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A REVIEW OF THE «*ONESIA*» GENERIC GROUP (DIPTERA: CALLIPHORIDAE). PART 2. THE SPECIES OF GENUS *BELLARDIA* ROBINEAU-DESVOIDY

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An annotated list of 62 species of the genus *Bellardia* is given. *B. saur* sp. n. is described from East Kazakhstan. Twenty two new combinations are proposed: *Bellardia apouna* (Kurahashi, 1982), **comb. n.**, *B. brunnipes* (James et Kurahashi, 1976), **comb. n.**, *B. fijiensis* (Kurahashi, 1981), **comb. n.**, *B. plebeja* (Malloch, 1927), **comb. n.**, *B. flavisquama* (Kurahashi, 1992), **comb. n.**, *B. fumicosta* (Kurahashi, 1987), **comb. n.**, *B. giluwea* (Kurahashi, 1987), **comb. n.**, *B. giri* (Kurahashi et Thapa, 1994), **comb. n.**, *B. gonidecoides* (Kurahashi, 1982), **comb. n.**, *B. higae* (Kurahashi, 1987), **comb. n.**, *B. indersinghi* (Kurahashi, Benjaphong et Omar, 1997), **comb. n.**, *B. khasiensis* (Senior-White, 1923), **comb. n.**, *B. kiyoshii* (Kurahashi et Afzal, 2002), **comb. nov.**, *B. nakatae* (Kurahashi, 1987), **comb. n.**, *B. nigra* (Kurahashi, 1987), **comb. n.**, *B. niuginii* (Kurahashi, 1987), **comb. n.**, *B. plebeja* (Malloch, 1927), **comb. n.**, *B. pubescens* (Macquart, 1851), **comb. n.**, *B. santamaria* (Kurahashi, 1982), **comb. n.**, *B. spatuliforceps* (Kurahashi, 1987), **comb. n.**, *B. steffani* (Kurahashi, 1987), **comb. n.**, *B. tariensis* (Kurahashi, 1987), **comb. n.** Four species (*B. bayeri*, *B. pandia*, *B. stricta*, *B. viarum*) firstly recorded for Estonia, 3 (*B. polita*, *B. stricta*, *B. viarum*) – for Lithuania, one (*B. stricta*) – for Latvia, 3 (*B. pandia*, *B. stricta*, *B. viarum*) – for Belarus', one (*B. polita*) – for Ukraine and one (*B. pandia*) – for Georgia.

KEY WORDS: Calliphoridae, *Bellardia*, taxonomy, distribution, ecology.

Ю. Г. Вервес. Обзор группы родов «*Onesia*» (Diptera: Calliphoridae).
Часть 2. Виды рода *Bellardia* Robineau-Desvoidy // Дальневосточный энто-
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Приведен аннотированный список 62 видов рода *Bellardia*. Из Восточного Казахстана описан *B. saur* Verves, **sp. n.** Установлены 22 новые комбинации: *Bellardia apouna* (Kurahashi, 1982), **comb. n.**, *B. brunnipes* (James et Kurahashi, 1976), **comb. n.**, *B. fijiensis* (Kurahashi, 1981), **comb. n.**, *B. plebeja* (Malloch, 1927), **comb. n.**, *B. flavisquama* (Kurahashi, 1992), **comb. n.**, *B. fumicosta* (Kurahashi, 1987), **comb. n.**, *B. gilwea* (Kurahashi, 1987), **comb. n.**, *B. girii* (Kurahashi et Thapa, 1994), **comb. n.**, *B. gonidecoides* (Kurahashi, 1982), **comb. n.**, *B. higae* (Kurahashi, 1987), **comb. n.**, *B. indersinghi* (Kurahashi, Benjaphong et Omar, 1997), **comb. n.**, *B. khasiensis* (Senior-White, 1923), **comb. n.**, *B. kiyoshii* (Kurahashi et Afzal, 2002), **comb. nov.**, *B. nakatae* (Kurahashi, 1987), **comb. n.**, *B. nigra* (Kurahashi, 1987), **comb. n.**, *B. niuginii* (Kurahashi, 1987), **comb. n.**, *B. plebeja* (Malloch, 1927), **comb. n.**, *B. pubescens* (Macquart, 1851), **comb. n.**, *B. santamaria* (Kurahashi, 1982), **comb. n.**, *B. spatuliforceps* (Kurahashi, 1987), **comb. n.**, *B. steffani* (Kurahashi, 1987), **comb. n.**, *B. tariensis* (Kurahashi, 1987), **comb. n.** Четыре вида (*B. bayeri*, *B. pandia*, *B. stricta*, *B. viarum*) указаны впервые для фауны Эстонии, 3 (*B. polita*, *B. stricta*, *B. viarum*) – для Литвы, один (*B. stricta*) – для Латвии, 3 (*B. pandia*, *B. stricta*, *B. viarum*) – для Беларуси, один (*B. polita*) – для Украины и один (*B. pandia*) – для Грузии.

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INTRODUCTION

Genera *Bellardia* Robineau-Desvoidy, 1863, *Onesia* Robineau-Desvoidy, 1830, *Polleniopsis* Townsend, 1917, *Tainanina* Villeneuve, 1927 and *Tricycleopsis* Villeneuve, 1927 belong to *Onesia*-group of the tribe Calliphorini (Kurahashi, 1972; Schumann, 1973; Verves, 2004).

The species of *Bellardia* are widely distributed in the Palaearctic, Oriental and Australasian/Oceanian regions; two species introduced into USA (Hall, 1948, 1965; Rognes, 1991; Shewell, 1987). In spite of several revisions and reviews of the Palaearctic and Oriental fauna (Chen, 1979; Chen et al., 1992; Emden, 1954; Fan, 1992; Fan et al., 1997; González-Mora, 1989; Lehrer, 1972; Rognes, 1991, 2002a, b; Mihályi, 1979; Schumann, 1973, 1974; Séguy, 1928, 1941; Xue & Chao, 1996; Zumpt, 1956) some authors mixed species of *Bellardia* with *Melinda* Robineau-Desvoidy, 1830 (Grunin, 1970a, b; Kano & Shinonaga, 1968; Kurahashi, 1964, 1970, 1993, 1999; Zumpt, 1956, etc.) or *Onesia* Robineau-Desvoidy, 1830 (James & Kurahashi, 1976; Kurahashi, 1981, 1982, 1984, 1987, 1989, 1992, 2003; Kurahashi & Afzal, 2002; Kurahashi et al., 1997; Kurahashi & Chowanadisai, 2001; Kurahashi & Thapa, 1994), especially in Oriental and Australasian/Oceanian regions. The main purpose of current paper is an annotated list of the species of genus *Bellardia* with distribution and habits data. The distribution data are given according catalogues (James, 1977; Kurahashi, 1989; Schumann, 1986) and recent papers (Artamonov, 1995, 1996, 1997; Čepelák, 1986; Draber-Moňko, 1991; Gregor & Rozkošný, 1997;

Gudjabidze, 2000; Kano et al., 1999; Kurahashi & Banu, 1989; Kurahashi & Fauran, 1980; Kurahashi & Magpayo, 2000; Papp, 2001; Rognes, 1997, 1998 a, b; Martínez-Sánchez et al., 1998, 2001; Sing et al., 1979; Skufin & Khitsova, 1978; Stackelberg, 1962; Tumrasvin et al., 1979; Verves, 2001, 2002; Xue & Chao, 1996).

New faunistic data are based on materials from Zoological Institute, Russian Academy of Sciences, St. Petersburg (ZIN); Institute of Zoology and Botany, Estonian Academy of Sciences, Tartu (IZBE), Laboratory of Zoology and Ecology, Biological Faculty of Kiev National Taras Shevchenko University (LZSKU). New records are asterisked (*).

Genus *Bellardia* Robineau-Desvoidy, 1863

Bellardia Robineau-Desvoidy, 1863: 548. Type species: *Bellardia ventralis* Robineau-Desvoidy, 1863 [= *Tachina obsoleta* Meigen, 1824], by monotypy.

Maravigna Lioy, 1864: 891. Type species: *Onesia clausa* Macquart, 1835 [= *Tachina obsoleta* Meigen, 1824], by monotypy. Synonymized by Schumann, 1974: 231.

Pseudonesia Villeneuve, 1920: 296. Type species: *Musca puberula* Zetterstedt, 1838 [= *Tachina pubicornis* Zetterstedt, 1838], by monotypy. Synonymized by Rognes, 1991: 34.

Ambodicria Enderlein, 1933: 124. Type species: *Onesia polita* Mik, 1884, by original designation. Synonymized by Schumann, 1974: 231.

Miaspia Enderlein, 1933: 125. Type species: *Miaspia latigena* Enderlein, 1933 [= *Onesia brevistylata* Villeneuve, 1926], by original designation. Synonymized by Schumann, 1974: 231.

Melindopsis Kurahashi, 1964b: 484 (as subgenus of the genus *Polleniopsis* Townsend, 1917). Type species: *Polleniopsis menechma* Séguy, 1934, by original designation. Synonymized by Rognes, 1991: 34.

Feideria Lehrer, 1970: 15. Type species: *Polleniopsis menechma* Séguy, 1934, by original designation. Synonymized by Rognes, 1991: 34.

Melinda: (not Robineau-Desvoidy, 1830): Zumpt, 1956; Grunin, 1970a, b.

DIAGNOSIS. Medium-sized or small flies (3.0-11.0 mm) with black thorax and green, bronze or blue metallic abdomen with more or less developed light pollination. Frons in males very narrow; first flagellomere about 2x as long as pedicel; *ac* 1-3 + 2-3, *dc* 2-3 + 3, *ia* 0-1 + 2; lower calypter white or slightly greyish; basicosta brown to black; *r*₅ usually open, sometimes closed at wing margin; costa setulose below to junction with *Sc*. Paraphallus forming massive apical hook.

SPECIES INCLUDED. The majority of the 62 known species are Palaearctic (32), 7 species discovered from Oriental, and 16 – from Australasian/Oceanian regions; 3 species (*B. menechma*, *B. menechmoides*, *B. notomenechma*) are common for Palaearctic and Oriental regions, one species (*B. pubescens*) – for Oriental and Australasian/Oceanian regions, two Palaearctic species (*B. bayeri* and *B. vulgaris*) introduced into Nearctic region.

NOTES. All species are viviparous. Larvae are parasites or predators of the earthworms (Keilin, 1915, 1919; Lobanov, 1971; Rognes, 1991; Veselkin, 1977).

The differences between genera *Bellardia* and *Onesia* are not clear. K. Rognes (1991: 36) wrote about *Bellardia*: "The generic limits are poorly understood. The Australian *Onesia accepta* (Malloch) appears to belong to *Bellardia*, to judge from the male genitalia figured by Malloch (1927). ... The "*Onesia*" species recorded by James and Kurahashi from the Bismarck Island also appear to belong to *Bellardia*". According this comment, I put in the genus *Bellardia* all "*Onesia*" species with 2 pairs of postsutural intraalar setae and well developed massive apical hook of paraphallus (species of the genus *Onesia* have 3 pairs of postsutural intraalar setae and poorly developed apical hook of paraphallus).

List of species

***Bellardia accepta* (Malloch, 1927)**

Calliphora accepta Malloch, 1927: 316.

Onesia accepta: Kurahashi, 1989: 706.

Bellardia accepta: Rognes, 1991: 36.

DISTRIBUTION. Australasian/Oceanian: Australia: New South Wales.

***Bellardia apouna* (Kurahashi, 1982), comb. n.**

Onesia apouna Kurahashi, 1982: 237; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Vanuatu: Espiritu, Santo.

***Bellardia bayeri* (Jacentkovský, 1937)**

Onesia bayeri Jacentkovský, 1937: 6, 20, 49.

Melinda bayeri: Zumpt, 1956: 31.

Bellardia bayeri: Schumann, 1973: 342; 1974: 247; Mihályi, 1979: 20; Schumann, 1986: 13; Rognes, 1991: 44; 1997: 63; Gregor & Rozkošný, 1997: 96; Papp, 2001: 420.

Onesia townsendi Hall, 1948: 324; 1965: 930. Synonymized by Rognes, 1991: 44.

Bellardia osetica Khitzova, 1979: 1245. Synonymized by Rognes, 1991: 44.

Melinda pusilla (not Meigen, 1826): Lehrer, 1972: 117. (Misidentification).

Melinda pruinosa (not Enderlein, 1933): Grunin, 1970a: 611. (Misidentification).

Bellardia pruinosa (not Enderlein, 1933): Lobanov, 1976: 25; Skufin & Khitsova, 1978: 88. (Misidentification).

Bellardia obsoleta (not Meigen, 1824): Veselkin, 1977: 12; Artamonov, 1997: 1; Verves, 2002: 3. (Misidentification).

MATERIAL. Estonia: Nonby, 27.VI 1979, 1 ♂ (K. Elberg) (IZBE).

HABITS. Larvae bred from earthworms Lumbricidae gen. et sp. (Veselkin, 1977), *Eisenia* sp. (Grunin, 1970b), *E. foetida* (Rognes, 1991).

DISTRIBUTION. Nearctic: USA: Massachusetts; Palaearctic: Armenia; Azerbaijan; Bulgaria; Czech Republic; Denmark; Estonia*; Germany; Hungary; Switzerland; Norway; Poland; Romania; Slovakia; Ukraine; Russia: Voronezh region, Karachaevo-Cherkessia, North Osetia, Tyumen' region, Amur region, Primorye.

***Bellardia benshiensis* Hsue, 1979**

Bellardia benshiensis Hsue [=Xue], 1979: 193; Schumann, 1986: 13; Fan, 1992: 492; Fan et al., 1997: 312, 638.

DISTRIBUTION. Palaearctic: China: Liaoning.

***Bellardia brevistylata* (Villeneuve, 1926)**

Onesia brevistylata Villeneuve, 1926: 132; Séguy, 1941: 34.

Melinda brevistylata: Zumpt, 1956: 32; Lehrer, 1970: 14.

Bellardia brevistylata: Schumann, 1973: 342; 1974: 253; 1986: 13; González-Mora, 1989: 49; Martínez-Sánchez et al., 1998: 179.

Miaspia latigena Enderlein, 1933: 126. Synonymized by Zumpt, 1956: 32.

DISTRIBUTION. Palaearctic: Italy: Sicily; Spain.

***Bellardia brunnipes* (James et Kurahashi, 1976), comb. n.**

Onesia brunnipes James & Kurahashi, 1976: 20; Kurahashi, 1987a: 32; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: Bismarck Archipelago (Mussau, New Britain, New Ireland, Umboi).

***Bellardia chosenensis* Chen, 1979**

Bellardia chosenensis Chen, 1979: 388, 391; Schumann, 1986: 13; Fan, 1992: 496; Fan et al., 1997: 321, 640;

Onesia chosenensis: Kurahashi, 1986: 430; Kurahashi & Okawa, 1987: 48.

DISTRIBUTION. Palaearctic: Japan: Honshu, Tsushima; Korea.

***Bellardia corsicana* (Villeneuve, 1911)**

Onesia corsicana Villeneuve, 1911: 129.

Melinda corsicana: Zumpt, 1956: 33.

Bellardia corsicana: Schumann, 1973: 342; 1974: 255; 1986: 13.

DISTRIBUTION. Palaearctic: France: Corsica.

***Bellardia curviloba* Liang et Gan, 1986**

Bellardia curviloba Liang & Gan, 1986: 369, 374; Fan, 1992: 493; Fan et al., 1997: 317, 639.

DISTRIBUTION. Oriental: China: Yunnan.

***Bellardia dolichodicra* Chen, Fan et Gui, 1983**

Bellardia dolichodicra Chen et al., 1983: 231; Fan, 1992: 495; Fan et al., 1997: 320, 639.

DISTRIBUTION. Palaearctic: China: Heilongjiang.

***Bellardia fijiensis* (Kurahashi, 1981), comb. n.**

Onesia fijiensis Kurahashi, 1981: 437; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Fiji.

***Bellardia flavisquama* (Kurahashi, 1992), comb. n.**

Onesia flavisquama Kurahashi, 1992: 582; Kurahashi & Thapa, 1994: 196.

DISTRIBUTION. Oriental: Nepal.

***Bellardia fumicosta* (Kurahashi, 1987), comb. n.**

Onesia fumicosta Kurahashi, 1987a: 32; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Indonesia: Irian Jaya; New Caledonia; Papua New Guinea: Bismarck Archipelago (Mussau, New Britain, New Ireland), New Guinea.

***Bellardia giluwea* (Kurahashi, 1987), comb. n.**

Onesia giluwea Kurahashi, 1987a: 35; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia girii* (Kurahashi et Thapa, 1994), comb. n.**

Onesia girii Kurahashi & Thapa, 1994: 196.

DISTRIBUTION. Oriental: Nepal.

***Bellardia gonidecoides* (Kurahashi, 1982), comb. n.**

Onesia gonidecoides Kurahashi, 1982: 239; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Vanuatu: Espiritu Santo.

***Bellardia grunini* Schumann, 1974**

Bellardia grunini Schumann, 1974: 257. 1986: 13; 1986: 13.

Melinda siciliensis (not Villeneuve, 1926): Grunin, 1970a: 613. (Misidentification).

DISTRIBUTION. Palearctic: Russia: Orenburg region, Tatarstan, Ural, North Caucasus, Eastern Sayan; Ukraine.

***Bellardia heilongjiangensis* Chen, Cui et Zhang, 1997**

Bellardia heilongjiangensis Fan et al., 1997: 320, 639.

DISTRIBUTION. Palearctic: China: Heilongjiang.

***Bellardia higae* (Kurahashi, 1987), comb. n.**

Onesia higae Kurahashi, 1987a: 24; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia andersinghi* (Kurahashi, Benjaphong et Omar, 1997), comb. n.**

Onesia andersinghi Kurahashi et al., 1997: 19.

DISTRIBUTION. Oriental: Malaysia: Sabah.

***Bellardia khasiensis* (Senior-White, 1923), comb. n.**

Nitella khasiensis Senior-White, 1923: 49.

Pollenia khasiensis: Senior-White et al., 1940: 119; James, 1977: 539.

Onesia (*Melindopsis*) *khasiensis*: Kurahashi & Banu, 1989: 99.

DISTRIBUTION. Oriental: Bangladesh; India: Assam.

***Bellardia kiyoshii* (Kurahashi et Afzal, 2002), comb. n.**

Onesia kiyoshii Kurahashi & Afzal, 2002: 226.

DISTRIBUTION. Oriental: Pakistan.

***Bellardia kisha* (Grunin, 1970)**

Melinda kisha Grunin, 1970b: 478.

Bellardia kisha: Schumann, 1973: 342; 1974: 259; 1986: 13.

DISTRIBUTION. Palaearctic: Georgia; Russia: Dagestan.

***Bellardia liaoningensis* Hsue, 1979, stat. n.**

Bellardia bayeri liaoningensis Hsue [=Xue], 1979: 193; Schumann, 1986: 13; Fan, 1992: 493; Fan et al., 1997: 316, 639.

DISTRIBUTION. Palaearctic: China: Liaoning.

***Bellardia longistricta* Fan et Quian, 1997**

Bellardia longistricta Fan et al., 1997: 315, 639.

DISTRIBUTION. Palaearctic: China: Xinjiang.

***Bellardia maroccana* (Villeneuve, 1941)**

Onesia maroccana Villeneuve, 1941: 123.

Melinda maroccana: Zumpt, 1956: 34.

Bellardia maroccana: Schumann, 1973: 342; 1974: 260; 1986: 13.

DISTRIBUTION. Palaearctic: Morocco.

***Bellardia mascariensis* (Villeneuve, 1926)**

Onesia mascariensis Villeneuve, 1926: 133; Séguy, 1941: 34.

Melinda mascariensis: Zumpt, 1956: 34.

Bellardia mascariensis: Schumann, 1973: 342; 1974: 262; 1986: 13.

DISTRIBUTION. Palaearctic: Algeria; Morocco.

***Bellardia menechma* (Séguy, 1934)**

Polleniopsis menechma Séguy, 1934: 10; Zumpt, 1956: 64;

Polleniopsis (Melindopsis) menechma: Kurahashi, 1964b: 484; Schumann, 1986: 36.

Onesia menechma: Kurahashi, 1987b: 52.

Bellardia menechma: Fan, 1992: 499; Fan et al., 1997: 328, 640.

DISTRIBUTION. Palaearctic: China: Beijing, Gansu, Henan, Hubei, Jiangsu, Shanghai, Sichuan; Japan. Oriental: China: Hunan; Taiwan.

***Bellardia menechmoides* Chen, 1979**

Bellardia menechmoides Chen, 1979: 389, 391; Schumann, 1986: 13; Fan, 1992: 497; Fan et al., 1997: 323, 640; Kurahashi & Afzal, 2002: 216.

DISTRIBUTION. Palaearctic: China: Gansu, Hebei, Hubei, Jiangsu, Liaoning, Shaanxi, Shandong, Shanghai, Sichuan; Japan. Oriental: China: Guizhou, Zhejiang.

***Bellardia micromenechma* Liang et Gan, 1986**

Bellardia micromenechma Liang & Gan, 1986: 370, 374; Fan, 1992: 497; Fan et al., 1997: 324, 640.

DISTRIBUTION. Oriental: China: Yunnan.

***Bellardia nakatae* (Kurahashi, 1987), comb. n.**

Onesia nakatae Kurahashi, 1987a: 19; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia nartshukae* (Grunin, 1970)**

Melinda nartshukae Grunin, 1970b: 476.

Bellardia nartshukae: Schumann, 1973: 342; 1974: 264; 1986: 14; Fan, 1992: 500; Artamonov, 1995: 4; Fan et al., 1997: 331, 641; Verves, 2002: 2.

Melinda pruinosa (not Enderlein, 1933): Kurahashi, 1964a: 384; Kano & Shinonaga, 1968: 30. (Misidentification).

Melinda pusilla (not Meigen, 1826): Kurahashi, 1964a: 385; Kano & Shinonaga, 1968: 32. (Misidentification).

DISTRIBUTION. Palaearctic: China: Liaoning, Neimenggu, Shandong; North Korea; Japan; Russia: South of Khabarovskiy kray, Primorye.

***Bellardia nigra* (Kurahashi, 1987), comb. n.**

Onesia nigra Kurahashi, 1987a: 27; 1989: 706.

DISTRIBUTION. Australasian/Oceanian: Indonesia: Irian Jaya; Papua New Guinea: New Guinea.

***Bellardia niuginii* (Kurahashi, 1987), comb. n.**

Onesia niuginii Kurahashi, 1987a: 29; 1989: 707; 2003: 128.

DISTRIBUTION. Australasian/Oceanian: Indonesia: Irian Jaya; Papua New Guinea: New Guinea.

***Bellardia notomenechma* Liang et Gan, 1986**

Bellardia notomenechma Liang & Gan, 1986: 367, 374; Fan, 1992: 498; Fan et al., 1997: 325, 640.

DISTRIBUTION. Palaearctic: China: Sichuan. Oriental: China: Yunnan.

***Bellardia nova* Rognes, 2002**

Bellardia nova Rognes, 2002a: 8.

DISTRIBUTION. Palaearctic: Israel: Galilee; Syria: Golan.

***Bellardia obsoleta* (Meigen, 1824)**

Tachina obsoleta Meigen, 1824: 282.

Onesia obsoleta: Stein, 1900: 145; Séguy, 1928: 132.

Bellardia obsoleta: Townsend, 1937: 138; Schumann, 1973: 341; 1974: 236; Mihályi, 1979: 19; Schumann, 1986: 14; Čepelák, 1986: 257; González Mora, 1989: 51; Draber-Moňko, 1991: 244; Gregor & Rozkošný, 1997: 96; Martínez-Sánchez et al., 1998: 179; Rognes, 2002b: 349.

Onesia clausa Macquart, 1835: 234. Synonymized by Mik, 1884: 256.

Bellardia vernalis Robineau-Desvoidy, 1963: 548. Synonymized by Mik, 1884: 256.

Onesia angusta Séguy, 1928: 131. Synonymized by Schumann, 1974: 237.

DISTRIBUTION. Palaearctic: Bulgaria; Czech Republic; Denmark; France; Germany; Hungary; Italy; Poland; Norway; Romania; Slovakia; Spain.

***Bellardia oligochaeta* Chen et Fan, 1988**

Bellardia oligochaeta Fan & Chen, 1988: 510; Fan, 1992: 492; Fan et al., 1997: 312, 638.

DISTRIBUTION. Palaearctic: China: Tibet.

***Bellardia pandia* (Walker, 1849)**

Musca pandia Walker, 1849: 898.

Onesia pandia: Bezzi & Stein, 1907: 551.

Bellardia pandia: Schumann, 1986: 14; González Mora, 1989: 53; Rognes, 1991: 47; Gregor & Rozkošný, 1997: 96; Martínez-Sánchez et al., 1998: 179; 2001: 82; Papp, 2001: 420; Verves, 2001: 165.

Musca unxia Walker, 1849: 899. Synonymized by Schumann, 1974: 249.

Onesia unxia: Bezzi & Stein, 1907: 551.

Onesia biseta Kramer, 1917: 284. Synonymized by Schumann, 1986: 14.

Onesia biseta: Müller, 1922: 59; Stein, 1924: 265; Lundbeck, 1927: 157; Séguy, 1928: 131; Jäcentkovský, 1941: 19; Emden, 1954: 124.

Melinda biseta: Zumpt, 1956: 31; Crunin, 1970a: 671; Lehrer, 1970: 48; 1972: 111.

Bellardia biseta: Schumann, 1973: 342; 1974: 249; Lobanov, 1976: 25; Skufin & Khitsova, 1978: 88; Mihályi, 1979: 21; Čepelák, 1986: 257; Draber-Moňko, 1991: 244; Gudjabidze, 2000: 150.

MATERIAL. Belarus': Brest region: Byelowezskaya Pusza, 5.VIII 1961, at flowers of *Achillea millefolium* (E. Narchuk), 3 ♀ (ZIN). Estonia: Lihula, 16.VII 1961 (K. Elberg), 1 ♂; ibid., 17.VI 1962 (K. Elberg), 1 ♂; Kärevere, 20.VIII 1980 (K. Elberg), 1 ♂; Kuke raba, 7.VIII 1961 (K. Elberg), 1 ♂ (IZBE). Georgia: Abkhazia, environs of Pitzunda, 30.VII-1.VIII 1987, humid meadows (Yu. Verves), 5 ♂, 1 ♀ (LZEKU).

DISTRIBUTION. Albania; Andorra; Austria; Belarus'*; Croatia; Czech Republic; Denmark; Estonia*; Finland; France; Germany; Georgia; Hungary; Italy; Norway; Poland; Romania; Russia: Leningrad, Ryazan' and Voronezh regions; Serbia; Slovakia; Spain; Sweden; Switzerland; Ukraine; United Kingdom.

***Bellardia plebeja* (Malloch, 1927), comb. n.**

Calliphora plebeja Malloch, 1927: 315.

Onesia plebeja: Kurahashi, 1987a: 38; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Australia: Queensland; Papua New Guinea: New Guinea.

***Bellardia polita* (Mik, 1884)**

Onesia polita Mik, 1884: 255; Bezzi & Stein, 1907: 551; Stein, 1924: 265; Lundbeck, 1927: 160.

Ambodicia polita: Enderlein, 1933: 124; Jacentkovský, 1941: 13.

Melinda polita: Zumpt, 1956: 34; Grunin, 1970a: 611.

Bellardia polita: Schumann, 1973: 342; 1974: 268; 1986: 14; Mihályi, 1979: 16; González Mora, 1989: 49; Draber-Moňko, 1991: 244; Gregor & Rozkošny, 1997: 96; Martínez-Sánchez et al., 1998: 179; Papp, 2001: 420.

MATERIAL. Lithuania: Baltaske, 12.VI 1972 (K. Elberg), 1 ♀ (IZBE). Ukraine: Cherkasy region: Kaniv district, 20 km SE of Tubil'tzy village, 19.VI 1988 (S. Zrazhewskyi), 1 ♀. Chernigiv region: Borzna district, Yaduty, humid meadow, 10-11.VII 2000 (Yu. Verves), 1 ♂, 3 ♀ (LZEKU).

DISTRIBUTION. Palaearctic: Austria; Czech Republic; Germany; Hungary; Lithuania*; Poland; Slovakia; Spain; Ukraine*.

***Bellardia pruinosa* (Enderlein, 1933)**

Ambodicia pruinosa Enderlein, 1933: 124.

Melinda pruinosa: Zumpt, 1956: 35.

Bellardia pruinosa: Schumann, 1999: 135; Rognes, 2002b: 349.

Bellardia odsoleta: Schumann, 1974: 236; 1986: 14 (part.).

DISTRIBUTION. Palaearctic: Germany; Italy.

***Bellardia psebajica* (Grunin, 1970)**

Melinda psebajica Grunin, 1970b: 478.

Bellardia psebajica: Schumann, 1973: 342; 1974: 271; 1986: 14.

DISTRIBUTION. Palaearctic: Russia: Krasnodarskiy kray.

***Bellardia pubescens* (Macquart, 1851), comb. n.**

Calliphora pubescens Macquart, 1851a: 215; 1851b: 242.

Onesia pubescens: James & Kurahashi, 1976: 20; Kurahashi, 1982: 243; 1987a: 38; 1989: 707; Kurahashi & Fauran, 1980: 406; Kurahashi & Magpayo, 2000: 17; Kurahashi, 2003: 127.

Calliphora testaceifacies Macquart, 1851a: 214, 1851b: 241. Synonymized by Hardy, 1937: 17.

Calliphora rutilans Macquart, 1851a: 214, 1851b: 241. Synonymized by Hardy, 1937: 17.

Calliphora pusilla Macquart, 1855a: 130, 1855b: 110. Synonymized by Hardy, 1937: 17. (Junior secondary homonym of *Musca pusilla* Meigen, 1826: 71).

Musca ruficornis Walker, 1858: 215. Synonymized by Hardy, 1937: 17. (Junior primary homonym of *Musca ruficornis* Fabricius, 1794: 314).

DISTRIBUTION. Oriental: Philippines: Luzon; Australasian/Oceanian: Australia: New South Wales, South Australia, Tasmania, Victoria; Indonesia: Irian Jaya; New Caledonia: Loyalty Il., New Caledonia; Papua New Guinea: Bismarck Archipelago (Duke of York, Hermit), Bougainville Isl., New Guinea; Vanuatu: Banks, Efate, Epi, Eromanga, Espiritu Santo, Malekula, Pentecost, Tanna.

***Bellardia pubicornis* (Zetterstedt, 1838)**

Tachina pubicornis Zetterstedt, 1838: 639.

Bellardia pubicornis: Rognes, 1991: 50; 1997: 65; Papp, 2001: 420.

Musca puberula Zetterstedt, 1838: 654. Synonymized by Ringdahl, 1945: 26.

Pseudonesia puberula: Villeneuve, 1920: 296; Zumpt, 1956: 59; Mihalyi, 1979: 29; Rognes, 1982: 111; 1985: 90; Schumann, 1986: 36.

Musca dolens Zetterstedt, 1838: 654. Synonymized by Ringdahl, 1945: 26.

Dexia curvipes Zetterstedt, 1859: 6175. Synonymized by Ringdahl, 1945: 26.

DISTRIBUTION. Palaearctic: Austria; Finland; Hungary; Norway; Russia: Kola Peninsula; Sweden; Switzerland; United Kingdom: Scotland.

***Bellardia rohdendorfi* (Grunin, 1970)**

Melinda rohdendorfi Grunin, 1970b: 476.

Bellardia rohdendorfi: Schumann, 1973: 342; 1974: 277; 1986: 15.

DISTRIBUTION. Palaearctic: Azerbaijan; Georgia.

***Bellardia rugiforceps* Fan et Feng, 1993**

Bellardia rugiforceps Fan et al., 1993: 199, 202; Fan et al., 1997: 317, 639.

DISTRIBUTION. Palaearctic: China: Sichuan.

***Bellardia santamaria* (Kurahashi, 1982), comb. n.**

Onesia santamaria Kurahashi, 1982: 241; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Vanuatu: Banks Is.

***Bellardia sastylata* Qian et Fan, 1981**

Bellardia sastylata Qian & Fan, 1981: 444, 448; Schumann, 1986: 15; Fan, 1992: 498; Fan et al., 1997: 326-327, 640.

DISTRIBUTION. Palearctic: China: Xinjiang.

***Bellardia saur* Verves, sp. n.**

Figs 1-5

MATERIAL. Holotype – ♂, East Kazakhstan: Saur Ridge, Mt. Karaungur, 12.VII 1965 (I. Sukhacheva). Deposited in LZEKU.

DESCRIPTION. MALE: Total length 6.0 mm.

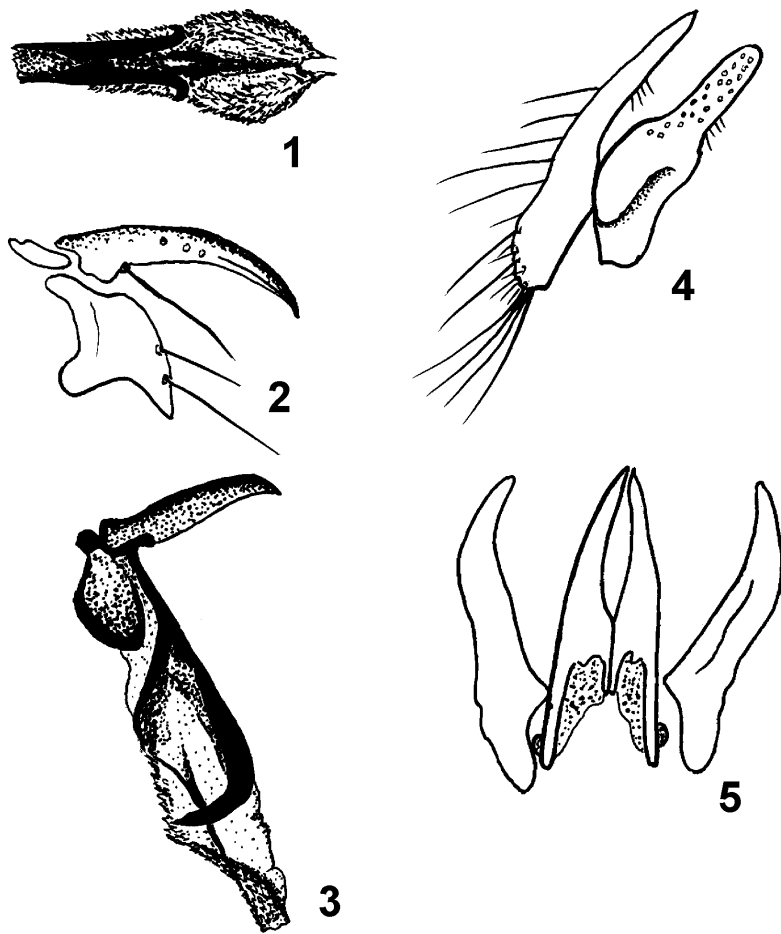
Head: Frons rather broad, about 3 times width of anterior ocellus, as broad than distance between posterior ocelli inclusive, at narrowest 0.095 times of head width. Fronto-orbital plates in the narrowest part of frons distinctly wider than frontal vitta. Brown or dark transverse spot at the junction of fronto-orbital plate and parafacial absent. Parafacial rather densely dusted white with black setae. First flagellomere 1.8 times as long as pedicel. Pedicel brown, yellowish at apex. First flagellomere brown distal to an oblique line running from proximal end of anterior edge (encompassing arista base) towards middle of hind edge, yellow proximal to this line. Arista with rather long hairs on upper side, their total length about half as wide as first flagellomere, and with short ones on underside. Palpus strongly widened at apex, yellow, a little darkened at base. Head black except for area around vibrissal corner, which is yellowish-brown and brown fore part of frontal vitta. Lunula brown, densely white dusted. 7-8 pairs of frontal bristles, only fore 4-5 long and strong.

Thorax: Black, thinly grayish dusted. In front of suture there are 3 black broad longitudinal stripes. The middle stripe consists of two narrow subdivisions along the rows of *acr*. 2 strong and 2-3 hair-like *h* bristles, one strong inner *ph* seta; outer *ph* absent. *acr* 1-2 + 2-3, *dc* 2 + 3, *ia* 1 + 2. Scutellum with 3 pairs of strong marginals and a weaker pair of discal bristles. Fore and hind spiracles brown.

Legs: Black. Front tibia with one mid long *pv* bristle. Mid tibia with 2 *ad*, 1 *av*, 1 *p* bristles. Hind tibia with 3 *ad*, 1 *av*, 3 *pd* bristles.

Wings: Hyaline, veins light brown. Costa setulose below from base almost to junction with *Sc*. Cell r_{4+5} distinctly open. Base of vein R_{4+5} with several short setae at upper and lower surfaces. *M* in apical part (after angle) straight. Both calypters white, lower with several black and white hairs at base of upper surface.

Abdomen: Slightly grayish dusted, shining metallic blackish green, with a very narrow dark middorsal longitudinal stripe. Erect ground vestiture on all tergites. Complete rows of strong marginal on 3–5 tergites; discal setae all over 5th tergite and in hind part of 4th tergite.



Figs 1-5. *Bellardia saur* sp. n. 1) acrophallus, caudal view; 2) anterior and posterior parameres, lateral view; 3) aedeagus, lateral view; 4) cerci and surstyli, lateral view; 5) same, dorsal view.

Postabdomen (Fig. 1): 6th tergite with a row of strong marginal bristles, metallic green, divided at middle with strong bristles; 7+8th segment metallic green. Epandrium black, grey dusted, cerci black, surstyli brownish black, aedeagus and gonites black. Apical part of cerci in profile narrow and straight, as long as surstyli, somewhat grooved dorsally along the mid-line. Surstyli straight in profile widened basally and narrowed in apical part; dorsally strongly curved innards. Paraphallic hook right-angled in profile, not widened at angle; acrophallus straight, mid-wide, with oval lateral wings.

FEMALE unknown.

ETYMOLOGY. Named after name of type locality – Saur Ridge.

DIAGNOSIS. New species by the presence of presutural *ia* and by form of surstyli related to *Bellardia chosenensis* Chen, 1979, but distinctly separated by growth dorsally cerci and by another form of paraphallic hook and macrophallus.

DISTRIBUTION. Palaearctic: East Kazakhstan.

***Bellardia sibiriensis* Schumann, 1974**

Bellardia sibiriensis Schumann, 1974: 278; 1986: 15.

DISTRIBUTION. Palaearctic: Russia: Irkutsk region, Khakassia, Krasnoyarskiy kray.

***Bellardia siciliensis* (Villeneuve, 1926)**

Onesia siciliensis Villeneuve, 1926: 132; Séguy, 1941: 34.

Melinda siciliensis: Zumpt, 1956: 36.

Bellardia siciliensis: Schumann, 1973: 342; 1974: 281; 1986: 15.

DISTRIBUTION. Palaearctic: Italy: Sicily.

***Bellardia spatuliforceps* (Kurahashi, 1987), comb. n.**

Onesia spatuliforceps Kurahashi, 1987a: 11; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia steffani* (Kurahashi, 1987), comb. n.**

Onesia steffani Kurahashi, 1987a: 16; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia stricta* (Villeneuve, 1926)**

Onesia stricta Villeneuve, 1926: 132; Jacentkovský, 1936: 14; 1941: 18; Séguy, 1941: 34.

Melinda stricta: Zumpt, 1956: 31; Grunin, 1966: 899; 1970a: 613.

Bellardia stricta: Schumann, 1973: 342; 1974: 282; Lobanov, 1976: 25; Skufin & Khitsova, 1978: 88; Mihályi, 1979: 19; Schumann, 1986: 15; Čepelák, 1986: 257; Draber-Moňko, 1991: 244; Rognes, 1991: 54; 1997: 66; Artamonov, 1997: 1; Gregor & Rozkošný, 1997: 96; Papp, 2001: 420; Verves, 2002: 3.

Xerophilophaga pumicata Enderlein, 1933: 122. Synonymized by Schumann, 1974: 282.

Onesia pumicata: Séguy, 1941: 34.

Ambodicria minutissima Enderlein, 1933: 125. Synonymized by Schumann, 1974: 282.

Onesia minutissima: Séguy, 1941: 34.

Bellardia xinganensis Chen, Fan et Cui, 1983: 231. Synonymized by Rognes, 1991: 54.

Bellardia xinganensis: Fan, 1992: 499; Fan et al., 1997: 327, 640.

MATERIAL. Belarus': Brest region: Byelowezskaya Pusza, 2, 11.VIII 1961 (E. Narchuk), 3 ♀ (ZIN). Estonia: Kurtne, 21.VI 1973 (K. Elberg), 1 ♀; Lohkva, 21.V 1977 (K. Elberg), 1 ♂; Laikküla, Liivi, 6.VI 1974 (K. Elberg), 1 ♀; Obinita metsaalt, 28.VII

1980 (K. Elberg), 1 ♂. Latvia: Silez. (ms), 13.VI 1966 (K. Elberg), 1 ♀. Lithuania: Druskininkai, 11.VI 1972 (K. Elberg), 1 ♂; Pabradė'st 15 km E of Iuide, 9.VII 1966 (K. Elberg), 1 ♀; Baltašiške, 17.VI 1972 (K. Elberg), 1 ♂ (IZBE).

DISTRIBUTION. Palaearctic: Albania; Armenia; Azerbaijan; Belarus*; Bulgaria; China: Heilongjiang; Czech Republic; Denmark; Estonia*; Finland; Germany; Hungary; Latvia*; Lithuania*; Norway; Poland; Romania; Russia: Karelia, Kostroma, Leningrad, Lipetsk, Murmansk, Perm, Voronezh, Irkutsk and Krasnoyarsk regions, Yakutia, Primorye; Slovakia; Sweden; Switzerland; Ukraine.

***Bellardia tariensis* (Kurahashi, 1987), comb. n.**

Onesia tariensis Kurahashi, 1987a: 22; 1989: 707.

DISTRIBUTION. Australasian/Oceanian: Papua New Guinea: New Guinea.

***Bellardia tatrica* (Enderlein, 1933)**

Xerophilophaga tatrica Enderlein, 1933: 122.

Melinda tatrica: Zumpt, 1956: 36; Grunin, 1970a: 613.

Bellardia tatrica: Schumann, 1973: 342; 1974: 285; 1986: 15; Draber-Moňko, 1991: 244; Rognes, 2002a: 10.

DISTRIBUTION. Palaearctic: Gaza Strip; Greece; Israel; Poland; Russia: Krasnodarskiy kray; Syria; Jordan: West Bank.

***Bellardia vespillo* (Fabricius, 1794)**

Musca vespillo Fabricius, 1794: 318.

Bellardia vespillo: Rognes, 1991: 56; Gregor & Rozkošný, 1997: 96.

Onesia borotinensis Jacentkovský, 1944: 45, 47. Synonymized by Rognes, 1991: 56.

DISTRIBUTION. Palaearctic: Czech Republic; Denmark; Germany; Hungary; Sweden.

***Bellardia viarum* (Robineau-Desvoidy, 1830)**

Onesia viarum Robineau-Desvoidy, 1830: 367.

Bellardia viarum: Rognes, 1991: 37; Gregor & Rozkošný, 1997: 96; Martínez-Sánchez et al., 1998: 179; 2001: 82; Papp, 2001: 420.

Musca pusilla Meigen, 1826: 71. Synonymized by Rognes, 1991: 37. (Junior primary homonym of *Musca pusilla* Gmelin, 1790).

Melinda pusilla: Zumpt, 1956: 36; Grunin, 1970a: 613; Lehrer, 1972: 117; Mihara & Kurahashi, 1985: 144; Kurahashi, 1993: 6; Mihara & Kurahashi, 2002: 239.

Onesia pusilla: Strobl, 1894: 55; Bezzi & Stein, 1907: 552; Séguy, 1928: 133; Stackelberg, 1962: 385.

Bellardia pusilla: Schumann, 1973: 342; 1974: 271; Mihályi, 1979: 20; Rognes, 1985: 89; Čepelák, 1986: 257; Schumann, 1986: 14; González Mora, 1989: 51; Draber-Moňko, 1991: 244.

Calliphora aculeata Pandellé, 1896: 210. Synonymized by Rognes, 1991: 37.

Onesia aculeata: Czwalińska, 1893: 22; Bezzi & Stein, 1907: 549; Lundbeck, 1927: 156; Séguin, 1928: 128; 1941: 34; Jäcentkovský, 1941: 18; Emden, 1954: 124.

Onesia krameri Müller, 1922: 60; Séguin, 1941: 34. Synonymized by Rognes, 1991: 37.

Xerophilophaga zetterstedti Enderlein, 1933: 123. Synonymized by Rognes, 1991: 37.

Onesia longelobata Jäcentkovský, 1941: 6. Synonymized by Rognes, 1991: 37.

MATERIAL EXAMINED. Belarus': Brest region: Bieloviezskaya Pushcha reservation, 2, 11.VIII 1961 (E. Narchuk), 2 ♀ (ZON). Estonia: Puka, Upsaare, 30.VI 1980 (E. Remm), 1 ♂; Varbla, 22.VII 1976 (E. Remm), 1 ♂; Vaskna, 26.VII 1976 (E. Remm), 1 ♂. Lithuania: Žuvintas, 17.V 1966 (K. Elberg), 1 ♂ (IZBE).

DISTRIBUTION. Palaearctic: Andorra; Austria; Belarus'; China; Czech Republic; Denmark; Estonia*; Finland; France; Germany; Hungary; Italy; Japan: Honshu; Lithuania*; Norway; Poland; Romania; Russia: Altay; Slovakia; Spain; Sweden; Ukraine; United Kingdom.

***Bellardia vulgaris* (Robineau-Desvoidy, 1830)**

Onesia vulgaris Robineau-Desvoidy, 1830: 367.

Bellardia vulgaris: Rognes, 1991: 40; Gregor & Rozkošný, 1997: 96; Martínez-Sánchez et al., 1998: 179; Papp, 2001: 420.

Musca agilis Meigen, 1826: 70. Synonymized by Rognes, 1991: 40. (Junior primary homonym of *Musca agilis* Harris, 1780).

Onesia agilis: Neuhaus, 1886: 203; Bezzi & Stein, 1907: 550; Jäcentkovský, 1941: 18; Emden, 1954: 124; Stackelberg, 1962: 385;

Melinda agilis: Zumpt, 1956: 31; Grunin, 1970a: 613; Lobanov, 1971: 513; Lehrer, 1972: 108.

Bellardia agilis: Schumann, 1973: 342; 1974: 241; Lobanov, 1976: 25; Skufin & Khitsova, 1978: 88; Mihályi, 1979: 22; Rognes, 1982: 111; 1985: 89; Schumann, 1986: 13; Shewell, 1987: 1135; Čepelák, 1986: 257; González Mora, 1989: 51; Draber-Moňko, 1991: 244.

Onesia bisetosa Hall, 1948: 322; 1965: 930. Synonymized by Rognes, 1991: 40.

DISTRIBUTION. Nearctic: USA: New Jersey. Palaearctic: Armenia; Austria; Bulgaria; Croatia; Czech Republic; Finland; France; Germany; Hungary; Italy; Netherlands; Norway; Poland; Romania; Russia: Ivanovo, Lenilgrad, Pskov and Voronezh regions; Serbia; Slovakia; Spain; Sweden; Switzerland; Ukraine; United Kingdom.

***Bellardia xianensis* Wu, Chen et Fan, 1991**

Bellardia xianensis Wu et al., 1991: 307; Fan et al., 1997: 330, 641.

DISTRIBUTION. Palaearctic: China: Shaanxi.

***Bellardia zaitzevi* (Grunin, 1970)**

Melinda zaitzevi Grunin, 1970b: 478.

Bellardia zaitzevi: Schumann, 1973: 342; 1986: 15.

DISTRIBUTION. Palaearctic: Georgia.

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