



## State of knowledge of the tachinid fauna of Eastern Asia, with new data from North Korea. Part V. Exoristinae

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**Abstract:** The present paper is a continuation of earlier papers concerning the Tachinidae collected in North Korea by six expeditions of researchers from the Institute of Zoology PAS, Warsaw, Poland. Twenty four species representing 20 genera of the subfamily Exoristinae have been identified in the material collected. Eighteen species are reported in the fauna of Korea for the first time..

**Key words:** Diptera, Tachinidae, Exoristinae, new data, North Korea

### INTRODUCTION

The first part of this paper (Draber-Mońko 2008) was concerned with the Tachinidae belonging to the subfamily Phasiinae. The second part (Draber-Mońko 2011) was concerned with the Tachinidae belonging to the subfamily Tachininae. The third part paper (Draber-Mońko 2012) was a supplement to the first part. The fourth part (Draber-Mońko 2015) was concerned with the Tachinidae belonging to the subfamily Dexiinae.

The present paper is devoted to the tachinid species belonging to the subfamily Exoristinae. The Exoristinae are the largest subfamily with over 700 species recorded from the Palaearctic Region (Herting & Dely-Draskovits 1993, Ziegler & Shima 1996, Richter 2004, Han et al. 2014, Shima 2014), over 280 species from the Russian Far East (Ziegler & Shima 1996, Richter 2004), over 280 species from Japan (Shima 2014), more than 570 species from China (O'Hara, Shima & Zhang 2009), over 590 species from the Nearctic Region (O'Hara & Wood 2004), more than 1320 species from Neotropical (Guimarães 1971) and over 380 species from Oriental Region (Crosskey 1977).

Dipterists subdivide the subfamily Exoristinae into six or more, even several dozen tribes. In the Palaearctic Region these are: Exoristini, Blondeliini, \*Acemyini, \*Ethillini, Winthemiini, Eryciini, Goniini (Herting & Dely-Draskovits 1993, Richter 2004). Those marked with an asterisk are not recorded from the Korean Peninsula.

Lepidoptera, Coleoptera and Hymenoptera are most frequent hosts of Exoristinae species, but Dermoptera, Mantodea, Orthoptera and Phasmiida are also known as hosts.

Species of the tribe Exoristini are all oviparous and they deposit unincubated eggs with a hard planoconvex chorion directly on the hosts exoskeleton. Flies of the tribe Blondeliini are divergent in ovipositing habits. They are oviparous or ovolarviparous directly depositing on the hosts exoskeleton, or haemocoel or in the vicinity of their hosts. Species of the tribe Ethillini are all oviparous. Females lay unincubated eggs directly of the hosts exoskeleton. Flies of the tribe Winthemiini are oviparous and females lay unincubated eggs with a hard planoconvex chorion on the exoskeleton of host larvae. Species of the tribe Eryciini are oviparous or ovolarviparous. In both cases eggs are deposited directly of the hosts exoskeleton. Flies of the tribe Goniini are all micro-ovolarviparous. Females lay incubated micotype eggs (0.2 mm or less in length) with a hard chorion on the host plants of host insects (Shima 1999).

## MATERIAL AND METHODS

The Exoristinae flies were collected during six expeditions in North Korea: in 1959, 1965, 1966, 1970, 1987 and 1990. Detailed descriptions of these expeditions are in Mroczkowski (1972) and in Bańkowska & Sterzyńska (1997). The locations of the sampling areas in North Korea were presented previously (Draber-Mońko 2015: Fig. 1).

The scanty material of the Exoristinae, considered here, includes 31 specimens collected with a sweeping net or by using Moericke's yellow traps placed on grass and in brushwood.

The current list of Exoristinae flies from Korea has been supplemented with the species mentioned by other authors: Aldrich 1928, Nakayama 1929, Doi 1938, Shima 1968, 1980, 1983, 1984, 1996, 2006, 2014, Kim & Kim 1971, Kim & Kim 1972, Kim & Nam 1978, Lee & Kwon 1981, Kim 1981, Hirashima 1989, Fan 1992, Pemberton et al. 1993, Park et al. 1998, Chao & Xue 1998, Paek et al. 2010, Lee et al. 2007, 2008, 2010, Liu et al. 1998, Han et al. 2004, O'Hara, Shima & Zhang 2009, Byun & Han 2009, 2011, Byun 2010, Cerretti et al. 2011, and Han et al. 2014.

The systematic arrangement of the present paper follows that provided by Tschorsnig & Richter 1998, Richter 2004, O'Hara, Shima & Zhang 2009.

The general distribution data are given after: Herting & Dely-Draskovits 1993, Richter 2004 and O'Hara, Shima & Zhang 2009.

The specimens identified are deposited in the Museum and Institute of Zoology PAS (Warsaw). The species new to Korea have been marked with an asterisk (\*).

## SYSTEMATIC REVIEW OF SPECIES

## Subfamily Exoristinae

## Tribe Blondeliini

*Blondelia* Robineau-Desvoidy, 1830***Blondelia nigripes* (Fallén, 1810)**

*Tachina nigripes* Fallén, 1810: 283. Type locality: Sweden.

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, W. and E. Siberia, S. Far East (Primorsk Territory), Sakhalin, South Kuril Islands (Kunashir, Shikotan) (Richter 2004), M. East, C. Asia, Mongolia, China Provinces: Heilongjiang, Jilin, Liaoning, Inner Mongolia, Hebei, Beijing, Shanxi, Gansu, Qinghai, Ningxia Huizu A.R., Xinjiang Uygur A.R., Shanghai, Sichuan, Shaanxi, Xizang A.R., Japan (Hokkaidō, Honshū, Shikoku, Kyūshū) (O'Hara, Shima & Zhang 2009), Korea (Shima 1984); Oriental: China (Yunnan Prov.) (O'Hara, Shima & Zhang 2009).

*Compsilura* Bouché, 1834***Compsilura concinnata* (Meigen, 1824)**

*Tachina concinnata* Meigen, 1824: 412. Type locality: not given (probably Hamburg, Germany).

Material examined: North Korea, Chŏngdŏn-si Prov., Kjöngsŏng distr., Onpho-ri ad Chŏngdŏn, 14. 08. 1959, 1 female, leg. B. Pisarski and J. Prószyński.

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, S. Siberia) (Richter 2004), M. East, C. Asia, China (distributed almost all over the country, but has not

been recorded from Provinces: Gansu, Henan, Hong Kong S.A.R., Hubei, Macao S.A.R., Qinghai, Shaanxi, Xinjiang Uygur A.R., Japan (Hokkaidō, Honshū, Shikoku, Kyūshū, Tsushima Is.) (O'Hara, Shima & Zhang 2009, Shima 2014), Korea (Kim & Nam 1978, Byun 2010); Oriental: Japan (Ryukyu Is.), Taiwan, China Provinces: Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Jiangxi, Yunnan, Zhejiang, India, Indonesia (Jawa, Sulawesi), Malaysia (Pen. Malaysia, E. Malaysia), Nepal, Philippines, Thailand; Australasian: Australia, Papua N.G.; Afrotropical: widespread; Nearctic: introduced and widespread in northeast, also British Columbia to California (O'Hara, Shima & Zhang 2009).

*Compsiluroides* Mesnil, 1953

***Compsiluroides flavipalpis* Mesnil, 1957\***

*Compsiluroides flavipalpis* Mesnil, 1957: 22. Type locality: Japan, Hokkaido, Obihiro.

Material examined: North Korea, N. Hamgyong Prov., Chōngdžin-City, Kyowon-ri, 16. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Russia S. Far East (Primorsk Territory), South Kuril Islands (Kunashir) (Richter 2004), Japan (Hokkaidō, Honshū, Shikoku, Kyūshū), China Provinces (Sichuan, Shaanxi); Oriental: China Provinces (Guangdong, Guizhou, Yunnan) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Drinomyia* Mesnil, 1962

***Drinomyia hokkaidensis* (Baranov, 1935)**

*Vibrissina hokkaidensis* Baranov, 1935: 554. Type locality: Japan, Hokkaido, Sapporo.  
*Oswaldia bicoloripes* Mesnil, 1957: 23. Type locality: Japan, Hokkaido, Obihiro.

Distribution: Palaearctic: Russia S. Far East (Primorsk Territory), South Kuril Islands (Kunashir) (Richter 2004), Japan (Chishima Is., Hokkaidō, Honshū, Kyūshū, Tsushima Is.) (Shima 2014), Korea (Shima 1980, Paek et al., 2010), China Provinces (Beijing, Guizhou, Hebei, Liaoning, Inner Mongolia, Shaanxi, Shanxi, Tianjin, Tibet) (O'Hara, Shima & Zhang 2009).

*Istochoeta* Rondani, 1859

***Istochoeta aldrichi* (Mesnil, 1953)**

*Hyperecteina aldrichi* Mesnil, 1953: 50. Type locality: Japan, Honshū.

Distribution: Palaearctic: Russia S. Far East, South Kuril Islands (Kunashir) (Richter 2004), Japan (Hokkaidō, Honshū, Shikoku, Kyūshū, Chishima Is.) (Shima 2014), Korea (Hirashima 1989, Paek et al., 2010); Oriental: Taiwan; Nearctic: introduced and established in New York and Massachusetts to District of Columbia (O'Hara, Shima & Zhang 2009).

***Istochoeta unicolor* (Aldrich, 1928)**

*Centeter unicolor* Aldrich, 1928: 7. Type locality: Korea, Suigen.

Distribution: Palaearctic: Russian S. Far East (Primorsk Territory) (Richter 2004), Korea (Aldrich 1928, Byun 2010).

*Lixophaga* Townsend, 1908

***Lixophaga cinctella* (Mesnil, 1957)**

*Lomatacantha cinctella* Mesnil, 1957: 24. Type locality: Japan, Hokkaido, Obihiro.

Distribution: Palaearctic: Japan (Hokkaido, Honshu) (Shima 2014), Korea (Byun & Han 2011), China (Sichuan Prov.) (O'Hara, Shima & Zhang 2009).

***Lixophaga latigena* Shima, 1979**

*Lixophaga latigena* Shima, 1979: 308. Type locality: Japan, Ryukyu Islands, Toku-no-shima, Asahigaoka.

Distribution: Palaearctic: Japan (Honshu, Kyushu) (Shima 2014), Korea (Byun and Han 2011), China Provinces (Anhui, Liaoning, Tibet) (O'Hara, Shima & Zhang 2009); Oriental: China Provinces (Guangxi Zhuangzu A.R., Yunnan), Japan (Ryukyu Islands) (Shima 2014, O'Hara, Shima & Zhang 2009).

*Medina* Robineau-Desvoidy, 1830

***Medina luctuosa* (Meigen, 1824)**

*Tachina luctuosa* Meigen, 1824: 347. Type locality: not given (probably Germany, Stolberg).

Distribution: Palaearctic: Europe (all), Russia: European Territory, E. Siberia (Chita Prov.), S. Far East (Amur Prov., Primorsk Territory, South Kuril Islands (Kunashir) (Richter 2004), Japan (Hokkaido, Honshu) (Shima 2014), Korea (Park et al. 1996, Byun 2010), China: Liaoning Prov., Transcaucasia; Oriental: China Provinces (Guangdong, Yunnan) (O'Hara, Shima & Zhang 2009).

***Medina separata* (Meigen, 1824)\***

*Tachina separata* Meigen, 1824: 406. Type locality: not given (probably Germany, Kiel).

Material examined: North Korea, Kangvön-do Prov., Kūmgang-san Mts., Onjong-ri near Kūmgang-san hotel, 23-25. 06. 1990, 2 females, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Europe (all), Russia: E. Siberia (Chita Prov.), Far East (Primorsk Territory) (Richter 2004), Japan (Hokkaido, Honshu), China (Shanxi Prov.) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Meigenia* Robineau-Desvoidy, 1830

***Meigenia tridentata* Mesnil, 1961\***

*Meigenia tridentata* Mesnil, 1961: 703. Type locality: China, Heilongjiang, Datudinzsa.

Material examined: North Korea, Chõngdžin-si Prov., Kjøngsõng distr., Onpho-ri ad Chõngdžin, 16. 08. 1959, 1 male, leg. B. Pisarski and J. Prószyński.

Distribution: Palaearctic: Russia: Far East (Amur Prov., Khabarovsk Territory and Primorsk Territory) (Richter 2004), China Provinces: Beijing M., Heilongjiang, Hubei, Liaoning, Sichuan, Shaanxi, Shanxi, Tibet; Oriental: China Provinces: Guangxi Zhuangzu A.R., Guizhou, Hunan, Jiangxi, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Metadrinomyia* Shima, 1980

***Metadrinomyia flavifrons* Byu et Han, 2009**

*Metadrinomyia flavifrons* Byu et Han, 2009: 57. Type locality: South Korea.

Distribution: Palaearctic: Korea (Byu et Han, 2009, Paek et al., 2010).

***Metadrinomyia proclinata* Shima, 1980**

*Metadrinomyia proclinata* Shima, 1980: 261. Type locality: Japan, Tsushima.

Distribution: Palaearctic: Russia: Far East (Primorsk Territory) (Richter 2004), Japan (Tsushima Island) (Shima 2014), Korean Peninsula (Shima 1980, Byu et Han, 2009, Paek et al., 2010).

***Metadrinomyia xanthokolos* Byu et Han, 2009**

*Metadrinomyia xanthokolos* Byu et Han, 2009: 61. Type locality: South Korea.

Distribution: Palaearctic: Korea (Byu et Han, 2009, Paek et al., 2010).

*Oswaldia* Robineau-Desvoidy, 1863

***Oswaldia hirsuta* Mesnil, 1970**

*Oswaldia hirsuta* Mesnil, 1970: 115. Type locality: Japan, Hokkaido, Nukabira.

Distribution: Palaearctic: Japan (Hokkaidō, Honshū, Kyūshū) (Shima 2014), Korea (Hirashima 1989, Paek et al., 2010), China: Heilongjiang Prov., Liaoning Prov. (O'Hara, Shima & Zhang 2009).

***Oswaldia muscaria* (Fallén, 1810)\***

*Tachina muscaria* Fallén, 1810: 272. Type locality: Sweden.

Material examined: North Korea, Chŏngdžin-si Prov., Purjŏng distr., Musu-ri, ad river Susŏng-čhŏn, 1. 06. 1965, 1 female, leg. M. Mroczkowski and A. Riedel.

Distribution: Palaearctic: Europe (all), Russia: Far East (Khabarovsk Territory, Primorsk Territory, Sakhalin, South Kuril Islands (Kunashir) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), Taiwan, China: Heilongjiang Prov., Liaoning Prov.; Oriental: China: Yunnan Prov. (O'Hara, Shima & Zhang 2009). First record from Korea.

*Prodegeeria* Brauer et Bergenstamm, 1894

***Prodegeeria japonica* (Mesnil, 1957)**

*Promedina japonica* Mesnil, 1957: 26. Type locality: Japan, Hokkaido, Obihiro.

Distribution: Palaearctic: Russia: Far East (Khabarovsk Territory, Primorsk Territory, Sakhalin, South Kuril Islands (Kunashir, Shikotan) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), S. Korea (Hirashima 1989, Herting & Dely-Draskovits 1993, Paek et al. 2010), China Provinces (Beijing M., Jilin, Liaoning, Sichuan, Shaanxi); Oriental: China Provinces (Guangdong, Hunan, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009).

*Trigonospila* Pokorný, 1886***Trigonospila ludio* (Zetterstedt, 1849)**

*Tachina ludio* Zetterstedt, 1849: 3233. Type locality: Denmark.

Distribution: Palaearctic: Europe: Danmark, Poland, Austrian and Italian Alps, Russia (NW. European part, E. Siberia (E. Saian Mts.), S. Far East (Primorsk Territory), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Herting & Dely-Draskovits 1993, Richter 2004, Draber-Mońko 2007, Shima 2014), Korea (Byun & Han 2010), China Provinces (Liaoning, Sichuan, Shaanxi, Shanxi, Tibet); Oriental: China Provinces (Guangxi Zhuangzu A.R., Guizhou, Hunan, Yunnan), India, Myanmar (O'Hara, Shima & Zhang 2009).

***Trigonospila transvittata* (Pandellé, 1896)**

*Succingulum transvittatum* Pandellé, 1896: 148. Type locality: France, Var Hyères.

Material examined: North Korea, Kesöng-si Prov., Kesöng-City, Kesöng near tomb of King Kongmin, 10. 08. 1987, 1 male, leg. E. Kierych.

Distribution: Palaearctic: Europe: France, Spain (Herting & Dely-Draskovits 1993), Japan (Honshu, Shikoku, Kyushu) (Shima 2014), Korea (Lee & Kwon 1981, Byun & Han 2010, Paeck et al., 2010), China (Sichuan Prov.); Oriental: Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Yunnan, Zhejiang), Japan (Ryukyus Islands), Malaysia, Thailand; Australasian: Melanesia (O'Hara, Shima & Zhang 2009).

*Vibrissina* Rondani, 1861***Vibrissina debilitata* (Pandellé, 1896)**

*Latreillia debilitata* Pandellé, 1896: 110. Type locality: France, Hautes-Pyrénées, Tarbes.

Distribution: Palaearctic: Europe, Russia (NW. Russia) (Richter 2004), Korea (Shima 1983), China Provinces: Henan, Heilongjiang, Hunan, Jilin, Liaoning, Sichuan, Shaanxi (O'Hara, Shima & Zhang 2009).

***Vibrissina turrata* (Meigen, 1824)**

*Tachina turrata* Meigen, 1824: 401. Type locality: not given ((probably Germany, Kiel and Hamburg).

Distribution: Palaearctic: Europe, Transcaucasia, the Russian S. Far East, Korean Peninsula (Shima 1983, Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu)(Shima 2014), China (distributed almost all over the country, but has not been recorded from the Provinces: Guangdong, Gansu, Hainan, Hong Kong S.A.R., Hubei, Macao S.A.R., Ningxia Huizu A.R., Qinghai, Xinjiang Uygur A.R.) (O'Hara, Shima & Zhang 2009).

*Zaira* Robineau-Desvoidy, 1830***Zaira cinerea* (Fallén, 1810)\***

*Tachina cinerea* Fallén, 1810: 268. Type locality: Sweden, Skåne, Äsperöd (as Esperöd).

Material examined: North Korea, Kangvön-do Prov., Munčhön, 12 km NW of Vönsan, 19. 09. 1970, 1 male, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctica: Europe (all), Russia (W. Russia, W. Siberia, E. Siberia, S. Far East) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku) (Shima 2014), Mongolia, China Provinces (Beijing M., Heilongjiang, Inner Mongolia, Qinghai, Shanxi) (O'Hara, Shima & Zhang 2009). First record from Korea.

## Tribe Eryciini

*Aplomya* Robineau-Desvoidy, 1830***Aplomya confinis* (Fallén, 1820)***Tachina confinis* Fallén, 1820: 32. Type locality: Sweden, Gotland.

Distribution: Palaearctic: Europe (all), Russia (W. Russia, S. Siberia, E. Siberia, S. Far East (Khabarovsk Territory, Primorsk Territory, South Kuril Island (Kunashir) (Richter 2004), Korea (Lee & Kwon 1981, Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tshushima Islands) (Shima 2014), Transcaucasia, Israel, N. Africa, M. Asia, Mongolia, China Provinces (Beijing M., Hebei, Heilongjiang, Jilin, Liaoning, Inner Mongolia, Qinghai, Sichuan, Shaanxi, Shanxi, Xinjiang Uygur A.R., Xizang A.R.; Oriental: China Provinces (Guangdong, Hainan, Yunnan); Afrotropical: Yemen (O'Hara, Shima & Zhang 2009).

*Carcelia* Robineau-Desvoidy, 1830***Carcelia (Carcelia) gnava* (Meigen, 1824)***Tachina gnava* Meigen, 1824: 330. Type locality: Sweden, Skåne, Äsperöd.

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, E. Siberia, S. Far East, Primorsk Territory, Sakhalin, South Kuril Island (Kunashir)) (Richter 2004), Korea (Kim & Kim 1972), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Beijing M., Hebei, Henan, Heilongjiang, Jilin, Liaoning, Sichuan, Shanxi); Oriental: China Provinces ( Fujian, Guangxi Zhuangzu A.R., Guizhou, Hunan, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009).

*Carcelina* Mesnil, 1944***Carcelina pallidipes* (Uéda, 1960)\****Carcelia pallidipes* Uéda, 1960: 112. Type locality: Japan, Hokkaido, Sapporo.

Material examined: North Korea, Kangvön-do Prov. Vönsan, 4. 09. 1966, 1 male, 1 female, leg. C. Dziadosz and H. Szelegiewicz.

Distribution: Palaearctic: Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Beijing M., Heilongjiang, Jilin, Liaoning, Sichuan, Shaanxi, Shanxi); Oriental: China Provinces (Fujian, Zhejiang) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Epicampocera* Macquart, 1849***Epicampocera succincta* (Meigen, 1824)***Tachina succincta* Meigen, 1824: 335. Type locality: not given (probably Germany, Stolberg).

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, S. Siberia (Tomsk Prov.), S. Far East (Primorsk Territory, South Kuril Island (Kunashir)) (Richter 2004), Korea (Kim & Kim 1972b), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Hebei, Heilongjiang, Jilin, Sichuan, Shaanxi); Oriental: China (Hunan Prov.) (O'Hara, Shima & Zhang 2009).

*Isosturmia* Townsend, 1927***Isosturmia picta* (Baranov, 1932)**

*Sturmia picta* Baranov, 1932: 77. Type locality: Taiwan, P'ingtung, Hsien, Changkou (as "Kankau", near Hengch'un).

Distribution: Palaearctic: Korea (Kim 1971, Lee et al. 1981), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tshushima Island) (Shima 2014), China Provinces (Anhui, Beijing M., Hong Kong S.A.R., Hubei, Jiangsu, Sichuan, Shanghai M., Shanxi); Oriental: Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Jiangxi, Yunnan, Zhejiang), India, Indonesia (Jawa), Malaysia (Pen. Malaysia, E. Malaysia), Nepal, Philippines, Sri Lanka, Thailand, ? Vietnam (O'Hara, Shima & Zhang 2009).

*Lydella* Robineau-Desvoidy, 1830***Lydella stabulans* (Meigen, 1824)**

*Tachina stabulans* Meigen, 1824: 306. Type locality: not given (Germany, Holstein, according to Herting 1972: 13)

Distribution: Palaearctic: Europe (all), Transcaucasia, C. Asia, Russia (W. Russia, W. Siberia, E. Siberia), China (Sichuan Prov.) (O'Hara, Shima & Zhang 2009), Korea (Nakayama 1929, Paek et al. 2010).

*Prooppia* Townsend, 1926***Prooppia agnatella* Mesnil, 1955\***

*Phebellia (Phebellia) agnatella* Mesnil, 1955: 458. Type locality: China, Jiangsu, Suzhou (as Suchow).

Material examined: North Korea, Phjǽngjang-si Prov. Jongak-san Mt., Debong ad Phjǽngjang, 7. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Japan (Hokkaido, Honshu, Kyushu) (Shima 2014), China Provinces (Hebei, Jiangsu, Liaoning, Shanghai, Shanxi); Oriental: China (Yunnan Prov.) (O'Hara, Shima & Zhang 2009). First record from Korea.

***Prooppia latipalpis* (Shima, 1981)\***

*Phebellia latipalpis* Shima, 1981: 63. Type locality: Japan, Hokkaidō, Sorachi, Mt. Yubari.

Material examined: North Korea, Phjǽngjang-si Prov. Phjǽngjang, Tesǽng-san park, 6. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Russia (S. Far East: Primorie Territory) (Richter 2004), Japan (Hokkaido, Honshu, Kyushu) (Shima 2014), China Provinces (Shanghai, Shaanxi) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Pseudoperichaeta* Brauer et Bergenstamm, 1889***Pseudoperichaeta nigrolineata* (Walker, 1853)**

*Tachina nigrolineata* Walker, 1853: 85. Type locality: England.

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, S. Siberia (Altai, Tuva), S. Far East: South Kuril Island (Kunashir)) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tshushima Island) (Shima 2014), Korea (Herting & Dely-Draskovits 1993), China Provinces (Anhui, Beijing M., Chongqing M., Hebei, Henan, Hubei, Jiangsu, Liaoning, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Xinjiang Uygur A.R.); Oriental: Japan



(Ryukyu Islands) (Shima 2014), China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hunan, Jiangxi, Zhejiang) (O'Hara, Shima & Zhang 2009).

*Senometopia* Macquart, 1834

***Senometopia excisa* (Fallén, 1820)**

*Tachina excisa* Fallén, 1820: 32. Type locality: Sweden, Östergötland, Lärketorp.

Distribution: Palaearctic: Europe (all), Russia (S. Far East: Primorsk Territory, Khabarovsk Territory, South Kuril Island (Iturup, Kunashir)) (Richter 2004), Korea (Kim 1971, Lee & Kwon 1981, Paek et al. 2010 as *Carcelia excisa* (Fall.)), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tshushima Islands) (Shima 2014), China Provinces (Anhui, Beijing M., Chongqing M., Gansu, Hebei, Henan, Hong Kong S.A.R., Heilongjiang, Hubei, Jilin, Jiangsu, Liaoning, Inner Mongolia, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Tianjin, Tibet); Oriental: Japan (Ryukyu Islands) (Shima 2014), Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Jiangxi, Yunnan, Zhejiang), India, Sri Lanka (O'Hara, Shima & Zhang 2009).

***Senometopia orientalis* (Shima, 1968)\***

*Eucarcelia orientalis* (Shima, 1968): 521. Type locality: Japan, Ryukyu Is., Amami-Ōshima, Yuwandake.

Material examined: North Korea, Phjŏngan-namdo Prov., Sunan distr., Sŏkam-Chŏsudzi, 2.09.1970, 1 female, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctic: China Provinces (Beijing M., Sichuan, Shanxi); Oriental: Japan (Ryuku Is.), China Provinces (Fujian, Guangxi Zhuangzu A.R., Guizhou, Jiangsu, Jiangsi, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009). First record from Korea.

***Senometopia separata* (Rondani, 1859)\***

*Exorista separata* (Rondani, 1859): 134. Type locality: Italy, Parma.

Material examined: North Korea, Kangvŏn-do Prov., Kymgan-san Mts., Onjong-ri near Kymgan-san hotel, 23-25.06. 1990, 2 females, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Europe northwards to N. German, N. Poland, S. Sweden, Ukraine, Russia (S. Siberia: Krasnoyarsk, Novosibirsk; S. Far East: Sakhalin) (Richter 2004), Japan (Hokkaido, Honshu, Kyushu (Shima 2014), China Provinces (Hebei, Heilongjiang, Hubei, Jiangsu, Liaoning, Sichuan); Oriental: China Provinces (Fujian, Guangdong, Hainan, Hunan, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009). First record from Korea.

*Thecocarcelia* Townsend, 1933

***Thecocarcelia sumatrana* Baranov, 1932**

*Sturmia sumatrana* Baranov, 1932: 1. Type locality: Indonesia, Sumatera, Medan.

*Thelycarcelia trix* Townsend, 1933: 475. Type locality: Taiwan, P'ingtung Hsien, Changkou [as "Kangkau", near Hengch'un].

Distribution: Palaearctic: Korea (Shima 1968, O'Hara, Shima & Zhang 2009), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima Island) (Shima 2014), China Provinces (Heilongjiang, Hubei, Jilin); Oriental: Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Hainan, Hunan, Jiangxi, Yunnan, Zhejiang), India, Indonesia (Sumatera), Malaysia (Pen. Malaysia, E. Malaysia), Philippines, Sri Lanka, Thailand, Vietnam (O'Hara, Shima & Zhang 2009).

*Thelyconychia* Brauer et Bergenstamm, 1889***Thelyconychia solivaga* (Rondani, 1861)\***

*Masicera* (*Ceromasia*) *solivaga* Rondani, 1861: 24. Type locality: Italy, Parma.

Material examined: North Korea, Hamhyng-si Prov., Hyngnam, 11.06.1965, 1 female, leg. M. Mroczkowski and A. Riedel; Čoĵang, 15 km SW ad Hamhyng, 25.09.1970, 1 female, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctic: Europe (W. Europe, C. Europe, E. Europe, S. Europe), Transcaucasia, M. East, N. Africa, C. Asia, Russia: E. Siberia, S. Far East (S. Primorsk Territory) (Richter 2004, Draber-Mońko 2007), Japan (Hokkaido), China (NE China); Oriental (Pakistan), Afrotropical: Botswana, Yemen (O'Hara, Shima & Zhang 2009). First record from Korea.

## Tribe Exoristini

*Chaetexorista* Brauer et Bergenstamm, 1894***Chaetexorista pavlovskiyi* (Stackelberg, 1943)\***

*Carcelia* (*Megacarcelia*) *pavlovskiyi* Stackelberg, 1943: 163. Type locality: Russia, Primorskiy Krai, upper Komarovka (as "Suputinka") river.

Material examined: North Korea, Phjŏngan-pukto Prov., Tephun ad Kujang-dong, Mjohjang-san Mts., 4.09.1959, 2 females, leg. B. Pisarski. Kangvŏn-do Prov., Munčhŏn 12 km NW ad Vŏnsan, 19.09.1970, 1 female, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctic: Russia (S. Far East: Primorsk Territory, Sakhalin) (Richter 2004, Shima 2014), Japan (Honshu) (Shima 2014), China (O'Hara, Shima & Zhang 2009); Oriental: Taiwan (Shima 2014). First record from Korea.

*Exorista* Meigen, 1803*Adenia* Robineau-Desvoidy, 1863***Exorista (Adenia) rustica* (Fallén, 1810)**

*Tachina rustica* Fallén, 1810: 264. Type locality: Sweden, Skåne, Äsperöd (as Esperöd').

Material examined: North Korea, N. Hamgyong Prov., Chŏngdžin-City, Desso-ri, 15. 06. 1990, 1 female, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: Europe, Transcaucasia, Turkey, Israel, Mongolia, Russia (W. Russia, W. Siberia, S. Siberia, E. Siberia, the Russian Far East (Amuria, Khabarovsk Territory)) (Herting & Dely-Draskovits 1993, Richter 2004), Korea (Kim & Kim 1971, Chao & Xue 1998), China Provinces (Anhui, Beijing M., Hebei, Heilongjiang, Jilin, Jangsu, Liaoning, Inner Mongolia, Qinghai, Sichuan, Shandong, Shanghai M., Shanxi, Tianjin M., Xinjiang Uygur A.R., Xizang A.R.); Oriental: Taiwan, China Provinces (Fujian, Jiangxi, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009).

*Exorista* Meigen, 1803***Exorista (Exorista) japonica* (Townsend, 1909)**

*Tachina japonica* Townsend, 1909: 247. Type locality: Japan, Honshū, Tokyo vicinity.

Material examined: North Korea, Phjŏngjang-si Prov., Phjŏngjang, Moran-bong, 27.08.1970, 1 male, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctic: Korea (Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima Island) (Shima 2014), China (distributed almost all over the country, but has not been recorded from the Provinces: Macao S.A.R., Qinghai, Shaanxi); Oriental: Japan (Ryukyu Islands) (Shima 2014), Taiwan, India Indonesia, Malaysia, Nepal, Philippines, Thailand, Vietnam (O'Hara, Shima & Zhang 2009).

***Exorista (Eorista) larvarum (Linnaeus, 1758)\****

*Musca larvarum* Linnaeus, 1758: 596. Type locality: not given (Europe).

Material examined: North Korea, Phjǒngjang-si Prov., Jongsǒng distr., Maram ad Phjǒngjang, 30. 07.1959, 1 male, leg. B. Pisarski and J Prószyński. Chǒngdžin-si Prov., Chǒngdžin, 12.09.1966, 1 male, leg. C. Dziadosz and H. Szelegiewicz,

Distribution: Palaearctic: Europe (all), Transcaucasia, M. East, N. Africa, C. Asia, Mongolia, Russia (W. Russia, W. Siberia, E. Siberia, S. Far East: Primorsk Territory, S. Kuril Islands: Kunashir, Shikotan) (Richter 2004, O'Hara, Shima & Zhang 2009). Japan (Hokkaido, Honshu, Kyushu) (Shima 2014), China Provinces (Anhui, Beijing M., Gansu, Hebei, Henen, Heilongjiang, Jilin, Jiangsu, Liaoning, Inner Mongolia, Ningxia Huiizu A.R., Quinghai, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Tianjin M., Xinjiang Uygur A.R.); Oriental: Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Jiangxi, Zhejiang), India; Nearctic: Yukon, introduced and established in Ontario, Québec, and New England (O'Hara, Shima & Zhang 2009). First record from Korea.

*Podotachina* Brauer et Bergenstamm, 1891

***Exorista (Podotachina) sorbilans (Wiedemann, 1830)***

*Tachina sorbilans* Wiedemann, 1830: 311. Type locality: Canary Islands, Tenerife.

Distribution: Palaearctic: Europe (W. Europe, E. Europe, S. Europe), C. Asia, Mongolia, N. Africa, China Provinces (Anhui, Beijing M., Chongqing M., Hebei, Henan, Heilongjiang, Hubei, Jilin, Jiangsu, Liaoning, Sichuan, Shandong, Shanghai, Shanxi) (O'Hara, Shima & Zhang 2009). Korea (Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014); Oriental: Japan (Ryukyu Is.), Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Hainan, Hunan, Jiangxi, Yunnan, Zhejiang), India, Indonesia, Nepal, Philippines, Sri Lanka, Thailand, Vietnam; Australasian: Papua N.G.; Afrotropical: Cameroon, Kenya, Malawi, Sierra Leone, Uganda (O'Hara, Shima & Zhang 2009).

*Spixomyia* Crosskey, 1967

***Exorista (Spixomyia) bisetosa Mesnil, 1940***

*Exorista (Scotiella) bisetosa* Mesnil, 1940: 39. Type locality: China, near Shanghai, Xujiangui (as Zi ka wei).

Distribution: Palaearctic: Korea (Han et al. 2004, Paek et al. 2010), Japan (Honshu, Shikoku, Kyushu, Tsushima Island) (Shima 2014), China Provinces (Anhui, Beijing M., Hebei, Hong Kong S.A.R., Jilin, Jiangsu, Inner Mongolia, Shandong, Shanghai M., Shanxi, Tianjin M., Tibet); Oriental: Japan (Ryukyu Is.), Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Hainan, Hunan, Jiangxi, Zhejiang), Indonesia (Jawa); Australasian: ? Melanesia (O'Hara, Shima & Zhang 2009).

***Exorista (Spixomyia) quadriseta* (Baranov, 1932)**

*Eutachina quadriseta* Baranov, 1932: 91. Type locality: Taiwan, Kaohsiung Hsien, Chiahsien Hsiang (as "Sokutsu").

Distribution: Palaeartic: Korea (Chao & Xue 1998), China Provinces (Jiangsu, Sichuan, Shaanxi); Oriental: Taiwan, China Provinces (Hunan, Yunnan, Zhejiang); Australasian: Australia, Melanesia, Papua N.G. (O'Hara, Shima & Zhang 2009).

*Parasetigena* Brauer et Bergenstamm, 1891

***Parasetigena silvestris* (Robineau-Desvoidy, 1863)**

*Duponchelia silvestris* Robineau-Desvoidy, 1863: 531. Type locality: not given (France, probably near Paris).

Material examined: North Korea, Phjõngan-pukto Prov., Mjohjang-san Mts., at the foot of Hyangro Peck, 9-12. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaeartica: Europa (all), Transcaucasia, Russia (E.Siberia: Chita, Yakutia, S. Far East: Primorsk Territory, Khabarovsk Territory) (Richter 2004), Korea (Pemberton et al. 1993), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima Island) (Shima 2014), China Provinces (Heilongjiang, Jilin, Liaoning) (O'Hara, Shima & Zhang 2009).

*Phorinia Robineau-Desvoidy, 1830*

***Phorinia breviata* Tachi and Shima, 2006\***

*Phorinia breviata* Tachi and Shima, 2006: 260. Type locality: Japan, Fukuoka Pref., Fukuoka City, Mt. Aburayama.

Material examined: North Korea, Kangvõn-do Prov., Kumgang-san Mts., Onjong-ri near Kymgan-san hotel, 28. 08. 1987, 1 male, leg. E. Kierych.

Distribution: Palaeartic: Japan (Hokkaido, Honshu, Shikoku, Tsushima Island). Oriental and Oceanian regions (Tachi and Shima 2006). First record from Korea.

Remarks: In the first version of this paper I have given the information that among the specimens examined I found male belonging to the *Phorinia aurifrons* Robineau-Desvoidy, 1830 (after the Key to the insects of Russian Far East. Vol. VI. Diptera and Siphonaptera. Pt 3. Vladivostok. 2004. 124. Fam. Tachinidae. Richter: 197-198). However, one of reviewers, in his comments wrote: "Phorinia aurifrons Robineau-Desvoidy (...) is considered to be misidentified from East Asia by some authors (see Tachi & Shima 2006, O'Hara et al. 2009, Shima 2014). The author is recommended to confirm identification of this species. If the species *P. aurifrons* really occurs in North Korea, it is very interesting".

My repeated examination of the specimen from Korea confirmed the suspicions of reviewer. Finally, I decided that it was *P. breviata* Tachi and Shima.

*Phorocera* Robineau-Desvoidy, 1830

***Phorocera assimilis* (Fallén, 1810)\***

*Tachina assimilis* Fallén, 1810: 283. Type locality: Sweden.

Material examined: North Korea, Phjõngan-pukto Prov., Mjohjang-san Mts., at the foot of Hyangro Peck, 9-12. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaeartic: Europe (all), Transcaucasia, C. Asia, Russia (W. Siberia, SE. Siberia, S. Far East: Primorsk Territory, Khabarovsk Territory, S. Kuril Islands (Kunashir)),

Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Heilongjiang, Liaoning, Shanxi) (Richter 2004, O'Hara, Shima & Zhang 2009). First record from Korea.

### Tribe Goniini

*Allophorocera* Hendel, 1901

#### *Allophorocera rutila* (Meigen, 1824)

*Tachina rutila* Meigen, 1824: 382. Type locality: Italy, Torino.

Distribution: Palaearctic: Europe (W. Europe, S. Europe), Transcaucasia, The Russian Far East (Amur Prov., Primorsk Territory, S, Kuril Islands (Kunashir)) (Richter 2004), Korea (Kim et al. 1971, Lee et Kwon 1981, Paek et al. 2010), Japan (Hokkaido, Honshu), China Provinces (Beijing M., Liaoning) (O'Hara, Shima & Zhang 2009, Shima 2014).

*Erythrocerca* Robineau-Desvoidy, 1848

#### *Erythrocerca nigripes* (Robineau-Desvoidy, 1830)\*

*Phryno nigripes* Robineau-Desvoidy, 1830: 144. Type locality: France, St.-Sauveur.

Material examined: North Korea, N Hamgyong Prov., Chongdžin-City, Kyowon-ri, 16. 06. 1990, 1 male, leg. E. Chudzicka, E. Kierych and R. Pisarska.

Distribution: Palaearctic: W. Europe northwards to France, Germany and Poland, Ukraine, Moldova, Russia (European part of Russia, S. Far East (Primorsk Territory)) (Richter 2004, Draber-Moňko 2007). First record from Korea.

*Blepharipa* Rondani, 1856

#### *Blepharipa schineri* (Mesnil, 1939)

*Blepharipoda schineri* Mesnil, 1939: 32. Type locality: not given (Austria).

Distribution: Palaearctic: Europe (British Is., W. Europe, C. Europe, E. Europe, S. Europe), Russia (European part of Russia, S. Siberia (Krasnoyarsk, Tomsk Prov., Novosibirsk Prov.)), S. Far East (Primorsk Territory, Khabarovsk Territory, S, Kuril Islands: Kunashir (Richter 2004, Draber-Moňko 2007), Korea (Pemberton et al. 1993), Japan (Hokkaido, Honshu, Kyushu, Tsushima Is.) (Shima 2004), China Provinces (Heilongjiang, Hubei, Jilin, Jiangsu, Liaoning, Inner Mongolia, Sichuan, Shaanxi); Oriental: China Provinces (Guizhou, Hunan, Zhejiang) (O'Hara, Shima & Zhang 2009).

#### *Blepharipa zebina* (Walker, 1849)

*Tachina zebina* Walker, 1849: 772. Type locality: India, North Bengal.

Material examined: North Korea, Hamgjøng-pukto Prov., Kjōngsōng distr., near Kjōngsōng hill, 3. 09. 1987, 1 female, leg. J. Sawoniewicz.

Distribution: Palaearctic: Russia (S. Far East: Primorsk Territory) (Richter 2004), Korea (Shima 2006, Paek et al. 2010), Japan (Hokkaido, Honshu, Kyushu, Tsushima Is.) (Shima 2014), China (distributed almost all over the country, but has not been recorded from the Provinces: Hong Kong S.A.R., Macao S.A.R., Qinghai, Xinjiang Uygur A.R.); Oriental: Japan (Ryukyu Is) (Shima 2014), Taiwan, India, Myanmar, Nepal, Sri Lanka, Thailand (O'Hara, Shima & Zhang 2009).

*Dolichocolon* Brauer et Bergenstamm, 1889

***Dolichocolon abstrusum* Cerretti et Shima, 2011**

*Dolichocolon abstrusum* Cerretti et Shima, 2011: 568. Type locality: Japan, Honshu, Pref. Saitama, Yorii.

Distribution: Palaearctic: Koraea (Cerretti & Shima 2011), Japan (Honshu) (Cerretti & Shima 2011, Shima 2014).

*Frontina* Meigen, 1838

***Frontina femorata* Shima, 1988**

*Frontina femorata* Shima, 1988: 33. Type locality: Japan, Hokkaido, Mt. Rausu (200–800 m).

Distribution: Palaearctic: Korean Peninsula (Kim 1981, Lee et Han 2008, Paek et al. 2010, Shima 2014), Japan (Hokkaido, Honshu) (Shima 2014), China: Jilin Prov. (O'Hara, Shima & Zhang 2009).

***Frontina laeta* (Meigen, 1824)**

*Tachina laeta* Meigen, 1824: 381. Type locality: not given (Europe).

Distribution: Palaearctic: Europe (all), Transcaucasia, Kazakhstan, Russia (W. Russia, W. Siberia, E. Siberia, S. Far East (Amur Prov., Khabarovsk Territory, Primorsk Territory) (Richter 2004), Korea (Kim 1981, Lee et Han 2008, Paek 2010), Japan: Hokkaido, Honshu (Shima 2004), China Provinces (Henan, Jilin, Jiangsu, Inner Mongolia, Shandong); Oriental: China (Zhejiang Prov.) (O'Hara, Shima & Zhang 2009).

***Frontina tricolor* Shima, 1988**

*Frontina tricolor* Shima, 1988: 33. Type locality: Japan, Honshu, Pref. Saitama, Mt. Buko.

Distribution: Palaearctic: Korean Peninsula (Lee et Han 2008, Paek et al. 2010, Shima 2014), Japan (Honshu, Kyushu) (Shima 2014).

*Gonia* Meigen, 1803

***Gonia chinensis* Wiedemann, 1824**

*Gonia chinensis* Wiedemann, 1824: 47. Type locality: China.

Distribution: Palaearctic: C. Asia (Herting & Dely-Draskovits 1993), Korean Peninsula (Doi 1938, Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Anhui, Beijing M., Chongqing M., Gansu, Hebei, Henan, Hong Kong S.A.R., Heilongjiang, Hubei, Jiangsu, Inner Mongolia, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Tianjin M., Tibet); Oriental: Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzang A.R., Guizhou, Hainan, Hunan, Jiangxi, Yunnan, Zhejiang), India, Malaysia. (? L. Sunda Is.), Nepal, Pakistan, Philippines, Vietnam (O'Hara, Shima & Zhang 2009).

***Gonia distinguenda* Herting, 1963**

*Gonia distinguenda* Herting, 1963: 106. Type locality: Switzerland, Wallis, Grengiols.

Distribution: Palaearctic: Europe (Switzerland, Hungary, Italy, Germany) (Herting & Dely-Draskovits 1993), Korea (Lee et Han 2010).

***Gonia divisa* Meigen, 1826**

*Gonia divisa* Meigen, 1826: 4. Type locality: Austria.

Distribution: Palaearctic: Europe northwards to S. Sweden and northern part of Russia; Asia: Russia: S. Siberia (Krasnoyarsk, Tuva, Tomsk Prov., Novosibirsk Prov.), S. Far East (Khabarovsk Territory, Primorsk Territory) (Richter 2004), Korea (Lee et Han 2010), China (Beijing M. Prov.) (O'Hara, Shima & Zhang 2009), Japan (Hokkaido, Honshu) (Shima 2014).

***Gonia foersteri* Meigen. 1838**

*Gonia foersteri* Meigen. 1838: 246. Type locality: Germany, Stolberg.

Distribution: Palaearctic: Europe (Austria, Germany, Poland, Czechoslovakia, Greece, Italy, Russia (S. European part), Asia (Israel) (Herting & Dely-Draskovits 1993, Draber-Mońko 2007), Korea (Kim 1971, Lee et Han 2010).

***Gonia klapperichi* (Mesnil, 1956)**

*Turanogonia klapperichi* Mesnil, 1956: 532. Type locality: China, Fujian, Kwangtsch.

Distribution: Palaearctic: Korea (Han et al. 2004, Paek et al. 2010), China Provinces (Liaoning, Qinghai, Sichuan, Shaanxi, Xinjiang Uygur A.R.); Oriental: China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Guizhou, Yunnan, Zhejiang), India, Myanmar (O'Hara, Shima & Zhang 2009).

***Gonia nigricoma* Lee et Han 2010**

*Gonia nigricoma* Lee et Han 2010: 188. Type locality: South Korea.

Distribution: Palaearctic: Palaearctic: Korea (Lee et Han 2010).

***Gonia olgae* (Rohdendorf, 1927)**

*Salmacia olgae* Rohdendorf, 1927: 94. Type locality: Uzbekistan, Tashkent.

Distribution: Palaearctic: Europe: Spain; Asia: Turkey, C. Asia (Herting & Dely-Draskovits 1993), Korea (Lee et Han 2010).

***Gonia picea* (Robineau-Desvoidy, 1830)\***

*Spallanzania picea* Robineau-Desvoidy, 1830: 78. Type localities: France and Spain.

Material examined: North Korea, Phjǒngjang Prov., Moran-yong, 27. 08. 1970, 1 male, leg. R. Bielawski and M. Mroczkowski.

Distribution: Palaearctic: Europe: Spain, France, Hungary, Poland, Germany, Great Britain, Sweden, Russia (European part), Transcaucasia, Israel (Herting & Dely-Draskovits 1993, Draber-Mońko 2007), Turkmenia, Russia (S. Siberia (Irkutsk), N. Far East: Kamchatka) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014). China Provinces (Anhui, Beijing M., Hebei, Henan, Heilongjiang, Jilin, Jiangsu, Liaoning, Inner Mongolia, Qinghai, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Tianjin M., Xinjiang Uygur A. R., Tibet); Oriental: Taiwan, China Provinces (Fujian, Guizhou, Hunan, Jiangxi, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009). First record from Korea.

***Gonia ussuriensis* (Rohdendorf, 1928)**

*Salmacia (ChrysoceroGonia) ussuriensis* Rohdendorf, 1927: 94. Type localities: Russia, Primorskij Kray, Yakovlevka (as “Jakovlevka”), and Steklyannaya (as “Stekljanucha”, about 9 km ENE of Shkotovo).

Distribution: Palaearctic: Russia (S. Far East: Primorsk Territory) (Richter 2004), Korean Peninsula (Lee & Han 2010), Japan (Honshu, Shikoku, Kyushu) (Shima 2014), China Provinces (Heilongjiang, Shanghai M.) (O’Hara, Shima & Zhang 2009).

*Platymya* Robineau-Desvoidy, 1830

***Platymya fimbriata* (Meigen, 1824)**

*Tachina fimbriata* Meigen, 1824: 337. Type locality: not given (probably Germany, Stolberg).

Distribution: Palaearctic: Europa (all), Transcaucasia, C. Asia, M. East, Mongolia, Russia (W. Russia, S. Siberia, the Russian Far East: Kamchatka, Primorsk Territory, Sakhalin, S. Kuril Islands (Iturup, Kunashir, Shikotan)) (Richter 2004), Korea (Chao et Xue 1998), China Provinces (Chongqing M., Heilongjiang, Sichuan, Shanxi, Tibet); Oriental: China Provinces (Guizhou, Yunnan) (O’Hara, Shima & Zhang 2009).

*Pseudogonia* Brauer et Bergenstamm, 1889

***Pseudogonia rufifrons* (Wiedemann, 1830)**

*Tachina rufifrons* Wiedemann, 1830: 318. Type locality: China.

Distribution: Palaearctic: Europe (W. Europe, C. Europe, S. Europe, E. Europe), Transcaucasia, M. East, N. Africa, Kazakhstan, C. Asia, Mongolia, Russia (W. Russia, S. Siberia, Far East: Primorsk Territory) (Richter 2004), China Provinces (Anhui, Beijing M., Hebei, Henan, Hong Kong S.A.R., Hubei, Jilin, Jiangsu, Liaoning, Inner Mongolia, Ningxia Huizu A.R., Sichuan, Shandong, Shanghai M., Shanxi, Xinjiang Uygur A. R.) (O’Hara, Shima & Zhang 2009), Korea (Lee et Han 2007, Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014); Oriental: Japan (Ryukyu Islands) (Shima 2014), Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Hainan, Jiangxi, Yunnan, Zhejiang), India, Indonesia (Jawa, Sumatra), Malaysia (Pen. Malaysia), Myanmar, Pakistan, Philippines, Thailand; Australasian: Australia, Hawaii, Indonesia (Maluku Is.), Melanesia, Papua N.G.; Afrotropical: widespread, including Cape Verde Islands, Yemen (O’Hara, Shima & Zhang 2009).

*Sturmia* Robineau-Desvoidy, 1830

***Sturmia bella* (Meigen, 1824)**

*Tachina bella* Meigen, 1824: 317. Type locality: not given (probably Germany, Stolberg).

Distribution: Palaearctic: Europe (all), Transcaucasia, M. East, C. Asia (O’Hara, Shima & Zhang 2009), Russia (W. Russia, S. Siberia: Altai) (Richter 2004), China Provinces (Gansu, Sichuan) (O’Hara, Shima & Zhang 2009), Korea (Kim et Nam 1978), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014); Oriental: Japan (Ryukyu Islands) (Shima 2014), ?Taiwan, China Provinces (Fujian, Guangdong, Guangxi Zhuangzu A.R., Hainan, Hunan, Yunnan, Zhejiang), Nepal, Thailand; Australasian: ?Bismarck Arch., Melanesia (O’Hara, Shima & Zhang 2009).



*Zenillia* Robineau-Desvoidy, 1830***Zenillia phrynoides* (Baranov, 1939)**

*Exorista phrynoides* Baranov, 1939: 110. Type locality: Japan, Hokkaidō, Sapporo.

Distribution: Palaearctic: Korean Peninsula (Hirashima 1989, Paek et al. 2010), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014); Oriental: China (Hunan Prov.) (O'Hara, Shima & Zhang 2009).

## Tribe Winthemiini

*Nemorilla* Rondani, 1856***Nemorilla floralis* (Fallén, 1810) \***

*Tachina floralis* Fallén, 1810: 287. Type locality: Sweden.

Material examined: Hamgjöng-pukto Prov., Kjõngsõng distr., Džuyr ad Čhõngdžin, 24. 08. 1959, 1 male, leg. B. Pisarski and J. Prószyński.

Distribution: Palaearctic: Europe northwards to Sweden (Herting & Dely-Draskovits 1993), Russia (S. Far East: Primorsk Territory, Sakhalin, S. Kuril Islands: Iturup, Kunashir) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima Island) (Shima 2014). First record from Korea.

***Nemorilla maculosa* (Meigen, 1824)**

*Tachina maculosa* Meigen, 1824: 265. Type localities: Southern France, and Germany, Hamburg, and probably Stolberg.

Distribution: Palaearctic: Europe (Scandinavia, W. Europe, C. Europe, E. Europe, S. Europe), Transcaucasia, M. East, C. Asia, Mongolia, Russia (W. Russia, W. Siberia, S. Far East (Primorsk Territory) (O'Hara, Shima & Zhang 2009), Korea (Doi 1938, Paek et al. 2010), Japan (Hokkaido, Kyushu) (Shima 2014), China Provinces (Anhui, Beijing M., Hebei, Hong Kong S.A.R., Heilongjiang, Hubei, Jilin, Jiangsu, Liaoning, Inner Mongolia, Sichuan, Shandong, Shanghai M., Shanxi, Tianjin M., Xinjiang Uygur A.R.), N. Africa; Oriental: Japan (Ryuku Islands), Taiwan, China Provinces (Fujian, Guangdong, Guanxi Zhuangzu A.R., Hainan, Hunan, Jiangxi, Zhejiang), India, Myanmar (O'Hara, Shima & Zhang 2009).

*Smidtia* Robineau-Desvoidy, 1830***Smidtia gemina* (Mesnil, 1949)**

*Nemosturmia gemina* Mesnil, 1949: 75. Type locality: China, Guling (as Kuling).

Distribution: Palaearctic: Russia (S. Far East: (Primorsk Territory) (Richter 2004), Korean Peninsula (Shima 1996, O'Hara, Shima & Zhang 2009), Japan (Honshu, Kyushu, Tsushima Island) (Shima 2014), China (Jiangxi Prov.) (O'Hara, Shima & Zhang 2009).

*Winthemia* Robineau-Desvoidy, 1830***Winthemia cruentata* (Rondani, 1859)**

*Chaetolyga cruentata* Rondani, 1859: 106. Type locality: Italy, Parma.

Distribution: Palaearctic: Europe (all), Transcaucasia, Russia (W. Russia, E. Siberia (Chita), S. Far East (Khabarovsk Territory)) (Richter 2004), Korea (Han et al. 2004, Paek et al.

2010), Japan (Hokkaido, Honshu, Kyushu) (Shima 2014), China Provinces (Beijing M., Jilin, Inner Mongolia, Sichuan, Shanxi) (O'Hara, Shima & Zhang 2009).

### *Winthemia venusta* (Meigen, 1824)

*Tachina venusta* Meigen, 1824: 327. Type locality: not given (probably Germany, Stolberg).

Distribution: Palaearctic: Europe (W. Europe, C. Europe, E. Europe, S. Europe), Transcaucasia, Russia (W. Russia, E. Siberia (Chita, Jakutsk), S. Far East (Primorsk Territory, S. Kuril Islands: Kunashir)) (Richter 2004), Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Shima 2014), Korea (Fan 1992, Liu et al. 1998), China Provinces (Beijing M., Gansu, Hebei, Heilongjiang, Jilin, Jiangsu, Liaoning, Inner Mongolia, Sichuan, Shandong, Shanghai M., Shaanxi, Shanxi, Xinjiang Uygur A.R., Tibet); Oriental: Taiwan, China Provinces (Fujian, Guizhou, Hainan, Hunan, Yunnan, Zhejiang) (O'Hara, Shima & Zhang 2009).

### GENERAL REMARKS

Twenty four species representing 20 genera of the subfamily Exoristinae have been identified in the material in the Museum and Institute of Zoology PAS collection. The species are: *Compsilura concinnata* (Meig.), *Compsiluroides flavipalpis* Mesn.\*, *Medina separata* (Meig.)\*, *Meigenia tridentata* Mesn.\*, *Oswaldia muscaria* (Fall.)\*, *Trigonospila transvittata* (Pand.), *Zaira cinerea* (Fall.)\*, *Carcelina pallidipes* (Ueda)\*, *Proopia agnatella* Mesn.\*, *P. latipalpis* (Shima)\*, *Senometopia orientalis* (Shima)\*, *S. separata* (Rond.)\*, *Thelyconychia solivaga* (Rond.)\*, *Chaetexorista pavlovskiyi* (Stack.)\*, *Exorista (Adenia) rustica* (Fall.), *E. (Exorista) japonica* (Townsend), *E. (E.) larvarum* (Linn.)\*, *Parasetigena silvestris* (R.-D.), *Phorinia breviata* Tachi & Shima\*, *Phorocera assimilis* (Fall.)\*, *Erythrocerca nigripes* (R.-D.)\*, *Blepharipa zebina* (Walk.), *Gonia picea* R.-D.\* and *Nemorilla floralis* (Fall.)\*. Eighteen species (marked with an asterisks) are recorded in Korea for the first time.

The current list of Exoristinae from Korea includes 48 species mentioned earlier by other authors. Nowadays, 72 species belonging to 43 genera of Exoristinae flies are known from the Korean Peninsula.

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#### STRESZCZENIE

#### [Stan wiedzy o faunie rączy (Diptera, Tachinidae) Azji Wschodniej, z uwzględnieniem nowych danych z Korei Północnej. Część V. Exoristinae]

Opracowanie stanowi kontynuację badań nad fauną rączy Korei Północnej. Materiał został zebrany przez pracowników Instytutu Zoologii PAN w Warszawie w latach 1959–1990, podczas sześciu wypraw do Korei Północnej. Muchówki były zbierane głównie siatką entomologiczną lub czerpakiem, a tylko w dwu ostatnich ekspedycjach zastosowano również żółte pułapki Moerick'a. Podrodzina Exoristinae jest największą wśród rączy, w Palaearctyce dotychczas stwierdzono ponad 700 gatunków.

Zgromadzony materiał Exoristinae liczy 31 okazów, jest on jednak dość zróżnicowany. W Korei Północnej w obrębie opracowanej podrodziny znaleziono 24 gatunki z 20 rodzajów. Aktualna lista gatunków Exoristinae z Korei została uzupełniona przez 43 gatunki wymienione wcześniej przez innych autorów.

Obecnie z całej Korei znane są 72 gatunki zaliczane do 43 rodzajów, w tym 18 gatunków Exoristinae wymienionych jest z tego kraju po raz pierwszy. Muchówki z omawianej podrodziny w stadium larwalnym są zwykle endoparazytoidami: Lepidoptera, Coleoptera i Hymenoptera, ale również owady z rzędów: Dermaptera, Mantodea, Orthoptera i Phasmida są wymieniane jako żywicieli tych rączy.

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