



Review of the Hosts of the Family Tachinidae (Diptera: Insecta) in Bulgaria

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Academic Editor: *Dragan Chobanov*

Abstract. A total of 127 host species of family Tachinidae from Bulgaria are included. They are divided into four orders and 27 families. The main part of them, 102 species, belongs to the order Lepidoptera. Another 25 species are divided between the orders Heteroptera, Coleoptera and Hymenoptera. A total of 118 tachinid species related to these hosts were scrutinised. The species of Tachinidae with their hosts are presented in the first part of the work. In the second part, the hosts and the tachinids parasitising on them are scrutinised. A total of 135 publications with data on the family hosts from Bulgaria were analysed.

Key words: Tachinidae, hosts, parasitoids, Bulgaria

Introduction

Data on the hosts of family Tachinidae from Bulgaria have been published in various sources. Some of them are old and difficult to find for the foreign specialists. Forty years ago, data from 62 publications on hosts of the Bulgarian tachinids were summarised (Hubenov 1985). A total of 91 species of insects were reported, hosts of 96 species of the family Tachinidae. An addition to this review was published later with data from 32 publications related to Tachinidae (Hubenov 2001). The addition included 43 species of insects, hosts to 38 species of tachinids. After this period, works appeared on the insect pests of the forestry and agriculture, with contributions to their parasitofauna.

New hosts of tachinids have been established, including alien species and their parasites. Moreo-

ver, the taxonomy and nomenclature of the tachinids and their hosts have been updated. Thus, an up-to-date review on the current data on the hosts of the Bulgarian tachinids needs to be done. The aim of this work is to present the hosts of Tachinidae in Bulgaria. Such a review could be useful for specialists in applied entomology.

Material and methods

In the first part of the work, the species of family Tachinidae, isolated from hosts in Bulgaria, are presented in systematic order. The used synonyms under which these species have been reported in the country are indicated after their current scientific names. For each species, the hosts from which it was isolated are given. After the hosts, the publications from which the corresponding data have been

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taken are cited. The second part of the work lists the hosts of Tachinidae established in Bulgaria with the tachinids parasitising on them. Cases of egg-laying on a potential host are also mentioned. The list of the data sources referred includes publications that concern only tachinids reported from Bulgaria as well as their hosts established in Bulgaria. Trophic relationships in some hosts are disputable. In some cases, confusion of the hosts with species accidentally fallen into the insectariums is suspected in the published data. Another important reason for potential mistakes is that older breeders were often not really able to identify the tachinids. Tschorsnig (2017) and Herting (2017) often guessed which species were in reality meant. Most materials are not available for review and are presented as published.

Results

A total of 127 host species of family Tachinidae have been established in Bulgaria so far. They belong to four orders and 27 families. On them, 118 species of tachinids (27.3% of the 432 species, known for the country) were reported as parasites. Most taxa belong to the subfamily Exoristinae (78 species), followed by Tachininae (23 species), Dexiinae (ten species) and Phasiinae (seven species). In 135 publications there is information about the hosts of the Bulgarian tachinids.

Species of family Tachinidae, reported on hosts in Bulgaria

Subfamily Exoristinae

***Exorista civilis* (Rondani, 1859)** – *Euxoa temera* (Hubenov 1980); *Loxostege sticticalis* (Chipishev 1930); *Scopula immistaria* (Ziegler 1989).

***Exorista deligata* Pandellé, 1896** [*E. aberrans* (Strobl, 1893); *Trycholyga*] – *Parnassius apollo* (Lavchiev et al. 1977).

***Exorista fasciata* (Fallén, 1820)** [*E. segregata* (Rondani, 1859); *Trycholyga*] – *Thaumetopoea pityocampa* (Georgiev et al. 2022, Zaemdzhikova & Doychev 2022).

***Exorista grandis* (Zetterstedt, 1844)** [*E. sorbiflans* (Wiedemann, 1830); *Trycholyga*] – *Laothoe populi* (Hubenov 1980); *Lymantria dispar* (Tschorbadjiew 1925, 1927b, Keremidchiev 1954, Karnožitzky 1957, Ganchev 1975, 1990); *Smerinthus ocellata* (Hubenov 1980).

***Exorista larvarum* (Linnaeus, 1758)** [*Tachina*] – *Euproctis chrysorrhoea* (Hubenov 1983a); *Euxoa temera* (Drensky & Zacharieva-Stoilova 1951); *Gastropacha quercifolia* (Hubenov 1980); *Lacanobia oleracea* (Dochkova 1971); *Laelia coenosa* (Hubenov 1985); *Leucoma salicis* (Tschorbadjiew 1925, 1927a, 1933, Trenchev 1980d, Zaharieva 1982, 1983, Hubenov 1983a, Atanasov & Zaharieva 1984, Georgiev 1996b, Zaharieva-Pentcheva &

Georgiev 1997); *Lymantria dispar* (Burgess & Crossman 1929, Tschorbadjiew 1933, Karnožitzky 1957, Stefanov 1959, Ganchev 1972, 1975, 1989, 1990, Mamun 1978, Tsankov 1985, Georgiev et al. 2013); *Malacosoma neustria* (Ganchev 1980); *Mamestra brassicae* (Dochkova 1971, Trenchev & Dochkova 1975, Hubenov 1980, 1983a, Trenchev 1980d); *Penthopthera morio* (Ziegler 1989).

***Exorista mimula* (Meigen, 1824)** [*E. erucarum* (Rondani, 1859); *E. nigricans* (Egger, 1861); *E. pratensis* (Robineau-Desvoidy, 1830); *Eutachina*, *Microtachina*, *Tachina*] – *Leucoma salicis* (Zaharieva 1982, 1983, Hubenov 1983a, Zaharieva-Pentcheva & Georgiev 1997); *Loxostege sticticalis* (Drensky 1931, Tschorbadjiew 1933); *Mamestra brassicae* (Lavchiev et al. 1977).

***Exorista nova* (Rondani, 1859)** – *Saturnia pavonia*, *Mamestra brassicae*, *Smerinthus ocellata* (Lavchiev et al. 1977).

***Exorista rustica* (Fallén, 1810)** [*Eutachina*, *Tachina*] – *Mamestra* sp., *Mamestra brassicae* (Nikolova 1946, 1972, Kaytazov 1963); *Tenthredo scrophulariae* (Popov 1978).

***Exorista segregata* (Rondani, 1859)** [*E. fasciata* (Fallén, 1820); *Trycholyga*] – *Lymantria dispar* (Tschorbadjiew 1925, 1933, Burgess & Crossman 1929, Karnožitzky 1957, Ganchev 1972, 1975, Mamun 1978); *Thaumetopoea pityocampa* (Russkoff 1929-1930, Mirchev & Tsankov 2005, Zaemdzhikova & Doychev 2022).

***Exorista xanthaspis* (Wiedemann, 1830)** [*E. fallax* Meigen 1824] – *Euxoa temera* (Hubenov 1980); *Heliothis maritima* (Nikolova 1972); *Hyphantria cunea* (Trenchev 1980d).

***Diplostichus janitrix* (Hartig, 1838)** [*Chetogena*] – *Gilpinia* sp. (Georgiev 1996a).

***Parasetigena silvestris* (Robineau-Desvoidy, 1863)** [*P. agilis* (Stein, 1924), not Robineau-Desvoidy, 1830; *P. segregata* Brauer and Bergenstamm, 1891, not Rondani, 1859; *Phorocera*] – *Lymantria dispar* (Burgess & Crossman 1929, Tschorbadjiew 1933, Keremidchiev 1951, Karnožitzky 1957, Stefanov & Keremidchiev 1961, Stefanov 1962, Ganchev 1972, 1975, 1989, 1990, Mamun 1978).

***Parasetigena* sp. ?** (*Phorocera* sp. ?) – *Diprion pini* (Tschorbadjiew 1925).

***Phorocera assimilis* (Fallén, 1810)** – *Lacanobia oleracea* (Dochkova 1971).

***Phorocera grandis* (Rondani, 1859)** – *Thaumetopoea pityocampa* (IV.1981, the fly was observed to lay eggs on the caterpillars in procession: Hubenov 1983a, Zaemdzhikova & Doychev 2022).

***Phorocera obscura* (Fallén, 1810)** – *Operophtera brumata* (Mamun 1978, Ganchev 1990).

***Bessa parallela* (Meigen, 1824)** [*B. fugax* (Rondani, 1861); *B. selecta* (Meigen, 1824)] – *Archips crataegana*, *Eudemis profundana* (Zaemdzhikova 2012, 2015); *Tortrix viridana* (Ganchev 1977, 1990, Mamun 1978, Trenchev 1979, 1980d); *Yponomeuta malinellus* (Popov 1956, Trenchev 1980d).

***Meigenia mutabilis* (Fallén, 1810)** [*M. bisignata* (Meigen, 1824)] – *Agelastica alni* (Tomov 1974); *Leptinotarsa decemlineata* ? (Kaytazov 1971b, the fly was observed to visit the larvae); *Gonioctena linnaeana* (Gruev 1969, 1972); *Plagiosterna aenea* (Gruev 1972, 1973).

***Meigenia uncinata* Mesnil, 1967** – *Agelastica alni* (Tomov 1971, 1974).

***Erynniopsis antennata* (Rondani, 1861)** [*E. rondanii* Townsend, 1926] – *Diorhabda elongata* (Tomov 1971, 1974); *Xanthogaleruca luteola* (Tomov & Mitov 1987).

***Ligeriella aristata* (Villeneuve, 1911)** – *Thaumetopoea solitaria* ? (Lavchiev et al. 1977).

***Blondelia inclusa* (Hartig, 1838)** – *Euproctis chrysorrhoea*, *Lymantria dispar* (Mamun 1978, Trenchev 1980d, Ganchev 1990).

***Blondelia nigripes* (Fallén, 1810)** [*Ceromasia*] – *Agriopis marginaria* (Mamun 1978); *Alsophila aceraria* (Ganchev 1977, Mamun 1978); *Alsophila aescularia* (Ganchev 1977, Mamun 1978); *Archips rosana* (Mamun 1978); *Archips xylosteana* (Mamun 1978, Mirchev et al. 1999); *Colotois pennaria* (Ganchev 1977, Mamun 1978); *Cosmia trapezina* (Mamun 1978); *Diprion pini* (Daskalova & Kitin 1979); *Erannis defoliaria* (Ganchev 1977, Mamun 1978); *Euproctis chrysorrhoea* (Mamun 1978, Hubenov 1983a); *Lymantria dispar* (Ganchev 1972, 1975, 1989, 1990, Mamun 1978); *Malacosoma neustria* (Mamun 1978, Zonati 1978, Ganchev 1980, 1989, 1990, Trenchev 1980d); *Mamestra brassicae* (Hubenov 1983a); *Operophtera brumata* (Ganchev 1977, Mamun 1978); *Orthosia cruda* (Mamun 1978); *Orthosia incerta* (Mirchev et al. 1999); *Perconia strigillaria* (Hubenov 2001); *Thaumetopoea processionea* (Mamun 1978); *Tortrix viridana* (Ganchev 1977, Mamun 1978, Trenchev 1980d).

***Compsilura concinnata* (Meigen, 1824)** – *Acronicta megacephala* (Georgiev & Delkov 1997); *Aporia crataegi* (Velcheva et al. 2012); *Archips crataegana* (Zaemdzhikova 2012, 2015); *Archips xylosteana* (Hubenov 2001); *Calyptra thalictri* (Hubenov 1983a); *Eriogaster lanestris* (Mamun 1978); *Euproctis chrysorrhoea* (Mamun 1978, Trenchev 1980d); *Hyphantria cunea* (Trenchev 1980d); *Leucoma salicis* (Zaharieva 1982, 1983, Hubenov 1983a, Atanasov & Zaharieva 1984, Georgiev 1996b, Zaharieva-Pentcheva & Georgiev 1997); *Lymantria dispar* (Tschorbadjiew 1933, Keremidchiev 1954, 1965, Karnožitzky 1957, Stefanov et al. 1958, Stefanov 1959, 1962, Ganchev 1972, 1975, 1990, Mamun 1978, Tsankov 1985, Mirchev et al. 1999, Georgiev et al. 2013); *Malacosoma neustria* (Ganchev 1980, 1990, Mamun 1978, Zonati 1978); *Orthosia cruda* (Mamun 1978); *Thaumetopoea pityocampa* (Russkoff 1929–1930, Tsankov 1965, Mirchev & Tsankov 2005, Georgiev et al. 2022, Zaemdzhikova & Doychev 2022); *Thaumetopoea processionea* (Mamun 1978, Trenchev 1980d); *Thaumetopoea solitaria* (Hubenov 1980).

***Vibrissina turrita* (Meigen, 1824)** – *Athalia cordata* (Nikolova 1972).

***Winthemia quadripustulata* (Fabricius, 1794)** – *Autographa gamma* (Dochkova 1971, 1972); *Helicoverpa armigera* (Popoff 1934); *Malacosoma neustria* (Trenchev 1980d).

***Nemorilla floralis* (Fallén, 1810)** [? *N. maculosa* (Meigen, 1824)] – *Acleris bergmanniana* (Nikolova & Natskova 1966, Nikolova 1967, 1972); *Archips rosana* (Ivanov & Savov 1982); *Archips xylosteana* (Ivanov & Savov 1982); *Autographa gamma* (Dochkova 1971, 1972); *Hedya nubiferana* (Velcheva et al. 2010); *Lacanobia oleracea* (Dochkova 1971); *Lobesia botrana* (Trenchev 1980d); *Notocelia roborana* (Nikolova & Natskova 1966, Nikolova 1967, 1972); *Pandemis heparana* (Ivanov & Savov 1982); *Spilonota ocellana* (Ivanov & Savov 1982).

***Nemorilla maculosa* (Meigen, 1824)** – *Archips xylosteana* (Ganchev 1977); *Tortrix viridana* (Ganchev 1977).

***Apomya confinis* (Fallén, 1820)** – *Aglais io*, *Aglais urticae*, *Callophrys rubi* (Lavchiev et al. 1977).

***Phebellia nigripalpis* (Robineau-Desvoidy, 1847)** [*Exorista agnata* Rondani, 1859; *Prooppia*] – *Archips crataegana* (Zaemdzhikova 2012, 2015).

***Nilea hortulana* (Meigen, 1824)** [? *N. innoxia* Robineau-Desvoidy, 1863; *Platymyia*] – *Acronicta tridens*, *Saturnia pyri* (Lavchiev et al. 1977).

***Buquetia musca* Robineau-Desvoidy, 1847** – *Papilio machaon* (Hubenov 1980).

***Phryxe magnicornis* (Zetterstedt, 1838)** [*Ph. longicauda* Wainwright, 1940] – *Agriopis aurantiaria* (Mamun 1978, Trenchev 1980d); *Erannis defoliaria* (Mamun 1978); *Lycia hirtaria* (Trenchev 1980d); *Lymantria dispar*, *Malacosoma neustria* (Trenchev 1980d); *Operophtera brumata* (Mamun 1978).

***Phryxe nemea* (Meigen, 1824)** – *Autographa gamma* (Dochkova 1971, 1972); *Erannis defoliaria* (Georgiev 2000b); *Malacosoma neustria* (Zonati 1978); *Lacanobia oleracea* (Dochkova 1971, 1972); *Operophtera brumata* (Trenchev 1980d, Georgiev 2000b); *Ptycholoma lecheana* (Georgiev 2000b).

***Phryxe prima* (Brauer & Bergenstamm, 1889)** – *Zygaena carniolica* (Tschorsnig 2017).

***Phryxe vulgaris* (Fallén, 1810)** – *Erannis defoliaria* (Ganchev 1977, Mamun 1978); *Lycia hirtaria* (Trenchev 1980d); *Sphinx pinastri* (Hubenov 1983a); *Thaumetopoea pityocampa* (Hubenov 1983a, Georgiev et al. 2022, Zaemdzhikova & Doychev 2022).

***Bactromyia aurulenta* (Meigen, 1824)** – *Yponomeuta malinellus* (Popov 1956, Trenchev 1980d).

***Pseudoperichaeta nigrolineata* (Walker, 1853)** [*P. insidiosa* (Robineau-Desvoidy, 1863); *P. roseanae* Brauer et Bergenstamm, 1891; *P. major* Brauer & Bergenstamm, 1891; *Zenillia*] – *Acrobasis consociella* (Georgiev et al. 2002); *Archips xylosteana* (Mirchev et al. 1999); *Gelechia turpella* (Georgiev 2000b); *Rhyacionia buoliana* (Tsankov 1967, 1968, 1972, 1977, 1979, 1985, Ganchev 1990, Georgiev 2000b).

***Pseudoperichaeta palesioidea* (Robineau-Desvoidy, 1830)** [*P. trizonata* (Zetterstedt, 1844); *P. hirta*

(Bigot, 1880); *Anoxycampta*] – *Hedya salicella* (Georgiev 2000b).

***Lydella grisescens* Robineau-Desvoidy, 1830** [*L. senilis* (Rondani, 1861), not Meigen, 1838; ? *L. thompsoni* Herting, 1959] – *Ostrinia nubilalis* (Tschorbadjiew 1930, 1931, 1939).

***Lydella thompsoni* Herting, 1959** – *Ostrinia nubilalis*, *Hyles livornica* ? (Trenchev 1980d).

***Drino atropivora* (Robineau-Desvoidy, 1830)** [*Sturmia*] – *Euxoa temera* (Hubenov 1983a); *Inachis io*, *Saturnia spini* (Hubenov 1980).

***Drino gilva* (Hartig, 1838)** [? *D. inconspicua* (Meigen, 1830); *Sturmia*] – *Lymantria dispar* (Tschorbadjiew 1925, 1927b, Keremidchiev 1954, Karnožitzy 1957).

***Drino inconspicua* (Meigen, 1830)** [*D. bimaculata* (Hartig, 1837); *Sturmia*] – *Diprion pini* (Daskalova & Kitin 1979, Bochev & Georgiev 1996, Georgiev & Bochev 1996, Georgiev et al. 1998b), *Lymantria dispar* (Tschorbadjiew 1927b, 1928, Keremidchiev 1954, Karnožitzy 1957, Ganchev 1972, 1975, 1990, Mamun 1978, Tsankov 1985, Mirchev et al. 1999, Georgiev et al. 2013).

***Thelyconychia solivaga* (Rondani, 1861)** – *Acherontia atropos* (Lavchiev et al. 1977); *Malacosoma neustria* (Trenchev 1980d).

***Hubneria affinis* (Fallén, 1810)** [*Exorista*] – *Phragmatobia fuliginosa* (Trenchev 1980d); *Spilosoma lubricipeda* (Popov 1978).

***Trypthera lugubris* (Meigen, 1824)** – *Lemonia balcanica* (Leg. S. Beshkov, new).

***Carcelia gnava* (Meigen, 1824)** [*C. excavata* (Zetterstedt, 1844)] – *Anacamptis populella* (Georgiev 2000b); *Lasiocampidae* (Nikolova 1970, 1972); *Leucoma salicis* (Zaharieva 1982, 1983, Hubenov 1983a, Atanasov & Zaharieva 1984, Zaharieva-Pentcheva & Georgiev 1997); *Lymantria dispar* (Tschorbadjiew 1925, 1927b, Burgess & Crossman 1929, Karnožitzy 1957, Ganchev 1972, 1975, 1990; *Malacosoma neustria* (Ganchev 1980, Georgiev 2000b).

***Carcelia iliaca* (Ratzeburg, 1840)** [*Carcelia laxifrons* Villeneuve, 1912] – *Thaumetopoea processionea* (Trenchev 1980d).

***Carcelia laxifrons* Villeneuve, 1912** – *Euproctis chrysorrhoea* (Tschorbadjiew 1924, 1925, 1933, Lavchiev et al. 1977, Mamun 1978); *Malacosoma neustria* (Lavchiev et al. 1977).

***Carcelia lucorum* (Meigen, 1824)** [*C. chelonae* (Rondani, 1859)] – *Arctia caja* (Hubenov 1983a); *Mamestra brassicae* (Lavchiev et al. 1977); *Ptycholoma lecheana*, *Spilonota ocellana* (Trenchev 1980d).

***Carcelia rasa* (Macquart, 1849)** [*C. amphion* Robineau-Desvoidy, 1863] – *Yponomeuta malinellus* (Popov 1956).

***Carcelia stackelbergi* Mesnil, 1963** – *Tortrix viridana* (Trenchev 1980d).

***Carcelia tibialis* (Robineau-Desvoidy, 1863)** – *Autographa gamma* (Dochkova 1971, 1972); *Dicallomera fascelina* (Hubenov 1980).

***Senometopia excisa* (Fallén, 1820)** – *Lymantria dispar* (Georgiev et al. 2013).

***Senometopia separata* (Rondani, 1859)** [*Eucarcelia excisa* var. *separata* (Rondani, 1859); *Carcelia confundens* (Rondani, 1859); *C. gnava* (Meigen, 1824)] – *Lymantria dispar* (Tschorbadjiew 1933, Keremidchiev 1954, Karnožitzy 1957, Ganchev 1972, 1975, 1990, Tsankov 1985, Mirchev et al. 1999, Georgiev et al. 2013).

***Xylotachina diluta* (Meigen, 1824)** [*X. ambulans* (Rondani, 1861); *X. ligniperdae* Brauer et Bergenstamm, 1891; *Lidella*, *Sturmia*] – *Cossus cossus* (Sengalevich 1966, 1972, Dirimanov & Sengalevich 1969).

***Townsendiellomyia nidicola* (Townsend, 1908)** [*Sturmia*] – *Euproctis chrysorrhoea* (Tschorbadjiew 1924, Lavchiev et al. 1977); *Malacosoma neustria* (Tschorbadjiew 1925, 1933).

***Platymya fimbriata* (Meigen, 1824)** [*P. nemestrina* (Meigen, 1824)] – *Thaumetopoea processionea*, *Tortrix viridana* (Trenchev 1980d).

***Eumea linearicornis* (Zetterstedt, 1844)** [*E. westermanni* (Zetterstedt, 1844); *Platymya*] – *Archips crataegana* (Zaemdzhikova 2012, 2015); *Archips rosana* (Mamun 1978); *Archips xylosteana* (Mamun 1978, Mirchev et al. 1999); *Pandemis cerasana* (Mamun 1978); *Thaumetopoea processionea*, *Tortrix viridana* (Trenchev 1980d).

***Eumea mitis* (Meigen, 1824)** [*Platymya*] – *Ostrinia nubilalis* (Trenchev 1980d).

***Myxexoristops blondeli* (Robineau-Desvoidy, 1830)** – *Pristiphora erichsonii* (Hubenov 2001); *Tortrix viridana* (Trenchev 1980d).

***Zenillia dolosa* (Meigen, 1824)** – *Sphinx pinastri* (Lavchiev et al. 1977).

***Zenillia libatrix* (Panzer, 1798)** [*Exorista*] – *Acrobasis consociella* (Georgiev et al. 2002); *Archips xylosteana* (Mamun 1978); *Euproctis chrysorrhoea* (Tschorbadjiew 1924, 1925, 1933); *Lymantria dispar* (Mamun 1978, Trenchev 1980d, Georgiev et al. 2013); *Malacosoma neustria* (Lavchiev et al. 1977, Mamun 1978, Zonati 1978, Trenchev 1980d, Ganchev 1989, 1990); *Thaumetopoea pityocampa* (Tsankov 1960, Mirchev & Tsankov 2005); *Thaumetopoea processionea* (Mamun 1978); *Theresimima ampellophaga* (Harizanova 1996).

***Pales pavidata* (Meigen, 1824)** [*Ctenophorocera*] – *Alsophila aescularia* (Mamun 1978, Ganchev 1977); *Eriogaster lanestris* (Mamun 1978); *Euproctis chrysorrhoea* (Tschorbadjiew 1924, 1925, Mamun 1978); *Hypanthria cunea* (Hubenov 2001); *Leucoma salicis* (Zaharieva 1982, 1983, Hubenov 1983a, Atanasov & Zaharieva 1984, Georgiev 1996b, Zaharieva-Pentcheva & Georgiev 1997); *Lymantria dispar* (Ganchev 1972, 1975, Mamun 1978, Trenchev 1980d); *Malacosoma neustria* (Lavchiev et al. 1977, Mamun 1978, Ganchev 1980); *Thaumetopoea processionea* (Mamun 1978).

***Phryno vetula* (Meigen, 1824)** – *Agriopis bajaria* (Ziegler 1984).

***Eurysthaea scutellaris* (Robineau-Desvoidy, 1848)** [*Discochaeta evonymellae* Ratzeburg, 1848; *D. yponomeutae* Rondani, 1861; *D. hyponomeutae* Stein, 1924] – *Archips xylosteana* (Ganchev 1977, Mirchev et

al. 1999); *Tortrix viridana* (Ganchev 1977); *Yponomeuta cagnagella* (Hubenov 1980); *Yponomeuta evonymella* (Hubenov 2001); *Yponomeuta malinellus* (Tschorbadjiew 1925, 1926, 1933, Petrova 1933, Popov 1956, Trenchev 1979, 1980d, Hubenov 1983a); *Yponomeuta padella* (Tschorbadjiew 1925, Lavchiev et al. 1977); *Yponomeuta rorrella* (Tsankov & Georgiev 1991a).

***Elodia morio* (Fallén, 1820)** [*E. tragica* (Meigen, 1824)] – *Acrobasis consociella* (Mamun 1978); *Archips crataegana* (Zaemdzhikova 2015); *Archips xylostean* (Ganchev 1977); *Cydia pomonella* (Trenchev 1980d, Velcheva et al. 2012); *Tortrix viridana* (Zaemdzhikova 2012, 2015).

***Sturmia bella* (Meigen, 1824)** – *Acherontia atropos*, *Vanessa atalanta* (Hubenov 1983a); *Dicallomera fascelina* (Hubenov 1980).

***Blepharipa pratensis* (Meigen, 1824)** [*B. scutellata* (Robineau-Desvoidy, 1830); *Sturmia*; *Blepharipoda*, *Crossocosmia*] – *Euproctis chrysorrhoea* (Gospodinov 1963); *Lymantria dispar* (Burgess & Crossman 1929, Tschorbadjiew 1933, Keremidchiev 1951, 1965, Karnožitzky 1957, Stefanov 1959, Stefanov & Keremidchiev 1961, Ganchev 1972, 1975, 1989, 1990, Mamun 1978, Tsankov 1985), *Rhyacionia* sp. (Keremidchiev 1951).

***Masicera pavoniae* (Robineau-Desvoidy, 1830)** [*M. pratensis* Meigen, 1824] – *Cossus cossus*, *Euproctis chrysorrhoea* (Lavchiev et al. 1977); *Saturnia pyri* (Lavchiev et al. 1977, Mückstein et al. 2007).

***Masicera sphingivora* (Robineau-Desvoidy, 1830)** [*M. silvatica* (Fallén, 1810); *M. cuculliae* Robineau-Desvoidy, 1863] – *Heliothis maritima* (Nikolova 1970, 1972).

***Prosopaea nigricans* (Egger, 1861)** – *Thaumetopoea solitaria* (Hubenov 1983a).

***Baumhaueria goniaeformis* (Meigen, 1824)** – *Lymantria dispar* (Tschorbadjiew 1927b); *Malacosoma neustria* (Zonati 1978, Trenchev 1980d).

***Gonia bimaculata* Wiedemann, 1819** [*G. cilipeda* Rondani, 1859; *Salmacia*] – *Agrotis ipsilon* (Nikolova 1961).

***Gonia capitata* (De Geer, 1776)** [*G. trifaria* Zeller, 1842] – *Euxoa temera* (Hubenov 1980).

***Pseudogonia parisiaca* (Robineau-Desvoidy, 1851)** [*Isomera blondeli* Robineau-Desvoidy, 1830; *Gonia cognata* Rongani, 1859] – *Autographa gamma* (Dochkova 1971, 1972); ? *Plusia* sp. (Trenchev 1980d).

***Spallanzania hebes* (Fallén, 1820)** [*Cnephala bucephala* (Meigen, 1824)] – *Autographa gamma* (Dochkova 1971, 1972); *Lacanobia oleracea* (Dochkova 1971)

Subfamily Tachininae

***Tachina* sp.** – *Archips rosana*, *Notocelia roborana* (Nikolova 1967, 1972, Nikolova & Natskova 1966); *Cossus cossus* ? (Drensky 1928).

***Tachina fera* (Linnaeus, 1761)** [*Echinomyia*, *Eudoromyia*] – *Euxoa temera* (Drensky & Zacharieva-Stoilova 1951); *Lymantria dispar* (Keremidchiev 1951).

***Tachina magnicornis* (Zetterstedt, 1844)** [*T. tessellata* (Fabricius, 1794); *T. errans* (Robineau-Desvoidy, 1830); *T. vernalis* (Robineau-Desvoidy, 1830); *Echinomyia*, *Eudoromyia*] – *Agrotis segetum* (Drensky 1930); *Euxoa temera* (Ilchev 1923, Drensky & Zacharieva-Stoilova 1951); *Euxoa tritici* (Tschorbadjiew 1925).

***Tachina praeceps* Meigen, 1824** (*Echinogaster*, *Echinomyia*, *Pareudora*) – *Euproctis chrysorrhoea* (Hubenov 1983a).

***Cnephaotachina* sp.** [? *Cnephaotachina danilevskyi* (Portshinsky, 1882)] – *Autographa gamma* (Dochkova 1971, 1972).

***Peleteria rubescens* (Robineau-Desvoidy, 1830)** [*P. nigricornis* (Meigen, 1838)] – *Euxoa tritici* (Hubenov 1980).

***Linnaemya comta* (Fallén, 1810)** – *Agrotis ipsilon* (Nikolova 1961); *Euxoa temera* (Hubenov 1983a).

***Linnaemya picta* (Meigen, 1824)** [*L. retroflexa* Pandellé, 1895; *Micropalpus*] – *Mamestra brassicae* (Trenchev 1980a).

***Lypha* sp.** [? *L. dubia* (Fallén, 1810)] – *Agriopsis marginaria* (Nikolova 1967); Geometridae (Nikolova 1972); *Operophtera brumata* (Peeva 2009).

***Eurithia consobrina* (Meigen, 1824)** [*Panzeria*] – *Mamestra brassicae* (Karadzhov 1970).

***Cleonice callida* (Meigen, 1824)** [*Steiniella*] – *Galeruca tanacetii* (Trenchev 1980a).

***Pelatachina tibialis* (Fallén, 1810)** – *Synanthedon tipuliformis* (Dirimanov & Sengalevich 1969).

***Macquartia dispar* (Fallén, 1820)** [*M. flavipes* (Meigen, 1824)] – *Colaphus sophiae* (Gruev 1968, 1972).

***Macquartia tessellum* (Meigen, 1824)** [*M. brevicornis* (Macquart, 1839); *M. occlusa* Rondani, 1859] – *Chrysolina didymata*, *Colaphus sophiae* (Gruev 1972, 1973).

***Phytomyptera nigrina* (Meigen, 1824)** – *Paranthrene tabaniformis* (Georgiev 2000a, 2000c, Hubenov & Georgiev 1996, Georgiev & Delkov 1997); *Gypsonoma minutana* (Georgiev 2000b).

***Actia crassicornis* (Meigen, 1824)** – *Tortrix viridana* (Mirchev et al. 1999); *Yponomeuta malinellus* (Trenchev 1980d).

***Actia nigroscutellata* Lundbeck, 1927** – *Tortrix viridana* (Trenchev 1980d).

***Actia pilipennis* (Fallén, 1810)** – *Aleimma loeflingiana* (Mamun 1978, Trenchev 1980d); *Tortrix viridana* (Ganchev 1977, Mamun 1978, Trenchev 1980d).

***Peribaea apicalis* Robineau-Desvoidy, 1863** – *Operophtera brumata* (Mirchev et al. 2000).

***Peribaea tibialis* (Robineau-Desvoidy, 1851)** [*exoleta* (Meigen of Schiner, 1862)]; *Actia*, *Strobliomyia*] – *Ennomos autumnaria*, *Ennomos quercinaria* (Mamun 1978, Trenchev 1980d); *Yponomeuta malinellus* (Trenchev 1980d).

***Ceranthia lichtwardtiana* (Villeneuve, 1931)** – *Eupithecia undata* (Ziegler 1989).

***Bithia modesta* (Meigen, 1824)** [*Rhinotachina*] – *Pyropteron triannuliformis* (Mückstein et al. 2007).

Leskia aurea (Fallén, 1820) – *Paranthrene tabaniformis* (Georgiev 2000b, 2000c); *Synanthedon myopaeformis* (Dirimanov & Sengalevich 1963, 1969), *Synanthedon vespiiformis* (Dirimanov & Sengalevich 1969).

Subfamily Dexiinae

Billaea adelpha (Loew, 1873) [*B. subrotundata* (Rondani, 1862)] – *Prionus coriarius* (Doychev et al. 2019).

Billaea irrorata (Meigen, 1826) – *Saperda populnea* (Tsankov et al. 1989, Tsankov & Georgiev 1991b, Georgiev & Delkov 1997, Georgiev 1998b, 2000b, 2001, Georgiev et al. 2004).

Billaea triangulifera (Zetterstedt, 1844) – *Acanthocinus griseus* (Hubenov et al. 2001); *Prionus coriarius* (Doychev et al. 2019).

Blepharomyia pagana (Meigen, 1824) [*B. ampli-cornis* (Zetterstedt, 1844)] – *Agriopis aurantiaria*, *Alsophila aceraria*, *Alsophila aescularia* (Ganchev 1977, 1989, Mamun 1978); *Erannis defoliaria* (Ganchev 1977, 1989).

Blepharomyia piliceps (Zetterstedt, 1859) – *Lymantria dispar* (Mamun 1978).

Ramonda spathulata (Fallén, 1820) [*Wagneria*] – ? *Periclista albida* (Mamun 1978).

Voria ruralis (Fallén, 1810) [*Plagia*] – *Autographa gamma* (Trenchev 1980c).

Cyrtophloebe ruricola (Meigen, 1824) – *Autographa gamma* (Dochkova 1971, 1972); *Lacanobia oleracea* (Dochkova 1971).

Halydaia aurea Egger, 1856 – *Spilosoma lubricipeda* (Lavchiev et al. 1977).

Dufouria nigrata (Fallén, 1810) – *Oulema melanopus* (Trenchev 1980c, Pavlov 1981).

Subfamily Phasiinae

Eliozeta helluo (Fabricius, 1805) [*Clytiomyia*, *Heliozeta*] – *Aelia* sp. (Lazarov et al. 1969, Kaytazov 1971a); *Eurygaster austriaca* (Grigorov 1959); *Eurygaster integriceps* (Kaytazov 1971a, Trenchev 1980b, Hubenov 1983b, Harizanova & Harizanov 1997); *Eurygaster* sp. (Kaytazov 1971a, Lazarov et al. 1969, Hubenov 1983b).

Ectophasia crassipennis (Fabricius, 1794) [*Phasia*] – *Aelia* sp. (Lazarov et al. 1969, Kaytazov 1971a); *Eurygaster integriceps* (Hubenov 1983b); *Eurygaster* sp. (Lazarov et al. 1969, Kaytazov 1971a).

Ectophasia oblonga (Robineau-Desvoidy, 1830) [*E. rubra* (Girschner, 1888; *Phasia*)] – *Eurygaster integriceps* (Hubenov 1983b).

Elomya lateralis (Meigen, 1824) [*Ananta*, *Helomyia*] – *Aelia* sp. (Lazarov et al. 1969, Kaytazov 1971a); *Eurygaster austriaca* (Grigorov 1959); *Eurygaster* sp. (Lazarov et al. 1969, Kaytazov 1971a).

Phasia obesa (Fabricius, 1798) [*Alophora*, *Alophorella*, *Hyalomyia*] – *Canthophorus melanopterus* (Hubenov 1983a).

Phasia subcoleoprata (Linnaeus, 1767) [*Alophora*] – *Aelia* sp. (Lazarov et al. 1969, Kaytazov 1971a); *Eurygaster integriceps* (Harizanova & Harizanov 1997); *Eurygaster* sp. (Lazarov et al. 1969, Kaytazov 1971a).

Trichopoda pennipes (Fabricius, 1781) – *Nezara viridula* (Hristozova & Harizanova 2022).

Hosts of species of family Tachinidae

Heteroptera

Cydnidae

Canthophorus melanopterus (Herrich-Schäffer, 1835) – *Phasia obesa*.

Pentatomidae

Aelia sp. – *Ectophasia crassipennis*, *Eliozeta helluo*, *Elomya lateralis*, *Phasia subcoleoprata*.

Nezara viridula (Linnaeus, 1758) – *Trichopoda pennipes*.

Scutelleridae

Eurygaster sp. – *Ectophasia crassipennis*, *Eliozeta helluo*, *Elomya lateralis*, *Phasia subcoleoprata*.

Eurygaster austriaca (Schrank, 1776) – *Eliozeta helluo*, *Elomya lateralis*, *Phasia subcoleoprata*.

Eurygaster integriceps Puton, 1881 – *Ectophasia crassipennis*, *Ectophasia oblonga*, *Eliozeta helluo*.

Coleoptera

Cerambycidae

Acanthocinus griseus (Fabricius, 1792) – *Billaea triangulifera*.

Prionus coriarius (Linnaeus, 1758) – *Billaea adelpha*, *Billaea triangulifera*.

Saperda populnea (Linnaeus, 1758) – *Billaea irrorata*.

Chrysomelidae

Agelastica alni (Linnaeus, 1758) – *Meigenia mutabilis*, *Meigenia uncinata*.

Chrysolina didymata (L.G. Scriba, 1791) – *Macquartia tessellum*.

Colaphus sophiae (Schaller, 1783) – *Macquartia dispar*, *Macquartia tessellum*.

Diorhabda elongata (Brullé, 1832) – *Erynniopsis antennata*.

Galeruca tanaceti (Linnaeus, 1758) – *Cleonice callida*.

Gonioctena linnaeana (Schrank, 1781) – *Meigenia mutabilis*.

Leptinotarsa decemlineata Say, 1824 – *Meigenia mutabilis*.

Oulema melanopus (Linnaeus, 1758) – *Dufouria nigrata*.

Plagiosterna aenea (Linnaeus, 1758) – *Meigenia mutabilis*.

Xanthogaleruca luteola (O.F.Müller, 1766) – *Erynniopsis antennata*.

Hymenoptera

Diprionidae

Diprion pini (Linnaeus, 1758) – *Blondelia nigripes*, *Drino inconspicua*, *Parasetigena* sp. ? (*Phorocera* sp.).

Gilpinia sp. – *Diplostichus janitrix*.

Tenthredininae

- Athalia cordata* Serville, 1823 – *Vibrissina turrata*.
Periclista albida (Klug, 1816) – *Ramonda spathulata*.
Pristiphora erichsonii (Hartig, 1837) – *Myxexoristops blondeli*.
Tenthredo scrophulariae Linnaeus, 1758 – *Exorista rustica*.

Lepidoptera**Brahmaeidae**

- Lemonia balcanica* (Herrich-Schäffer, 1847) – *Tryphera lugubris*.

Cossidae

- Cossus cossus* (Linnaeus, 1758) – *Masicera pavoniae*, *Tachina* sp., *Xylotachina diluta*.

Crambidae

- Loxostege sticticalis* (Linnaeus, 1761) – *Exorista civilis*, *Exorista mimula*.
Ostrinia nubilalis (Hübner, 1796) – *Eumea mitis*, *Lydella grisea*, *Lydella thompsoni*.

Erebidae

- Arctia caja* (Linnaeus, 1758) – *Carcelia lucorum*.
Calyptra thalictri (Borkhausen, 1790) – *Compsilura concinnata*.
Dicallomera fascelina (Linnaeus, 1758) – *Carcelia tibialis*, *Sturmia bella*.
Euproctis chrysorrhoea (Linnaeus, 1758) – *Blepharipa pratensis*, *Blondelia inclusa*, *Blondelia nigripes*, *Carcelia laxifrons*, *Compsilura concinnata*, *Exorista larvarum*, *Masicera pavoniae*, *Pales pavidata*, *Tachina praeceps*, *Townsendiellomyia nidicola*, *Zenillia libatrix*.
Hyphantria cunea (Drury, 1773) – *Compsilura concinnata*, *Exorista xanthaspis*, *Pales pavidata*.
Laelia coenosa (Hübner, 1808) – *Exorista larvarum*.
Leucoma salicis (Linnaeus, 1758) – *Carcelia gnava*, *Compsilura concinnata*, *Exorista larvarum*, *Exorista mimula*, *Pales pavidata*.
Lymantria dispar (Linnaeus, 1758) – *Baumhaeria goniaeformis*, *Blepharipa pratensis*, *Blepharomyia piliceps*, *Blondelia inclusa*, *Blondelia nigripes*, *Carcelia gnava*, *Compsilura concinnata*, *Drino gilva*, *Drino inconspicua*, *Exorista grandis*, *Exorista larvarum*, *Exorista segregata*, *Pales pavidata*, *Parasetigena silvestris*, *Phryxe magnicornis*, *Senometopia excisa*, *Senometopia separata*, *Tachina fera*, *Zenillia libatrix*.
Penthophora morio (Linnaeus, 1767) – *Exorista larvarum*.
Phragmatobia fuliginosa (Linnaeus, 1758) – *Hubneria affinis*.
Spilosoma lubricipeda (Linnaeus, 1758) – *Halydaia aurea*, *Hubneria affinis*.

Geometridae

- Agriopsis aurantiaria* (Hübner, 1799) – *Blepharomyia pagana*, *Phryxe magnicornis*.

- Agriopsis bajaria* (Denis & Schiffermüller, 1775) – *Phryno vetula*.

- Agriopsis marginaria* (Fabricius, 1776) – *Blondelia nigripes*, *Lypha* sp.

- Alsophila aceraria* (Denis & Schiffermüller, 1775) – *Blepharomyia pagana*, *Blondelia nigripes*.

- Alsophila aescularia* (Denis & Schiffermüller, 1775) – *Blepharomyia pagana*, *Blondelia nigripes*, *Pales pavidata*.

- Colotois pennaria* (Linnaeus, 1761) – *Blondelia nigripes*.

- Ennomos autumnaria* (Werneburg, 1859) – *Peribaea tibialis*.

- Ennomos quercinaria* (Hufnagel, 1767) – *Peribaea tibialis*.

- Erannis defoliaria* (Clerck, 1759) – *Blepharomyia pagana*, *Blondelia nigripes*, *Phryxe magnicornis*, *Phryxe nemea*, *Phryxe vulgaris*.

- Eupithecia undata* (Freyer, 1840) – *Ceranthia lichtwardtiana*.

- Lycia hirtaria* (Clerck, 1759) – *Phryxe magnicornis*, *Phryxe vulgaris*.

- Operophtera brumata* (Linnaeus, 1758) – *Blondelia nigripes*, *Lypha* sp. [? *L. dubia*], *Peribaea apicalis*, *Phorocera obscura*, *Phryxe magnicornis*, *Phryxe nemea*.

- Perconia strigillaria* (Hübner, 1787) – *Blondelia nigripes*.

- Scopula immistaria* (Herrich-Schäffer, 1852) – *Exorista civilis*.

- Geometridae – *Lypha* sp. [? *L. dubia* (Fallén, 1810)].

Noctuidae

- Acronicta megacephala* (Denis & Schiffermüller, 1775) – *Compsilura concinnata*.

- Acronicta tridens* (Denis & Schiffermüller, 1775) – *Nilea hortulana*.

- Agrotis ipsilon* (Hufnagel, 1766) – *Gonia bimaculata*, *Linnaemya compta*.

- Agrotis segetum* (Denis & Schiffermüller, 1775) – *Tachina magnicornis*.

- Autographa gamma* (Linnaeus, 1758) – *Carcelia tibialis*, *Cnephautachina* sp. [? *Cnephautachina danilevskyi*], *Cyrtophloeoba ruricola*, *Nemorilla floralis*, *Phryxe nemea*, *Pseudogonia parisiaca*, *Spallanzania hebes*, *Voria ruralis*, *Winthemia quadripustulata*.

- Cosmia trapezina* (Linnaeus, 1758) – *Blondelia nigripes*.

- Euxoa temera* (Hübner, 1808) – *Exorista civilis*, *Exorista larvarum*, *Exorista xanthaspis*, *Drino atropivora*, *Gonia capitata*, *Linnaemya compta*, *Tachina fera*, *Tachina magnicornis*.

- Euxoa tritici* (Linnaeus, 1761) – *Peleteria rubea*, *Tachina magnicornis*.

- Helicoverpa armigera* (Hübner, 1805) – *Winthemia quadripustulata*.

- Heliothis maritima* Graslin, 1855 – *Exorista xanthaspis*, *Masicera sphingivora*.

- Lacanobia oleracea* (Linnaeus, 1758) – *Cyr-*

tophloeoba ruricola, *Exorista larvarum*, *Nemorilla floralis*, *Phorocera assimilis*, *Phryxe nemea*, *Spallanzania hebes*.

Mamestra brassicae (Linnaeus, 1758) – *Blondelia nigripes*, *Carcelia lucorum*, *Eurithia consobrina*, *Exorista larvarum*, *Exorista mimula*, *Exorista nova*, *Exorista rustica*, *Linnaemya picta*.

Mamestra sp. – *Exorista rustica*

Orthosia cruda (Denis & Schiffermüller, 1775) – *Blondelia nigripes*, *Compsilura concinnata*.

Orthosia incerta (Hufnagel, 1766) – *Blondelia nigripes*.

Plusia sp. – *Pseudogonia parisiaca*.

Gelechiidae

Anacamptis populella (Clerck, 1759) – *Carcelia gnava*.

Gelechia turpella (Denis & Schiffermüller, 1775) – *Pseudoperichaeta nigrolineata*.

Lasiocampidae

Eriogaster lanestris (Linnaeus, 1758) – *Compsilura concinnata*, *Pales pavidata*.

Gastropacha quercifolia (Linnaeus, 1758) – *Exorista larvarum*.

Malacosoma neustria (Linnaeus, 1758) – *Baumhaueria gonaeformis*, *Blondelia nigripes*, *Carcelia gnava*, *Carcelia laxifrons*, *Compsilura concinnata*, *Exorista larvarum*, *Pales pavidata*, *Phryxe magnicornis*, *Phryxe nemea*, *Thelyconychia solivaga*, *Townsendiellomyia nidicola*, *Winthemia quadripustulata*, *Zenillia libatrix*.

Lasiocampidae – *Carcelia gnava*.

Lycaenidae

Callophrys rubi (Linnaeus, 1758) – *Aplomya confinis*.

Notodontidae

Thaumetopoea pityocampa (Denis and Schiffermüller, 1775) – *Compsilura concinnata*, *Exorista fasciata*, *Exorista segregata*, *Phorocera grandis*, *Phryxe vulgaris*, *Zenillia libatrix*.

Thaumetopoea processionea Linnaeus, 1758 – *Blondelia nigripes*, *Carcelia iliaca*, *Compsilura concinnata*, *Eumea linearicornis*, *Pales pavidata*, *Platymya fimbriata*, *Zenillia libatrix*.

Thaumetopoea solitaria (Freyer, 1838) – *Compsilura concinnata*, *Ligeriella aristata*, *Prosopaea nigricans*.

Nymphalidae

Aglais io (Linnaeus, 1758) – *Aplomya confinis*, *Drino atropivora*.

Aglais urticae (Linnaeus, 1758) – *Aplomya confinis*.

Vanessa atalanta (Linnaeus, 1758) – *Sturmia bella*.

Papilionidae

Papilio machaon Linnaeus, 1758 – *Buquetia musca*.

Parnassius apollo (Linnaeus, 1758) – *Exorista de-*

ligata.

Pieridae

Aporia crataegi (Linnaeus, 1758) – *Compsilura concinnata*.

Pyralidae

Acrobasis consociella (Hübner, 1813) – *Elodia morio*, *Pseudoperichaeta nigrolineata*, *Zenillia libatrix*.

Saturniidae

Saturnia pavonia (Linnaeus, 1758) – *Exorista nova*.

Saturnia pyri (Denis & Schiffermüller, 1775) – *Masicera pavoniae*, *Nilea hortulana*.

Saturnia spini (Denis & Schiffermüller, 1775) – *Drino atropivora*.

Sphingidae

Acherontia atropos (Linnaeus, 1758) – *Sturmia bella*, *Thelyconychia solivaga*.

Hyles livornica (Esper, 1780) – *Lydella thompsoni*.

Laothoe populi (Linnaeus, 1758) – *Exorista grandis*.

Smerinthus ocellata (Linnaeus, 1758) – *Exorista grandis*, *Exorista nova*.

Sphinx pinastri (Linnaeus, 1758) – *Phryxe vulgaris*, *Zenillia dolosa*.

Sesiidae

Paranthrene tabaniformis (Rottemburg, 1775) – *Leskia aurea*, *Phytomyptera nigrina*.

Pyropteron triannuliformis (Freyer, 1843) – *Bithia modesta*

Synanthedon myopaeformis (Borkhausen, 1789) – *Leskia aurea*.

Synanthedon tipuliformis (Clerck, 1759) – *Pelatachina tibialis*.

Synanthedon vespiformis (Linnaeus, 1761) – *Leskia aurea*.

Tortricidae

Acleris bergmanniana (Linnaeus, 1758) – *Nemorilla floralis*.

Aleimma loeflingiana (Linnaeus, 1758) – *Actia pilipennis*.

Archips crataegana (Hübner, 1799) – *Bessa paralela*, *Compsilura concinnata*, *Elodia morio*, *Eumea linearicornis*, *Phebellia nigripalpis*.

Archips rosana (Linnaeus, 1758) – *Blondelia nigripes*, *Eumea linearicornis*, *Nemorilla floralis*, *Tachina* sp.

Archips xylosteana (Linnaeus, 1758) – *Blondelia nigripes*, *Compsilura concinnata*, *Elodia morio*, *Eumea linearicornis*, *Eurysthaea scutellaris*, *Nemorilla floralis*, *Nemorilla maculosa*, *Pseudoperichaeta nigrolineata*, *Zenillia libatrix*.

Cydia pomonella (Linnaeus, 1758) – *Elodia morio*.

Eudemis profundana (Denis & Schiffermüller,

1775) – *Bessa parallela*.

Gypsonoma minutana (Hübner, 1799) – *Phytomyza nigrina*.

Hedya nubiferana (Haworth, 1811) – *Nemorilla floralis*.

Hedya salicella (Linnaeus, 1758) – *Pseudoperichaeta palesoidea*.

Lobesia botrana (Denis & Schiffermüller, 1775) – *Nemorilla floralis*.

Notocelia roborana (Denis & Schiffermüller, 1775) – *Nemorilla floralis*, *Tachina* sp.

Pandemis cerasana (Hübner, 1786) – *Eumea linearicornis*.

Pandemis heparana (Denis & Schiffermüller, 1775) – *Nemorilla floralis*.

Ptycholoma lecheana (Linnaeus, 1758) – *Carcelia lucorum*, *Phryxe nemea*.

Rhyacionia sp. – *Blepharipa pratensis*.

Rhyacionia buoliana (Denis & Schiffermüller, 1775) – *Pseudoperichaeta nigrolineata*.

Spilonota ocellana (Denis & Schiffermüller, 1775) – *Carcelia lucorum*, *Nemorilla floralis*.

Tortrix viridana Linnaeus, 1758 – *Actia crassicornis*, *Actia nigroscutellata*, *Actia pilipennis*, *Bessa parallela*, *Blondelia nigripes*, *Carcelia stackelbergi*, *Elo-dia morio*, *Eumea linearicornis*, *Eurysthaea scutellaris*, *Myxexoristops blondeli*, *Nemorilla maculosa*, *Platymya fimbriata*.

Yponomeutidae

Yponomeuta cagnagella (Hübner, 1813) – *Eurysthaea scutellaris*.

Yponomeuta evonymella (Linnaeus, 1758) – *Eurysthaea scutellaris*.

Yponomeuta malinellus (Zeller, 1838) – *Actia crassicornis*, *Bessa parallela*, *Bactromyia aurulenta*, *Carcelia rasa*, *Eurysthaea scutellaris*, *Peribaea tibialis*.

Yponomeuta padella (Linnaeus, 1758) – *Eurysthaea scutellaris*.

Yponomeuta rorrella (Hübner, 1796) – *Eurysthaea scutellaris*.

Zygaenidae

Theresimima ampelophaga (Bayle-Barelle, 1898) – *Zenillia libatrix*.

Zygaena carniolica (Scopoli, 1763) – *Phryxe prima*.

Discussion

The parasitofauna of the hosts that are pests in the agroecosystems or forests is better studied. In many cases, the isolation of tachinids from hosts has occurred without specific studies and is often connected with the rearing of butterflies for collection purposes. The hosts of many species of family Tachinidae are unknown or only a small number of them have been found. This refers mainly to the

rarer species. The establishment of new trophic relationships of the tachinids can be expected, having in mind the widespread polyphagy in the family. The species *Blondelia nigripes* and *Compsilura concinnata* are associated with the largest number of hosts and are considered hyperpolyphagous. They have been established as parasitoids in over 150 species of the orders Hymenoptera and Lepidoptera and have been introduced to other continents where they have acquired new hosts (Herting 1960, Tschorsnig 2017). The monophagy and oligophagy of Tachinidae are poorly presented and are often connected with lack of data about the hosts of the respective species. The percentage of the parasitised hosts in the family Tachinidae varies widely and sometimes exceeds 70-80%. A low (below 10-15%) or medium (about 20-25%) percentage is more common. A high percentage (over 50%) is rarer and one such example is the parasitising of *Eurygaster integriceps* on *Eliozeta helluo* (this percentage exceeds 50% and in the female bugs it reaches 100%: Harizanov & Harizanova 1997). A percentage of about 50% is observed in the parasitising of *Billaea irrorata* on *Saperda populnea* (Georgiev 1998b).

Conclusion

A total of 135 publications containing data on the hosts of family Tachinidae from Bulgaria were analysed. A total of 127 host species from 27 families of 118 species of tachinids were reported. The families Geometridae, Noctuidae and Tortricidae are the most numerous (from 15 to 19 species). The species of the family Tachinidae with their hosts are presented and the hosts with tachinids parasitising on them are scrutinised. For each species, the literature sources from which the host data have been taken are given (regardless of the reliability of their identification). The establishment of new tachinid hosts is expected, having in mind the widespread polyphagy in the family.

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Received: 25.07.2024
Accepted: 07.11.2024