911*	14	Staphylinidae	<i>Trichonyx georgicus</i> Motschulsky, 1845*	6
Leiodidae	<i>Anisotoma humeralis</i> (Fabricius, 1792)	X	Staphylinidae	<i>Tychus niger</i> (Paykull, 1800)*	28
Leiodidae	<i>Anisotoma axillaris</i> Gyllenhal, 1810	X	Lycidae	<i>Lyctus brunneus</i> (Steph., 1830)*	20
Leiodidae	<i>Anisotoma orbicularis</i> (Herbst, 1791)*	X	Lycidae	<i>Lyctus linearis</i> (Goeze, 1777)*	20
Leiodidae	<i>Agathidium badium</i> Erichson, 1845	X	Lycidae	<i>Lyctus suturalis</i> Faldermann, 1837*	20
Leiodidae	<i>Agathidium marginatum</i> Sturm, 1807	X	Lycidae	<i>Pyropterus nigroruber</i> Gusakov, 2004*	X, 28
Leiodidae	<i>Agathidium discoideum</i> Erichson, 1845	X	Cantharidae	<i>Malthodes crassicornis</i> (Mäklin, 1846)*	9
Ptilidae	<i>Ptinella aptera</i> (Guerin-Meneville, 1839)*	14	Cantharidae	<i>Malthodes dimidiatocollis</i> (Rosenhauer, 1847)*	9
Staphylinidae	<i>Atheta picipes</i> (Thomson, 1856)	X	Malachiidae	<i>Hypebaeus flavipes</i> (Fabricius, 1787)	X
Staphylinidae	<i>Atheta oblita</i> (Erichson, 1839)*	6	Melyridae	<i>Dasytes plumbeus</i> (Müller, 1776)	X
Staphylinidae	<i>Atheta boletophila</i> Thomson, 1856	X	Cleridae	<i>Denops albofasciatus</i> (Charpentier, 1825)*	32
Staphylinidae	<i>Aleochara adusta</i> Eppelsheim, 1890*	6	Cleridae	<i>Clerus mutillaroides</i> Reitter, 1894*	X
Staphylinidae	<i>Anomognathus cuspidatus</i> (Erichson, 1839)	X	Cleridae	<i>Korynetes caeruleus</i> (De Geer, 1775)	X
Staphylinidae	<i>Atheta fungivora</i> Thomson, 1867	X	Cleridae	<i>Tillus elongatus</i> (Linnaeus, 1758)*	32
Staphylinidae	<i>Zeteotomus scripticollis</i> Gravenhorst, 1806	X	Cleridae	<i>Tillus pectinicornis</i> Abeille de Perrin, 1892*	32
Staphylinidae	<i>Batrisodes buqueti</i> (Aubé, 1833)	X	Cleridae	<i>Tilloidea unifasciata</i> (Fabricius, 1787)*	32
Staphylinidae	<i>Batrisodes oculatus</i> (Aubé, 1833)*	28	Cleridae	<i>Opilo cilicicus</i> Hintz, 1902*	32
Staphylinidae	<i>Batrisodes ruprechtii</i> (Kolenati, 1849)*	X	Cleridae	<i>Opilo desertorum</i> Gerstmeier, 2010*	32
Staphylinidae	<i>Batrisodes coculatus</i> (Aubé, 1833)*	28	Cleridae	<i>Opilo longipilis</i> Fairmaire, 1892*	32
Staphylinidae	<i>Biblopectus pusillus</i> (Denny, 1825)*	28	Cleridae	<i>Opilo mollis</i> (Linnaeus, 1758)	X
Staphylinidae	<i>Bolitochara obliqua</i> Erichson, 1837	X	Cleridae	<i>Thanasimus formicarius</i> (Linnaeus, 1758)*	32
Staphylinidae	<i>Carphacis jarrigei</i> Schülke, 1994	X	Cleridae	<i>Thanasimus rufipes</i> (Barham, 1797)	X
Staphylinidae	<i>Dexiogygia corticina</i> Erichson, 1837	X	Cleridae	<i>Thanasimus femoralis</i> (Zetterstedt, 1828)	X
Staphylinidae	<i>Euplectus kirbyi</i> Denny, 1825	X	Cleridae	<i>Tilloidea iranica</i> Gerstmeier & Kuff, 1992*	32
Staphylinidae	<i>Euplectus besidicus</i> Reitter, 1882	X	Cleridae	<i>Tilloidea notata</i> (Klug, 1842)*	32
Staphylinidae	<i>Euplectus karstenii</i> (Reichenbach, 1816)	X	Derodontidae	<i>Derodontus osseticus</i> Nikitskiy, 1993	X
Staphylinidae	<i>Gabrieus nigrifolius</i> (Lacordaire 1835)*	6	Trogossitidae	<i>Nemozoma caucasicum</i> Ménétré, 1832	X
Staphylinidae	<i>Haploglossa villosula</i> (Stephens, 1832)	X	Trogossitidae	<i>Nemozoma cornutum</i> Sturm, 1826	X
Staphylinidae	<i>Hypnogyra laevisimus</i> Reitter, 1898*	6	Trogossitidae	<i>Tenebroides mauritanicus</i> (Linnaeus, 1758)	X
Staphylinidae	<i>Leptusa longalata</i> Assing, 2017	X	Lophocateridae	<i>Grynocharis pubescens</i> Erichson, 1844	X
Staphylinidae	<i>Lordithon trimaculatus</i> (Fabricius, 1793)*	6	Elateridae	<i>Ampedus sinuatus</i> Germar, 1844*	25
Staphylinidae	<i>Lordithon bimaculatus</i> (Schrank, 1798)	X	Elateridae	<i>Ampedus rufipennis</i> (Stephens, 1830)*	25
Staphylinidae	<i>Nudobius fasciatus</i> (Hochhuth, 1849)	X	Elateridae	<i>Ampedus cardinalis</i> (Schiödte, 1865)*	25
Staphylinidae	<i>Plectophloeus nubigena</i> (Reitter, 1877)*	6	Elateridae	<i>Ampedus sanguineus</i> (Linnaeus, 1758)*	25
Staphylinidae	<i>Plectophloeus nitidus</i> Fairmaire, 1857*	6	Elateridae	<i>Ampedus pomonae</i> (Stephens, 1830)*	25
Staphylinidae	<i>Phloeonomus punctipennis</i> Thomson, 1867	X	Elateridae	<i>Ampedus sanguinolentus</i> (Schrank, 1776)*	25
Staphylinidae	<i>Phloeopora corticalis</i> (Gravenhorst, 1802)	X	Elateridae	<i>Ampedus hjorti</i> (Rye, 1905)	X



Family	Species	Source	Family	Species	Source
Elateridae	<i>Ampedus elongatulus</i> (Fabricius, 1787)	X	Buprestidae	<i>Ptosima undecimmaculata</i> (Herbst) 1784*	13
Elateridae	<i>Ampedus elegantulus</i> (Schönherr, 1817)	X	Buprestidae	<i>Dicerca aenea</i> Semenov-Tian-Shankij 1896*	13
Elateridae	<i>Ampedus biformis</i> Dolin, 1970*	25	Buprestidae	<i>Dicerca alni</i> (Fischer von Waldheim) 1824*	13
Elateridae	<i>Ampedus charbinensis</i> Dejean, 1833*	25	Buprestidae	<i>Dicerca scabida</i> Marseul 1865*	13
Elateridae	<i>Ampedus circassicus</i> Reitter 1887*	25	Buprestidae	<i>Dicerca fritillum</i> Ménériés 1832*	13
Elateridae	<i>Ampedus lenkoranus</i> (Reitter, 1889)*	25	Buprestidae	<i>Perotis lugubris</i> (Fabricius 1777)*	X,13
Elateridae	<i>Ampedus cyanicollis</i> Dolin, 1970*	25	Buprestidae	<i>Dicerca chlorostigma</i> Mannerheim,1837	X
Elateridae	<i>Ampedus ocellatus</i> (Buysson, 1891)*	25	Buprestidae	<i>Lamprodila tuerki</i> (Ganglbauer 1882)*	13
Elateridae	<i>Ampedus iranicus</i> Gurjeva, 1972*	25	Buprestidae	<i>Lamprodila iranica</i> (Obenberger,1952)	13
Elateridae	<i>Ampedus persicus</i> Gurjeva, 1972*	25	Buprestidae	<i>Lamprodila orichalcea</i> Pallas, 1781	29
Elateridae	<i>Ampedus sanguinolentus</i> (Schrank, 1776)*	25	Buprestidae	<i>Julodis laevicostata</i> Gory, 1840.	X
Elateridae	<i>Ampedus turanus</i> (Semenov, 1891)*	25	Buprestidae	<i>Julodis andreae</i> (Olivier1790)*	13
Elateridae	<i>Ampedus weigeli</i> Platia 2013*	25	Buprestidae	<i>Eurythyrea aurata</i> (Pallas 1776)*	13
Elateridae	<i>Anostirus eschscholtzi</i> Faldermann, 1835*	X	Buprestidae	<i>Buprestis salomonii</i> (Thomson 1878)*	13
Elateridae	<i>Anostirus lederi</i> (Heyden, 1878)*	X	Buprestidae	<i>Trachypteris picta</i> (Pallas, 1773)*	13
Elateridae	<i>Anostirus saltinii</i> Platia & Schimmel, 2002*	X	Buprestidae	<i>Phaenops cyanea</i> Fabricius, 1775*	29
Elateridae	<i>Anostirus teheranus</i> Binaghi, 1940*	X	Buprestidae	<i>Anthaxia intermedia</i> Obenberger, 1913	X
Elateridae	<i>Elathous brucki</i> (Candèze, 1878)	X	Buprestidae	<i>Anthaxia hungarica</i> (Scopoli 1772)*	13
Elateridae	<i>Elater ferrugineus</i> Linnaeus, 1758*	25	Buprestidae	<i>Anthaxia passerine</i> Pecchioli, 18370	X, 13
Elateridae	<i>Denticollis linearis</i> (Linnaeus, 1758)*	10, 25	Buprestidae	<i>Anthaxia sponsa</i> Kiesenwetter, 1857*	X, 13
Elateridae	<i>Drapetes mordelloides</i> (Host, 1789)	X	Buprestidae	<i>Anthaxia hyrcana</i> Kirsch 1880*	13
Elateridae	<i>Drapetes talyshensis</i> Dolin & Agajev, 1985	X	Buprestidae	<i>Anthaxia amasina</i> . Daniel 1903*	13
Elateridae	<i>Hypoganus stepanovi</i> Denisova, 1948*	25	Buprestidae	<i>Anthaxia anatolica</i> Chevrolat 1838*	13
Elateridae	<i>Ischnodes sanguinicollis</i> (Panzer, 1793)*	25	Buprestidae	<i>Anthaxia discicollis</i> Gory & Laporte 1839*	13
Elateridae	<i>Lacon lepidopterus</i> (Panzer, 1800)*	25	Buprestidae	<i>Anthaxia hemichrysis</i> Perrin 1890*	13
Elateridae	<i>Lacon funebris</i> (Solsky, 1881) *	25	Buprestidae	<i>Anthaxia hemichrysis</i> Perrin 1894*	13
Elateridae	<i>Lacon mekrani</i> Candèze, 1889*	25	Buprestidae	<i>Anthaxia iliensis</i> Obenberger 1914*	13
Elateridae	<i>Lacon modestus</i> (Boisduval, 1835)*	25	Buprestidae	<i>Anthaxia mancatula</i> Perrin 1900*	13
Elateridae	<i>Limonicus wittmeri</i> Chassain, 1998*	25	Buprestidae	<i>Anthaxia muliebris</i> Obenberger 1918*	13
Elateridae	<i>Megapenthes rutilipennis</i> Candèze, 1859*	24	Buprestidae	<i>Anthaxia senicula</i> (Schrank 1789)*	13
Elateridae	<i>Megapenthes pallidulus</i> Cate, Platia & Schimmel, 2002*	25	Buprestidae	<i>Anthaxia stateira</i> Bilý 1983*	13
Elateridae	<i>Melanotus rufipes</i> (Herbst, 1784)	X	Buprestidae	<i>Anthaxia millefolii</i> (Fabricius, 1801)	X
Elateridae	<i>Melanotus castanipes</i> (Paykull, 1800)	X	Buprestidae	<i>Anthaxia cichorii</i> (Olivier, 1790)*	13
Elateridae	<i>Megathous menetriesi</i> (Reitter, 1890)*	25	Buprestidae	<i>Agrilus biguttatus</i> (Fabricius 1777)*	13
Elateridae	<i>Melanotus fusciceps</i> (Gyllenhal, 1817)*	24	Buprestidae	<i>Agrilus litura</i> Kiesenwetter, 1857	X
Elateridae	<i>Melanotus fulvus</i> Reitter, 1891*	24	Buprestidae	<i>Agrilus pecirkai</i> Obenberger 1916*	13
Elateridae	<i>Melanotus sobrinus</i> (Ménétriés, 1832) *	24	Buprestidae	<i>Agrilus obscuricollis</i> Kieswetter 1857*	13
Elateridae	<i>Melanotus admirabilis</i> Gurjeva, 1994*	24	Buprestidae	<i>Agrilus graminis</i> Kiesenwetter 1857*	13
Elateridae	<i>Melanotus villosus</i> (Geoffroy, 1785)*	24	Buprestidae	<i>Agrilus hastulifer</i> (Ratzeburg 1837)*	13
Elateridae	<i>Procræus tibialis</i> (Boisduval & Lacordaire, 1835)*	24	Buprestidae	<i>Agrilus derasofasciatus</i> Boisduval & Lacordaire 1835*	13
Elateridae	<i>Procræus stepanovi</i> lablorkoff-Khnzorian, 1959	X	Buprestidae	<i>Agrilus pratensis</i> (Ratzeburg 1837)*	13
Eucnemidae	<i>Clypeorhagus clypeatus</i> (Hampe, 1850)	X	Buprestidae	<i>Agrilus viridis</i> (Linnaeus 1758)*	13
Eucnemidae	<i>Dromaeolus gracilicornis</i> Roubal,1912	X	Buprestidae	<i>Agrilus cuprescens</i> (Ménétriés) 1832*	13
Eucnemidae	<i>Dirrhagofarsus ferrugineus</i> (Reitter, 1889)	X	Buprestidae	<i>Agrilus sinuatus</i> (Olivier 1790)*	13
Eucnemidae	<i>Hylis matthiesseni</i> (Reitter, 1906)	X	Buprestidae	<i>Agrilus lineola</i> Kiesenwetter 1857*	13
Eucnemidae	<i>Isorhipis melasoides</i> (Laporte, 1835)	X	Buprestidae	<i>Chrysobothris affinis</i> (Fabricius 1794)*	13
Eucnemidae	<i>Isorhipis nigriceps</i> (Mannerheim, 1823)	X	Buprestidae	<i>Coraebus elatus</i> (Fabricius 1787)*	13
Eucnemidae	<i>Melasis buprestoides</i> (Linnaeus, 1761)	X	Buprestidae	<i>Coraebus rubi</i> (Linnaeus 1767)*	13
Eucnemidae	<i>Microrhagus palmi</i> (Olexa, 1963)	X	Buprestidae	<i>Capnodis tenebrionis</i> (Linnaeus, 1761)	X
Eucnemidae	<i>Rhacopus ferrugineus</i> (Reitter, 1889)	X	Buprestidae	<i>Capnodis tenebricosa</i> (Oliver, 1790)	X
Eucnemidae	<i>Xylophilus leseigneuri</i> Olexa, 1960	X	Dermestidae	<i>Paranovelsis hyrcanus</i> (Zhantiev, 2009)*	X
Eucnemidae	<i>Xylophilus talyshensis</i> Olexa, 1969	X	Dermestidae	<i>Globicornis antoniae</i> (Reitter, 1884)*	X
Buprestidae	<i>Acmaeodera pilosellae</i> (Bonelli 1812)*	13	Cerylonilidae	<i>Cerylon histeroideis</i> (Fabricius, 1792)	X
Buprestidae	<i>Acmaeodera mimonti</i> Boieldieu, 1865*	X,13	Cerylonilidae	<i>Cerylon ferrugineum</i> Stephens, 1830	X
Buprestidae	<i>Acmaeodera gibbulosa</i> Ménériés1832*	13	Cerylonilidae	<i>Hypodacne edithae</i> (Reitter, 1897)	X
Buprestidae	<i>Acmaeodera (Carinnota) mimonti</i> (Boieldieu, 1865)	X	Cerylonilidae	<i>Philothermus semistriatus</i> (Perris, 1865)	X
Buprestidae	<i>Acmaeodera gibbulosa</i> (Ménétriés, 1832)	X	Cerylonilidae	<i>Philothermus conicicollis</i> Roubal, 1923	X
Buprestidae	<i>Acmaeodera rufoguttata</i> Reitter 1890*	13	Nitidulidae	<i>Epuraea marseuli</i> Reitter, 1873*	19
Buprestidae	<i>Acmaeodera flavofasciata</i> (Piller & Mitterpacher 1783)*	13	Nitidulidae	<i>Epuraea longula</i> Erichson, 1845	X
Buprestidae	<i>Acmaeodera chalcithorax</i> obenberger 1935*	13	Nitidulidae	<i>Epuraea biguttata</i> (Thunberg, 1784)	X
Buprestidae	<i>Acmaeodera babatauensis</i> Obenberger 1935*	13	Nitidulidae	<i>Epuraea silacea</i> (Herbst, 1783)*	19
Buprestidae	<i>Strigopteroides depressa</i> (Fabricius, 1775)*	13	Nitidulidae	<i>Epuraea melanocephala</i> (Marsham, 1802)*	X, 19
Buprestidae	<i>Lampetis argentata</i> (Mannerheim) 1837*	13	Nitidulidae	<i>Epuraea luteola</i> Erichson, 1843*	19

Family	Species	Source	Family	Species	Source
Monotomidae	<i>Rhizophagus ferrugineus</i> (Paykull, 1800)	X	Endomychidae	<i>Leiestes seminiger</i> (Gyllenhal, 1808)	X
Monotomidae	<i>Rhizophagus perforatus</i> Erichson, 1845	X	Endomychidae	<i>Mycetina apicalis</i> (Motschulsky, 1835)	X
Monotomidae	<i>Rhizophagus bipustulatus</i> (Fabricius, 1792)	X	Aspidiphoridae	<i>Sphindus dubius</i> (Gyllenhal, 1808)	X
Monotomidae	<i>Rhizophagus oblongicollis</i> Blatch & Horner, 1892	X	Ciidae	<i>Cis jacquemartii</i> Mellié, 1848	X
Cucujidae	<i>Cucujus muelleri</i> Bussler, 2017	X	Ciidae	<i>Cis hanseni</i> Strand, 1982	X
Cucujidae	<i>Pediacus dermestoides</i> (Fabricius, 1792)	X	Ciidae	<i>Cis glabratus</i> Mellié, 1848	X
Cucujidae	<i>Pediacus smirmovi</i> Nikitsky & Below, 1979	X	Ciidae	<i>Cis comptus</i> Gyll., 1827*	1
Silvanidae	<i>Silvanus bidentatus</i> (Fabricius, 1792)	X	Ciidae	<i>Cis striatulus</i> Mellié, 1849*	1
Silvanidae	<i>Uleiota planata</i> (Linnaeus, 1761)	X	Ciidae	<i>Cis boleti</i> (Scop., 1763)*	1
Erotylidae	<i>Dacne pontica</i> (Bedel, 1868)*	18	Ciidae	<i>Cis rugulosus</i> Mellié, 1849*	1
Erotylidae	<i>Dacne ruffrons</i> (Fabricius, 1775)	X	Ciidae	<i>Cis submicans</i> Abeille de Perrin, 1874*	1
Erotylidae	<i>Pseudotritoma valida</i> (Reitter, 1884)	X	Ciidae	<i>Cis castaneus</i> Mell., 1848*	1
Erotylidae	<i>Triplax elongata</i> Lacordaire, 1842	X	Ciidae	<i>Cis chinensis</i> Lawrence, 1991*	1
Erotylidae	<i>Triplax collaris</i> (Schaller, 1783) *	18	Ciidae	<i>Cis fusciclavus</i> Nyholm, 1953*	1
Biphyllidae	<i>Biphyllus lunatus</i> (F., 1792)*	18	Ciidae	<i>Cis reitteri</i> Lopes-Andrade, 2002*	1
Biphyllidae	<i>Diplocoelus fagi</i> Guer., 1844*	18	Ciidae	<i>Cis tomentosus</i> Mellié, 1849*	1
Biphyllidae	<i>Diplocoelus talyshensis</i> Nikitsky, 1993	X	Ciidae	<i>Cis lasoni</i> Królik, 2016*	1
Cryptophagidae	<i>Antherophagus similis</i> Curtis, 1835	X	Ciidae	<i>Cis villosulus</i> (Marsham, 1802)	X
Cryptophagidae	<i>Cryptophagus labilis</i> Erichson, 1846	X	Ciidae	<i>Cis matchanus</i> Reitter, 1915*	1
Cryptophagidae	<i>Cryptophagus pallidus</i> Sturm, 1845*	23	Ciidae	<i>Cis festivus</i> (Panzer, 1793)	X
Cryptophagidae	<i>Cryptophagus dentatus</i> (Herbst, 1793)	X	Ciidae	<i>Orthocis alni</i> (Gyllenhal, 1813)	X
Cryptophagidae	<i>Cryptophagus scanicus</i> (Linnaeus, 1758)	X	Ciidae	<i>Orthocis tomentosus</i> Mellié, 1849	X
Laemophloeidae	<i>Cryptolestes duplicatus</i> (Waltl, 1839)	X	Ciidae	<i>Ennearthron cornutum</i> (Gyllenhal, 1827)*	1
Laemophloeidae	<i>Laemophloeus monilis</i> (Fabricius, 1787)	X	Ciidae	<i>Octotemnus glabriculus</i> (Gyllenhal, 1827)	X
Laemophloeidae	<i>Placonotus testaceus</i> (Fabricius, 1787)	X	Ciidae	<i>Ropalodontus baudueri</i> Abeille de Perrin, 1874*	1
Latridiidae	<i>Latridius minutus</i> (Linnaeus, 1767)	22	Ciidae	<i>Sulcacis nitidus</i> (Fabricius, 1792)*	1
Latridiidae	<i>Latridius brevicollis</i> (Thomson, 1868)	22	Ciidae	<i>Sulcacis fronticornis</i> (Panzer, 1805)*	1
Latridiidae	<i>Enicmus brevicornis</i> (Mannerheim, 1844)	X	Ciidae	<i>Xylographus bostrichoides</i> (Dufour, 1843)	X
Latridiidae	<i>Enicmus barimani</i> Rucker, 2010	X	Ciidae	<i>Ropalodontus perrini</i> Reitter, 1878*	1
Latridiidae	<i>Enicmus testaceus</i> (Stephens, 1830)	X	Ciidae	<i>Strigocis bicornis</i> (Mellié, 1849)*	1
Latridiidae	<i>Enicmus transversa</i> (Olivier, 1790)	X	Ciidae	<i>Xylographus bostrychoides</i> (Dufour, 1843)*	1
Latridiidae	<i>Melanophthalma parvicollis</i> (Mannerheim, 1844)	X	Bostrichidae	<i>Amphicerus bimaculatus</i> (Olivier, 1790)*	20
Latridiidae	<i>Melanophthalma rhenana</i> Rucker & Johnson, 2007	X	Bostrichidae	<i>Apate monachus</i> Fabricius, 1775*	20
Latridiidae	<i>Stephostethus angusticollis</i> (Gyllenhal, 1827)	X	Bostrichidae	<i>Bostrichus capucinus</i> (Linnaeus, 1758)	X
Mycetophagidae	<i>Litargus connexus</i> (Geoffroy, 1785)	X	Bostrichidae	<i>Lichenophanes varius</i> (Illiger, 1801)	X
Mycetophagidae	<i>Mycetophagus atomarius</i> (Fabricius, 1787)	29	Bostrichidae	<i>Paraxylogenes pistaciae</i> Damoiseau, 1968	X
Mycetophagidae	<i>Mycetophagus multipunctatus</i> Fabricius, 1792*	29	Bostrichidae	<i>Sinoxylon sexdentatum</i> (Olivier, 1790)	X
Mycetophagidae	<i>Mycetophagus fulvicollis</i> Fabricius, 1793	X	Bostrichidae	<i>Scobicia pustulata</i> (Fabricius, 1801)*	20
Mycetophagidae	<i>Mycetophagus ancora</i> Reitter, 1884	X	Bostrichidae	<i>Xylopertha retusa</i> (Ol., 1790)*	20
Mycetophagidae	<i>Mycetophagus hyrcanicus</i> Nikitsky, 1989	X	Ptinidae	<i>Anobium punctatum</i> (DeGeer, 1774)*	31
Mycetophagidae	<i>Mycetophagus infulatus</i> (Reitter, 1884)	X	Ptinidae	<i>Dorcatoma minor</i> Zahradnk, 1993	X
Mycetophagidae	<i>Mycetophagus populi</i> Fabricius, 1798	X	Ptinidae	<i>Dorcatoma robusta</i> A. Strand, 1938	X
Mycetophagidae	<i>Eulagius hyrcanicus</i> (Esser, 2018)*	11	Ptinidae	<i>Hedobia unicolor</i> Pic, 1897*	20
Mycetophagidae	<i>Mycetophagus quadriornatus</i> (Reitter, 1901)*	29	Ptinidae	<i>Gastrallus pubens</i> Fairmaire, 1875*	31
Zopheridae	<i>Colobicus hirtus</i> (Rossi, 1790)*	29	Ptinidae	<i>Gastrallus immarginatus</i> (Müll., 1821)*	31
Zopheridae	<i>Colobicus parilis</i> Pascoe, 1860*	29	Ptinidae	<i>Gibbium aequinoctiale</i> Boieldieu, 1854*	31
Zopheridae	<i>Bitoma crenata</i> (F., 1775)*	29	Ptinidae	<i>Hemicoelus rufipennis</i> (Duftschmid, 1825)	X
Zopheridae	<i>Bitoma iranica</i> Mañan, 1954	X	Ptinidae	<i>Hemicoelus canaliculatus</i> (C. G. Thomson, 1863)	X
Zopheridae	<i>Corticus brevipennis</i> Reitter, 1882	X	Ptinidae	<i>Hemicoelus fulvicornis</i> (Sturm, 1837)	X
Zopheridae	<i>Endophloeus exsculptus</i> Germar, 1847	X	Ptinidae	<i>Hyperisus plumbeum</i> (Illiger, 1801)	X
Zopheridae	<i>Endophloeus exsculptus</i> Reitter, 1877	X	Ptinidae	<i>Oligomerus brunneus</i> (Olivier, 1790)	X
Zopheridae	<i>Lastrema verrucicollis</i> (Reitter, 1880)	X	Ptinidae	<i>Oligomerus ptilinoides</i> (Wolaston, 1854)	X
Zopheridae	<i>Langelandia grandis</i> Reitter, 1877	X	Ptinidae	<i>Plumilus grandicollis</i> (Ménétriés, 1832)	X
Zopheridae	<i>Niphopelta imperialis</i> Reitter, 1882	X	Ptinidae	<i>Ptinus subpilosus</i> Sturm, 1837	X
Zopheridae	<i>Nosodomodes diabolicus</i> (Schaufuss, 1862)	29	Ptinidae	<i>Ptilinus pectinicornis</i> (Linnaeus, 1758)	X
Zopheridae	<i>Orthocerus clavicornis</i> (Linnaeus, 1758)	29	Ptinidae	<i>Ptilinus fuscus</i> (Geoffr., 1785)*	31
Zopheridae	<i>Pycnomerus terebrans</i> (Olivier, 1790)	X	Ptinidae	<i>Priobium carpini</i> (Herbst, 1793)	X
Zopheridae	<i>Pycnomerus sulcicollis</i> (Germar, 1824)	X	Ptinidae	<i>Ptinomorphus magnificus</i> (Reitter, 1880)	X
Zopheridae	<i>Synchita mediolanensis</i> Villa & Villa, 1833	X	Ptinidae	<i>Ptinus sexpunctatus</i> Panzer, 1789	X
Zopheridae	<i>Synchita iranica</i> Dajoz, 1973	X	Ptinidae	<i>Ptinus villiger</i> (Reitter, 1884)	X
Zopheridae	<i>Synchita undata</i> Guérin-Méneville, 1844	X	Ptinidae	<i>Xestobium plumbeum</i> (Illiger, 1801)	X
Colydiidae	<i>Colydium elongatum</i> Fabricius, 1787	X	Ptinidae	<i>Xestobium rufillosum</i> (De Geer, 1774)	X
Colydiidae	<i>Colydium filiforme</i> (Fabricius, 1787)	X	Ptinidae	<i>Xestobium subincanum</i> Leder, 1878	X



Family	Species	Source	Family	Species	Source
Ptinidae	<i>Xestobium subaeneum</i> Reitter, 1897	X	Tenebrionidae	<i>Neomida quadricornis</i> (V.I. Motschulsky, 1873)	X
Ptinidae	<i>Stagetus franzi</i> Español, 1969	X	Tenebrionidae	<i>Pseudocistela znojkoii</i> Plavilstshikov, 1936	X
Ptinidae	<i>Xyletinus sareptanus</i> Kiesenwetter, 1877*	31	Tenebrionidae	<i>Pseudocistela hajeki</i> Novak, 2013.*	29
Oedemeridae	<i>Ischnomera sanguinicollis</i> (Fabricius, 1787)	X	Tenebrionidae	<i>Platydemia tristis</i> Laporte et Brullé, 1831	X
Oedemeridae	<i>Ischnomera caerulea</i> (Linnaeus, 1758)*	15	Tenebrionidae	<i>Pentaphyllus nitidulus</i> Reitter, 1884	X
Oedemeridae	<i>Ischnomera holzschuhi</i> Švihla, 1988*	15	Tenebrionidae	<i>Palorus depressus</i> (Fabricius, 1790)	X
Salpingidae	<i>Lissodema denticolle</i> (Gyllenhal, 1813)	X	Tenebrionidae	<i>Palorus ratzeburgi</i> (Wissmann, 1848)	X
Salpingidae	<i>Lissodema quadripustulatum</i> (Marsham, 1802)	X	Tenebrionidae	<i>Probatiscus zoroaster</i> (Seidlitz, 1896)	X
Salpingidae	<i>Salpingus fascipennis</i> Reitter, 1897	X	Tenebrionidae	<i>Probatiscus myops</i> (Dalman, 1817)	X
Salpingidae	<i>Salpingus caucasicus</i> Reitter, 1905	X	Tenebrionidae	<i>Uloma culinaria</i> (Linnaeus, 1758)	X
Salpingidae	<i>Vincenzellus ruficollis</i> (Panzer, 1794)	X	Tenebrionidae	<i>Hallomenus axillaris</i> (Illiger, 1807)	X
Salpingidae	<i>Vincenzellus fascipennis</i> Reitter, 1897	X	Tenebrionidae	<i>Tagenostola turkestanica</i> Reitter, 1886*	29
Salpingidae	<i>Vinzenzellus caucasicum</i> Kolenati, 1808	X	Tetatomidae	<i>Tetratoma ancora</i> Fabricius, 1790	X
Salpingidae	<i>Vinzenzellus ruficollis</i> (Panzer, 1794)	X	Throscidae	<i>Aulonothroscus brevicollis</i> (Bonvouloir, 1859)	X
Scaphidiidae	<i>Persescaphium pari</i> Lbol & Ogawa, 2016	X	Scarabeidae	<i>Oryctes nasicornis</i> (Linnaeus, 1758)	X
Scaphidiidae	<i>Scaphium immaculatum</i> (Olivier, 1790)	X	Scarabeidae	<i>Polyphylla olivieri</i> (Castelnau, 1840)	X
Prostomidae	<i>Prostomis elburica</i> Fleischer, 1919	X	Scarabeidae	<i>Oxythyrea cinctella</i> (Schaum, 1841)	X
Scaptiidae	<i>Anaspis frontalis</i> (Linnaeus, 1758)*	29	Scarabeidae	<i>Protaetia hieroglyphica</i> (Ménétrières, 1832)	X
Scaptiidae	<i>Anaspis thoracica</i> (Linnaeus, 1758)*	29	Scarabeidae	<i>Valgus hemipterus</i> (Linnaeus, 1758)*	12
Scaptiidae	<i>Scaptia roukali</i> Winkler, 1927	X	Scarabeidae	<i>Gnorimus subcostatus</i> (Ménétrières, 1832)	X
Scarabeidae	<i>Tropinota spinifrons</i> Reitter, 1859	X	Lucanidae	<i>Dorcus parallelipipedus</i> (Linnaeus, 1758)*	7
Scarabeidae	<i>Cetonia aurata</i> (Linnaeus, 1758)	X	Lucanidae	<i>Aesalus ulanowskyi</i> Ganglbauer, 1887*	X,7
Aderiidae	<i>Aderus populneus</i> (Creutz, 1796)*	29	Lucanidae	<i>Lucanus ibericus</i> Motschulsky, 1870*	7
Alexiidae	<i>Sphaerosoma quercus</i> Samouelle, 1819	X	Lucanidae	<i>Lucanus orientalis</i> Kraatz, 1860	X
Mordellidae	<i>Mordella leucaspis</i> Küster, 1849*	26	Lucanidae	<i>Platycerus vicinus</i> Gusakov, 2004	X
Mordellidae	<i>Mordella aculeata</i> Linnaeus, 1758*	26	Lucanidae	<i>Platycerus caraboides</i> (Linnaeus, 1758)*	7
Mordellidae	<i>Mordella brachyura</i> Mulsant, 1856*	26	Lucanidae	<i>Platycerus perplexus</i> Gusakov, 2003	X
Mordellidae	<i>Mordellistena neuwaldeggiana</i> (Panz., 1796)*	26	Lucanidae	<i>Sinodendron persicum</i> Reitter, 1902*	7
Mordellidae	<i>Mordellochroa abdominalis</i> (Fabricius, 1775)*	26	Cerambycidae	<i>Acanthocinus elegans</i> Ganglbauer, 1884*	X
Mordellidae	<i>Tomoxia bucephala</i> Costa, 1854	X	Cerambycidae	<i>Apatophysis caspica</i> Semenov, 1901	28
Mordellidae	<i>Variimorda villosa</i> (Schrank, 1781)*	26	Cerambycidae	<i>Agapanthia kirbyi</i> (Gyllenhal, 1817)	X
Mordellidae	<i>Variimorda briantea</i> (Comolli, 1837)*	26	Cerambycidae	<i>Agapanthia walteri</i> Reitter, 1898	X
Melandyriidae	<i>Abdera flexuosa</i> (Payk., 1799)*	26	Cerambycidae	<i>Agapanthia suturalis</i> (Fabricius, 1787)	X
Melandyriidae	<i>Orchesia micans</i> (Panzer, 1793)	X	Cerambycidae	<i>Agapanthia chalybaea</i> Faldermann, 1837	X
Melandyriidae	<i>Orchesia luteipalpis</i> Mulsant & Guillebeau, 1857	X	Cerambycidae	<i>Agapanthia persicola</i> Reitter, 1894	X
Melandyriidae	<i>Orchesia fasciata</i> (Illiger, 1798)	X	Cerambycidae	<i>Anaglyptus ganglbaueri</i> Reitter, 1886*	27
Melandyriidae	<i>Orchesia undulata</i> Kraatz, 1853	X	Cerambycidae	<i>Anaglyptus arabicus</i> (Küster, 1847)	X
Melandyriidae	<i>Orchesia kamberskyi</i> Reitter, 1888	X	Cerambycidae	<i>Anaesthetis testacea</i> Baeckmann, 1903	X
Melandyriidae	<i>Osphyia bipunctata</i> (Fabricius, 1775)	X	Cerambycidae	<i>Alosterna barimani</i> Danilevsky, 2010	X
Melandyriidae	<i>Phloiotrya tenuis</i> (Hampe, 1850)	X	Cerambycidae	<i>Alosterna scapularis</i> (Heyden, 1878)*	27
Melandyriidae	<i>Melandyria caraboides</i> (Linnaeus, 1761)*	28	Cerambycidae	<i>Alosterna tabacicolor</i> (De Geer, 1775)*	27
Melandyriidae	<i>Paraleideria anatolica</i> Frivalzky, 1880	X	Cerambycidae	<i>Anoploclera rufipes</i> (Schaller, 1783)*	27
Tenebrionidae	<i>Alphitophagus bifasciatus</i> (Say, 1824)	X	Cerambycidae	<i>Aegosoma scabricorne</i> (Scopoli, 1763)*	27
Tenebrionidae	<i>Allecula mazandarana</i> Novák v. 2017	X	Cerambycidae	<i>Aromia moschata</i> (Linnaeus, 1758)*	27
Tenebrionidae	<i>Bolitophagus reticulatus</i> (Linnaeus, 1767)	X	Cerambycidae	<i>Cortodera pumila</i> Ganglbauer, 1882	X
Tenebrionidae	<i>Bolitophagus interruptus</i> Illiger, 1800	X	Cerambycidae	<i>Corymbia scutellata</i> (Fabricius, 1781)	X
Tenebrionidae	<i>Corticeus unicolor</i> Piller & Mitterpacher, 1783	X	Cerambycidae	<i>Callidium aeneum</i> (DeGeer, 1775)*	27
Tenebrionidae	<i>Corticeus fasciatus</i> (Fabricius, 1790)	X	Cerambycidae	<i>Cerambyx cerdo</i> Linnaeus, 1758	X
Tenebrionidae	<i>Corticeus basalis</i> Reitter, 1884	X	Cerambycidae	<i>Cerambyx multiplicatus</i> Motschulsky, 1857	X
Tenebrionidae	<i>Diaclina testudinea</i> (Piller & Mitterpacher, 1783)	X	Cerambycidae	<i>Callimus angulatus</i> (Schrank, 1789)*	27
Tenebrionidae	<i>Diaperis boleti</i> (Linnaeus, 1758)	X	Cerambycidae	<i>Callimoxys gracilis</i> (Brullé, 1832)	X
Tenebrionidae	<i>Gonodera gilanica</i> Novk, 2011*	29	Cerambycidae	<i>Certallum ebulinum</i> (Linnaeus, 1767)*	27
Tenebrionidae	<i>Helops caeruleus</i> stevenii Krynicky, 1834	X	Cerambycidae	<i>Clytus arietis</i> Ganglbauer, 1881	X
Tenebrionidae	<i>Hypophloeus unicolor</i> Piller 1783	X	Cerambycidae	<i>Clytus vesparum</i> Reitter, 1889	X
Tenebrionidae	<i>Lagria hirta</i> Linnaeus, 1758	X	Cerambycidae	<i>Clytus oblitus</i> Ganglbauer, 1881	X
Tenebrionidae	<i>Mycetochara excelsa</i> Reitter, 1884	X	Cerambycidae	<i>Chlorophorus varius</i> (Müller, 1766)*	27
Tenebrionidae	<i>Metaclisa viridis</i> (Motschulsky, 1860)	X	Cerambycidae	<i>Chlorophorus figuratus</i> (Scopoli, 1763)	X
Tenebrionidae	<i>Mycetochara ocularis</i> Reitter, 1884*	29	Cerambycidae	<i>Dinoptera collaris</i> (Linnaeus, 1758)*	27
Tenebrionidae	<i>Mycetochara maura</i> (Fabricius, 1792)*	29	Cerambycidae	<i>Echinocerus floralis</i> (Pallas, 1773)	X
Tenebrionidae	<i>Neatus subaequalis</i> Reitter 1920	X	Cerambycidae	<i>Exocentrus adpersus</i> Mulsant, 1846	X
Tenebrionidae	<i>Omophlus caucasicus</i> Kirsh, 1869*	29	Cerambycidae	<i>Dorcadion kharpuense</i> Danilevsky, 1998	X
Tenebrionidae	<i>Metaclysa viridis</i> (Motschulsky, 1859)	X	Cerambycidae	<i>Fallacia elegans</i> Faldermann, 1837	X
Tenebrionidae	<i>Neomida haemorrhoidalis</i> (Fabricius, 1787)	X	Cerambycidae	<i>Grammoptera ustulata</i> (Fabricius, 1781)	X

Family	Species	Source	Family	Species	Source
Cerambycidae	<i>Grammoptera ruficornis</i> (Fabricius, 1781)	X	Cerambycidae	<i>Stromatium unicolor</i> (Villers, 1789)	X
Cerambycidae	<i>Gracilia minuta</i> (Fabricius, 1781)	X	Cerambycidae	<i>Trichoferus campestris</i> Faldermann, 1835	X
Cerambycidae	<i>Glaphyra umbellatarum</i> (von Schreber, 1759)*	27	Cerambycidae	<i>Trichoferus fasciculatus</i> (Faldermann, 1837)	X
Cerambycidae	<i>Archandra caspia</i> (Ménétriés, 1832)	X	Cerambycidae	<i>Tetrops gilvipes</i> (Faldermann, 1837)	X
Cerambycidae	<i>Lampropterus femoratus</i> (Germar, 1824)*	27	Cerambycidae	<i>vadonia bicolor</i> (Redtenbacher, 1850)	X
Cerambycidae	<i>Leiopus femoratus</i> Fairmaire, 1859	X	Cerambycidae	<i>vadonia unipunctata</i> (Fabricius, 1787)	X
Cerambycidae	<i>Molorchus monticola</i> Danilevsky & Miroshnikov, 1985	X	Cerambycidae	<i>Vadoia unipunctata</i> Fabricius, 1787*	27
Cerambycidae	<i>Morimus verecundus</i> (Faldermann, 1836)	X	Cerambycidae	<i>Xylotrechus ilamensis</i> Holzschuh, 1979	X
Cerambycidae	<i>Morimus asper</i> Mulsant, 1861*	27	Anthribiidae	<i>Platyrhinus resinosus</i> (Scopoli, 1763)*	17
Cerambycidae	<i>Mesosa jarzabeky</i> Danilevski & Müller, 2016	X	Anthribiidae	<i>Platystomos albinus</i> (Linnaeus, 1758)*	17
Cerambycidae	<i>Mesosa obscuricornis</i> Pic, 1894	X	Anthribiidae	<i>Choragus sheppardi</i> Kirby, 1819	X
Cerambycidae	<i>Musaria puncticollis</i> Villiers, 1967*	27	Anthribiidae	<i>Choragus persicus</i> Frieser, 2010*	17
Cerambycidae	<i>Nathrius brevipennis</i> (Mulsant, 1839)*	27	Anthribiidae	<i>Bruchela fortirostris</i> Korotyaev, 1988*	17
Cerambycidae	<i>Necydalis sirexoides</i> Reitter, 1902	X	Curculionidae	<i>Anisandrus dispar</i> (Fabricius, 1792)*	8
Cerambycidae	<i>Neoplocaederus scapularis</i> (Fisher, 1821)	28	Curculionidae	<i>Acicnemis elongata</i> Hub., 1917	X
Cerambycidae	<i>Leptura quadrifasciata</i> Linnaeus, 1758	X	Curculionidae	<i>Carphoborus minimus</i> (Fabricius, 1798)*	8
Cerambycidae	<i>Oxyilia argentata</i> (Ménétriés, 1832)	X	Curculionidae	<i>Carphoborus perrisi</i> Chapuis, 1873*	8
Cerambycidae	<i>Oxymirus mirabilis</i> (Motschulsky, 1838)	27	Curculionidae	<i>Crypturgus cinereus</i> (Herbst, 1793)*	8
Cerambycidae	<i>Oberea oculata</i> (Linnaeus, 1758)*	27	Curculionidae	<i>Crypturgus dubius</i> Eichhoff, 1871*	8
Cerambycidae	<i>Poecilium pusillum</i> (Fabricius, 1787)	X	Curculionidae	<i>Crypturgus numidicus</i> Ferrari, 1867*	8
Cerambycidae	<i>Poecilium alni</i> lateniger Pic, 1945	X	Curculionidae	<i>Crypturgus cribrellus</i> Reitter, 1895*	3
Cerambycidae	<i>Phymatodes femoralis</i> (Ménétriés, 1832)	X	Curculionidae	<i>Dryocoetes autographus</i> (Ratz., 1837)*	8
Cerambycidae	<i>Paraclytus raddei</i> (Ganglbauer, 1881)	X	Curculionidae	<i>Dryocoetes villosus</i> (Fabricius, 1792)*	8
Cerambycidae	<i>Paraclytus reitteri</i> (Ganglbauer, 1881)	X	Curculionidae	<i>Dryocoetes alni</i> (Georg, 1856)*	8
Cerambycidae	<i>Paraclytus sexguttatus</i> Adams, 1817*	27	Curculionidae	<i>Echinodera hyrcanica</i> (Savitsky 1997)	X
Cerambycidae	<i>paracorymbia tonsa</i> (K. et J. Daniel, 1891)*	27	Curculionidae	<i>Cryphalus abietis</i> (Ratz., 1837)*	8
Cerambycidae	<i>Parmena aurora</i> Reitter, 1886	X	Curculionidae	<i>Ernoporicus caucasicus</i> (Lindemann, 1876)	3
Cerambycidae	<i>Plagionotus arcuatus</i> (Linnaeus, 1758)	X	Curculionidae	<i>Hypothenemus eruditus</i> Westwood, 1836*	5
Cerambycidae	<i>Plagionotus bartholomei</i> Motschulsky, 1853	X	Curculionidae	<i>Hypothenemus crudiae</i> (Panzer, 1791)*	8
Cerambycidae	<i>Plagionotus lugubris</i> Ménétriés, 1832	X	Curculionidae	<i>Hylastes brunneus</i> Erichson, 1836*	8
Cerambycidae	<i>Plagionotus bobelayei</i> (Brullé, 1832)*	27	Curculionidae	<i>Hylastes attenuatus</i> Erichson, 1836*	8
Cerambycidae	<i>Purpuricenus kaehleri</i> (Lineaue, 1758)*	27	Curculionidae	<i>Hylastes angustatus</i> (Herbst, 1793)*	8
Cerambycidae	<i>Purpuricenus talyshensis</i> Reitter, 1891	X	Curculionidae	<i>Hylurgops glabratus</i> (Zett., 1828)*	8
Cerambycidae	<i>Purpuricenus wachanrui</i> Lervat, 1858*	27	Curculionidae	<i>Hylurgops palliatus</i> (Gyllenhal, 1813)*	8
Cerambycidae	<i>prinobius myardi</i> Mulsant, 1842*	27	Curculionidae	<i>Hypoborus ficus</i> Erichson, 1836*	4
Cerambycidae	<i>prionus angustatus</i> (Jakovlev, 1887)*	27	Curculionidae	<i>Hylesinus crenatus</i> (Fabricius, 1787)*	28
Cerambycidae	<i>Prionus coriarius</i> (Linnaeus, 1758)	X	Curculionidae	<i>Hylesinus botscharnikovi</i> Stark, 1931*	8
Cerambycidae	<i>Phytoecia cylindrica</i> (Linnaeus, 1758)	X	Curculionidae	<i>Hylesinus varius</i> (Fabricius, 1775)*	8
Cerambycidae	<i>Phytoecia pustulata</i> (Schränk, 1776)	X	Curculionidae	<i>Hylesinus verae</i> Petrov, 2002*	8
Cerambycidae	<i>Pseudoprius bienerti</i> (Heyden, 1885)	X	Curculionidae	<i>Hylesinus toranio</i> (D. Anthoine, 1788)*	8
Cerambycidae	<i>Pedostrangalia imberbis</i> (Ménétriés, 1832)*	27	Curculionidae	<i>Ips acuminatus</i> (Gyll., 1827)*	8
Cerambycidae	<i>Pedostrangalia emmipoda</i> (Mulsant, 1863)*	X	Curculionidae	<i>Ips typographus</i> (L., 1758)*	8
Cerambycidae	<i>Pogonocherus fasciculatus</i> (DeGeer, 1775)*	29	Curculionidae	<i>Kykloacalles chaudiarii</i> (Hochhuth, 1851)	X
Cerambycidae	<i>Ropalopus macropus</i> (Germar, 1824)	X	Curculionidae	<i>Kissophagus vicinus</i> (Comolli, 1837)*	3
Cerambycidae	<i>Rusticoclytus rusticus</i> (Linnaeus, 1758)*	27	Curculionidae	<i>Liparthrum bartschi</i> Mühl, 1891*	3
Cerambycidae	<i>Rhaesus sericollis</i> (Motschulsky, 1838)*	27	Curculionidae	<i>Melicius cylindrus</i> (Boheman, 1838)	X
Cerambycidae	<i>Rutpela inermis</i> (K Daniel 1898)*	27	Curculionidae	<i>Melicius iranicus</i> (Osella, Zuppa & Lodos, 1993)	X
Cerambycidae	<i>Rhagium caucasicum</i> Reitter, 1889*	27	Curculionidae	<i>Orthotomicus suturalis</i> (Gyll., 1827)*	8
Cerambycidae	<i>Rhagium pygmaeum</i> Ganglbauer, 1881	X	Curculionidae	<i>Orthotomicus laticis</i> (Fabricius, 1792)*	8
Cerambycidae	<i>Stenocorus vittidorsum</i> (Reitter, 1890)*	27	Curculionidae	<i>Orthotomicus proximus</i> (Eichh., 1867)*	8
Cerambycidae	<i>Stenocorus insitivus</i> (Germar, 1824)*	X,27	Curculionidae	<i>Orthotomicus erosus</i> Wollaston, 1857*	8
Cerambycidae	<i>Strangalia attenuata</i> (Linnaeus, 1758)*	27	Curculionidae	<i>Orthotomicus mansfeldi</i> * Wollaston, 1857	8
Cerambycidae	<i>Stenopterus rufus</i> (Linnaeus, 1767)	X	Curculionidae	<i>Phloeotribus caucasicus</i> Reitter, 1891*	5
Cerambycidae	<i>Semnosia herminae</i> (Reitter, 1890)	27	Curculionidae	<i>Pteleobius vittatus</i> (Fabricius, 1787)	X
Cerambycidae	<i>Semnosia mirabilis</i> (Faldermann, 1837)	27	Curculionidae	<i>Pteleobius kraatzi</i> (Eichhoff, 1864)	X
Cerambycidae	<i>Stenurella bifasciata</i> (Müller, 1776)	27	Curculionidae	<i>Phloeosinus aubei</i> (Perris, 1855)*	5
Cerambycidae	<i>Stenurella nigra</i> (Linnaeus, 1758)	27	Curculionidae	<i>Phloeosinus cedri</i> Brisout de Barneville, 1883*	8
Cerambycidae	<i>Stenurella jaegeri</i> Hummel, 1825	29	Curculionidae	<i>Phloeosinus armatus</i> Reitter, 1887*	8
Cerambycidae	<i>Stenurella attenuata</i> (Linnaeus, 1758)	29	Curculionidae	<i>Platypus cylindrus</i> (Fabricius, 1792)*	8
Cerambycidae	<i>Stenurella septempunctata</i> (Fabricius, 1792)	27	Curculionidae	<i>Phloeophagus brignolii</i> Zuppa & Lodos, 1993	X
Cerambycidae	<i>Stictoleptura tonsa</i> Daniel 1891	X	Curculionidae	<i>Phloeophagus schoenherri</i> (Hochhuth, 1847)	X
Cerambycidae	<i>Stictoleptura tripartita</i> (Heyden, 1889)	27	Curculionidae	<i>Phloeotribus scarabaeoides</i> (Bernard 1788)	X
Cerambycidae	<i>Stictoleptura scutellata</i> (Fabricius, 1781)*	27	Curculionidae	<i>Pityophthorus micrographus</i> (Linnaeus, 1758)*	8



Family	Species	Source	Family	Species	Source
Curculionidae	<i>Pityogenes calcaratus</i> (Eichhoff, 1878)*	8	Curculionidae	<i>Scolytus ecksteini</i> Butovitsch, 1929*	4
Curculionidae	<i>Pityogenes chalcographus</i> (Linnaeus, 1761)*	8	Curculionidae	<i>Trachodes hystrix</i> Gyllenhal 1836	X
Curculionidae	<i>Pityogenes irkutensis</i> Eggers, 1910*	8	Curculionidae	<i>Trypophloeus granulatus</i> (Ratzeburg, 1837)*	3
Curculionidae	<i>Pityogenes quadridens</i> (Hartig, 1834)*	8	Curculionidae	<i>Tomicus destruens</i> (Wollaston, 1806)*	8
Curculionidae	<i>Pityogenes bidentatus</i> (Hbst., 1783)*	8	Curculionidae	<i>Trypophloeus granulatus</i> (Ratzeburg, 1837)*	3
Curculionidae	<i>Pityokteines curvidens</i> (Germ., 1824)*	8	Curculionidae	<i>Taphrorychus bicolor</i> (Herbst, 1793)*	8
Curculionidae	<i>Stereocorynes persicus</i> Folwaczny, 1966	X	Curculionidae	<i>Taphrorychus villifrons</i> (Dufour, 1843)*	8
Curculionidae	<i>Scolytus rugulosus</i> (Müller, 1818)*	4	Curculionidae	<i>Taphrorychus lenkoranus</i> Reitter, 1913*	5
Curculionidae	<i>Scolytus amygdali</i> Guérin-Méneville, 1847*	4	Curculionidae	<i>Taphrorychus ramicola</i> (Reitter, 1894)*	8
Curculionidae	<i>Scolytus eichhoffi</i> Reitter, 1894*	3	Curculionidae	<i>Taphrorychus villifrons</i> (Dufour, 1843)*	8
Curculionidae	<i>Scolytus intricatus</i> (Ratzeburg, 1837)*	4	Curculionidae	<i>Thamnurgus caucasicus</i> Reitter, 1887*	8
Curculionidae	<i>Scolytus koenigi</i> Schevyrew, 1890*	8	Curculionidae	<i>Thamnurgus delphinii</i> (Rosenhauer, 1856)*	8
Curculionidae	<i>Scolytus varshalovitchi</i> Michalski, 1973*	3	Curculionidae	<i>Thamnurgus varipes</i> Eichhoff, 1878*	8
Curculionidae	<i>Scolytus mali</i> (Bechstein, 1805)*	8	Curculionidae	<i>Trypodendron signatum</i> (Fabricius, 1792)*	8
Curculionidae	<i>Scolytus pygmaeus</i> (Fabricius 1787)*	5	Curculionidae	<i>Trypodendron lineatum</i> (Olivier, 1795)*	8
Curculionidae	<i>Scolytus scolytus</i> (Fabricius 1775)*	8	Curculionidae	<i>Treptoplatypus oxyurus</i> (Dufour, 1843)*	8
Curculionidae	<i>Scolytus sulcifrons</i> Rey, 1892	3	Curculionidae	<i>Xyleborus eurygraphus</i> (Ratzeburg, 1837)*	8
Curculionidae	<i>Scolytus ratzeburgi</i> Janson, 1856*	8	Curculionidae	<i>Xyleborinus saxeseni</i> (Ratz., 1837)*	8
Curculionidae	<i>Scolytus kirschii</i> Skalitzky, 1876*	8	Curculionidae	<i>Xyleborus monographus</i> (Fabricius, 1792)*	8
Curculionidae	<i>Scolytus ensifer</i> Eichhoff, 1881*	4	Curculionidae	<i>Xyleborus dryographus</i> (Ratzeburg, 1837)*	8
Curculionidae	<i>Scolytus multistriatus</i> (Marsham, 1802)*	4	Eucinetidae	<i>Euclodes caucasicus</i> (Reitter, 1885)	X
Curculionidae	<i>Scolytus orientalis</i> Eggers, 1910*	3			

### *Abraeus parvulus* Aubé, 1842

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24670.

**Distribution.** Austria, Belgium, Czech Republic, France, Germany, Hungary, Italy (Cate and Sánchez-Rui 2007; Lackner et al. 2015).

### *Abraeus perpusillus* (Marsham, 1802)

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1749 m; 2008; leg. Barimani; on *Carpinus betulus*, 4 spec.; COL-24671 • Galugah; 36°39'00"N, 053°50'24"E; 2016; leg. Lange; 2 spec. – Golestan • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.; COL-24672.

**Distribution.** Armenia, Austria, Belgium, Czech Republic, Denmark, France, Germany, Georgia, Hungary, Italy, Netherlands, Norway, Poland, Russia, Sweden, Switzerland, Ukraine (Lackner et al. 2015).

Genus *Dendrophilus* Leach, 1817

### *Dendrophilus punctatus* (Herbst, 1791)

**Material examined.** IRAN – Guilan • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 3 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Iran, Italy, the Netherlands, Portugal, Romania, Spain, Sweden (Lackner et al. 2015).

Genus *Eblisia* Lewis 1889

### *Eblisia minor* (Rossi, 1790)

**Material examined.** IRAN – Mazandaran • Sika; 36°

21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec. – Golestan • Shastkalateh; 36°43'41.7"N, 054°23'48.2"E; 2018; leg. Thorn; 6 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, the Netherlands, Portugal, Romania, Spain, Sweden, Ukraine (Lackner et al. 2015).

Genus *Epiurus* Erichson, 1834

### *Epiurus comptus* Erichson, 1834

**Material examined.** IRAN – Mazandaran • 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; on *Carpinus betulus* • Najjardeh; 36°34'22"N, 051°35'36"E; 2014; leg. Müller; COL-24673 • Galugah; 36°38'59.9"N, 053°50'24.0"E; 2016; leg. Lange; 4 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec. • Chalendar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. – Guilan • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 3 spec.; leg. Lange – Golestan • Gorgan, Shast Kalateh; 36°43'19"N, 054°38'27"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 4 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 6 spec.

**Distribution.** Armenia, Austria, Azerbaijan, Bulgaria, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Portugal, Slovakia, Spain, Syria, Turkey (Lackner et al. 2015).

Genus *Hololepta* Paykull, 1811

### *Hololepta plana* (Sulzer, 1776)

**Material examined.** IRAN – Mazandaran • Najjardeh; 36°34'22"N, 051°35'21"E; 1518 m; 2014; leg. Müller; COL-24674.

**Distribution.** Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine (Lackner et al. 2015).

Genus *Paromalus* Erichson, 1834

***Paromalus flavicornis* (Herbst, 1792)**

**Material examined.** IRAN – **Mazandaran** • Najjardeh; 36°34'22"N, 051°35'39"E; 497 m; 2014; leg. Müller; on *Fagus orientalis*; 1 spec. • Sari, Dodangeh–Pardkola–Bola; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 3 spec.; COL-24675 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. • Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018, leg. Thorn; 1 spec. – **Guilan** • Rezvanshahr, 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. – Gorgan • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 1 spec.

**Distribution.** Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Iran, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine; Africa (Lackner et al. 2015).

Genus *Platysoma* Leach, 1817

***Platysoma compressum* (Herbst, 1783)**

**Material examined.** IRAN – **Mazandaran** • Sari; 36°07'50"N, 053°25'24"E; 2051 m; 2014; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24676 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'29"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 8 spec.

**Distribution.** Algeria, Austria, Bulgaria, Czech Republic, Denmark, Finland, France, Georgia, Germany, Hungary, Iran, Italy, Latvia, Lithuania, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Syria, United Kingdom, Ukraine (Ghahari et al. 2017).

Genus *Plegaderus* Erichson, 1834

***Plegaderus caesus* (Herbst, 1792)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 3 spec.; COL-24677.

**Distribution.** Austria, Azerbaijan, Belgium, Belarus, Czech Republic, Denmark, Finland, France, Germany, Hungary, Iran, Italy, Latvia, Lithuania, the Netherlands, Norway, Poland, Romania, Slovakia, Spain, Russia,

Sweden, Switzerland, Turkey, United Kingdom, Ukraine (Ghahari et al. 2017).

***Plegaderus dissectus* Erichson, 1839**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24678.

**Distribution.** Belgium, Croatia, Czech Republic, Denmark, France, Germany, Hungary, Iran, Italy, the Netherlands, Poland, Romania, Southern European Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom (Ghahari et al. 2017).

***Plegaderus fortesculptus* Reitter, 1897**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24679.

**Distribution.** Azerbaijan, Iran (Ghahari et al. 2017).

Genus *Teretrius* Erichson, 1834

***Teretrius fabricii* Mazur, 1972**

**Material examined.** IRAN – **Mazandaran** • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; leg. Barimani; 1 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.; COL-24680.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine, Iran, Syria, Uzbekistan (Lackner et al. 2015).

Family Leiodidae Fleming, 1821

Genus *Agathidium* Panzer, 1797

***Agathidium badium* Erichson, 1845**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 5 spec.; COL-24681.

**Distribution.** Armenia, Azerbaijan, France, Georgia, Greece, Iran, Portugal, Russia, Turkey (Angelini 1995; Perreau 2015; Perreau et al. 2017).

***Agathidium marginatum* Sturm, 1807**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24682.

**Distribution.** Austria, Belgium, Bulgaria, China, Czech Republic, Iran, the Netherlands, Portugal, Romania, Russia, Spain, Sweden (Perreau 2015; Perreau et al. 2017).



***Agathidium discoideum* Erichson, 1845**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24683.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, the Netherlands, Portugal, Romania, Spain, Sweden, Ukraine (Perreau 2015; Perreau et al. 2017).

Genus *Anisotoma* Panzer, 1797

***Anisotoma axillaris* Gyllenhal, 1810**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 2015; leg. Barimani; on *Carpinus* sp.; COL-24684.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine, United Kingdom (Perreau 2015).

***Anisotoma orbicularis* (Herbst, 1792)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24685.

**Distribution.** Azerbaijan, Georgia, Iran, Japan, Russia, Turkey (Angellini 1995; Perreau 2015).

***Anisotoma humeralis* (Fabricius, 1792)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24686.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine (Perreau 2015).

Family Staphylinidae Lameere, 1900

Genus *Anomognathus* Kraatz, 1856

***Anomognathus cuspidatus* (Erichson, 1839)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24687.

**Distribution.** Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Anotylus* Thomson, 1859

***Anotylus sculpturatus* (Gravenhorst, 1806)**

**Material examined.** IRAN – **Mazandaran** • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec.; COL-24688.

**Distribution.** India, Pakistan (Smetanana 2004).

Genus *Atheta* Thomson, 1858

***Atheta picipes* (Thomson, 1856)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 40 spec.; COL-24689.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Norway, Poland, Romania (Smetanana 2004).

***Atheta boletophila* (Thomson, 1856)**

**Material examined.** IRAN – **Mazandaran** • Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; leg. Thorn; 1 spec. • Shafarood; 37°40'15.8"N, 048°45'00.3"E; 2018; leg. Thorn; 1 spec.; COL-24690.

**Distribution.** Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Italy, the Netherlands, Norway, Poland, Sweden, Switzerland (Smetanana 2004).

Genus *Batrisodes* Reitter, 1882

***Batrisodes buqueti* (Aubé, 1833)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24691.

**Distribution.** Austria, Croatia, Czech Republic, France, Germany, Georgia, Italy, Macedonia, Spain, Switzerland, Turkey, Ukraine (Smetanana 2004).

Genus *Bolitochara* Mannerheim, 1830

***Bolitochara obliqua* Erichson, 1837**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 4 spec.; COL-24692.

**Distribution.** Azerbaijan, Armenia, Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Georgia, Italy, the Netherlands, Poland, Romania, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Carphacis* Des Gozis, 1886

***Carphacis jarrigei* Schülke, 1994**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 12 spec.; COL-24693.

**Distribution.** Iran (Samin et al. 2011).

Genus *Dexiogyia* Thomson, 1858

***Dexiogyia corticina* (Erichson, 1837)**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'29"E; 977 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24694.

**Distribution.** Armenia, Austria, Azerbaijan, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Georgia, Italy, Poland, Romania, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Euplectus* Leach, 1817

***Euplectus bescidicus* Reitter, 1882**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24694.

**Distribution.** Austria, Czech Republic, Denmark, Finland, Germany, Hungary, the Netherlands, Norway, Poland, Romania, Serbia, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Haploglossa* Kraatz, 1856

***Haploglossa villosula* (Stephens, 1832)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 6 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 7 spec.; COL-24695

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, Latvia, the Netherlands, Norway, Poland, Russia, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Leptusa* Kraatz, 1856

***Leptusa longalata* Assing, 2007**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 2 spec.; COL-24696.

**Distribution.** Iran (Assing 2007)

Genus *Lordithon* Thomson, 1859

***Lordithon bimaculatus* (Schrank, 1798)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24697.

**Distribution.** Austria, Bulgaria, Croatia, France, Germany, Georgia, Italy, Spain (Smetanana 2004).

***Lordithon trimaculatus* (Fabricius, 1793)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 12 spec.; COL-24698 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 3 spec. • Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Austria, Azerbaijan, Croatia, Czech Republic, Denmark, France, Germany, Georgia, Iran, Italy, Latvia, the Netherlands, Norway, Poland, Romania, Sweden, Switzerland, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007).

Genus *Nudobius* Thomson 1860

***Nudobius fasciatus* (Hochhuth, 1849)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24699 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Azerbaijan, Belgium, Czech Republic, Denmark, Finland, Germany, Hungary, Italy, Latvia, Netherlands, Norway, Poland, Russia, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Phloeonomus* Heer 1839

***Phloeonomus punctipennis* Thomson, 1867**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24700.

**Distribution.** Austria, Azerbaijan, Belgium, Czech Republic, Denmark, Finland, Germany, Hungary, Italy, Latvia, Netherlands, Norway, Poland, Russia, Sweden, Switzerland, Ukraine (Smetanana 2004).

Genus *Phloeostiba* Thomson 1858

***Phloeostiba plana* (Paykull, 1792)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24701.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, Germany, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine, Serbia, Turkey (Cate and Sánchez-Ruiz 2007)



Genus *Phloeopora* Erichson, 1837

***Phloeopora corticalis* (Gravenhorst, 1802)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 8 spec. – **Golestan** • Shastkalateh; 36°43'4173"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.; COL-24702.

**Distribution.** Albania, Austria, Azerbaijan, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, Latvia, Macedonia, Norway, the Netherlands, Poland, Romania, Spain, Sweden, Switzerland, Turkey, Ukraine (Smetanana 2004)

Genus *Quedius* Stephens, 1829

***Quedius microps* Gravenhorst, 1847**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24703.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Hungary, Italy, Latvia, Poland, Romania, Slovenia, Spain, Sweden, Switzerland (Smetanana 2004).

***Quedius mixtus* Eppelsheim, 1890**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 3 spec.; COL-24704

**Distribution.** Azerbaijan, Iran (Smetanana 2004).

***Quedius cruentus* (Olivier, 1795)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24705.

**Distribution.** Algeria, Caucasus, Europe, India, Morocco, Russia, Tunisia, Turkey (Smetanana 2004).

Genus *Sepedophilus* Gistel, 1856

***Sepedophilus bipustulatus* (Gravenhorst, 1802)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'40"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. – **Guilan** • Shafarood;

37°40'15"N, 048°45'0.27"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24706

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Hungary, Italy, Latvia, Poland, Romania, Slovenia, Spain, Sweden, Switzerland, Ukraine. (Smetanana 2004).

Genus *Zeteotomus* Jacquelin du Val, 1856

***Zeteotomus scripticollis* (Hochhuth, 1849)**

**Material examined.** IRAN – **Mazandaran** • Sari; Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec.; COL-24707.

**Distribution.** Azerbaijan, Georgia, Hungary, Russia (Smetanana 2004).

Family Melyridae Laporte, 1840

Genus *Dasytes* Paykull, 1799

***Dasytes plumbeus* (Müller, 1776)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; on *Alnus subcordata*, 12 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; on *Carpinus betulus*, 9 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani, on *Quercus castanifolia*, 76 spec.; COL-24708

**Distribution.** Austria, Azerbaijan, Belgium, Denmark, Finland, France, Hungary, Iran (Mayor 2007).

Family Cleridae Latreille, 1802

Genus *Opilo* Latreille, 1802

***Opilo mollis* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Kelardasht; 36°32'43.1"N, 051°4'48.71"E; 2016; leg. Lange; 1 spec.; COL-24709

**Distribution.** United Kingdom (Tihelka 2016).

Genus *Korynetes* Herbst, 1792

***Korynetes caeruleus* (De Geer, 1775)**

**Material examined.** IRAN – **Mazandaran** • Semeskan-deh; 36°33'38.2"N, 053°10'23.9"E; 2018; leg. Thorn; 1 spec.; COL-24710.

**Distribution.** Algeria, Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Hungary, Italy, Latvia, Poland, Romania, Slovenia, Spain, Sweden, Switzerland (Löbl et al. 2007).

Genus *Thanasimus* Latreille, 1806

***Thanasimus femoralis* (Zetterstedt, 1828)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'

35°E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24711.

**Distribution.** Algeria, Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Hungary, Italy, Latvia, Poland, Romania, Slovenia, Spain (Löbl et al. 2007).

***Thanasimus formicarius* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2016; leg. Lange; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec. – **Guilan** • Rezvanshahr, 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 2018; 1 spec.; COL-24712.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Hungary, Italy, Latvia, Poland (Gerstmeier 1998).

Genus *Tilloidea* Laporte de Castelnau, 1832

***Tilloidea unifasciata* (Fabricius, 1787)**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24713.

**Distribution.** Egypt, Europe, India, Iran, Turkey (Löbl et al. 2007).

Genus *Tillus* Olivier, 1790

***Tillus elongatus* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • 39°30'25"N, 040°02'11"E; 1618 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec. • Dodangeh; 39°08'20"N, 054°24'32"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24714.

**Distribution.** Caucasus, Europe, Kazakhstan (Löbl et al. 2007).

Family Derodontidae LeConte, 1861

Genus *Derodontus* LeConte, 1861

***Derodontus osseticus* Nikitsky, 1993**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24715.

**Distribution.** Russia (Háva 2007).

Family Trogossitidae Latreille, 1802

Genus *Grynocharis* Thomson, 1859

***Grynocharis pubescens* (Erichson, 1844)**

**Material examined.** IRAN – Mazandaran • 36°07'50"

N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 5 spec. • Haftkhal; 36°17'45.5"N 53°30'37.8"E; 2015; leg. Barimani; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec.; COL-24716.

**Distribution.** Georgia, Ukraine (Kolibac 2007).

Genus *Nemozoma* Latreille, 1804

***Nemozoma caucasicum* Ménétrés, 1832**

**Material examined.** IRAN – Mazandaran • 39°30'25"N, 040°02'11"E; 1618 m; 2015; leg. Barimani; on *Carpinus betulus*, 11 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.; COL-24717.

**Distribution.** Austria, Poland, Russia, Ukraine (Kolibac 2007).

***Nemozoma cornutum* Sturm, 1826**

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 2 spec. • Sika; 36°21'24.1"N, 053°32'27.5"E; 2017; leg. Lange; 1 spec. Guilan, Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 3 spec.; COL-24718.

**Distribution.** Russia, Ukraine (Kolibac 2007).

Genus *Tenebroides* Piller & Mitterpacher, 1783

***Tenebroides mauritanicus* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 3 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec. – **Guilan** • Punel; 37°31'47.2"N, 049°05'53.8"E; 2017; leg. Lange; 1 spec. • Shafarood; 37°40'15.8"N, 048°45'00.3"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Loveh, 37°18'36"N, 055°40'12"E; 2017; leg. Lange; 1 spec.; COL-24719.

**Distribution.** Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Ukraine (Kolibac 2007).

Family Elateridae Leach, 1815

Genus *Anostirus* Tomson, 1859

***Anostirus lederi* (Heyden, 1878)**

**Material examined.** IRAN – Mazandaran • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Georgia, Iran, Russia, Turkey (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).



Genus *Ampedus* Linnaeus, 1758

***Ampedus elegantulus* (Schönherr, 1817)**

**Material examined.** IRAN – **Golestan** • Loveh; 37° 19'06"N, 055°40'36"E; 2016; 2016; leg. Lange; on *Carpinus* sp. • Galugah; 36°39'07"N, 053°50'27"E; 1216 m; 2014; leg. Müller; on *Fagus orientalis*; 2 spec.; COL-24720 • Sika; 36°21'23.1"N, 053°32'20.2"E; 2016; leg. Thorn; 3 spec. – **Guilan** • Taylesh; 37°40'15.2"N, 048°45'09.7"E; 2017; leg. Lange; 2 spec. • Shafarood; 37°40'15.8"N, 048°45'00.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Albania, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Iran, Italy, Latvia, Lithuania, Moldavia, Netherlands, Poland, Romania, southern European Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007; Pedroni and Platia 2010; Tamutis et al. 2010).

***Ampedus biformis* Dolin, 1970**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 2 spec.; COL-24721 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Iran (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

***Ampedus hjorti* (Rye, 1905)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 2015; 1202 m; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24722 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 7 spec.

**Distribution.** Austria, Czech Republic, Denmark, Germany, Greece, Hungary, Iran, Latvia, Lithuania, the Netherlands, Poland, Slovakia, Sweden (Cate and Sánchez-Ruiz 2007).

***Ampedus lenkoranus* (Reitter, 1889)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24723 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 3 spec.

**Distribution.** Armenia, Azerbaijan, Iran, southern European Russia (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

***Ampedus pomonae* (Stephens, 1830)**

**Material examined.** IRAN – **Mazandaran** • Sika; 36° 21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Guilan** • Shafarood; 37°40'15.8"N 48°45'00.3"E; 2018; leg. Thorn; 1 spec.; COL-24724.

**Distribution.** Austria, Azerbaijan, Belgium, Czech Republic, Denmark, Finland, Germany, Hungary, Iran, Italy, Latvia, the Netherlands, Norway, Poland, Russia, Sweden, Switzerland, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

***Ampedus rufipennis* (Stephens, 1830)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 5 spec.; COL-24725 – **Guilan** • Shafarood; 37°40'15.8"N, 048°45'00.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Albania, Algeria, Armenia, Austria, Azerbaijan, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Moldavia, Morocco, Poland, Portugal, Romania, southern European Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007; Mertlik and Platia 2008; Pedroni and Platia 2010).

***Ampedus sinuatus* Germar, 1844**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 3 spec.; COL-24726 • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 4 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2016; leg. Lange; 1 spec. • Kelardasht; 36°32'43.1"N, 051°4'48.7"E; 2016; leg. Lange; 1 spec.

**Distribution.** Albania, Armenia, Austria, Azerbaijan, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Moldavia, Poland, Romania, southern European Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Switzerland, Syria, Turkey, Ukraine (Platia 2005; Cate and Sánchez-Ruiz 2007; Pedroni and Platia 2010; Platia and Ghahari 2016).

***Ampedus sanguineus* (Linnaeus, 1758)**

**Material examined.** IRAN – **Guilan** • Asalem; 37° 28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 12 spec. • Shafarood, 37°40'15"N, 048°45'09"E; 2018; leg. Kazerani; 1138 m; 8 spec.

**Distribution.** Albania, Armenia, Austria, Azerbaijan, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Moldavia, Poland, Romania, Southern European Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain,

Switzerland, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007; Pedroni and Platia 2010).

Genus *Drapetes* Dejean, 1821

***Drapetes mordelloides* (Host, 1789)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 7 spec.; COL-24727.

**Distribution.** Austria, Azerbaijan, Belarus, Croatia, Czech Republic, Estonia, Finland, France, Georgia, Hungary, Italy, Kazakhstan, Latvia, Liechtenstein, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Syria, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007).

***Drapetes talyshensis* Dolin & Agajev, 1985**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 5 spec.; COL-24728.

**Distribution.** Azerbaijan (Cate and Sánchez-Ruiz 2007).

Genus *Elater* Linnaeus, 1758

***Elater ferrugineus* Linnaeus, 1758**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E ; 846 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Algeria, Armenia, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Ukraine (Cate 2007).

Genus *Elathous* Reitter, 1890

***Elathous brucki* (Candèze, 1878)**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Loveh, 37°18'36"N, 055°40'12"E; 2017; leg. Lange; 1 spec.

**Distribution.** Georgia (Cate and Sánchez-Ruiz 2007).

Genus *Hypoganus* Kiesenwetter, 1858

***Hypoganus stepanovi* Denisova, 1948**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24728 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. • Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; leg. Thorn; 1 spec.

– **Guilan** • Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 1 spec. • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Armenia, Georgia, Iran, southern European Russia, Turkey (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

Genus *Ischnodes* Germar, 1844

***Ischnodes sanguinicollis* (Panzer, 1793)**

**Material examined.** IRAN – **Mazandaran** • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Austria, Azerbaijan, Belgium, Bosnia and Herzegovina, Caucasus, Croatia, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Iran, Italy, Japan, Moldavia, Poland, Romania, Slovakia, Siberia, Slovenia, Sweden, Switzerland, Spain, Syria, Ukraine (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

Genus *Lacon* Laporte, 1838

***Lacon mertliki* Kunderata, Németh & Jarzabek-Müller, 2019**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'27"N, 054°38'38"E; 833 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Iran (Kunderata et al. 2019).

Genus *Limoniscus* Reitter, 1905

***Limoniscus wittmeri* Chassain, 1998**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24729.

**Distribution.** Iran (Cate and Sánchez-Ruiz 2007).

Genus *Melanotus* Eschscholtz, 1829

***Melanotus castanipes* (Paykull, 1800)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 14 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m, 2015; leg. Barimani; on *Carpinus betulus*; 12 spec.; COL-24730 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 49 spec.

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Turkey, Ukraine; Nearctic Region (Cate and Sánchez-Ruiz 2007).

***Melanotus rufipes* (Herbst, 1784)**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007).

***Melanotus villosus* (Geoffroy, 1785)**

**Material examined.** IRAN – **Mazandaran** • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Algeria, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Turkey, Ukraine (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

Genus *Megathous* Reitter, 1905

***Megathous menetriesi* (Reitter, 1890)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 2 spec.; COL-24731 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 19 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Iran (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

Genus *Procraerus* Reitter, 1905

***Procraerus stepanovi* Iablokoff-Khuzorian, 1959**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 8 spec.; COL-24732 • Kelardasht; 36°32'43.1"N, 051°4'48.7"E; 2017; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'19"N, 054°38'27"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Iran (Cate and Sánchez-Ruiz 2007; Platia and Ghahari 2016).

Family Eucnemidae Eschscholtz, 1829

Genus *Clypeorhagus* Olexa, 1975

***Clypeorhagus clypeatus* (Hampe, 1850)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24733 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'27"E; 983 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Italy, Germany, Hungary, Latvia, Poland, Romania, Ukraine (Mouna 2007).

Genus *Dirrhagofarsus* Fleutiaux, 1935

***Dirrhagofarsus ferrugineus* (Reitter, 1889)**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24734.

**Distribution.** Azerbaijan, Turkmenistan, Iran (Kovalev 2016)

Genus *Dromaeolus* Kiesenwetter, 1858

***Dromaeolus gracilicornis* Roubal, 1912**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24735.

**Distribution.** Austria, Bulgaria, Croatia, Russia, Czech Republic, France, Germany, Hungary, Italy, Poland, Romania, Sweden (Mouna 2007).

Genus *Hylis* Gozis, 1886

***Hylis matthiesseni* (Reitter, 1906)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24736.

**Distribution.** Caucasus (Cate and Sánchez-Ruiz 2007).

Genus *Isorhipis* Boisduval & Lacordaire, 1835

***Isorhipis melasoides* (Laporte, 1835)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 2 spec.; COL-24737.

**Distribution.** Austria, Bulgaria, Croatia, Russia, Czech Republic, France, Germany, Hungary, Italy, Poland, Romania, Sweden, Turkey (Cate and Sánchez-Ruiz 2007).

***Isorhipis nigriceps* (Mannerheim, 1823)**

**Material examined.** IRAN – **Mazandaran** • Sari,



Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 2 spec. • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Guilan** • Rezvanshhar; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 5 spec. • Taylesh; 37°40'15.2"N, 048°45'09.7"E; 2017; leg. Lange; 2 spec.; COL-24738.

**Distribution.** Azerbaijan, Armenia, Bulgaria, Croatia, France, Hungary, Romania, Turkey (Mouna 2007).

Genus *Melasis* Olivier, 1790

***Melasis buprestoides* (Linnaeus, 1761)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 4 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 7 spec.; COL-24739 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 6 spec. • Haftkhal; 36°17'47.5"N, 053°30'45.0"E, 2015; leg. Barimani; 1 spec. – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 3 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Poland, Romania, Spain, Sweden, Switzerland, Turkey (Mouna 2007).

Genus *Microrhagus* Dejean, 1833

***Microrhagus palmi* (Olexa, 1963)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24740.

**Distribution.** Belgium, Bulgaria, Russia, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, the Netherlands, Norway, Poland, Romania, Sweden, Switzerland (Mouna 2007).

Genus *Rhacopus* Hampe, 1855

***Rhacopus ferrugineus* (Reitter, 1889)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24741 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.

**Distribution.** Iran (Mouna 2007).

Genus *Xylophilus* Mannerheim 1823

***Xylophilus leseigneuri* Olexa, 1960**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 6 spec.; COL-24742 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 10 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 7 spec.

**Distribution.** Georgia (Mouna 2007).

***Xylophilus talyshensis* Olexa, 1969**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24743.

**Distribution.** Azerbaijan (Mouna 2007).

Family Buprestidae Leach, 1815

Genus *Acmaeodera* Eschscholtz, 1829

***Acmaeodera rufoguttata* Reitter, 1890**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 3 spec.; COL-24744.

**Distribution.** Azerbaijan, Iran (Volkovitsh 1986; Ghahari et al. 2015).

***Acmaeodera pilosellae* (Bonelli, 1812)**

**Material examined.** IRAN – **Mazandaran** • Sari, Alamdardeh; 36°21'21"N, 053°15'60"E, 396 m; 2007; leg. Barimani • Pahnehcola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani; COL-24745 • Savadkoh, Sorkh-Abad; 35°58'15"N, 053°00'29"E; 1128 m; 2008; leg. Barimani; on *Haplophyllum perforatum*.

**Distribution.** Armenia, Azerbaijan, Georgia, Turkey, Turkmenistan (Volkovitsh 2006; Bellamy 2006).

Genus *Acmaeoderella* Cobos, 1955

***Acmaeoderella flavofasciata* (Pilleret Mitterparcher, 1783)**

**Material examined.** IRAN – **Mazandaran** • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2007; leg. Barimani; COL-24745 • Savadkoh, Sorkh-Abad; 35°58'15"N, 053°00'29"E; 1128 m; 2008; leg. Barimani; on *Haplophyllum perforatum* • Kordmir; 36°14'57"N, 053°42'37"E; 1857 m; 2008; leg. Barimani.

**Distribution.** Albania, Algeria, Armenia, Austria, Azerbaijan, Bosnia-Herzegovina, Bulgaria, China, Croatia, Cyprus, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iraq, Israel, Italy, Kazakhstan, Kyrgyzstan, Macedonia, Moldova, Mongolia, Montenegro, Morocco, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Syria, Switzerland, Tajikistan, Tunisia,

Turkmenistan, Ukraine, Uzbekistan (Bellamy 2008). Iran, Iraq, Turkey (Volkovitsh 2006; Ghahari et al. 2015).

***Acmaeoderella mimonti* (Boieldieu, 1865)**

**Material examined.** IRAN – Mazandaran • Poshtekoh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani; COL-24746

**Distribution.** Georgia, Kazakhstan, Turkmenistan, SW Siberia, Turkey, Armenia, Azerbaijan (Kuban 2016).

***Acmaeoderella gibbulosa* (Ménétriés, 1832)**

**Material examined.** IRAN – Mazandaran • Poshtekoh Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani; COL-24748 • Savadkoh Sorkh-Abad, 35°58'15"N, 053°00'29"E; 1128 m; 2008; leg. Barimani; on *Haplophyllum perforatum*.

**Distribution.** Bulgaria, Macedonia, Greece, Ukraine, Southern Russia, Turkey, Jordan, Israel, Syria, Lebanon, Iraq, Turkmenistan, Iran (Volkovitsh 1986; Ghahari et al. 2015).

Genus *Agrilus* Curtis, 1825

***Agrilus graminis* Kiesenwetter, 1857**

**Material examined.** IRAN – Mazandaran • Najjardeh; 36°34'22"N, 051°35'21"E; 88 m; 2014; leg. Müller; COL-24749

**Distribution.** Albania, Algeria, Armenia, Austria, Azerbaijan, Belarus, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Italy, Macedonia, Moldavia, Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Syria, Tunisia, Turkey, Ukraine (Jendek 2006; Bellamy 2008).

***Agrilus viridis* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • Pahnehkola; 36°27'30"N, 053°05'21"E; 171 m; 2007; leg. Barimani. Sari, Alamdardeh; 36°21'21"N, 053°15'26"E, 396 m; 2007; Haftkhal; leg. Barimani; COL-24750.

**Distribution.** Albania, Austria, Belgium, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Italy, Macedonia, Moldavia, Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland (Volkovitsh 2006).

***Agrilus biguttatus* (Fabricius, 1777)**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2008; leg. Barimani; COL-24751.

**Distribution.** Albania, Algeria, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Denmark, Estonia, France, Great Britain, Germany, Greece, Hungary, Italy, Kazakhstan, Latvia, Lithuania, Luxembourg, Macedonia, Moldavia, Morocco, the Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia,

Spain, Sweden, Syria, Switzerland, Turkey, Ukraine Iran (Behdad 1988; Abai 1984; Jendek 2006; Bellamy 2008; Ghahari et al. 2015)

***Agrilus hastulifer* (Ratzeburg, 1837)**

**Material examined.** IRAN – Mazandaran • Neka, Kuhsar-kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; leg. Barimani; on *Quercus castaneifolia*; COL-24752.

**Distribution.** Albania, Austria, Belgium, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Italy, Macedonia, Moldavia, Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Iraq, Iran (Volkovitsh 2006; Ghahari et al. 2015).

***Agrilus derasofasciatus* Lacordaire, 1835**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'32"E; 396 m; 2007; leg. Barimani • Pahneh Kola; 36°27'30"N, 053°05'26"E; 171 m; 2008; leg. Barimani • Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani; COL-24753.

**Distribution.** Southern and Central Europe, Israel, Lebanon, Syria, Turkey, Turkmenistan (Kuban 2016).

***Agrilus obscuricollis* Kiesenwetter, 1857**

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'36"N, 053°28'30"E; 1600 m; 2007; leg. Barimani • Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2007 • Sari, Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2007; leg. Barimani; COL-24754.

**Distribution.** Southern and Central Europe, Algeria, Israel, Turkey, Iran (Kuban 2016).

***Agrilus pratensis* (Ratzeburg, 1837)**

**Material examined.** IRAN – Mazandaran • Poshtekoh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m, 2008; leg. Barimani; COL-24755.

**Distribution.** Western Europe, China, Siberia, Russian Far East, Mongolia (Obenberger 1934), Iran (Jendek 2006).

Genus *Anthaxia* Eschscholtz, 1829

***Anthaxia hyrcana* Kiesenwetter & Kirsch, 1880**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2008; leg. Barimani • Pahnehkola; 36°27'30"N, 053°05'26"E; 171 m; 2008; leg. Barimani; COL-24756.

**Distribution.** Talysh Mountains in southern Azerbaijan, Iran (Kuban 2016).

***Anthaxia intermedia* Obenberger, 1913**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2008; leg. Barimani; on *Quercus castaneifolia* • Sari, Varand; 36°22'05"N, 053°11'33"E; 413 m; 2007; leg. Barimani; on *Zelkova carpiniifolia* • Pahnehkola; 36°27'30"N, 053°

05°26"E; 171 m; 2008; leg. Barimani; COL-24756.

**Distribution.** Azerbaijan, Georgia, Russia, Iran (Kuban 2016).

*Anthaxia passerine* (Pecchioli, 1837)

**Material examined.** IRAN – Mazandaran • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani; COL-24757.

**Distribution.** Sardinia, Italy, Yugoslavia, southern Bulgaria, Greece, Turkey, Caucasus, Transcaucasia, western Turkmenistan, Iran (Kuban 2016).

*Anthaxia hungarica* (Scopoli, 1772)

**Material examined.** IRAN – Mazandaran • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani; COL-24758.

**Distribution.** Sardinia, Italy, former Yugoslavia, southern Bulgaria, Greece, Turkey, Caucasus, Transcaucasia, western Turkmenistan, Iran (Behdadf1988; Ghahari et al. 2015)

*Anthaxia cichorii* (Olivier, 1790)

**Material examined.** IRAN – Mazandaran • Behshar, Pasand village; 36°49'36"N, 053°28'32"E; 27 m; 2007; leg. Barimani • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Anthemis altissima* • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2007 • Kordmir; 36°14'57"N, 053°42'37"E; 1857 m; 2008; leg. Barimani; on *Anthemis altissima* • Niala; 36°21'0"N, 053°30'0"E; 2016; leg. Simandi; COL-24759.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, Israel, Syria, Turkmenistan, Iran (Kuban 2016).

*Anthaxia sponsa* Kiesenwetter, 1857

**Material examined.** IRAN – Mazandaran • Poshte-Koh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani; COL-24758.

**Distribution.** Bulgaria, Romania, Greece, Transcaucasia, Turkey, Israel, Lebanon, Syria, Jordan, Turkmenistan (Kuban 2016).

Genus *Coraebus* Gory & Laporte, 1839

*Coraebus elatus* (Fabricius, 1787)

**Material examined.** IRAN – Mazandaran • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani • Kordmir; 36°14'57"N, 053°42'37"E; 1857 m; 2008; leg. Barimani; on *Anthemis altissima* • Poshte-Koh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; on *Prunus domestica*; leg. Barimani; COL-24759.

**Distribution.** Azerbaijan, Albania, Austria, Belgium, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Italy, Macedonia, Moldavia,

Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Iraq, Iran, Turkey (Kuban 2016).

*Coraebus rubi* (Linnaeus, 1767)

**Material examined.** IRAN – Mazandaran • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani; COL-24760.

**Distribution.** Albania, Austria, Belgium, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Italy, Macedonia, Moldavia, Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Iraq, Iran, Turkey (Kuban 2016).

Genus *Capnodis* Eschscholtz, 1829

*Capnodis tenebricosa* (Oliver, 1790)

**Material examined.** IRAN – Mazandaran • Evel Village; 36°14'01"N, 053°40'16"E; 1686 m; 2008; leg. Barimani; on *Rumex acetelosa*; COL-24761 • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani • Pahnehkola; 36°27'30"N, 053°05'36"E; 171 m; 2008; leg. Barimani; on *Rumex acetelosa*.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Asia, Caucasus, Iraq, Afghanistan, Iran (Kuban 2016).

*Capnodis tenebrionis* (Linnaeus, 1761)

**Material examined.** IRAN – Mazandaran • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2007; on *Prunus vulgaris*; leg. Barimani • Poshte-Koh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani; on *Cerasus avium* and *Prunus domestica*; COL-24762.

**Distribution.** Widely distributed in Mediterranean Region, in Central Europe, Ukraine, Caucasus, Iraq, Uzbekistan, Kazakhstan, Iran (Kuban 2016).

Genus *Chrysobothris* Eschscholtz, 1829

*Chrysobothris affinis* (Fabricius, 1794)

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2007; leg. Barimani; on *Quercus ncastaneifolia* • Haftkhal; 36°17'36"N, 053°28'30"E; 1600 m; 2007; leg. Barimani; COL-24763 • Pahnehkola; 36°27'30"N, 053°05'36"E; 171 m; 2008; leg. Barimani • Neka, Kuhsar-kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2008; leg. Barimani; on *Quercus castaneifolia*.

**Distribution.** Europe, Transcaucasia, Asia, Kazakhstan, Iran (Radjabi 1991; Ghahari et al. 2015).



Genus *Dicerca* Eschscholtz, 1829

***Dicerca fritillum* Ménériés, 1832**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. • Sari, Amreh; 36°24'35"N, 053°08'20"E; 300 m; 2007; leg. Barimani • Savadkoh, Polsephid, Amirkola; 36°05'40"N, 053°04'30"E; 870 m; 2007; leg. Barimani • Neka, Balarandin, Qhormaraz; 36°36'58"N, 053°22'00"E; 270 m; 2008; leg. Barimani; on *Carpinus betula* • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°21'26"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Turkmenistan; Iran (Borumann 2002; Ghahari et al. 2015).

***Dicerca scabida* Marseul, 1865**

**Material examined.** IRAN – **Mazandaran** • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2007; leg. Barimani; COL-24764.

**Distribution.** Azerbaijan, Iran (Kuban 2016).

Genus *Perotis* Dejean, 1833

***Perotis lugubris* (Fabricius, 1777)**

**Material examined.** IRAN – **Mazandaran** • Poshtekoh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani; on *Prunus domestica*; COL-24765.

**Distribution.** Europe, Mediterranean region, Iraq, Turkmenistan, Iran (Abai 1984; Behdad 1988; Kubň 2006; Ghahari et al. 2015).

Genus *Lamprodila* Motschulsky, 1860

***Lamprodila tuerki* (Ganglbauer, 1882)**

**Material examined.** IRAN – **Mazandaran** • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani; COL-24766.

**Distribution.** Azerbaijan, Iran (Kubň 2006).

Family Dermestidae Latreille, 1807

Genus *Globicornis* Latreille, 1829

***Globicornis antoniae* (Reitter, 1884)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'40"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 12 spec. • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec.; COL-24767.

**Distribution.** Armenia, Azerbaijan, Russia (Dagestan) (Háva 2015a).

Genus *Paranovelsis* Casey, 1900

***Paranovelsis hyrcanus* (Zhantiev, 2009)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24768.

**Distribution.** Azerbaijan (Háva 2015a).

Family Cerylonidae Billberg, 1820

Genus *Cerylon* Latreille, 1802

***Cerylon ferrugineum* Stephens, 1830**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 1384 m; 2015; leg. Barimani; on *Fagus orientalis* and *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Haftkhal; 36°17'43.4"N, 053°30'52.2"E; 2015; leg. Barimani; 1 spec. – **Golestan** • Loveh; 37°19'5.5"N, 055°40'34.0"E; 2016; leg. Lange; 1 spec.; COL-24769.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey (Ślipiński 2007).

***Cerylon histeroides* (Fabricius, 1792)**

**Material examined.** IRAN – **Mazandaran**, Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018; leg. Thorn; 4 spec.; COL-24770.

**Distribution.** Azerbaijan, Algeria, Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland Ukraine, Russia (Ślipiński 2007).

Genus *Hypodacne* LeConte, 1875

***Hypodacne edithae* (Reitter, 1897)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. • 36°30'25"N, 040°02'42"E; 2015; leg. Barimani; on *Carpinus betulus* • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec.; COL-24771 – **Guilan** • Taylesh; 37°40'15.2"N, 048°45'09.7"E; 2017; leg. Lange; 1 spec. – **Golestan** • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 1 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Armenia (Ślipiński 2007).

Genus *Philothermus* Aubé, 1843

***Philothermus semistriatus* (Perris, 1865)**

**Material examined.** IRAN – Mazandaran • Njajardeh; 36°34'22"N, 051°35'26"E; 537 m; 2014; leg. Müller • Sari, Dodangeh; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. H. Barimani; on *Fagus orientalis* • Sari, Dodangeh–Pardkola; Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; COL-24772 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Carpinus betulus*, 5 spec.; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, France, Greece, Hungary, Italy, Spain, Turkey, Tunisia (Ślipiński 2007).

***Philothermus conicicollis* Roubal, 1923**

**Material examined.** IRAN – Mazandaran • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec.; COL-24773.

**Distribution.** Azerbaijan, Russia, Iran (Ślipiński 2007)

Family Nitidulidae Latreille, 1802

Genus *Eपुरaea* Erichson, 1843

***Eपुरaea biguttata* (Thunberg, 1784)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24774.

**Distribution.** Azerbaijan, Algeria, Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland Ukraine, Russia (Jelínek and Audiso 2007).

***Eपुरaea longula* Erichson, 1845**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24775.

**Distribution.** Azerbaijan, Algeria, Austria, Belgium, Bulgaria, Croatia, Russia, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Turkey, Ukraine (Jelínek and Audiso 2007).

***Eपुरaea melanocephala* (Marsham, 1802)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 6 spec. • Sari,

Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 4 spec.; on *Fagus orientalis*; 1 spec.; COL-24776 – Golestan • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Algeria, Morocco, Tunisia, Iran (Audiso et al. 2000; Lason and Ghahari 2013)

***Eपुरaea silacea* (Herbst, 1783)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. – Guilan • Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 3 spec.; COL-24777.

**Distribution.** Albania, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Denmark, Estonia, Finland, France, Germany, Georgia, Greece, Great Britain, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Moldavia, Mongolia, Montenegro, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Sweden, Switzerland, the Netherlands, Ukraine (Audiso et al. 2000; Lason and Ghahari 2013)

Family Monotomidae Laporte, 1840

Genus *Rhizophagus* Herbst, 1793

***Rhizophagus bipustulatus* (Fabricius, 1792)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 1384 m; leg. Barimani; on *Carpinus betulus*, 5 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; on *Fagus orientalis*, 2 spec. • Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018; leg. Thorn; 2 spec. – Guilan • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 1 spec.; COL-24778.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, Latvia, Macedonia, Netherlands, Norway, Poland, Romania, Spain, Russia, Switzerland, Ukraine, Turkey (Jelínek 2008).

***Rhizophagus ferrugineus* (Paykull, 1800)**

**Material examined.** IRAN – Golestan • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 2018; 988 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Algeria, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Denmark, Estonia, Finland, France, Germany, Georgia, Greece, Great Britain, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Moldavia, Mongolia, Norway, Poland, Romania, Russia, Serbia and, Montenegro, Slovakia, Slovenia, Sweden, Switzerland, the Netherlands, Ukraine (Jelínek 2008).

***Rhizophagus oblongicollis* Blatch & Horner, 1892**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°08'20"N, 053°24'25"E; 2028 m; 2015;

leg. Barimani; on *Fagus orientalis*, 4 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'27"N, 054°39'21"E; 947 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 1 spec.; COL-24779.

**Distribution.** Azerbaijan, France, Germany, Italy (Jelínek 2008).

#### *Rhizophagus perforatus* Erichson, 1845

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'07"N, 054°39'44"E; 2018; 886 m; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Denmark, Estonia, Finland, France, Germany, Georgia, Greece, Great Britain, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Moldavia, Mongolia, Norway, Poland, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Sweden, Switzerland, the Netherlands, Ukraine (Jelínek 2008).

Family Cucujidae Latreille, 1802

Genus *Pediacus* Shuckard, 1839

#### *Pediacus smirnovi* Nikitsky & Belov, 1979

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24780 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2017; leg. Lange; 1 spec. – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Iran (Thomas 2003).

#### *Pediacus dermestoides* (Fabricius, 1792)

**Material examined.** IRAN – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Algeria, Czech Republic, Denmark, Germany, Italy, Poland, Sweden, Switzerland, the Netherlands (Węgrzynowicz 2007).

Genus *Cucujus* Fabricius, 1775

#### *Cucujus muelleri* Bussler, 2017

**Material examined.** IRAN – **Mazandaran** • Chalandar, North Alborz Protected Area; 36°32'32"N, 051°38'43"E; 1153 m; 2014; leg. Müller • Sika 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec. • Kelardasht; 36°32'43.1"N, 051°04'48.71"E; 2016; leg. Lange; 1 spec. • Haftkhal; 36°17'45.5"N, 053°30'37.8"E; 1 spec.; leg. Barimani; COL-24781 • Chalandar; 36°32'32.0"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec.

**Distribution.** Iran (Bussler 2017).

Family Erotylidae Latreille, 1802

Genus *Dacne* Latreille, 1796

#### *Dacne pontica* (Bedel, 1868)

**Material examined.** IRAN – **Golestan** • Loveh; 37°19'5.5"N, 055°40'33"E; 2011; leg. Lange; on *Alnus subcordata*, 11 spec. – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 12 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; leg. Barimani; on *Fagus orientalis*, 34 spec.; COL-24782 • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec. • Semeskandeh; 36°33'38.2"N, 053°10'23.9"E; 2018; leg. Thorn; 1 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 2 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; 1 spec.; leg. Lange • Rezvanshahr; 37°33'29.7"N, 049°05'26.2"E; 2014; leg. Thorn; 3 spec. – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Austria, Georgia, Hungary, Iran, Italy, Romania, Turkey (Shockley 2007; Lyubarsky and Ghahari 2020).

#### *Dacne rufifrons* (Fabricius, 1775)

**Material examined.** IRAN – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 13 spec.

**Distribution.** Algeria, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Denmark, Estonia, Finland, France, Germany, Georgia, Greece, Great Britain, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Moldavia, Mongolia, Norway, Poland, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Sweden, Switzerland, the Netherlands, Ukraine (Shockley 2007; Lyubarsky and Ghahari 2020).

Genus *Triplax* Herbst, 1793

#### *Triplax collaris* (Schaller, 1783)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 66 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 11 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 9 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 2 spec.; COL-24783.

**Distribution.** Azerbaijan, Albania, Austria, Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Iran, Italy, Poland, Romania (Shockley 2007; Lyubarsky and Ghahari 2020).

#### *Triplax elongata* Lacordaire, 1842

**Material examined.** IRAN – **Mazandaran** • Sari,



Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24784.

**Distribution.** Austria, Czech Republic, Germany, Hungary, Italy, Poland, Romania (Shockley 2007).

Family Biphylidae LeConte, 1861  
Genus *Biphyllus* Dejean, 1821

***Biphyllus lunatus* (Fabricius, 1792)**

**Material examined.** IRAN – Golestan • Gorgan, Shast Kalateh; 36°43'27"N, 054°38'38"E; 833 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Turkey, Ukraine (Węgrzynowicz 2015).

Genus *Diplocoelus* Guérin-Ménéville, 1836

***Diplocoelus talyshensis* Nikitsky, 1993**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 3 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 3 spec.; COL-24785 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 5 spec. – Golestan • Gorgan, Shast Kalateh; 36°43'59"N, 054°38'59"E; 963 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Iran (Węgrzynowicz 2015).

***Diplocoelus fagi* Guer, 1844**

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2017; leg. Barimani; 1 spec.; COL-24785 • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Turkey, Ukraine (Węgrzynowicz 2015).

Family Cryptophagidae Kirby, 1826  
Genus *Cryptophagus* Herbst, 1792

***Cryptophagus dentatus* (Herbst, 1793)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*;

1 spec.; COL-24786

**Distribution.** Europe, North Africa, Iran, central Asia, Far East, Nearctic Region (Johnson et al. 2007; Otero and Johnson 2013; Otero et al. 2017).

***Cryptophagus labilis* Erichson, 1846**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24787.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine (Johnson et al. 2007).

***Cryptophagus pallidus* Sturm, 1845**

**Material examined.** IRAN – Mazandaran • on *Quercus castanifolia*; 2 spec.; COL-24788.

**Distribution.** Europe, North Africa, Turkey, Israel, Lebanon, Iran (Johnson et al. 2007; Otero 2017).

***Cryptophagus scanicus* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24789.

**Distribution.** Europe, Tunisia, Madeira, Turkey, Iran and Siberia, Afrotropical and Nearctic regions (Johnson et al. 2007; Ljubarsky 2002; Otero 2017).

Genus *Antherophagus* Dejean, 1821

***Antherophagus similis* Curtis, 1835**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24790.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia-Herzegovina, Belarus, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Latvia, Liechtenstein, Lithuania, Norway, Pakistan, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine (Johnson et al. 2007).

Family Laemophloeidae Ganglbauer, 1899  
Genus *Cryptolestes* Ganglbauer, 1899

***Cryptolestes duplicatus* (Waltl, 1839)**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg.

Barimani; on *Quercus castanifolia*; 1 spec.; COL-24791.

**Distribution.** Belgium, Bulgaria, Czech Republic, Denmark, Finland, Germany, Italy, Poland, Sweden, Switzerland (Węgrzynowicz 2007).

Genus *Laemophloeus* Dejean, 1836

***Laemophloeus monilis* (Fabricius, 1787)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24792.

**Distribution.** Azerbaijan, Armenia, Belgium, Russia, Czech Republic, Denmark, France, Germany, Georgia, Italy, Norway, Poland, Spain, Sweden, Switzerland (Węgrzynowicz 2007).

Genus *Placonotus* MacLeay, 1871

***Placonotus testaceus* (Fabricius, 1787)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. – **Golestan** • Gorgan; Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24793.

**Distribution.** Azerbaijan, Armenia, Belgium, China, Czech Republic, Denmark, Italy, France, Germany, Georgia, Poland (Węgrzynowicz 2007).

Family Latridiidae Erichson, 1842

Genus *Enicmus* Thomson, 1859

***Enicmus barimani* Rucker, 2017**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 7 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 2 spec.; COL-24794.

**Distribution.** Iran (Rucker 2017).

***Enicmus brevicornis* (Mannerheim, 1844)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; on *Carpinus betulus*; 2 spec.; leg. Barimani • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 6 spec.; COL-24795 – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 3 spec. – **Golestan** • Gorgan, Shast

Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, France, Germany, Georgia, Greece, Hungary, Italy, Latvia, Netherlands, Poland, Romania, Spain (Kavkaz) Sweden, Switzerland, Iran, Turkey (Johnson 2007).

***Enicmus testaceus* (Stephens, 1830)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 4 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 8 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani, on *Fagus orientalis*; 11 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*, 3 spec.; COL-24796 – **Golestan** • Gorgan, Shast Kalateh; 36°77'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Bulgaria, Czech Republic, Denmark, France, Germany, Greece, Hungary, Iran, Italy, Latvia, Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland (Johnson 2007).

***Enicmus transversus* (Olivier, 1790)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 6 spec.; COL-24796 – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 3 spec.

**Distribution.** Azerbaijan, Armenia, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Ukraine (Johnson 2007).

Genus *Latridius* Herbst, 1793

***Latridius brevicollis* (Thomson, 1868)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 8 spec.; COL-24797

**Distribution.** Austria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland (Johnson 2007).

***Latridius minutus* (Linnaeus, 1767)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2015; 2051 m; 2015; leg. Barimani; COL-24798.

**Distribution.** Austria, Belgium, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, the Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine (Johnson 2007).

Genus *Melanophthalma* Motschulsky, 1866

***Melanophthalma parvicollis* (Mannerheim, 1844)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24799.

**Distribution.** Azerbaijan, France, Italy, Greece, Hungary, Spain, Russia, Turkey (Johnson 2007).

***Melanophthalma rhenana* Rucker & Johnson, 2007**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec.; COL-24800 • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 3 spec.

**Distribution.** Iran (Rucker and Johnson 2007).

Genus *Stephostethus* Le Conte, 1878

***Stephostethus angusticollis* (Gyllenhal, 1827)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 8 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 5 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24801 – **Golestan** • Gorgan, Shast Kalateh; 36°77'19"N, 054°38'72"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, Latvia, the Netherlands, Norway, Poland, Romania, Spain, Russia, Sweden, Switzerland (Johnson 2007).

Family Mycetophagidae Leach, 1815

Genus *Eulagius* Motschulsky, 1845

***Eulagius hyrcanicus* Esser, Varandi & Farashiani, 2018**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest;

36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec.; COL-24802.

**Distribution.** Iran (Esser et al. 2018)

Genus *Litargus* Erichson, 1846

***Litargus connexus* (Geoffroy, 1785)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; leg. Barimani; 1 spec.; COL-24803 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 3 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 2 spec.

**Distribution.** Europe, North Africa, Asia (Nikitsky 2008).

Genus *Mycetophagus* Hellwig in Schneider, 1792

***Mycetophagus fulvicollis* Fabricius, 1793**

**Material examined.** IRAN – **Mazandaran** • Sari; 36°07'50"N, 053°25'24"E; 2051 m; 2008; leg. Barimani; on *Fagus orientalis*, 3 spec. • 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*; 3 spec. • Galugah; 36°39'00"N, 053°50'24"E, 2017; leg. Lange; 1 spec. – **Golestan** • Loveh, 37°18'36"N, 055°40'12"E; 2017; leg. Lange; 1 spec.; COL-24804.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, Latvia, Norway, Poland, Portugal, Romania, Spain, Russia, Sweden, Switzerland, Ukraine, Turkey (Nikitsky 2020).

***Mycetophagus ancora* Reitter, 1884**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh, Boola forest; 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus betulus*; 3 spec. • 36°08'20"N, 053°24'32"E; 2015; leg. Barimani; on *Fagus orientalis*, 4 spec. • Galugah; 36°39'00"N, 053°50'24"E; 2017; leg. Lange; 3 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; COL-24805.

**Distribution.** Azerbaijan, Iran (Nikitsky 2020).

***Mycetophagus hyrcanicus* Nikitsky, 1989**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1539 m; 2015; on *Carpinus* sp., 2 spec. leg. Barimani • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10m, 2015; leg. Barimani, on *Quercus castanifolia*; 1 spec. • Haftkhal;



36°17'47.5"N, 053°30'45.0"E; 2015; leg. Brimani; 4 spec. • Sika; 36°21'23.04"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec. • Kelardasht; 36°32'45.6"N, 051°44'49.2"E; 2018; leg. Thorn; 1 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; 1 spec.; leg. Lange; COL-24806 • Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 2 spec.

**Distribution.** Azerbaijan, Iran (Nikitsky 2020).

#### *Mycetophagus multipunctatus* Fabricius, 1792

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 1 spec.; COL-24807.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Turkey, Ukraine (Nikitsky 2020).

#### *Mycetophagus quadriornatus* (Reitter, 1901)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 39°30'25"N, 053°02'32"E; 1316 m; 2015; leg. Barimani; on *Alnus subcordata*, 37 spec.; on *Carpinus betulus*, 54 spec.; COL-24808 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 15 spec. • Kelardasht; 36°32'45.6"N, 051°44'49.2"E; 2018; leg. Thorn – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 2 spec. • Shafarood; 37°28'26.9"N, 048°49'12.8"E; leg. Thorn; 3 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 3 spec.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Iran, Italy, Latvia, Macedonia, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, Ukraine (Abai 1984; Nikitsky 2020).

#### *Mycetophagus populi* Fabricius, 1798

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 39°30'25"N, 040°02'32"E; 2014; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24809.

**Distribution.** Austria, Belgium, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, the Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland (Nikitsky 2020).

#### *Mycetophagus infulatus* (Reitter, 1884)

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 3 spec.

– **Guilan** • Punel; 37°31'47.2"N, 049°5'53.8"E; 2017; leg. Lange; 1 spec. • 37°33'29.7"N, 049°5'26.2"E; 2018; leg. Thorn; 1 spec.; COL-24810.

**Distribution.** Azerbaijan, Iran (Nikitsky 2020).

Family Zopheridae Solier, 1834

Genus *Bitoma* Herbst, 1793

#### *Bitoma iranica* Mařan, 1954

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24811 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 1 spec. • Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 3 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; leg. Thorn; 5 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Iran (Ślipiński and Schuh 2008).

Genus *Colydium* Fabricius, 1792

#### *Colydium elongatum* (Fabricius, 1787)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 995 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; on *Fagus orientalis*; 1 spec. • Haftkhal; 36°17'47.5"N, 053°30'45.0"E, 2017; leg. Lange; 1 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange; 1 spec.; COL-24812 – **Golestan** • Gorgan, Shast Kalateh; 36°43'15"N, 054°39'28"E; 913 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Georgia, Greece, Hungary, Iran, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Sweden, Switzerland, Turkey, Ukraine (Ślipiński and Schuh 2008).

#### *Corticus brevipennis* Reitter, 1882

**Material examined.** IRAN – **Mazandaran** • Galugah; 36°39'00"N, 053°50'24"E; 2017; leg. Lange; 1 spec. • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 1 spec.; COL-24812

**Distribution.** Azerbaijan, Iran, Russia, Turkey (Ślipiński and Schuh 2008).

Genus *Endophloeus* Dejean, 1834

#### *Endophloeus exsculptus* Germar, 1847

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 1384 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec. • Kelardasht; 36°32'43.1"N, 051°44'48.7"E; 2017; leg. Lange; 2 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg.

Lange; 1 spec.; COL-24813 – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed, 3 spec.; leg. Thorn; 2 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 1 spec.

**Distribution.** Armenia, Azerbaijan, Georgia, Hungary, Iran, Russia, Turkey, Ukraine (Ślipiński and Schuh 2008).

Genus *Lastrema* Reitter, 1882

***Lastrema verrucicollis* (Reitter, 1880)**

**Material examined.** IRAN – **Mazandaran** • Kelardasht; 36°32'43.1"N, 051°4'48.7"E; 2017; leg. Lange – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2017; leg. Lange; 5 spec. • Sika; 36°21'23.0"N, 053°32'20.4"E; 2017; leg. Lange • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec.; COL-24814 – **Guilan** • Shafarood; 37°28'26.9"N, 048°49'12.8"E, 2018; leg. Thorn; 7 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 3 spec.; leg. Thorn; 1 spec. • Loveh; 37°18'36"N, 055°40'12"E; 2017; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Iran, Russia, Turkey (Ślipiński and Schuh 2008).

Genus *Pycnomerus* Erichson, 1842

***Pycnomerus sulcicollis* (Germar, 1824)**

**Material examined.** IRAN – **Mazandaran** • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; leg. Barimani; 1 spec.; COL-24815 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 8 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. • Asalem, 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 17 spec. • Shafarood; 37°28'26.9"N, 048°49'12.8"E; leg. Thorn; 2 spec. – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2018; leg. Lange; on *Carpinus betulus*, 2 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 18 spec.

**Distribution.** Armenia, Azerbaijan, Bulgaria, Georgia, Iran, Romania, Russia, Turkey (Ślipiński and Schuh 2008).

***Pycnomerus terebrans* (Olivier, 1790)**

**Material examined.** IRAN – **Mazandaran** • 39°30'25"N, 040°02'11"E; 1618 m; on *Alnus subcordata*, 9 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 0053°23'35"E; 1749 m; on *Carpinus betulus*, 8 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; on *Fagus orientalis*; 1 spec.; leg. Barimani; 2015; COL-24816 • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2014; 1 spec.; leg. Barimani • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2018; leg. Thorn; 6 spec. – **Guilan** •

Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2018; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; Loveh, 37°18'36"N, 055°40'12"E; 2017; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Austria, Bulgaria, Croatia, Russia, Czech Republic, France, Germany, Greece, Hungary, Italy, Poland, Portugal, Russia, Switzerland, Turkey, Iran (Ślipiński and Schuh 2008).

Genus *Niphopelta* Reitter, 1882

***Niphopelta imperialis* Reitter, 1882**

**Material examined.** IRAN – **Mazandaran** • Galougah; 36°39'7.2"N, 053°50'27"E; 1200 m; 2016; leg. Lange, on *Alnus subcordata*; 2 spec.; on *Carpinus betulus*; 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; COL-24817. on *Fagus orientalis*, 13 spec. • Kelardasht; 36°32'43.1"N, 051°4'48.7"E; 2016; leg. Lange; 1 spec. • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 1 spec. Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; leg. Lange; 1 spec. • Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; 1 spec.; leg. Thorn • Sika; 36°21'23.1"N, 053°32'20.2"E; 2 spec.; leg. Thorn; 2018 – **Guilan** • Rezvanshahr; 37°28'15.5"N, 48°49'19.2"E; 2016; leg. Lange; 5 spec. Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn. 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'29"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec., leg. Thorn; 5 spec. • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Georgia, Ukraine, Iran (Jelínek, 1981; Ślipiński and Schuh 2008).

Genus *Synchita* Hellwig, 1792

***Synchita iranica* Dajoz, 1973**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; 2015, on *Fagus orientalis*; 1 spec.; COL-24818.

**Distribution.** Armenia, Iran (Ślipiński and Schuh 2008).

***Synchita mediolanensis* Villa & Villa, 1833**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'23"N, 054°39'21"E; 849 m; 2018; leg. Rafiei-Jahed.

**Distribution.** Azerbaijan, Austria, Bulgaria, Czech Republic, France, Germany, Greece, Georgia, Hungary, Italy, Portugal, Romania, Spain, Russia, Switzerland, Ukraine, Iran, Cyprus, Turkey (Ślipiński and Schuh 2008).

***Synchita undata* Guérin-Méneville, 1844**

**Material examined.** IRAN – **Golestan** • Loveh; 37°

18°36'N, 055°40'12"E; 2016; leg. Lange; 1 spec.; COL-24819.

**Distribution.** Austria, Bulgaria, Czech Republic, France, Germany, Greece, Georgia, Hungary, Italy, Portugal, Romania, Spain, Russia, Switzerland (Ślipiński and Schuh 2008).

Family Endomychidae Leach, 1815

Genus *Leiestes* Dejean, 1836

***Leiestes seminiger* (Gyllenhal, 1808)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Sari, Dodangeh; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 1 spec.; COL-24820.

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Belarus, Croatia, Czech Republic, Estonia, Germany, Hungary, Finland, France, Iran, Italy, Japan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Russia, Poland, Romania, Serbia and Montenegro, Slovakia, Slovenia, Sweden, Switzerland (Shockley 2007).

Genus *Mycetina* Mulsant, 1846

***Mycetina apicalis* (Motschulsky, 1835)**

**Material examined.** IRAN – **Mazandaran** • Galougah; 36°39'7.2"N, 053°50'27"E; 1200 m; 2016; leg. Lange. on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; on *Fagus orientalis*; 1 spec.; leg. Barimani; 2015; COL-24821 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m. *Fagus orientalis*; 1 spec. • Galougah; 36°38'59.9"N, 053°50'24"E; 18 spec.; leg. F. Lange; 2016 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 9 spec.; leg. Thorn. 2014. Sika; 36°21'23.1"N, 053°32'20.2"E; 2 spec.; leg. Thorn; 2018. Guilan, Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 1 spec.; leg. Lange, **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; on *Fagus orientalis*; 1 spec.; leg. Rafiei-Jahed, 2018.

**Distribution.** Azerbaijan, Armenia, Georgia, Iran (Shockley et al. 2009).

Family Ciidae Samouelle, 1819

Genus *Cis* Latreille, 1796

***Cis fusciclavis* Nyholm, 1953**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Bosnia and Herzegovina, Belarus, Czech Republic, Denmark, Finland, France, Germany, Italy, Netherlands, Norway, Poland, Russia (Central European Territory), Slovakia, Slovenia (Jelínek 2008), Switzerland (Reibnitz et al. 2013). Iran (Amini et al. 2020).

***Cis boleti* (Scopoli, 1763)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; COL-24822. 2015; leg. Barimani; on *Alnus subcordata*, 3 spec. Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 5 spec.

**Distribution.** Algeria, Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Belarus, China (Sichuan), Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Georgia, Hungary, Iran, Ireland, Italy, Japan, Latvia, Liechtenstein, Lithuania, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine (Jelínek 2008) Iran (Amini et al. 2020; Drogvalenko and Ghahari 2021)

***Cis castaneus* (Herbst, 1793)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°08'20"N, 053°24'32"E; 2024 m; 2015; leg. Barimani; on *Fagus orientalis*. 2 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24823.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Belarus, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Liechtenstein, Lithuania, the Netherlands, Norway, Poland, Romania, Russia (European Territory, Far East), Serbia and Montenegro, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Jelínek 2008), Spain (Diéguez Fernández 2013), Iran (Samin et al. 2018).

***Cis comptus* Gyllenhal, 1827**

**Material examined.** IRAN – **Guilan** • Shafarood; 37°40'15.8"N, 048°45'00.3"E; 2016; leg. Thorn; 1 spec., Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 1 spec.; COL-24824.

**Distribution.** Austria, Azerbaijan, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France,



Great Britain, Germany, Greece, Hungary, Iran, Ireland, Italy, Netherlands, Norway, Poland, Slovenia, Sweden, Switzerland, Ukraine (Samin et al. 2018; Jelínek 2020).

***Cis festivus* (Panzer, 1793)**

**Material examined.** IRAN – **Mazandaran**, Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; leg. Thorn; 5 spec. – **Guilan** • Asalem, 37°40'15.1"N, 048°45'09.6"E; leg. Thorn; 1 spec.; COL-24825.

**Distribution.** Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Slovenia, Sweden, Switzerland, Ukraine (Jelínek 2020).

***Cis glabratus* Mellié, 1848**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24826.

**Distribution.** Austria, Russia, Czech Republic, Finland, France, Germany, Italy, Latvia, Norway, Poland, Sweden (Jelínek 2020).

***Cis tomentosus* Mellié, 1849**

**Material examined.** IRAN – **Golestan**, Gorgan, Shast Kalateh; 36°43'19"N, 054°38'29"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.; COL-24827.

**Distribution.** Azerbaijan, Armenia, Bosnia and Herzegovina, Croatia, France, Georgia, Greece, Italy, Morocco, Romania, Russia, Serbia and Montenegro, Spain (Jelínek 2008), Ukraine (Drogvalenko 1999). Iran (Amini et al. 2020).

***Cis jacquemartii* Mellié, 1848**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°8'20.61"N, 053°24'32.23"E; 2028 m; on *Fagus orientalis*; leg. Barimani; 3 spec.; COL-24828. Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec.

**Distribution.** Azerbaijan, Austria, Bosnia and Herzegovina, Belarus, Croatia, Czech Republic, Denmark, Finland, France, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine (Jelínek 2008), Iran (Samin et al. 2018).

***Cis rugulosus* Mellié, 1848**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°8'20.6"N, 053°24'32.2"E; 1944 m; 2015; leg. Barimani; on *Fagus orientalis*; 6 spec. Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24829. Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia* •

Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 3 spec. Najjardeh; 36°34'22"N, 051°35'27"E; 2014; leg. Müller. Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 3 spec. Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 5 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'27"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 3 spec.

**Distribution.** Austria, Belgium, Czech Republic, Estonia, Finland, France, Germany, Italy, Lithuania, Netherlands, Russia (Central and South European Territory), Slovakia, Sweden, Switzerland (Jelínek 2008), Ukraine (Drogvalenko 1999). Iran (Amini et al. 2020).

***Cis striatulus* Mellié, 1848**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; leg. Barimani; on *Fagus orientalis*; 1 spec. Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24830 – **Golestan** • Gorgan, Shast Kalateh; 36°43'27"N, 054°38'27"E; 954 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Algeria, Azerbaijan, Austria, Bosnia and Herzegovina, Croatia, France, Germany, Georgia, Greece, Hungary, Italy, Poland, Spain, Southern European Russia, Switzerland, Turkey (Jelínek 2008), Iran (Lopes-Andrade et al. 2008; Lopes-Andrade et al. 2016), Ukraine (Drogvalenko 1999).

***Cis submicans* Abeille de Perrin, 1874**

**Material examined.** IRAN – **Mazandaran**, Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 5 spec. **Golestan** • Gorgan, Shast Kalateh; 36°43'N, 54°38'E, 872 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24831. Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 3 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Belarus, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Liechtenstein, Lithuania, Netherlands, Norway, Poland, Romania, Russia (European Territory, Far East), Serbia and Montenegro, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Iran (Samin et al. 2018; Jelínek 2020).

***Cis hanseni* Strand, 1982**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. Sari, Dodangeh; 36°08'20"N, 053°24'32"E; 1961 m; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24832.

**Distribution.** Finland, Germany, Poland, Norway, the Netherlands, Russia (Królik 2016; Jelínek 2020).

Genus *Ennearthron* Mellie, 1847

***Ennearthron cornutum* (Gyllenhal, 1827)**

**Material examined.** IRAN – Mazandaran, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. **Golestan** • Gorgan, Shast Kalateh; 36°43'27"N, 054°38'26"E; 954 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24833.

**Distribution.** Azerbaijan, Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Slovenia, Sweden, Switzerland, Ukraine (Jelínek 2020).

Genus *Octotemnus* Mellié, 1847

***Octotemnus glabriculus* (Gyllenhal, 1827)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-248348.

**Distribution.** Azerbaijan, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, China (Liaoning), Croatia, Czech Republic, Denmark, Finland, France, Great Britain, Germany, Georgia, Hungary, Ireland, Italy, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia (European Territory), Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine (Jelínek 2008).

Genus *Orthocis* Casey, 1898

***Orthocis alni* (Gyllenhal, 1813)**

**Material examined.** IRAN – Mazandaran, Najardeh; 36°34'22"N, 051°35'26"E; 1528 m; 2014; leg. Müller • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2014; leg Müller; on *Quercus castanifolia*; 1 spec. Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018; leg. Thorn; 5 spec • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec.; COL-24835. **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Austeria, Russia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Greece, Hungary, Italy, the Netherlands, Norway, Poland, Spain, Sweden, Switzerland, Ukraine (Jelínek 2020).

Genus *Ropalodontus* Mellié, 1847

***Ropalodontus baudueri* Abeille de Perrin, 1874**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus* sp., 3 spec., on *Fagus orientalis*, 7 spec.; COL-24836

**Distribution.** Austeria, Denmark, France, Germany,

Greece, Hungary, Romania, Russia (Jelínek 2020).

***Ropalodontus perrini* Reitter, 1878**

**Material examined.** IRAN – Mazandaran, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec. **Guilan**, **Asalem**; 37°40'15.1"N, 48°45'09.6"E; leg. Thorn; 1 spec. **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'28"E; 980 m; 2018; leg. Rafiei-Jahed, on *Fagus orientalis*; 1 spec. Shemooshak; 36°43.1'N, 54°19.2'E, 2016; leg. Farashiani; 1 spec.; COL-24837

**Distribution.** Austria, Denmark, France, Germany, Hungary, Romania, Russia, Iran (Jelinek, 2008; Amini et al.,2020).

***Sulcacis nitidus* (Fabricius, 1792)**

**Material examined.** IRAN – Mazandaran, Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018; leg. Thorn; 4 spec.; COL-24838

**Distribution.** Azerbaijan, Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Slovenia, Sweden, Switzerland, Ukraine, Japan (Samin et al. 2018; Jelínek 2020).

Genus *Xylographus* Mellié, 1849

***Xylographus bostrichoides* (Dufour, 1843)**

**Material examined.** IRAN – Mazandaran, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; 2015; on *Quercus castanifolia*, 5 spec.; COL-24839

**Distribution.** Algeria, Azerbaijan, Austria, Bosnia and Herzegovina, Belarus, Croatia, Cyprus, Czech Republic, France, Greece, Hungary, Italy, Morocco, Poland, Romania, Southern European Russia, Slovakia, Spain, Tajikistan, Turkey, Ukraine (Jelínek 2008).

Family Ptinidae Latreille, 1802

Genus *Dorcatoma* Herbst, 1792

***Dorcatoma minor* Zahradnk, 1993**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24840

**Distribution.** Austria, Czech Republic, France, Germany, Hungary, Poland, Romania, Slovakia (Zahradnik 2007).

***Dorcatoma robusta* Strand, 1938**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. on *Fagus orientalis*, 4 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2016; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24841

**Distribution.** Austria, Azerbaijan, Belarus, Croatia,

Czech Republic, Finland, Germany, Latvia, Netherlands, Norway, Poland, Switzerland (Zahradnik 2007).

Genus *Hemicoelus* LeConte, 1861

***Hemicoelus canaliculatus* (Thomson, 1863)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*; 2 spec.; COL-24842

**Distribution.** Austria, Azerbaijan, Belarus, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Iran, Italy, Latvia, Malta, Montenegro, Netherlands, Norway, Poland, Romania, Serbia, Slovakia, Spain, Russia, Sweden, Switzerland, Ukraine (Zahradnik 2007).

***Hemicoelus fulvicornis* (Sturm, 1837)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 39°30'25"N, 040°02'11"E; 1618 m; leg. Barimani; on *Carpinus betulus*, 3 spec. Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*, 3 spec.; COL-24843

**Distribution.** Armenia, Austria, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine (Zahradnik 2007).

***Hemicoelus rufipennis* (Duftschmid, 1825)**

**Material examined.** IRAN – **Mazandaran** • Najardeh; 36°34'22"N, 051°35'26"E; 1125 m; leg. Müller; on *Carpinus betulus*, 2 spec. Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; 2 spec. leg. Thorn.

**Distribution.** Austria, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Hungary, Italy, Poland, Romania, Slovakia, Slovenia, Turkey (Zahradnik 2007).

***Hyperisus plumbeum* (Illiger, 1801)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 3 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24844.

**Distribution.** Armenia, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Macedonia, Montenegro, Netherlands, Poland, Romania, Russia, Slovakia, Serbia, Slovenia, Spain, Syria, Switzerland, Turkey, Ukraine (Zahradnik 2007).

Genus *Oligomerus* Redtenbacher, 1849

***Oligomerus brunneus* (A.G. Olivier, 1790)**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*. Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn. 1 spec.; COL-24845

**Distribution.** Austria, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Japan (Zahradnik 2007).

***Oligomerus ptilinoides* (Wollaston, 1854)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 4 spec., 2015; leg. Barimani; on *Quercus castanifolia*; COL-24846

**Distribution.** Algeria, Azerbaijan, Austria, China, Croatia, Cyprus, Egypt, Francia, Germany (Introduced), Greece, Hungary, Iran, Israel, Italy, Japan, Kazakhstan, Malta, Montenegro, Morocco, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain (Canary Islands), Syria, Switzerland, Turkey, Tunisia, Ukraine (Zahradnik 2007).

Genus *Priobium* Thomson, 1863

***Priobium carpini* (Herbst, 1793)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1539 m; on *Carpinus betulus*, 3 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2016; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24847

**Distribution.** Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, Kazakhstan, Latvia, Lebanon, Lithuania, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia (Siberia), Serbia, Slovakia, Spain, Syria, Sweden, Switzerland, Turkey, Ukraine (Zahradnik 2007).

Genus *Ptilinus* O.F. Müller, 1776

***Ptilinus pectinicornis* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Alnus subcordata*, 14 spec., on *Carpinus betulus*, 45 spec., on *Fagus orientalis*, 86 spec.; COL-24848.

**Distribution.** Armenia, Austria, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, China, Croatia, Czech Republic, Denmark, France, Georgia, Germany, Hungary, India, Iran, Ireland, Italy, Japan, Latvia, Lithuania, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia,



Spain, Sweden, Switzerland, Syria, Turkey, Turkmenistan, Ukraine (Zahradnik 2007; Samin et al. 2018).

Genus *Ptinus* Linnaeus, 1766

***Ptinus subpilosus* Sturm, 1837**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24849.

**Distribution.** Austria, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Turkey (Zahradnik 2007).

***Ptinus sexpunctatus* Panzer, 1789**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus butulus*; 1 spec.; COL-24850

**Distribution.** Austria, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine (Zahradnik 2007).

Genus *Stagetus* Wollaston, 1861

***Stagetus franzi* Español, 1969**

**Material examined.** IRAN – Mazandaran • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*, 17 spec.; COL-24851

**Distribution.** Greece, Hungary, Spain, Turkey (Zahradnik 2007)

Genus *Xestobium* Motschulsky, 1845

***Xestobium subincanum* Reitter, 1878**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°08'20"N, 053°24'25"E; 2028 m; 2015; leg. Barimani; on *Fagus orientallis*, 9 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus butulus*; 1 spec.; COL-24852.

**Distribution.** Armenia, Azerbaijan, Georgia, Iran, Italy, Russia, Turkey, Ukraine (Zahradnik 2007; Samin et al. 2016).

***Xestobium subaeneum* Reitter, 1897**

**Material examined.** IRAN – Mazandaran, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn.

**Distribution.** Armenia, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, DE FR GB Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey (Zahradnik 2007).

***Xestobium plumbeum* (Illiger, 1801)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh-Boola forest; 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus* sp; COL-24853.

**Distribution.** Armenia, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Poland, Romania, Russia, Slovakia, Serbia, Slovenia, Spain, Syria, Switzerland, Turkey, Ukraine (Zahradnik 2007).

***Xestobium rufovillosum* (De Geer, 1774)**

**Material examined.** IRAN – Golestan • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 3 spec.

**Distribution.** Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, DE FR GB Georgia, Germany, Great Britain, Greece, Hungary, Italy, Iran, Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, Russia (Zahradnik 2007).

Genus *Ptinomorphus* Mulsant & Rey, 1861

***Ptinomorphus magnificus* (Reitter, 1880)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 4 spec.; COL-24854 – Golestan • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn. 3 spec.

**Distribution.** Georgia, Russia (Zahradnik 2007).

Family Oedemeridae Latreille, 1810

Genus *Ischnomera* Stephens, 1832

***Ischnomera caerulea* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24855.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Bulgaria, Croatia, Czech Republic, France, Germany, Georgia, Greece, Hungary, Italy, Macedonia, Norway, Poland, Romania, Spain, Russia, Sweden, Switzerland, Ukraine, Iran, Turkey (Zahradnik 2007).

***Ischnomera sanguinicollis* (Fabricius, 1787)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec., on *Fagus orientalis*; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Latvia, Macedonia, Norway, Poland, Romania, Spain, Sweden, Ukraine (Zahradnik 2007).

Family Salpingidae Leach, 1815

Genus *Salpingus* Illiger, 1801

***Salpingus caucasicus* Reitter, 1905**

**Material examined.** IRAN – **Mazandaran**, Galougah; 36°39'7.2"N, 053°50'27"E; 1200 m; on *Alnus subcordata*, 4 spec.; leg. Lange; 2016 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*, 13 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; on *Fagus orientalis*; 6 spec.; leg. Lange; 2016 • Galugah; 36°39'00"N, 053°50'24"E; 11 spec.; leg. Lange • Haftkhal; 36°17'41.8"N, 053°30'48.6"E; 2 spec.; leg. Barimani; COL-24856 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 1 spec.; leg. Thorn; 2014 – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; leg. Lange; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'19"N, 054°38'29"E; 920 m; on *Fagus orientalis*; 1 spec.; leg. Rafiei-Jahed. 2018.

**Distribution.** Armenia, Russia, Japan (Pollock and Löbl 2008).

Genus *Vinzenzellus* Reitter, 1911

***Vinzenzellus ruficollis* (Panzer, 1794)**

**Material examined.** IRAN – **Mazandran** • Sari; 36°07'50"N, 053°25'24"E; 1618 m; 2015; leg. Barimani; on *Carpinus* sp; COL-24857

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Denmark, France, Germany, Hungary, Italy, the Netherlands, Poland, Spain, Sweden, Ukraine, Yugoslavia (Pollock and Löbl 2008).

***Vincenzellus fascipennis* (Reitter, 1897)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749m; leg. Barimani; on *Carpinus betulus*. 3 spec.; COL-24857 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 29 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 1 spec. • Kelardasht; 36°32'43.1"N, 051°4'48.71"E; 2016; leg. Lange; 1 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 3 spec. • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'28"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 3 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Russia (Pollock and Löbl 2008).

Genus *Lissodema* Curtis, 1833

***Lissodema denticolle* (Gyllenhal, 1813)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1

spec.; COL-24857 • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Armenia, Austria, Belgium, Bulgaria, Russia, Czech Republic, Denmark, France, Germany, Hungary, Italy, the Netherlands, Poland, Romania, Spain, Sweden, Ukraine (Pollock and Löbl 2008).

***Lissodema quadripustulatum* (Marsham, 1802)**

**Material examined.** IRAN – **Mazandaran**, Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec.

**Distribution.** India, Iran (Pollock and Löbl 2008).

Family Scaphidiidae Latreille, 1806

Genus *Scaphisoma* Leach, 1815

***Scaphisoma boreale* (Lundblad, 1952)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24857.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Denmark, France, Germany, Hungary, Italy, the Netherlands, Poland, Romania, Spain, Sweden, Ukraine, Iran, Turkey (Smetanana 2004).

***Scaphisoma laeviusculum* (Reitter, 1898)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; COL-24858. on *Fagus orientalis*, 2 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 26 spec.

**Distribution.** Azerbaijan, Armenia, Turkiminstan, Iran (Smetanana 2004).

Family Prostomidae Thomson, 1859

Genus *Prostomis* Thomson, 1859

***Prostomis elburica* Fleischer, 1919**

**Material examined.** IRAN – **Mazandaran** • Galougah; Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24859 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2016; leg. Müller. on *Fagus orientalis*; 1 spec. Galugah; 36°39'00"N, 053°50'24"E; leg. Lange; 19 spec. – **Guilan** • Taylesh; 37°40'15.2"N, 048°45'9.71"E; 2017; leg. Lange; 1 spec. • Asalem; 37°40'15.1"N, 048°45'9.57"E; 2018; leg. Thorn; 17 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'29"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Armenia, Austria, France, Greece, Georgia, Hungary, Italy, Portugal, Romania, Spain, Russia, Ukraine, Iran, Turkey (Schawaller 2020).

Family Scaptidae Mulsant, 1856

Genus *Scaptia* Latreille, 1807

***Scaptia roubali* Winkler, 1927**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2015; 2051 m; leg. Barimani; on *Fagus orientalis*, 4 spec.; COL-24860.

**Distribution.** Romania (Horak 2008).

Family Aderidae Winkler, 1927

Genus *Aderus* Westwood, 1829

***Aderus populneus* (Creutzer, 1796)**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 4 spec.

**Distribution.** Poland, British (Jaloszinky et al. 2013) Azerbaijan, Albania, Armenia, Austria, Bosnia Herzegovina, Croatia, Russia, Czech Republic, Denmark, Estonia, Great Britain, Germany, Georgia, Greece, Finland, France, Italy, Hungary, Latvia, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, Turkey, Cyprus, Turkmenistan (Nardi 2020).

Family Alexiidae Imhoff, 1856

Genus *Sphaerosoma* Klotzsch (1839)

***Sphaerosoma quercus* Samouelle, 1819**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24861.

**Distribution.** Austria, Belgium, Czech Republic, Germany, France, Italy, Sweden (Tomaszewska 2007).

Family Mordellidae Latreille, 1802

Genus *Mordella* Linnaeus, 1758

***Mordella leucaspis bicolorispilosa* Horák, 1985**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24862.

**Distribution.** Azerbaijan, Greece, Syria, Turkey (Nikitsky and Pollock 2008).

Genus *Mordellistena* Costa, 1854

***Mordellistena neuwaldeggiana* (Panzer, 1796)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*; 1 spec.

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Byelorussia, Croatia, Czech Republic, France, Great Britain, Greece, Hungary, Italy, the Netherlands, Poland, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine (Nikitsky and Pollock 2008).

Genus *Tomoxia* Costa, 1854

***Tomoxia bucephala* Costa, 1854**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 15 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*, 3 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24863.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Denmark, France, Germany, Hungary, Italy, the Netherlands, Poland, Romania, Spain, Sweden, Ukraine, China, Turkey, Iran (Nikitsky and Pollock 2020).

Genus *Variimorda* Méquignon, 1946

***Variimorda briantea* (Comolli, 1837)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 4 spec.; COL-24864.

**Distribution.** Algeria, Austria, Bosnia-Herzegovina, Bulgaria, Belarus, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Macedonia, Poland, Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine (Nikitsky and Pollock 2020).

Family Melandryidae Fleming, 1821

Genus *Orchesia* Latreille, 1807

***Orchesia undulata* Kraatz, 1853**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 9 spec. Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; 3 spec.; leg. Thorn – **Guilan** • **Asalem**; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 2 spec. – **Golestan** • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec.; COL-24865.

**Distribution.** All distributed Europe except Portugal, Greece and northern part of European Russia (Nikitsky 2008; Konvička 2012).

***Orchesia luteipalpis* Mulsant & Guillebeau, 1857**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 1384 m; 2015; leg. Barimani; on *Carpinus* sp; COL-24866.

**Distribution.** Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Italy, the Netherlands, Poland, Romania, Spain, Sweden (Nikitsky and Pollock 2020).

***Orchesia fasciata* (Illiger, 1798)**

**Material examined.** IRAN – **Mazandaran** • Chalandar; 36°32'32.09" N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec.

**Distribution.** China, Turkey (Nikitsky and Pollock 2020).



***Orchesia kamberskyi* Reitter 1888**

**Material examined.** IRAN – **Guilan** • Shafarood; 37° 40'15.8"N, 048°45'00.3"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Georgia, Russia, Turkey (Nikitsky and Pollock 2020).

Genus *Phloiotrya* Stephens, 1832

***Phloiotrya tenuis* (Hampe, 1850)**

**Material examined.** IRAN – **Mazandaran** • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec.

**Distribution.** Austria, Belgium, Germany, Italy, the Netherlands, Poland, Sweden, Denmark, Spain, Turkey (Nikitsky and Pollock 2020).

Genus *Osphya* Illiger, 1807

***Osphya bipunctata* (Fabricius, 1775)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24867.

**Distribution.** Sweden, Denmark, Germany, Poland (Tamtis et al. 2011).

Family Tenebrionidae Latreille, 1802

Genus *Alphitophagus* Stephens, 1832

***Alphitophagus bifasciatus* (Say, 1824)**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 2015; leg. Barimani; on *Quercus castanifolia*, 5 spec.; COL-24868.

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkey, Ukraine Afghanistan, Cyprus, China (Löbl and Merki 2008; Iwan et al. 2020).

Genus *Bolitophagus* Illiger 1798

***Bolitophagus interruptus* Illiger, 1800**

**Material examined.** IRAN – **Mazandaran**, Chalandar; 36°32'32.1"N, 051°38'43.8"E; leg. Thorn; 6 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; leg. Lange; 2 spec. • Shafarood; 37°40'15.8"N, 48°45'00.3"E; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'48"E; 920 m; 2018; leg. Rafiei-Jahed, on *Fagus orientalis*; 1 spec. • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 8 spec. • Loveh, 37°18'36"N, 055°40'12"E; 2016; leg. Lange; on *Alnus subcordata*, 2 spec.; on *Fagus orientalis*, 1 spec.

**Distribution.** Austria, Croatia, Czech Republic France, Germany, Hungary, Italy, Poland, Romania, Slovakia, Slovenia, Iran (Löbl and Merki 2008; Iwan et al. 2020).

***Bolitophagus reticulatus* (Linnaeus, 1767)**

**Material examined.** IRAN – **Mazandaran** • Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. Kelardasht; 36°32'43.07"N, 051°4'48.71"E; 2016; leg. Lange. 2 spec • Sika; 36°21'23.0"N, 053°32'20.4"E; 2016; leg. Lange; 3 spec.; COL-24868 • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec. – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 17 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Albania, Armenia, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Georgia, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008; Iwan et al. 2020).

Genus *Corticeus* Fabricius 1790

***Corticeus unicolor* Piller & Mitterpacher, 1783**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 2 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24869 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; on *Fagus orientalis*; 1 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 10 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; 7 spec.; leg. Thorn • Sika; 36°21'23.1"N, 053°32'20.2"E; 3 spec. leg. Thorn; 2018 – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange.; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N 54°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed, on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Hungary (Löbl and Merki 2008; Iwan et al. 2020).

***Corticeus basalis* Reitter, 1884**

**Material examined.** IRAN – **Mazandaran** • Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; leg. Lange; 2 spec.

**Distribution.** Azerbaijan (Löbl and Merki 2008).

***Corticeus fasciatus* (Fabricius, 1790)**

**Material examined.** IRAN – **Mazandaran**, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France,

Germany, Great Britain, Georgia, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008; Iwan et al. 2020).

Genus *Diaclina* Jacquelin du Val, 1861

***Diaclina testudinea* (Piller & Mitterpacher, 1783)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani, on *Quercus castanifolia*, 12 spec.; COL-24870 – **Golestan** • Tanagrah; 37°23'46.7"N, 055°48'01.4"E, 2016; leg Lange; 2 spec.

**Distribution.** Azerbaijan, Albania, Austria, Czech Republic, France, Germany, Greece, Hungary, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Iran, Turkey (Löbl and Merki 2008; Iwan et al. 2020).

Genus *Diaperis* Geoffroy, 1762

***Diaperis boleti* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24871 – **Golestan** • Gorgan, Shast Kalateh; 36°43'19"N, 054°38'29"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 4 spec.

**Distribution.** Armenia, Austria, Belgium, Belarus, Russia, Czech Republic Denmark, Estonia, Finland, France, Germany, Great Britain, Greece Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008; Iwan et al. 2020).

Genus *Gonodera* Mulsant, 1856

***Gonodera gilanica* Novak, 2011**

**Material examined.** IRAN – **Mazandaran**; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Alnus subcordata*; 8 spec. Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 10 spec.; COL-24871 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 21 spec. • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 2 spec. • Kelardasht; 36°32'43.1"N, 051°44'48.71"E; 2016; leg. Lange. 1 spec. – **Guilan** • Asalem; 37°28'19"N, 048°49'15"E; 2018, 1169 m; leg. Kazerani; 1 spec. • Shafarood; 37°40'15"N, 048°45'09"E; 1138 m; 2018; 4 spec.; leg. Kazerani.

**Distribution.** Iran (Novak 2011).

Genus *Helops* Fabricius, 1775

***Helops caeruleus* Krynicki, 1834**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'

35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 2 spec.; COL-24872 – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'48"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Albania, Bosnia-Herzegovina, Bulgaria, Croatia, France, Germany, Great Britain, Georgia, Greece, Italy, the Netherlands, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkey, Ukraine, Iran (Löbl and Merki 2008).

Genus *Lagria* Linnaeus, 1758

***Lagria hirta* Linnaeus, 1758**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°07'50"N, 053°25'24"E; 2051 m; 2015; on *Fagus orientalis*. leg. Barimani; COL-24873

**Distribution.** Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Belarus Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Georgia, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Cyprus, Russia, Cyprus, Iran, Iraq, Kazakhstan, Tajikistan, Turkmenistan, Turkey (Löbl and Merki 2008).

Genus *Mycetochara* Berthold, 1827

***Metaclisa viridis* (Motschulsky, 1860)**

**Material examined.** IRAN – **Mazandaran** • Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 3 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m, 2014; leg. Barimani; on *Carpinus betulus*, 20 spec • Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; leg. Lange; 1 spec. Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec.; COL-24874 **Guilan**, Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; leg. Lange; 2 spec. Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 4 spec. – **Golestan** • Gorgan Shast Kalateh; 36°43'20"N, 054°39'27"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec. leg. Thorn; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Iran (Löbl and Merki 2008).

***Mycetochara excelsa* Reitter, 1884**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24875

**Distribution.** Azerbaijan, Georgia, Iran (Löbl and Merki 2008).

***Mycetochara ocularis* Reitter, 1884**

**Material examined.** IRAN – **Mazandaran** • Sari,

Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24875

**Distribution.** Azerbaijan, Iran, Caucasus (Novak and Ghahari 2015).

***Neatus subaequalis* Reitter 1920**

**Material examined.** IRAN – **Golestan** • Loveh; 37°18'36"N, 055°40'12"E; 2018; leg. Lange; 1 spec.; COL-24876

**Distribution.** Azerbaijan, Algeria, Georgia, Germany, Russia, Iran, Turkey (Löbl and Merki 2008, Löbl and Merki 2008).

Genus *Neomida* Latreille, 1829

***Neomida haemorrhoidalis* (Fabricius, 1787)**

**Material examined.** IRAN – **Mazandaran** • Najardeh; 36°34'22"N, 051°35'26"E; 537 m; 2014; leg. Müller – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 2 spec.

**Distribution.** Albania, Austria, Bosnia-Herzegovina, Bulgaria, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Hungary, Germany, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine. Afghanistan, Cyprus, Iran, Turkey (Löbl and Merki 2008).

***Neomida quadricornis* (V.I. Motschulsky, 1873)**

**Material examined.** IRAN – **Mazandaran**, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 17 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 850 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Georgia, Iran (Löbl and Merki 2008).

Genus *Palorus* Matthews, 2003

***Palorus depressus* (Fabricius, 1790)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*. 1 spec.; 2015; leg. Barimani; COL-24876 – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Albania, Austria, Bosnia-Herzegovina, Croatia, Russia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008).

***Palorus ratzeburgi* (Wissmann, 1848)**

**Material examined.** IRAN – **Mazandaran**, Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 4 spec.

**Distribution.** Austria, Bosnia-Herzegovina, Bulgaria,

Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Hungary, Germany, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine. Afghanistan, Cyprus, Iran, China (Löbl and Merki 2008).

Genus *Pentaphyllus* Dejean, 1821

***Pentaphyllus nitidulus* Reitter, 1884**

**Material examined.** IRAN – **Mazandaran, Najardeh**; 36°34'22"N, 051°35'29"E; 86m, 2014; leg. Müller; on *Fagus orientalis*, 2 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 3 spec.

**Distribution.** Azerbaijan (Löbl and Merki 2008).

Genus *Platydemia* Laporte & Brullé, 1831

***Platydemia tristis* Laporte & Brullé, 1831**

**Material examined.** IRAN – **Golestan** • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; on *Spongipellis delectans* – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*, 7 spec.; COL-24877 • Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; leg. Lange; 1 spec. Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 10 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 4 spec. – **Guilan** • Rezvanshhar; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 2 spec. Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; leg. Thorn; 4 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2018; leg. Lange; 5 spec.

**Distribution.** Armenia, Georgia, Iran, Ukraine, Turkmenistan (Löbl and Merki 2008).

Genus *Probatiscus* Seidlitz, 1896

***Probatiscus zoroaster* (Seidlitz, 1896)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24877

**Distribution.** Turkmenistan (Kopet Dag) (Löbl and Merki 2008).

Genus *Uloma* Dejean, 1821

***Uloma culinaris* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran, Najardeh**;



36°34'22"N, 051°35'26"E; 1546 m; on *Carpinus betulus*; 2 spec.; 2014; leg. Müller • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 2 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 6 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec. – **Guilan** • Rezvanshhar; 37°28'15.5"N, 048°49'19.2"E; leg. Lange; 2 spec. • Shafarood; 37°28'26.9"N, 048°49'12.8"E; 2018; leg. Thorn; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'28"E; 983 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. leg. Thorn. 3 spec.

**Distribution.** Azerbaijan, Albania, Austria, Belgium, Bosnia-Herzegovina, Belarus Croatia, Russia, Czech Republic Denmark, Estonia, Finland, France, Germany, Great Britain, Georgia, Greece, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008).

Genus *Hallomenus* Panzer, 1794

#### *Hallomenus axillaris* (Illiger, 1807)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine (Löbl and Merki 2008).

Genus *Tetratoma* Fabricius, 1790

#### *Tetratoma ancora* Fabricius, 1790

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°09'45"N, 053°23'35"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24876

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Belarus, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Ukraine, Serbia and Montenegro, Kazakhstan, Mongolia (Löbl and Merki 2008).

Family Throscidae

Genus *Aulonothroscus* Horn, 1890

#### *Aulonothroscus brevicollis* (Bonvouloir, 1859)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata* • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani. on *Fagus orientalis*; 2 spec. – **Golestan** • Gorgan, Shast Kalateh;

36°43'16"N, 054°39'48"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 3 spec.; COL-24877

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey, Russia, Syria, Iran (Leseigneus 2008)

Family Scarabaeidae Latreille, 1802

Genus *Cetonia* Fabricius, 1775

#### *Cetonia aurata* (Linnaeus, 1758)

**Material examined.** IRAN – **Mazandaran** • Sisangan Park; 36°34'33.6"N, 051°49'08.4"E; 2016; leg. Lange; 4 spec.; COL-24878.

**Distribution.** Austria, Belgium, Bosnia-Herzegovina, Belarus, Russia, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Ukraine, Serbia and Montenegro, Kazakhstan, Mongolia, Turkey, Russia, Syria, Iran (Bezdek 2016).

Genus *Gnorimus* Lapeletier & Audinet-Serville, 1828

#### *Gnorimus subcostatus* (Ménétriés, 1832)

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 5specimen • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2051 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24878 – **Guilan** • Shafarood; 37°40'15"N, 048°45'09"E; 1138 m; 2018; leg. Kazerani; 2 spec. • Sisangan Park; 36°34'33.6"N, 051°49'8.4"E; 2016; leg. Lange; 4 spec. • Semeskandeh; 36°33'38.2"N, 053°10'23.9"E; 2018; leg. Thorn; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 2 spec.

**Distribution.** Azerbaijan, Iran (Bezdek 2016).

Genus *Oryctes* Illiger, 1798

#### *Oryctes nasicornis* (Linnaeus, 1758)

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Ukraine, Iran, China, India (Krell and Bezdek 2016; Ghahari et al. 2011).

Genus *Oxythyrea* Mulsant, 1842

#### *Oxythyrea cinctella* (Schaum, 1841)

**Material examined.** IRAN – **Mazandaran** • Semeskandeh; 36°33'38.2"N, 053°10'23.9"E; 2018; leg. Thorn; 1 spec. Kleano; 36°31'26.8"N, 051°15'19.0"E; 2014; leg. Thorn; 1 spec. • Semeskandeh; 36°33'38.2"N, 053°

10°23.9"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Algeria, Armenia, Georgia, Belarus, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Ukraine, Iran, Iraq, Russia, Kazakhstan, Israel (Bezdek 2016).

Genus *Protaetia* Burmeister, 1842

***Protaetia hieroglyphica* (Ménétriés, 1832)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24878.

**Distribution.** Georgia, Armenia, Azerbaijan (Ghahari et al. 2011).

Genus *Tropinota* Mulsant, 1842

***Tropinota spinifrons* Reitter, 1889**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24879.

**Distribution.** Azerbaijan, Afghanistan, Iran, Syria, Turkimentsan (Ghahari et al. 2011; Bezdek 2016).

Genus *Valgus* Scriba, 1790

***Valgus hemipterus* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24880 • Sika; 36°21'23.1"N, 053°32'20.2"E; leg. Thorn; 2 spec. • Semeskandeh; 36°33'38.2"N, 053°10'23.9"E; leg. Thorn; 1 spec. – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2017; leg. Lange; 1 spec.

**Distribution.** Europe, North Africa, Central Asia (Ghahari et al. 2011).

Family Silvanidae Kirby, 1837

Genus *Silvanus* Latrielle, 1807

***Silvanus bidentatus* (Fabricius, 1792)**

**Material examined.** IRAN – **Golestan** • Gorgan; 36°43'12"N, 054°23'24"E; 2018; leg. Lange, 2 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 1 spec. • Gorgan, Shast Kalateh; 36°43'59"N, 054°38'59"E; 963 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey, Russia, Iran (Halsteda and Löbl 2007)

Genus *Uleiota* Latreille, 1796

***Uleiota planata* (Linnaeus, 1761)**

**Material examined.** IRAN – **Mazandaran** • Kiasar;

36.2948°N, 53.5136°E, 2018; leg. Lange; 3 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec. • Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018; leg. Thorn; 2 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'28"E; 983 m; 2018; leg. Rafiei-Jahed, on *Fagus orientalis*; 1 spec.; leg. Thorn; 2 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey, Russia, Iran, Ukraine (Halsteda and Löbl 2007)

Family Lucanidae Latreille, 1804

Genus *Aesalus* Fabricius, 1801

***Aesalus ulanowskyi* Ganglbauer, 1887**

**Material examined.** IRAN – **Mazandaran** • Galougah; 36°39'07"N, 053°50'27"E; 1200 m; 2016; leg. Lange • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1202 m; 2017; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24881 • Galougah; 36°39'7.2"N, 053°50'27"E; 1216 m; 2014; leg. Müller • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 4 spec. – **Guilan** • Rezvanshhar; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 17 spec. – **Golestan** • Tangrah; 37°23'46.6"N, 055°48'1.44"E; 2016; leg. Lange; 4 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Georgia, South Russia, Iran (Bartolozzi and Sprecher-Uebersax 2006; Bunalski et al. 2014).

Genus *Dorcus* MacLeay 1819

***Dorcus parallelipedus* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24882 • Alamdareh; 36°21'25.56"N, 053°15'22.31"E; leg. Lange; 1 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 9 spec. – **Guilan** • Punel; 37°31'47.2"N, 049°5'53.8"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'26"N, 054°38'38"E; 833 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Tangrah, 37°23'46.6"N, 055°48'1.44"E; 2016; leg. Lange; 1 spec.

**Distribution.** Widely distributed Palaearctic species (Bartolozzi and Sprecher-Uebersax 2006)

Genus *Lucanus* Scopoli, 1763

***Lucanus ibericus* Motschulsky, 1870**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24883 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Chalandar;

36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec.

**Distribution.** Albania, Greece, Turkey, Russia, Ukraine, Georgia, Armenia, Iran (Bartolozzi and Sprecher-Uebersax 2006; Bunalski et al. 2014).

Genus *Platycerus* Geoffroy, 1762

***Platycerus caraboides* (Linnaeus, 1758)**

**Material examined.** IRAN – Mazandaran • 36°09'45"N, 053°23'35"E; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24884.

**Distribution.** Widely distributed in Palaearctic region (Bartolozzi and Sprecher-Uebersax 2016).

***Platycerus perplexus* Gusakov, 2003**

**Material examined.** IRAN – Guilan • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan (Bartolozzi and Sprecher-Uebersax 2016)

Genus *Sinodendron* Hellwig, 1791

***Sinodendron persicum* Reitter, 1902**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1202 m; leg. Barimani; on *Fagus orientalis*. 9 spec.; COL-24885 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 3 spec.

**Distribution.** Azerbaijan, Iran (Hatch 1928; Bartolozzi and Sprecher-Uebersax 2006; Bunalski et al. 2014).

Family Cerambycidae Latreille, 1802

Genus *Aegosoma* Audinet-Serville, 1832

***Aegosoma scabricorne* (Scopoli, 1763)**

**Material examined.** IRAN – Mazandaran • Sari, Amreh; 36°24'35"N, 053°08'20"E; 300 m; 2007; on *Carpinus betula*; leg. Barimani; COL-24885 • Neka, Kuhsarkandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007, 1 specimen, on *Carpinus Betula* • Behshar, Toskacheshmeh; 36°10'29"N, 053°39'33"E; 927 m; 2007; leg. Barimani; on *Carpinus betula* • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey, Iran, Iraq, Syria (Modarres Awal 1997; Borumand, 2004; Sama et al. 2008; Danilevsky 2020).

Genus *Acanthocinus* Megerle in Dejean, 1821

***Acanthocinus elegans* Ganglbauer, 1884**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh-Boola forest; 36°09'45"N, 053°23'35"E; 2015; leg. Barimani; on *Carpinus* sp. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus* sp.; 1 spec., on *Carpinus betulus*; 21 spec., on *Fagus orientalis*, 2 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24886 • Savadkoh, Asas-Shor-sar; 36°08'18"N, 053°03'50"E; 950 m; 2007; leg. Barimani; on *Carpinus betula* • Neka, Kuhsar-kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2008; on *Carpinus betula* • Sari, Amreh; 36°24'35"N, 053°08'20"E; 300 m; 2007; leg. Barimani; on *Carpinus betula* • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 2 spec. – Guilan • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 5 spec. – Golestan • Gorgan, Shast Kalateh; 36°43'16"N, 054°39'03"E; 988 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*, 2 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Azerbaijan; Iran, Russia (Abai 1984; Borumand 2004; Modarres Awal 1997; Sama et al. 2008; Danilevsky 2020).

Genus *Alosterna* Mulsant, 1863

***Alosterna barimani* Danilevsky, 2010**

**Material examined.** IRAN – Mazandaran • Sari, Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2009; leg. Barimani. Ghaemshar; 36°42'00"N, 053°12'26.3"E; 88 m; 2008; leg. Barimani; COL-24887 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.

**Distribution.** Iran (Danilevsky 2020)

***Alosterna scapularis* (Heyden, 1878)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2009; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24888

**Distribution.** Azerbaijan, Iran, Turkey (Danilevsky 2020).

Genus *Agapanthia* Audinet-Serville, 1835

***Agapanthia kirbyi* Gyllenhal, 1817**

**Material examined.** IRAN – Mazandaran • Alikolah; 36°13'00"N, 053°39'45"E; 1640 m; 2015; leg. Barimani; 1 spec.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden Turkey, Iran (Modarres Awal 1997; Borumand 2004; Sama et al. 2008).



***Agapanthia walteri* Reitter, 1898**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2008; leg. Barimani • Pahnehkola; 36°27'31"N, 053°05'26"E; 171 m; 2007; leg. Barimani; on *Cirsium vulgare* • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Cirsium vulgare*.

**Distribution.** Caucasus, Armenia, Turkey, Iran (Borumand 2004).

***Agapanthia suturalis* (Fabricius, 1787)**

**Material examined.** IRAN – Mazandaran • Amol, Rineh; 36°21'26"N, 052°01'48"E; 1912 m; 2008; leg. Barimani, on *Melilotus officinalis*.

**Distribution.** France, Greece, Italy, Spain, Caucasus, Transcaucasia, Near East, Turkey, Iran, Syria, Iraq (Farahbakhsh, 1961; Borumand 2004; Danilevsky 2020).

***Agapanthia chalybaea* Faldermann, 1837**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2015; leg. Barimani; COL-24889

**Distribution.** Caucasus, Transcaucasia, Turkey, Iran (Danilevsky 2020).

***Agapanthia persicola* Reitter, 1894**

**Material examined.** IRAN – Mazandaran • Sari, Kelachkhase village; 36°16'50"N, 053°22'55"E; 800 m; 2007; leg. Barimani • Sari, Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2008; leg. Barimani • Skart; 36°16'16"N, 053°26'30"E; 1150 m; 2008; leg. Barimani; on *Crataegus melanocarpa*; COL-24890 • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2007; leg. Barimani; on *Cirsium arvense*.

**Distribution.** Azerbaijan, Caucasus, Transcaucasia, Turkey, Iran (Abai, 1984; Borumand 2004; Sama et al. 2008; Danilevsky 2020).

Genus *Anaesthetis* Dejean, 1835

***Anaesthetis testacea* Baeckmann, 1903**

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'36"N, 053°28'30"E; 1600 m; 2007; leg. Barimani; COL-24891.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, the Netherlands, Portugal, Romania, Spain, Sweden, Russia, Turkey, Iran (Danilevsky 2020).

Genus *Anaglyptus* Mulsant, 1839

***Anaglyptus arabicus* (Küster, 1847)**

**Material examined.** IRAN – Mazandaran • Kiasar; 36°17'41.63"N, 053°30'48.23"E; leg. 1 spec.; 2017; leg. Lange.

**Distribution.** Azerbaijan, Georgia, Russia, Iran, Turkey (Danilevsky 2020).

***Anaglyptus ganglbaueri* Reitter, 1886**

**Material examined.** IRAN – Mazandaran • Haft khal; 36°17'47.5"N, 053°30'45.0"E; 1 spec.; leg. Barimani; COL-24891

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

Genus *Anoplodera* Mulsant, 1839

***Anoplodera rufipes* (Schaller, 1783)**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2007 • Skart; 36°16'16"N, 053°26'30"E; 1150 m; 2008; leg. Barimani; on *Crataegus melanocarpa*; COL-24892

**Distribution.** Central and South of Europe, Siberia, Caucasus, Transcaucasia, Near East, Turkey, Iran (Danilevsky 2020).

Genus *Aromia* Audinet-Serville, 1833

***Aromia moschata ambrosiaca* (Steven, 1809)**

**Material examined.** IRAN – Mazandaran • Sari, Varand; 36°20'50"N, 053°11'30"E; 279 m; leg. Barimani 2008; COL-24893.

**Distribution.** France, Greece, Italy, Spain, Russia, Iraq, Syria, Turkey, Iran (Modarres Awal 1997; Borumand 2004; Danilevsky 2020).

Genus *Archandra* Lameere 1913

***Archandra caspia* (Ménétriés, 1832)**

**Material examined.** IRAN – Guilan • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 6 spec.

**Distribution.** Azerbaijan, Pakistan, Iran. (Santos-Silva 2002; Ghredjyan and Kalashian 2015; Danilevsky 2020).

Genus *Callimus* Mulsant, 1846

***Callimus angulatus* (Schrank, 1789)**

**Material examined.** IRAN – Mazandaran • Savad koh, Gorzi ne-khail; 35°58'20"N, 52°53'57"E; 1669 m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2008; leg. Barimani • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Zelkova carpinifolia*; COL-24893 • Sari, Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, Iran, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey, Syria (Borumand 2004; Sama et al. 2008; Danilevsky 2020)

Genus *Callimoxys* Kraatz, 1863

***Callimoxys gracilis* (Brullé, 1832)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani; on *Mespilus germanica* • Sari, Skart; 36°16'16"N, 053°26'30"E; 1150 m; 2007; leg. Barimani; on *Crataegus melanocarpa* • Savad koh, Gorzine-khail;

35°58'20"N, 52°53'57"E; 1669 m; 2008; leg. Barimani; on *Crataegus melanocarpa*; COL-24894.

**Distribution.** Austria, Azerbaijan, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Iran, Turkey (Danilevsky 2020).

Genus *Clytus* Laicharting, 1784

#### *Clytus oblitus lederi* Ganglbauer, 1881

**Material examined.** IRAN – Mazandaran • Sari-Dodangeh Sangdeh; 36°04'10"N, 053°11'25"E; 1195 m; 2007; leg. Barimani • Pahnehkola; 36°27'30.7"N, 053°05'36"E; 171 m; 2008; leg. Barimani • Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2007; leg. Barimani • Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; on *Fabisalba* • Skart; 36°16'16"N, 053°26'30"E; 1150 m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Savad koh: Asas-Shorsar; 36°08'18"N, 053°03'50"E; 950 m; 2007; leg. Barimani; COL-24895.

**Distribution.** Caucasus (Roubal 1932), Azerbaijan, Iran (Danilevsky 2020).

#### *Clytus vesparum* Reitter, 1889

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 2007; leg. Barimani; COL-24896.

**Distribution.** Azerbaijan (Talysh Mountains); Iran (Danilevsky 2020).

Genus *Cerambyx* Linnaeus, 1758

#### *Cerambyx multiplicatus* Motschulsky, 1857

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2008; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24897 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 2015, 1749 m; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Fabis alba* • Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Neka, Kuh-sar Kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; leg. Barimani; on *Zelkova carpinifolia* • Ghaemshar; 36°42'00"N, 053°12'26.3"E; 88 m; 2008; leg. Barimani • Semsekandeh; 36°33'38.2"N, 053°10'23.9"E; 2018; leg. Thorn; 2 spec. • Haftkhal; 36°17'43.3"N, 053°30'52.2"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Iran (Modarres Awal 1997; Danilevsky 2020).

#### *Cerambyx cerdo* Linnaeus, 1758

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m, 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Behshar, Toskacheshmeh; 36°10'29"N, 053°39'33"E; 927 m; 2007; leg. Barimani; on *Carpinus betula*; COL-24898 • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20

m; 2007; leg. Barimani, 2007; on *Quercus castaneifolia* • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Zelkova carpinifolia*.

**Distribution.** Austria, Belgium, Bulgaria, Russia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, Iran, the Netherlands, Portugal, Romania, Spain, Sweden, Turkey (Modarres Awal 1997; Sama et al. 2008; Danilevsky 2020).

Genus *Cortodera* Mulsant, 1863

#### *Cortodera pumila* Ganglbauer, 1882

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°07'50"N, 053°25'24"E; 2051 m, 2015; leg. Barimani; on *Fagus orientalis*, 4 spec. • 36°07'50"N, 053°25'24"E; 2051 m, 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24898.

**Distribution.** Azerbaijan, Iran, Russia (Abai 2000; Borumand 2004; Danilevsky 2020).

Genus *Chlorophorus* Chevrolat, 1863

#### *Chlorophorus varius* (Müller, 1766)

**Material examined.** IRAN – Mazandaran • Joybar, Pahnab; 36°39'06"N, 052°57'46"E; 2 m; 2009; leg. Barimani; on *Amygdalus persica*; 1 spec.; COL-24899.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Siberia, Caucasus, Transcaucasia, Turkey (Modarres Awal 1997; Borumand 2004; Sama et al. 2008; Danilevsky 2020).

#### *Chlorophorus figuratus* (Scopoli, 1763)

**Material examined.** IRAN – Mazandaran • Sari, Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; 2009; leg. Barimani; COL-24900.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Siberia, Caucasus, Transcaucasia, Turkey (Modarres Awal 1997; Danilevsky 2020).

Genus *Echinocerus* Mulsant, 1862

#### *Echinocerus floralis* (Pallas, 1773)

**Material examined.** IRAN – Mazandaran • Behshar, Pasand; 36°49'26"N, 053°36'32"E; 27 m; leg. Barimani, 2007 • Babol, Sombolrod; 36°18'26"N, 52°49'29"E; 2008; leg. Barimani; COL-24901.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Siberia, Caucasus,

Transcaucasia, Turkey, Near East, Iran (Borumand 2004; Sama et al. 2008; Danilevsky 2020).

Genus *Exocentrus* Fairmaire, 1901

***Exocentrus adpersus* Mulsant, 1846**

**Material examined.** IRAN – Mazandaran • Ghaemshar; 36°42'00"N, 053°12'26"E; 88 m; 2008; leg. Barimani; COL-24902.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Caucasus, Transcaucasia (Danilevsky 2020).

Genus *Dorcadion* Dalman, 1817

***Dorcadion kharpuense* Danilevsky, 1998**

**Material examined.** IRAN – Mazandaran • Sari, Poshte Koh, Kevat; 36°14'58"N, 053°46'52"E; 1501 m; 2008; leg. Barimani • Kelachkhaseh; 36°16'50"N, 053°22'55"E; 800 m; 2008; leg. Barimani; COL-24903.

**Distribution.** Iran (Barimani et al. 2010; Danilevsky 2020)

Genus *Gracilia* Audinet-Serville, 1834

***Gracilia minuta* (Fabricius, 1781)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 4 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 2 spec.; COL-24904.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Turkey, Serbia, Algeria, Morocco, Tunisia (Danilevsky 2020).

Genus *Grammoptera* Dejean, 1835

***Grammoptera ruficornis* (Fabricius, 1781)**

**Material examined.** IRAN – Mazandaran • Kelardasht; 36°32'45.6"N, 051°44'49.2"E; 2018; leg. Thorn; 13 spec.; COL-24905.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Turkey (Danilevsky 2020).

Genus *Fallacia* Mulsant & Rey, 1863

***Fallacia elegans* (Faldermann, 1837)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani; on *Crataegus melanocarpa*; COL-24906.

**Distribution.** Azerbaijan, Iran, Russia, Turkey (Borumand 2004; Danilevsky 2020).

Genus *Leiopus* Audinet-Serville, 1835

***Leiopus femoratus* Fairmaire, 1859**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 39°30'25"N, 040°02'11"E; 1618 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24907 – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 850 m; on *Fagus orientalis*; 1 spec.; leg. Rafiei-Jahed, 2018 • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 1 spec.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Georgia, Hungary, Italy, Iran, Lithuania, the Netherlands, Norway, Switzerland, Ukraine, Azerbaijan, Turkey (Danilevsky 2020).

Genus *Mesosa* LeConte, 1852

***Mesosa jarzabeky* Danilevski & Müller, 2016**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 2 spec.; COL-24908.

**Distribution.** Iran (Danilevski and Müller 2016)

***Mesosa obscuricornis* Pic, 1894**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 2007; leg. Barimani; on *Quercus cataneifolia*; COL-24909.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

***Mesosa obscuricornis* Pic, 1894**

**Material examined.** IRAN – Mazandaran • Sisan-gan; 36.576°N, 051.819°E, 2016; leg. Lange; 3 spec.; COL-24910.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

Genus *Molorchus* Fabricius, 1792

***Molorchus monticola* Plavilstshikov, 1931**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*, 2 spec. • Savadkoh, Dogal; 36°00'55"N, 053°00'50"E; 2000 m; 2007; leg. Barimani; on *Crataegus melanocarpa* • Sari, Kelachkhase village; 36°16'50"N, 053°22'55"E; 800 m; 2007; leg. Barimani; on *Crataegus melanocarpa*; COL-24910 • Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Kelardasht; 36°32'43.1"N, 051°44'48.7"E; 2016;



leg. Lange; 11 spec. • Kelardasht; 36°32'45.6"N, 051°04'49.2"E; 2018; leg. Thorn; 13 spec.

**Distribution.** Azerbaijan, Georgia, Iran, Turkmenistan (Farashiani et al. 2006; Danilevsky 2020)

Genus *Morimus* Audinet-Serville, 1835

***Morimus verecundus* (Faldermann, 1836)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh-Sangdeh; 36°04'10"N, 053°11'25"E; 1195 m; 2007; leg. Barimani; on *Carpinus betula*; COL-24911 • Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; leg. Barimani; on *Quercus castaneifolia* • Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani • Haftkhal; 36°17'36"N, 053°28'30"E; 1600 m; 2007. leg. Barimani; on *Carpinus betula* • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Zelkova carpinifolia* • Pahnehkola; 36°27'31"N, 053°05'36"E; 171 m; 2007; leg. Barimani; on *Cupressus sempervirens* • Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; leg. Barimani; on *Quercus castaneifolia* • Savadkoh, Asas-Shorsar; 36°08'18"N, 053°03'50"E; 950 m; 2007; leg. Barimani; on *Carpinus betula* • Neka, Kuh-sar-kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007 leg. Barimani; on *Quercus castaneifolia* • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 1 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Loveh; 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 1 spec.

**Distribution.** Azerbaijan, Georgia, Russia, Turkey, Iran, Turkmenistan (Mirzayans 1950; Farahbakhsh 1961; Abai 1969; Rejzek 2001; Borumand 2004; Modarres Awal 2005; Danilevsky 2020).

Genus *Necydalis* Latreille, 1825

***Necydalis sirexoides* Reitter, 1902**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24912.

**Distribution.** Iran (Danilevsky 2020).

Genus *Oxymirus* Mulsant, 1863

***Oxymirus mirabilis* (Motschulsky, 1838)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 2 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m, 2015; leg. Barimani; on *Fagus orientalis*; 2 spec.; COL-24913 • Kelardasht; 36°32'43.1"N, 051°44'48.7"E; 2016; leg. Lange; 1 spec. – **Guilan** • Asalem; 37°40'15.1"N, 048°45'09.6"E; 2018; leg. Thorn; 1 spec.

**Distribution.** Armenia, Georgia, Iran, Russia, Turkey (Danilevsky 2020).

Genus *Lepturia* Linnaeus, 1758

***Leptura quadrifasciata* Linnaeus, 1758**

**Material examined.** IRAN – **Guilan** • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 7 spec.

**Distribution.** Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Siberia, Caucasus, Transcaucasia, Turkey (De Jong 2016; Danilevsky 2020).

Genus *Oxyliia* Mulsant, 1863

***Oxyliia argentata* (Ménétriés, 1832)**

**Material examined.** IRAN – **Mazandaran** • Amol; 35°52'05"N, 52°03'08"E; 2446 m; 2008; leg. Barimani; on *Geranium rubertianum*; COL-24914.

**Distribution.** Caucasus, Transcaucasia, Near East, Turkey, Iran (Farashiani et al. 2000).

Genus *Paraclytus* Bates, 1884

***Paraclytus raddei* (Ganglbauer, 1881)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 6 spec. • Kelardasht; 36°32'43.1"N, 051°44'48.71"E; 2016; leg. Lange; 1 spec. – **Guilan** • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 12 spec. • Sika; 36°21'23.1"N, 053°32'20.2"E; 2018; leg. Thorn; 3 spec.; COL-24915 • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'06"N, 054°39'05"E; 1019 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Shastkalateh; 36°43'41.7"N, 054°23'48.3"E; 2018; leg. Thorn; 2 spec.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

***Paraclytus reitteri* (Ganglbauer, 1881)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 4 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Sari, Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani • Kelardasht; 36°32'43.1"N, 051°44'48.71"E; 2016; leg. Lange; 1 spec.; COL-24916 – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 3 spec.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

Genus *Parandra* Latreille, 1802

***Parandra caspica* (Ménétriés, 1832)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec., on *Carpinus betulus*, 12 spec.; COL-24917 • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec. • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2007; leg. Barimani; on *Quercus castaneifolia*, *Alnus subcordata*, *Carpinus betula*, *Acer velutinum* • Golord; 36°23'50"N, 053°11'40"E; 500 m; 2007; on *Carpinus betula* • Sangdeh; 36°04'10"N, 053°11'25"E; 1195 m; 2008; leg. Barimani; on *Carpinus betula* • Sari, Varand; 36°20'50"N, 053°11'30"E; 279 m; 2008; leg. Barimani; on *Salix excels* • Neka Kuhsar, Kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; on *Quercus castaneifolia*; leg. Barimani; 2007 (Barimani et al. 2010) • Chalandar; 36°32'32.1"N, 051°38'43.8"E; 2014; leg. Thorn; 5 spec. – **Guilan** • Talysh; 37°40'15.2"N, 048°45'9.7"E; 2016; leg. Lange; 3 spec.

**Distribution.** Azerbaijan, Iran (Abai 1969; Borumand 2004).

Genus *Parmena* Dejean, 1821

***Parmena aurora* Danilevsky, 1980**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.

**Distribution.** Azerbaijan, Georgia, Iran (Danilevsky 2020).

Genus *Plagionotus* Mulsant, 1842

***Plagionotus arcuatus* (Linnaeus, 1758)**

**Material examined.** IRAN – **Guilan** • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 1 spec.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Turkey (Danilevsky 2020).

***Plagionotus bartholomei* Motschulsky, 1853**

**Material examined.** IRAN – **Mazandaran** • Neka, Kuhsar, Kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2008; leg. Barimani; on *Quercus castaneifolia*; COL-24918.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

***Plagionotus lugubris* Ménétriés, 1832**

**Material examined.** IRAN – **Mazandaran** • **Dodangeh**, Sangdeh; 36°04'10"N, 053°11'25"E; 1195 m; 2008; leg. Barimani; on *Fagus orientalis*.

**Distribution.** Turkmenistan, Iran (Farahbakhsh 1961; Modarres Awal 1997).

Genus *Phymatodes* Mulsant, 1839

***Phymatodes femoralis* (Ménétriés, 1832)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; on *Fagus orientalis*; 1 spec.; leg. Barimani; 2015; COL-24919 • Sari, Alamdardeh; leg. Barimani; 2007.

**Distribution.** Azerbaijan, Iran, Georgia, Russia (Modarres Awal 1997).

Genus *Poecilium* Fairmaire, 1864

***Poecilium pusillum* (Fabricius, 1787)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24920

**Distribution.** Austria, Belgium, Czech Republic, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland (Danilevsky 2020).

***Poecilium alni lateniger* Pic, 1945**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh. Boola forest; 36°09'45"N, 053°23'35"E; 2015; leg. Barimani • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 1 spec.; on *Carpinus betulus*, 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 5 spec.; COL-24921.

**Distribution.** Azerbaijan, Iran (Holzschuh 1977).

Genus *Prionus* Geoffroy, 1762

***Prionus coriarius* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396m, 2009; leg. Barimani; 2009 – **Guilan** • Shafarood; 37°40'15"N, 048°45'09"E; 1138 m; 2018; leg. Kazerani; 8 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24922

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Siberia, Caucasus, Turkey (Modarres Awal 1997).

Genus *Phytoecia* Dejean, 1835

***Phytoecia cylindrica* (Linnaeus, 1758)**

**Material examined.** IRAN – **Mazandaran** • Sari,

Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2008; leg. Barimani • Savadkoh, Dogal; 36°00'55"N, 053°00'50"E, 2000 m; 2008; leg. Barimani; COL-24923.

**Distribution.** Europe, Caucasus, Transcaucasia, Siberia, Russian Far East, China, Near East, Turkey, Iran (Farahbakhsh 1961; Modarres Awal 1997)

***Phytoecia pustulata* (Schrank, 1776)**

**Material examined.** IRAN – **Guilan** • Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani; COL-24924.

**Distribution.** Caucasus, Transcaucasia, Turkey, Iran (Danilevsky 2020).

Genus *Pseudoprionus* Pic, 1898

***Pseudoprionus bienerti* (Heyden, 1885)**

**Material examined.** IRAN – **Mazandaran** • Sari, Varand; on *Zelkova* sp. leg. Barimani; 2007; COL-24925

**Distribution.** Turkmenistan, Iran (Modarres Awal 1997; Borumand 2004; Danilevsky 2020).

Genus *Purpuricenus* Dejean, 1821

***Purpuricenus talyshensis* Reitter, 1891**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2015; leg. Barimani; on *Crataegus melanocarpa*; 1 spec. • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2008; leg. Barimani; on *Crataegus melanoarpa* and *Zelkova carpinifolia*; COL-24924 • Skart; 36°16'16"N, 053°26'30"E; 1150 m; 2008; leg. Barimani; on *Crataegus melanocarpa*.

**Distribution.** Azerbaijan, Iran (Danilevsky 2020).

Genus *Rhaesus* Motschulsky, 1875

***Rhaesus serricollis* (Motschulsky, 1838)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; leg. Barimani; on *Carpinus betulus*; 1 spec. • Neka, Kuhsar-Kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; leg. Barimani; on *Quercus castaneifolia*; COL-24925.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Caucasus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Russia Slovakia, Slovenia, Sweden, Switzerland, Transcaucasia, Turkey (Modarres Awal 1997; Borumand 2004; Sama et al. 2008).

Genus *Rhagium* Fabricius, 1775

***Rhagium pygmaeum* Ganglbauer, 1881**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; on *Alnus subcordata*, 7 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Bola forest;

36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*, 23 spec.; leg. Barimani; 2015 • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 53 spec. • Sari, Dodangeh, Sotkola; 36°08'20"N, 053°12'35"E; 1027 m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Haftkhal; 36°17'16"N, 053°23'43"E; 855 m; 2008; leg. Barimani; COL-24926 • Kelardasht; 36°32'45.6"N, 051°4'49.2"E; 2018leg. Thorn; 1 spec.

**Distribution.** Azerbaijan, Iran (Borumand 2004).

Genus *Ropalopus* Mulsant, 1839

***Ropalopus macropus* (Germar, 1824)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2008; leg. Barimani • Haftkhal; 36°17'36"N, 053°28'30"E; 1600 m; 2015; leg. Barimani; COL-24928 • Pahnehkola; 36°27'31"N, 053°05'36"E; 171 m; 2008; leg. Barimani • Sika; 36°21'23.0"N, 053°32'20.4"E; 2016; leg. Lange; 1 spec.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Iran, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkey (Modarres Awal 1997; Sama et al. 2008; Danilevsky 2020)

Genus *Stictoleptura* Casey, 1924

***Stictoleptura scutellata* (Fabricius, 1781)**

**Material examined.** IRAN – **Mazandaran** • Sari, Alamdardeh; 36°21'21"N, 053°15'36"E; 396 m; 2007; leg. Barimani; Haftkhal; 36°17'16"N, 053°23'43"E; 855 m, 2008; leg. Barimani • Pahnehkola; 36°27'14"N, 053°03'06"E; 218 m; leg. Barimani; 2008 • Nekachob; 36°36'51"N, 053°12'50"E; 47 m; 2008; leg. Barimani • Neka-Kuhsar-kandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; leg. Barimani; on *Quercus castaneifolia*; COL-24927 – **Guilan** • Punel; 37°31'47.2"N, 049°5'53.8"E; leg. Müller; 2014; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'20"N, 054°39'26"E; 980 m; 2018; leg. Rafiei-Jahed, on *Fagus orientalis*; 1 spec.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkey, Iran (Modarres Awal 1997; Borumand 2004; Danilevsky 2020).

***Stictoleptura tonsa* (Daniel, 1891)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°41'36"N, 053°12'36"E; 20 m; 2008; leg. Barimani • Sari, Varand; 36°32'05"N, 053°11'33"E; 413



m; 2008; leg. Barimani; on *Crataegus melanocarpa* • Sari, Nekachob; 36°36'51"N, 053°12'50"E; 47 m; 2008; leg. Barimani; COL-24910.

**Distribution.** Crimea, Caucasus, Transcaucasia, Near East, Turkey, Iran (Modarres Awal 1997; Borumand 2004).

Genus *Stenopterus* Illiger, 1806

***Stenopterus rufus* (Linnaeus, 1767)**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'21"E; 396 m; 2007; leg. Barimani • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2007; leg. Barimani; on *Anthemisaltissima* • Behshar, Pasand; 36°42'26"N, 053°36'32"E; 27 m; 2007; leg. Barimani; COL-24928

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Caucasus, Transcaucasia, Turkmenistan, Turkey, Iran (Modarres Awal 1997; Borumand 2004; Sama et al. 2008; Danilevsky 2020).

Genus *Stromatium* Audinet-Serville, 1834

***Stromatium unicolor* (Olivier, 1795)**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 2 spec. • Sari, Varand; 36°32'05"N, 053°11'33"E; 413 m; 2007; leg. Barimani, Neka, Kuhsarkandeh; 36°35'00"N, 053°20'00"E; 200 m; 2007; leg. Barimani; on *Carpinus betula* • Savadkoh, Polsephid, Amirkola; 36°05'40"N, 053°04'30"E; 870 m; 2007; leg. Barimani; COL-24929.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkmenistan, Caucasus, Transcaucasia, Near East, Iraq, Turkey, Iran (Modarres Awal 1997; Borumand 2004; Sama et al. 2008).

Genus *Stenocorus* Fabricius, 1775

***Stenocorus insitivus* (Faldermann, 1837)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec.; COL-24930.

**Distribution.** Turkey, Cyprus, Lebanon, Syria, Israel, Iraq, Iran, Russia, Georgia (Farahbakhsh 1961; Danilevsky 2020).

Genus *Tetrops* Stephens, 1829

***Tetrops gilvipes* (Faldermann, 1837)**

**Material examined.** IRAN – Mazandaran • Sari, Alamdardeh; 36°21'21"N, 053°15'26"E; 396 m; 2008; leg. Barimani; COL-24931.

**Distribution.** Caucasus, Turkmenistan (Kopet-Dagh mountains), Iran (Danilevsky 2020).

Genus *Pedostrangalia* Sokolov, 1896

***Pedostrangalia imberbis* (Ménétriés, 1832)**

**Material examined.** IRAN – Mazandaran • Sari, Kelach-Khaze; on *Quercus castaneifolia*; leg. Barimani; 2007; COL-24932.

**Distribution.** Azerbaijan, Turkmenistan; Iran (Danilevsky 2020).

Genus *Trichoferus* Wollaston, 1854

***Trichoferus campestris* (Faldermann, 1835)**

**Material examined.** IRAN – Mazandaran • Savadkoh, Kalijkhail; 36°19'08"N, 052°51'29"E; 2007; leg. Barimani; COL-24933 • Behshar, Hezarjerib (Niala); 36°37'09"N, 053°15'07"E; 1492 m; 2007; leg. Barimani.

**Distribution.** Algeria, Austria, Belgium, Belarus, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Caucasus, Transcaucasia, Central Asia, Kazakhstan, East Siberia, Russian Far East, Mongolia, China, Korea, Japan, Iran (Barimani et al. 2010; Danilevsky 2020).

***Trichoferus fasciculatus* (Faldermann, 1837)**

**Material examined.** IRAN – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24934.

**Distribution.** Azerbaijan, Algeria, Armenia, Belarus, Croatia, Russia, Czech Republic, France, Germany, Georgia, Hungary, Italy, Lithuania, Macedonia, Portugal, the Netherlands, Norway, Poland, Romania, Spain, Ukraine, Iran, Turkey, Iraq, Israel (Danilevsky 2020).

Genus *Rutpela* Nakane & Ohbayashi, 1957

***Rutpela inermis* (Daniel, 1898)**

**Material examined.** IRAN – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24935.

**Distribution.** Azerbaijan, Iran, Turkmenistan (Danilevsky 2020).

Family Anthribidae Billberg, 1820

Genus *Choragus* Kirby, 1819

***Choragus sheppardi* Kirby, 1819**

**Material examined.** IRAN – Mazandaran • Sari,

Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'29"E; 983 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24936.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Poland, Romania, Spain, Sweden, Switzerland, Turkey, Ukraine (Tryzna and Valentine 2011)

#### ***Platystomos albinus* (Linnaeus, 1758)**

**Material examined.** IRAN – **Guilan** – Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; 1 spec.; leg. Lange; COL-24937.

**Distribution.** Algeria, Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Georgia, Hungary, Italy, the Netherlands, Poland, Romania, Sweden, Switzerland, Ukraine, Yugoslavia, Russia, Iran, India, Kazakhstan (Tryzna and Valentine 2011; Ghahari and Colonnelli 2019).

Family Curculionidae Latreille, 1802

Genus *Anisandrus* Ferrari, 1867

#### ***Anisandrus dispar* (Fabricius, 1792)**

**Material examined.** IRAN – **Mazandaran** • 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus* sp • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus* sp. – **Guilan** • Asalem, 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 6 spec.; COL-24938.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Moldavia, the Netherlands, Poland, Slovakia, Slovenia, Spain, Sweden, Ukraine, Serbia and Montenegro, Japan, North Korea, South Korea (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020; Sanchez et al. 2020).

Genus *Acicnemis* Fairmaire, 1849

#### ***Acicnemis elongata* Hübenthal, 1919**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 5 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; on *Carpinus betulus*, 7 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961m; 2015; leg. Barimani, on *Fagus orientalis*; 1 spec.; COL-24939 – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'47"E; 822 m; leg. Rafiei-Jahed; on *Fagus orientalis*; 2 spec.

**Distribution.** Azerbaijan, Georgia, Iran (Knížek 2011).

Genus *Dryocoetes* Eichhoff 1864

#### ***Dryocoetes villosus* (Fabricius, 1792)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani, on *Quercus castanifolia*; 19 spec. • Haftkhal; 36°17'46.4"N, 053°30'47.9"E; 2016; leg. Lange; 1 spec. – **Golestan**, Shast Kalateh; 36°43'25"N, 054°38'47"E; 822 m; 2016; leg. Farashiani; 3 spec.; COL-24940.

**Distribution.** Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, Turkey (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020; Sanchez et al. 2020).

Genus *Echinodera* Wollaston, 1863

#### ***Echinodera hyrcanica* (Savitsky, 1997)**

**Material examined.** IRAN – **Mazandaran** • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani; on *Fagus orientalis*; 1 spec. • Chalandar; 36°32'32.09" N, 051°38'43.8"E; 2014; 6 spec.; leg. Thorn.

**Distribution.** Russia (Knížek 2013).

Genus *Kyklioacalles* Stüben, 1999

#### ***Kyklioacalles chaudiirii* (Hochhuth, 1851)**

**Material examined.** IRAN – **Golestan** • Gorgan, Shast Kalateh; 36°43'25"N, 054°38'28"E; 983 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24941.

**Distribution.** Georgia, Russia, Turkey (Stuben et al. 2013).

Genus *Platypus* Herbst, 1793

#### ***Platypus cylindrus* (Fabricius, 1792)**

**Material examined.** IRAN – **Mazandaran** • Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani, on *Quercus* sp. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 16 spec. • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 2015; 1961 m; leg. Barimani, on *Fagus orientalis*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; leg. Barimani; on *Quercus castanifolia*, 5 spec.; COL-24942.

**Distribution.** Belgium, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Caucasus (Beaver et al. 2016).

Genus *Phloeophagus* Schönherr, 1838

***Phloeophagus brignolii* G. Osella, Zuppa & Lodos, 1993**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*; 1 spec.; COL-24943.

**Distribution.** Turkey (Hlavac and Maughan 2013; Alonso-Zarazaga et al. 2021).

***Phloeophagus schoenherri* (Hochhuth, 1847)**

**Material examined.** IRAN – Guilan • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange; 7 spec.; COL-24944.

**Distribution.** Azerbaijan, Russia, Ukrain, Iran (Hlavac and Maughan 2013).

Genus *Meliciusi* Alonso-Zarazaga, 2002

***Melicius cylindrus* (Boheman, 1838)**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castaneifolia*; 1 spec. – Golestan • Gorgan, Shast Kalateh; 36°43'19"N, 054°38'27"E; 920 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Tanargah; 37°23'46"N, 055°48'01.4"E; 2016; leg. Lange; 3 spec.; COL-24945

**Distribution.** Albania, Armenia, Austria, Bulgaria, Croatia, Czech Republic, France, Georgia, Greece, Hungary, Italy, Romania, Spain, Switzerland, Iran, Syria (Hlavac and Maughan 2013).

***Melicius iranicus* (Osella, Zuppa & Lodos, 1993)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 2 spec.; COL-24946.

**Distribution.** Iran (Hlavac and Maughan 2013).

Genus *Trachodes* Germar, 1824

***Trachodes hystrix* Gyllenhal, 1836**

**Material examined.** IRAN – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec.; COL-24947.

**Distribution.** Azerbaijan, Georgia, Russia, Ukrain, Iran, Turkiminstan (Borovec 2013).

Genus *Trypodendron* Stephens, 1830

***Trypodendron signatum* (Fabricius, 1792)**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; on *Alnus subcordata*; 20 spec.; leg. Barimani • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani, on *Carpinus betulus*, 39 spec. • Sari,

Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; 2015; leg. Barimani, on *Fagus orientalis*; 86 spec.; COL-24948 – Guilan • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani, 16 spec. • Rezvanshahr; 37°28'15.5"N, 048°49'19.2"E; 2016; leg. Lange. 1 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bulgaria, Belarus, Croatia, Russia, Czechia, Denmark, Estonia, Finland, France Georgia, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Macedonia, Norway, Poland, Russia, Romania, Slovakia, Slovenia, Spain, Russia, Sweden, Switzerland, Serbia and Montenegro, Ukraine, Israel, Japan, Kazakhstan, Mongolia, North Korea, China (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020; Sanchez et al. 2020).

Genus *Stenoscelis* Wollaston, 1861

***Stenoscelis subasperatus* Reitter, 1998**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m; on *Fagus orientalis*; 1 spec.; leg. Barimani; 2015 • Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; 3 spec.; leg. Lange; COL-24948 • Haftkhal; 36°17'47.5"N, 053°30'45.0"E; 2015; leg. Barimani; 1 spec. – Golestan • Loveh, 37°18'36"N, 055°40'12"E; 2016; leg. Lange; 1 spec.

**Distribution.** Austria, Belgium, Bulgaria, Croatia, Russia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Macedonia, Norway, Poland, Slovenia, Spain, Russia, Sweden, Switzerland, Serbia and Montenegro, Algeria, Morocco, Russia, East Siberia, Japan, North Korea, Turkey (Knížek 2011), Iran (Beaver et al. 2016; Amini and Nozari 2016; Amini et al. 2020).

Genus *Stereocorynes* Wollaston, 1873

***Stereocorynes persicus* Folwaczny, 1966**

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*, 7 spec.; COL-24949 • Sika; 36°21'23.04"N, 053°32'20.4"E; 2016; leg. Lange; 1 spec. – Guilan • Punel; 37°31'47.2"N, 049°5'53.8"E; 2016; leg. Lange; 1 spec. – Golestan • Gorgan, Shast Kalateh; 36°43'08"N, 054°38'29"E; 1017 m; 2018; leg. Rafiei-Jahed; on *Fagus orientalis*; 1 spec. • Gorgan; 36°43'12"N, 054°23'24"E; 2016; leg. Lange; 4 spec.

**Distribution.** Iran (Folwaczny 1966).

Genus *Scolytus* Geoffroy, 1762

***Scolytus ecksteini* Butovitsch, 1929**

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24950.

**Distribution.** Azerbaijan, Kazakhstan, Russia, Turk-



menistan (Knížek 2011), Iran (Amini et al. 2013; Amini et al. 2020).

### *Scolytus ensifer* Eichhoff, 1881

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec.; COL-24951.

**Distribution.** Austria, Azores, Bosnia and Herzegovina, Bulgaria, Russia, Czechia, France, Germany, Greece, Hungary, Italy, Poland, Romania, Slovakia, Switzerland, Ukraine, Serbia and Montenegro, Turkey (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020; Sanchez et al. 2020).

### *Scolytus intricatus* (Ratzeburg, 1837)

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'46.4"N, 053°30'47.9"E; 2016; leg. Barimani; 2 spec.; COL-24952.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Serbia and Montenegro, Algeria, Egypt, Morocco, Turkey (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020).

### *Scolytus mali* (Bechstein, 1805)

**Material examined.** IRAN – Mazandaran • Haftkhal; 36°17'46.4"N, 053°30'47.9"E; 2015; leg. Barimani; 2 spec.; COL-24953.

**Distribution.** Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Macedonia, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Algeria, Egypt, Morocco, Turkey (Knížek 2011), Iran (Amini et al. 2013; Beaver et al. 2016; Amini et al. 2020).

### *Scolytus rugulosus* (Müller, 1818)

**Material examined.** IRAN – Mazandaran • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 1 spec.; COL-24954.

**Distribution.** Azerbaijan, Albania, Austria, Azores, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Macedonia, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Algeria, Morocco, Tunisia, Cyprus, Russia East Siberia, Iran, Iraq, Israel, Kazakhstan, Lebanon, Mongolia, Pakistan, Saudi Arabia, Syria, Turkey, Iran (Amini and Nozari 2016; Beaver et al. 2016; Amini et al. 2020).

Genus *Taphrorychus* Eichhoff, 1878

### *Taphrorychus lenkoranus* Reitter, 1913

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 49 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1749 m; 2015; on *Carpinus betulus*; 1199 spec.; leg. Barimani • Sari, Dodangeh–Pardkola–Nejim forest; 36°07'50"N, 053°25'24"E; 1961 m, 2015; on *Fagus orientalis*; 10 spec. on *Quercus castanifolia*; 26 spec.; leg. Barimani • Haftkhal; 36°17'46.4"N, 053°30'47.9"E; 2016; leg. Barimani; 2 spec.; COL-24955.

**Distribution.** Azerbaijan, Armenia, Georgia, Russia (Knížek 2011), Iran (Amini et al. 2013, 2020).

Genus *Xyleborinus* Reitter, 1913

### *Xyleborinus saxesenii* (Ratzeburg, 1837)

**Material examined.** IRAN – Mazandaran • Sari, Dodangeh; 36°02'48"N, 053°17'26"E; 2015; leg. Barimani; on *Carpinus betulus*, 63 spec., on *Fagus orientalis*, 9 spec. • Sari, Dodangeh–Pardkola–Bola forest; 36°09'45"N, 053°23'35"E; 1202 m; 2015; leg. Barimani; on *Alnus subcordata*, 54 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*; 3 spec. • Haftkhal; 36°17'46.4"N, 053°30'47.9"E; 2015; leg. Barimani; 2 spec.; COL-24956 – **Guilan** • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 12 spec. • Shafarood, 37°40'15"N, 048°45'09"E; 1138 m; 2018; leg. Kazerani; 4 spec. – **Golestan** • Shast Kalateh; 36°43'25"N, 054°38'29"E; 2016; leg. Farashiani; 4 spec.

**Distribution.** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Russia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Moldavia, the Netherlands, Poland, Slovakia, Slovenia, Spain, Sweden, Ukraine, Serbia and Montenegro, Japan, North Korea, South Korea (Knížek 2011), Iran (Beaver et al. 2016; Amini et al. 2020; Sanchez et al. 2020).

Genus *Xyleborus* Eichhoff, 1864

### *Xyleborus monographus* (Fabricius, 1792)

**Material examined.** IRAN – Mazandaran • 36°09'45"N, 053°23'35"E; 1539 m; 2015; leg. Barimani; on *Carpinus betulus*; 1 spec. • Sari, Dasht-e-Naz; 36°09'45"N, 053°23'35"E; 10 m; 2015; leg. Barimani; on *Quercus castanifolia*, 10 spec.; COL-24956 – **Guilan** • Asalem; 37°28'19"N, 048°49'15"E; 1169 m; 2018; leg. Kazerani; 12 spec. • Shafarood; 37°40'15"N, 048°45'09"E; 1138 m; 2018.; leg. Kazerani; 8 spec.

**Distribution.** Austria, Belgium, Bulgaria, Belarus, Croatia, Czech Republic, Denmark, Estonia, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Luxembourg, Macedonia, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden,



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## Authors' Contributions

Conceptualization: MEF, JM, HBV, SA. Data curation: JM, SM, FL, HBV, SA. Funding acquisition: JM, MEF. Investigation: HBV, FK, MB, ST, JM, MEF, SA. Methodology: FK, HBV, FL, ST, SA, RRJ. Project administration: JM. Writing – original draft: JM, SA. Writing – review and editing: JM, SA, HY, ST.

## References

- Abai M (1984) List of pests of forest trees and shrubs of Iran. Plant Pests and Diseases Research Institute, Tehran, Iran, 147 pp.
- Abai M (1969) List of Cerambycidae family in Iran. *Entomologie et Phytopathologie Appliquées* 28: 47–54.
- Alonso-Zarazaga A, Lyal CH, Sánchez-Ruiz M (2021) Electronic Catalogue of Weevil names (Curculionoidea). In: Bánki O, Roskov Y, Vandepitte L, DeWalt RE, Remsen D, Schalk P, Orrell T, Keping M, Miller J, Aalbu R, Adlard R, Adriaenssens E, Aedo C, Aesch E, Akkari N, Alonso-Zarazaga M A, Alvarez B, Alvarez F, Anderson G (Eds.) *Catalogue of life checklist* (version 2021-04). <https://doi.org/10.48580/d4tm-38v>
- Angelini F (1995) Revisione tassonomica delle specie paleartiche del genere *Agathidium* Panzer (Coleoptera, Leiodidae, Agathidiini). *Monografie di Museo Regionale di Scienze Naturali, Torino, Italy*, 485 pp.
- Amini S, Krolík R, Nozari J, Farashiani M, Kazerani F (2020a) A survey of Ciidae Leach, 1819 (Coleoptera: Tenebrionoidea) of the Hyrcanian Forest (Iran) with new faunistic records. *Zoodyversity* 54: 317–328. <https://doi.org/10.15407/zoo2020.04.317>
- Amini S, Nozari J, Smith S, Martínez I, Hosseini R, Faccoli M (2020b) Morphological and molecular identification of the Iranian bark and ambrosia beetles (Coleoptera, Curculionidae, Scolytinae). *Zootaxa* 3: 251–284. <https://doi.org/10.11646/zootaxa.4852.3.1>
- Amini S, Nozari J, Mandelshtam M, Knizek M, Etemad V, Faccoli M (2017) New records of Iranian bark beetles (Coleoptera: Curculionidae, Scolytinae) and their host plants. *Zootaxa* 4350: 396–400. <https://doi.org/10.11646/zootaxa.4350.2.13>
- Amini S, Nozari J (2016) Checklist of bark beetles of Iran (Coleoptera: Curculionidae: Scolytinae). *Entomofauna* 9: 161–184.
- Amini S, Sheykhnjad H, Hosseini R (2016) First record of *Cis chinensis* (Coleoptera: Ciidae) from Iran. *Journal of Entomological Research* 8: 165–169.
- Amini S, Sheykhnjad H, Hosseini R (2014) The first report of *Cis multidentatus* (Coleoptera: Ciidae) for the fauna of Iran. In: *Proceedings of the 21st Conference of Iranian Plant Protection Congress, Urmia, Iran*, 141–143.
- Amini S, Hosseini R, Sohani M (2013) A faunal study of bark beetles (Coleoptera: Curculionidae: Scolytinae) in Guilan province in north of Iran. *Entomofauna* 34: 169–176.
- Audisio P, Alonso Zarazaga M, Ślipiński A, Nilsson A, Jelínek J, Taglianti A, 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, Biondi M, Nikitsky N, Mazzoldi P, Zahradnik, P, Węgrzynowicz P, Constantin R, Gerstmeier R, Zhantiev R, Fattorini S, Tomaszewska W, Rucker W, 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, Trizzino M, Chiari S, Carpaneto G, Sabatelli S, and de Jong Y (2015) *Fauna Europaea: Coleoptera 2* (excl. series Elateriformia, Scarabaeiformia, Staphyliniformia and superfamily Curculionoidea). *Biodiversity Data Journal* 3: 475–570. <https://doi.org/10.3897/bdj.3.e4750>
- Barimani Varandi H, Kalashian M, Barari H (2010) Comparative effectiveness of different trapping techniques for sampling of wood-boring beetles. 238 *Contribution to the knowledge of the jewel beetles (Coleoptera: Buprestidae) fauna of Kurdistan Province of Iran. Part 1. (Coleoptera: Buprestidae and Cerambycidae)*. In: *Proceedings of 19th Iranian Plant Protection Congress, Tehran, Iran*, 478–480.
- Bartolozzi L, Sprecher-Uebersax E (2016) Family Lucanidae Latreille, 1804. In: Löbl I, Löbl D (Eds.) *Catalogue of Palaearctic Coleoptera. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea*. Revised and updated edition. Brill, Leiden, the Netherlands, 63–77.
- Behdad E (1988) *Pests and diseases of forest trees and shrubs of Iran*. Plant Pests and Diseases Research Institute, Tehran, Iran, 807 pp.
- Bellamy CL (2006) *Insecta Coleoptera Buprestidae de Madagascar et des îles voisines, catalogue annoté*. *Insecta Coleoptera Buprestidae of Madagascar and adjacent islands, an annotated catalogue*. Muséum national d'Histoire naturelle, Paris, France / IRD, Marseille, France / Cirad, Versailles, France, 263 pp.
- Bell RT (2008) Family Carabidae Latreille, 1802. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera. Volume 1, Archostemata, Myxophaga, Adephaga*. Apollo Books, Stenstrup, Denmark, 78–143.
- Beaver RA, Ghahari H, Sanguansub S (2016) An annotated checklist of Platypodinae and Scolytinae (Coleoptera: Curculionidae) from Iran. *Zootaxa* 4098: 401–441. <https://doi.org/10.11646/zootaxa.4098.3.1>
- Borumand H (2002) Coleoptera (XXIV): Buprestoidea: fam. (62): Buprestidae. In: *Insects of Iran. The list of Coleoptera in the insect collection of Plant Pests & Diseases Research Institute. Ministry of Agricultural Jihad, Agricultural Research, Education & Extension Organization, Plant Pests & Diseases Research Institute, Insect Taxonomy Research Department, Tehran, Iran*, 63 pp.
- Borumand H (2004) *Insects of Iran. The list of Coleoptera in the Hayk Mirzayans Insect Museum. Buprestidae*. Plant Pests and Diseases Research Institute, Tehran, Iran, 52 pp.
- Borovec R (2013) Family Curculionidae Latreille, 1802. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera. Volume 8, Curculionoidea 2*. Apollo Books, Stenstrup, Denmark, 86–87.
- Borissova YuS (2018) Review of saproxylic beetles in tugai forests of Kazakhstan. *Scientia Agriculturae Bohemica* 49: 105–117. <https://doi.org/10.2478/sab-2018-0016>
- Bunalski M, Samin N, Ghahari H, Hawkeswood T (2014) Contributions to the knowledge of the scarab beetles of Golestan province, northern Iran with checklist of Iranian Scarabaeoidea (Coleoptera). *Polish Journal of Entomology* 83: 141–170. <https://doi.org/10.2478/pjen-2014-0011>
- Buse J, Schroder B, Assmann T (2007) Modelling habitat and spatial distribution of an endangered longhorn beetle—a case study for saproxylic insect conservation. *Biological Conservation* 137: 372–381. <https://doi.org/10.1016/j.biocon.2007.02.025>
- Buse J, Alexander KNA, Ranius T, Assmann T (2009) Saproxylic beetles. Their role and diversity in European woodland and tree habitats. In: *Proceedings of the 5th Symposium and Workshop on the Conservation of Saproxylic Beetles*, Pensoft Publishers, Sofia, Bulgaria, 45–47.



- Cate PC, Sánchez-Ruiz A (2007) Family Elateridae Leach, 1815. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 89–209.
- Cálix M, Alexander KNA, Nieto A, Dodelin B, Soldati F, Telnov D, Vazquez-Albalade X, Aleksandrowicz O, Audisio P, Istrate P, Jansson N, Legakis A, Liberto A, Makris C, Merkl O, Mugerwa Pettersson R, Schlaghamersky J, Bologna MA, Brustel H, Buse J, Novák V, Purchart L. (2018). European Red List of saproxylic beetles. IUCN, Brussels, Belgium. <https://portals.iucn.org/library/node/47296>. Accessed on: 2022-6-3.
- Danilevsky ML (2020) Family Cerambycidae Latreille, 1802. In: Danilevsky ML (Ed) Catalogue of Palaearctic Coleoptera. Volume 6 (1), Chrysomeloidea I (Vesperidae, Disteniidae, Cerambycidae). Revised and updated edition. Brill, Leiden, the Netherlands, 712 pp.
- Diéguez Fernández D (2013) Coleoptera. Familia Ciidae. Algunas citas de ciidos de España. *Arquivos Entomológicos* 8: 103–106.
- Dajoz R (1998) *Ecologie des insectes forestiers*. Gauthier-Villars, Paris, France, 236 pp.
- De Jong Y (2016) Fauna Europaea Consortium. Checklist dataset 2: 11–27.
- Drovalenko AN (2002) New and rare species of beetles (Insecta: Coleoptera) for fauna of Ukraine. *Information 2. Izvestiya Khar'kovskogo Entomologicheskogo Obshchestva* 9: 9–19 [in Russian].
- Drovalenko AN, Ghahari H (2021). An annotated checklist of Ciidae (Coleoptera: Tenebrionoidea) of Iran. *Zootaxa* 4981: 317–330. <https://doi.org/10.11646/zootaxa.4981.2.6>
- Farahbakhsh GH (1961) Checklist of important insects and other enemies of plants and agricultural products in Iran. Iranian Ministry of Agriculture, Tehran, Iran, 153 pp.
- Farashiani ME, Shamohammadi D, Sadeghi SE (2000) Biological study of Sart long horn beetle, *Aeolesthes sarta* Solsky in laboratory. *Journal of Entomological Society of Iran* 20: 77–90.
- Farashiani ME, Sama G, Yarmand H, Tavakoli M, Sadaghian B, Ahmadi SM, Farar N, Aligholizadeh D (2007) Preliminary report of cerambycid fauna associated with forests and rangelands of Iran. *Iranian Journal of Forest and Range Protection Research* 4: 93–102.
- Ghahari H, Bunalski M, Tabari M, Ostovan H (2011) Scarab beetles (Coleoptera: Scarabaeidae) collected in Iranian rice fields and surrounding grasslands. *Polish Journal of Entomology* 80: 465–474. <https://doi.org/10.2478/v10200-011-0034-z>
- Ghahari H, Ostovan H (2017) A checklist of the Histeridae (Coleoptera: Histeroidea) of Iran. *The Coleopterists Bulletin* 71: 595–611. <https://doi.org/10.1649/0010-065X-71.3.595>
- Ghahari H, Colonnelli E (2019) An annotated checklist of the Iranian Anthribidae and Nemomychidae (Coleoptera: Curculionioidea). *Zootaxa* 4: 561–568. <https://doi.org/10.11646/zootaxa.4706.4.5>
- Geisser R (1998) Rote Liste der Käfer (Coleoptera). In: Binot M, Bless R, Boye P, Gruttke H, Pretscher P (Eds.) Rote Liste gefährdeter Tiere Deutschlands, Schriftenreihe für Landschaftspflege und Naturschutz. Vol. 55. Bundesamt für Naturschutz, Bonn/Bad Godesberg, Germany, 168–230.
- Götmark F, Kiffer C (2014) Regeneration of oaks (*Quercus robur*/*Q. petraea*) and three other tree species during long-term succession after catastrophic disturbance (windthrow). *Plant Ecology* 215: 1067–1080. <https://doi.org/10.1007/s11258-014-0365-4>
- Gossner MM, Lachat T, Brunet J, Isacson G, Bouget C, Brustel H (2013) Current near-to-nature forest management effects on functional trait composition of saproxylic beetles in beech forests. *Conservation Biology* 27: 605–614. <https://doi.org/10.1111/cobi.12023>
- Gossner MM, Wende B, Levick S, Schall P, Floren A, Linsenmair KE, Steffan-Dewenter I, Schulze ED, Weisser W (2016) Deadwood enrichment in European forests—which tree species should be used to promote saproxylic beetle diversity? *Biological Conservation* 201: 92–102. <https://doi.org/10.1016/j.biocon.2016.06.032>
- Ghredjyan T, Kalashian M (2015) On the finding of longhorn beetle *Parandra caspia* (Coleoptera: Cerambycidae) in Nagorno-Karabakh. *Humanity Space International Almanac* 4: 1090–1093.
- Halstead DGH, Löbl I, Jelínek J (2007) Family Silvanidae Kirby, 1837. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 496–500.
- Háva J, Herrmann A, Pushkin SV (2014) Contribution to the knowledge of the Dermestidae (Coleoptera) from the Chechen Republic (Russia). *Arquivos Entomológicos* 10: 21–24.
- Háva J (2007) Family Derodontidae LeConte, 1861. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 367–383.
- Haghverdi K, Kiadaliri H, Hoseini M S, Kazemnezad F, Bayramzadeh H (2013) Comparison of frequency and diversity insects' inn different beech deadwood decay grade. Different in insects of diversity and case study (District 5 and 7, Compartement 3 Watershed Management Region 46, grade decay deadwood beech, 7 and 5 district: 46, Kojoor). *Iranian Natural Ecosystems* 3: 39–47 [in Persian].
- Holzschuh C (1977) Ergebnisse der Bhutan-Expedition 1972 des Naturhistorischen Museums in Basel Coleoptera: Fam. Cerambycidae. *Entomologica Basiliensa* 2: 337–341.
- Horak J (2020) Family Scaptiidae Mulsant, 1856. In: Iwan D, Löbl I (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Revised and updated edition. Brill, Leiden, Denmark, 241–257.
- Huber C, Marggi W, Löbl I (2017) Family Rhysodidae Laporte, 1840. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 1, Archostemata – Myxophaga – Adephaga. Revised and updated edition. Brill, Leiden, the Netherlands, 29–31.
- Jalili A, Jamzad Z (1999) Red data book of Iran: a preliminary survey of endemic, rare and endangered plant species in Iran. Research Institute of Forests and Rangelands, Tehran, Iran, 748 pp.
- Jansson N, Coskun M (2008) How similar is the saproxylic beetle fauna on old oaks (*Quercus* spp.) in Turkey and Sweden? *Revue d'Écologie, Terre et Vie, Société nationale de protection de la nature*, 2008, Supplement 10: 91–99.
- Jendek E (2016) New nomenclatorial and taxonomic acts, and comments. Buprestidae: Agrilus. p. 60. Catalogue. Buprestidae: Agrilinae: Agrilini: Agrilina: Agrilus. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 388–403.
- Jelínek J (2020) Family Ciidae Leach, 1819. In: Iwan D, Löbl I (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 155–162.
- Johnson C, Otero JC, Leschen R (2007) Cryptophagidae Kirby, 1837. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea, Derontoidea, Bostrichoidea, Lymexyloidea, Cleroidea, Cucujoidea. Apollo Books, Stenstrup, Denmark, 513–531.
- Johnson C (2007) Family Latridiidae Erichson, 1842. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 635–648.
- Konvicka O (2012) Notes on the distribution of beetles of the families Melandryidae and Tetratomidae in the Western Palaearctic region. *Klapalekiana* 48: 203–206.
- Kovalev A (2016) Two new species of *Microrhagus* from the Russian Far East with notes on some Palaearctic Dirhagini (Coleoptera: Eucnemidae). *Zoosystematica Rossica* 25: 277–290. <https://doi.org/10.31610/zsr/2016.25.2.277>
- Knížek M (2011) Family Curculionidae Latreille, 1802. In: Löbl I,

- Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 7, Curculionioidea I. Apollo Books, Stenstrup, Denmark, 86–87.
- Kubáň V (2006) Chrysochroinae (without Paratassini and Sphenopterini). Buprestinae (without Anthaxiini). Agrilinae (without Aphanisticina and genus *Agrilus*). In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Apollo Books, Stenstrup, Denmark, 342–352, 369, 381–388, 403–404, 406–421.
- Kubáň V (2016) Family Buprestidae Leach, 1815. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 560–596.
- Lasson A, Ghahari H (2013) A checklist of the Kateretidae and Nitidulidae of Iran (Coleoptera: Cucujoidea). Zootaxa 3746: 101–122. <https://doi.org/10.11646/zootaxa.3746.1.4>
- Lawrence JF (1991) Three new Asiatic Ciidae (Coleoptera: Tenebrionoidea) associated with commercial, dried fungi; Coleopterists Bulletin 45: 286–292.
- Lackner T, Mazur S, Newton AF (2015) Family Histeridae Gyllenhal, 1808. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 2, Hydrophiloidea – Staphylinioidea, part 1. Revised and updated edition. Brill, Leiden, the Netherlands, 76–130.
- Leseigneur L (2008) Family Throscidae Laporte, 1840. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 367–383.
- Löbl I, Rolčik J, Kolibáč J, Gerstmeier R (2007) Family Cleridae Latreille, 1802. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 367–383.
- Löbl I, Merkl O (2008) Family Tenebrionidae Latreille, 1802. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Apollo Books, Stenstrup, Denmark, 458–615.
- Lohse GA, Reibnitz J (1991) *Cis multidentatus* (Pic), ein unbeachteter Vorratsschädling (Coleoptera, Cisidae). Acta Coleopterologica 7: 103–105.
- Lopes-Andrade C (2008) The first record of *Cis chinensis* Lawrence from Brazil, with the delimitation of the *Cis multidentatus* species-group (Coleoptera: Ciidae). Zootaxa 17: 35–46. <https://doi.org/10.11646/zootaxa.1755.1.2>
- Lyubarsky GL, Ghahari H (2020) Annotated Checklist of the Iranian Erotylidae (Coleoptera: Cucujoidea), Entomological News 129: 244–256. <https://doi.org/10.3157/021.129.0303>
- Ljubarsky GY (2002) Cryptophaginae (Coleoptera: Cucujoidea: Cryptophagidae): diagnostics, arealogy, ecology. Moscow University Publisher, Moscow, Russia, 421 pp.
- Mayor A (2007) Family Merlyridae Leach, 1815. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 386–387.
- Mazur S (2015) Family Histeridae Gyllenhal, 1808. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 1, Hydrophiloidea, Hysteroidae, Staphylinoidae. Revised and updated edition. Brill, Leiden, the Netherlands, 76–130.
- Mertlik J, Platia G (2008) Catalogue of the family Cebriionidae, Elateridae, Lissomidae, Melasidae and Throscidae (Coleoptera) from Turkey. Elateridarium 2: 1–40.
- Modarres Awal M (1997) List of agricultural pest and their natural enemies in Iran (revised edition). Ferdowsi University Press, Mashhad, Iran, 429 pp.
- Micó E, Juárez M, Sánchez A, Galante E (2011) Action of the saproxylic scarab larva *Cetonia aurataeformis* (Coleoptera: Scarabaeoidea: Cetoniidae) on woody substrates. Journal of Natural History 45: 2527–2542. <https://doi.org/10.1080/00222933.2011.596953>
- Miklín J, Sebek P, Hauck D, Konvicka O, Cizek L (2018) Past levels of canopy closure affect the occurrence of veteran trees and flagship saproxylic beetles. Diversity Distribution 24: 208–218. <https://doi.org/10.1111/ddi.12670>
- Mouna J (2007) Family Eucnemidae Eschscholtz, 1829. In: Löbl I, Smetana A (Eds.) Catalogue of Palaearctic Coleoptera. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 81–85.
- Müller J, Thorn S, Baier R, Sagheb-Talebi Kh, Barimani H, Seibold S, Ulyshen M, Gossner, M (2016) Protecting the forests while allowing removal of damaged trees may imperil saproxylic insect biodiversity in the Hyrcanian beech forests of Iran. Conservation Letter 9:106–113. <https://doi.org/10.1111/conl.12187>
- Müller J, Barimani Varandi H, Babaii M R, Farashiani M E, Sageb-Talebi K, Lange F, Seibold S (2018) The diversity of saproxylic insects (Coleoptera, Heteroptera) on four tree species of the Hyrcanian forest in Iran. Journal of Insect Conservation 22: 607–625. <https://doi.org/10.1007/s10841-018-0089-1>
- Nardi G (2020) Family Aderidae Winkler, 1927. In: Iwan D, Löbl I (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 816–822.
- Nikitsky NB (2020) Family Mycetophagidae Leach, 1815. In: Iwan D, Löbl I (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 51–55.
- Nikitsky NB, Pollock A (2020) Family Melandryidae Leach, 1815. In: Iwan D, Löbl I (Eds.) Catalogue of Palaearctic Coleoptera. Volume 5, Tenebrionoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 116–118.
- Novak, V (2011) *Gonodera gilanica* n. sp. (Coleoptera: Tenebrionidae: Alleculinae: Gonoderini) from Iran. Stuttgarter Beitrage zur Naturkunde A, Neue Serie 4: 185–190.
- Obenberger J (1934) Buprestidae 3. In: Junk W, Schenkling S (Eds.) Coleopterorum catalogus. Vol. 12. Pars. 132. W. Junk, Berlin, Germany, 569–781.
- Otero JC, Ghahari H, Angelini F (2017) Contribution to the knowledge of cryptophagids (Coleoptera: Cryptophagidae) from Iran. Redia 100: 45–51.
- Platia G (2005) Family Elateridae Leach, 1815. In: Ruffo S, Stoch F (Eds.) Checklist e distribuzione della fauna italiana. Memorie del Museo Civico di Storia Naturale di Verona 16: 201–203.
- Pedroni G, Platia G (2010) Il popolamento a Coleotteri Elateridi dell'Albania (Coleoptera, Elateridae). Bollettino del Museo Civico di Storia Naturale di Verona, Botanica Zoologia 34: 65–86.
- Perreau M (2015) Family Leioididae Fleming, 1821. In: Löbl I, Löbl D (Eds.) Catalogue of Palaearctic Coleoptera. Volume 2, Hydrophiloidea – Staphylinioidea. Revised and updated edition, Brill, Leiden, the Netherlands, 180–290.
- Park S, Smith SM, Cognato AI, Beaver RA (2020) Catalogue of Korean xyleborine ambrosia beetles (Coleoptera: Curculionidae) with seven new species. Journal of Asia-Pacific Biodiversity 13: 210–228. <https://doi.org/10.1016/j.japb.2020.01.002>
- Radjab G H (1991) Coleoptera. Insects attacking rosaceous fruit trees in Iran. Iranian Ministry of Agriculture, Tehran, Iran: 1–221.
- Rabaglia R, Smith S, Rugman-Jones, P, Digirolomo, M, Ewing C, Eskalen A (2020) Establishment of a non-native xyleborine ambrosia beetle, *Xyleborus monographus* (Fabricius) (Coleoptera: Curculionidae: Scolytinae), new to North America in California. Zootaxa 4786: 269–276. <https://doi.org/10.11646/zootaxa.4786.2.8>
- Reibnitz J, Graf R, Coray A (2013) Checklist of the Ciidae (Coleoptera) of Switzerland, with comments on nomenclature and ecology. Bulletin de la Société Entomologique Suisse 86: 63–88.
- Reibnitz J, Kunz W (2011) *Cis chinensis* Lawrence, 1991 – neu für Baden-Württemberg (Col., Ciidae). Mitteilungen Entomologischer Verein Stuttgart 46: 45–85.
- Rose O (2009) *Cis chinensis* Lawrence, 1991 nouveau pour la faune de

- France métropolitaine et celle de l'île de la Réunion (Coleoptera, Tenebrionidae, Ciidae). *L'Entomologiste* 65: 281–284.
- Samin N, Bunalski M, Kubisz D, Háva J, Navaeian M, Otero JC, Hawkeswood TJ, Zhou H, Sakenin H, Jędrzycki WB (2018) Contributions to the knowledge of the distribution of select Coleoptera families from Iran. *Wiadomości Entomologiczne* 37: 197–209.
- Santos-Silva A (2002) Notas e descrições em Parandrinae (Coleoptera, Cerambycidae, Parandrinae). *Iheringia, Série Zoologia* 92: 29–52. <https://doi.org/10.1590/S0073-47212002000200004>
- Sagheb-Talebi K (2014) Appropriate characteristics of beech stands for application of close to nature silviculture (selection system) of Hyrcanian region (Guilan, Mazandaran and Golestan provinces). In: Final report of the national project no. 04–09-09-87033. Research Institute of Forests and Rangelands, Tehran, Iran, 86–112.
- Sagheb-Talebi K, Sajedi T, Pourhashemi M (2014) Forests of Iran: a treasure from the past, a hope for the future. *Plant and vegetation* 10. Springer, Dordrecht, the Netherlands, 152 pp. <https://doi.org/10.1007/978-94-007-7371-4>
- Schawaller W (2020) Family Prostmididae Thomson, 1859. In: Iwan D, Löbl I (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 5, Tenebrionidae. Revised and updated edition. Brill, Leiden, the Netherlands, 52–354.
- Seibold S, Thorn S (2018) The importance of dead-wood amount for saproxylic insects and how it interacts with dead-wood diversity and other habitat factors. In: Ulyshen MD (Ed.) *Saproxylic insects: diversity, ecology and conservation*. Springer, Cham, Switzerland, 607–637. [https://doi.org/10.1007/978-3-319-75937-1\\_18](https://doi.org/10.1007/978-3-319-75937-1_18)
- Semanta A (2004) Family Staphylinidae Lameere, 1900. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 2, Staphylinidae. Apollo Books, Stenstrup, Denmark, 237–487.
- Shugran AHM, Augul RS, Al-Khesraji TO (2018) List of insects associated with macrofungi in Tikrit city, Salahadin governorate, Iraq. *Bulletin of Iraq Natural History Museum* 15: 41–55. <https://doi.org/10.26842/binhm.7.2018.15.1.0041>
- Shockley FW (2007) *Stenotarsus nigrivestis*, a new species of Endomychidae (Coleoptera: Cucujoidea) from the Dominican Republic. *The Coleopterists Bulletin* 61: 479–486. [https://doi.org/10.1649/0010-065X\(2007\)61](https://doi.org/10.1649/0010-065X(2007)61)
- Ślipiński A (2007) Family Cerylonidae Billberg, 1820. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 552–554.
- Ślipiński S A, Schuh R (2008) Family Zopheridae Solier, 1834. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 5, Tenebrionidae. Apollo book, Stenstrup, Denmark, 78–86.
- Stokland J, Siitonen J, Jonsson BG (2012) *Biodiversity in dead wood*. Cambridge University Press, Cambridge, UK, 114–128. <https://doi.org/10.1017/cbo9781139025843>
- Thomas MC (2013) A review of New World *Laemophloeus* Dejean (Coleoptera: Laemophloeidae): 1. Species with antennal club of more than three antennomeres. *Insecta Mundi* 294: 1–23.
- Tamutis V, Tamutė B, Ferenca R (2011) A catalogue of Lithuanian beetles (Insecta, Coleoptera). *ZooKeys* 121: 1–494. <https://doi.org/10.3897/zookeys.121.732>
- Tihelka E (2016) First record of *Opilo germanus* Chevrolat, 1843 (Coleoptera: Cleridae) from Italy with remarks on its distribution in Europe. *Natura Sloveniae* 18: 63–68.
- Tomaszewska WK (2007) Family Alexiidae Stephens, 1832. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 89–209.
- Vit S (2016) Family Eucinetidae Lacordaire, 1857. In: Löbl I, Löbl D (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Revised and updated edition. Brill, Leiden, the Netherlands, 762–798.
- Volkovitsh MG (1986) Review of the buprestid tribe Acmaeoderini (Coleoptera, Buprestidae) of the fauna of the USSR and adjacent countries. In: Kirejtshuk AG (Ed) *Morfologiya, sistematika i faunistika maloizuchennykh grupp nasekomykh*, Trudy Zoologicheskogo Instituta, Akademiya Nauk SSSR 140: 16–43 [In Russian].
- Volkovitsh MG (2006) New nomenclatorial and taxonomic acts, and comments. Buprestidae: Polycestinae and Buprestinae. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Apollo Books, Stenstrup, Denmark, 330–342.
- Ulyshen MD (2012) Strengthening the case for saproxylic arthropod conservation: a call for ecosystem services research. *Insect Conservation Diversity* 6: 393–395. <https://doi.org/10.1111/j.1752-4598.2012.00220.x>
- Wermelinger B, Duelli P, Obrist MK (2002) Dynamics of saproxylic beetles (Coleoptera) in windthrow areas in alpine spruce forests. *Forest Snow and Landscape Research* 77: 133–148.
- Węgrzynowicz P (2015) Catalogue of Biphyllidae (Coleoptera) of the World. *Annales Zoogici* 65: 409–471. <https://doi.org/10.3161/00034541anz2015.65.3.002>
- Węgrzynowicz P (2007) Family Cucujidae Latreille, 1802. In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 502–503.
- Zahradník P (2007) Family Ptinidae Latreille, 1802 (without Gibbiinae and Ptininae). In: Löbl I, Smetana A (Eds.) *Catalogue of Palaearctic Coleoptera*. Volume 4, Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, Denmark, 339–362.