Supplementary catalogue of the Anthomyiidae (Diptera) of China

Mengmeng Wang¹,², Verner Michelsen³, Kai Li¹, Weibing Zhu²

¹ School of Life Science, East China Normal University, Shanghai, 200062, China ² Institute of Plant Physiology and Ecology; Shanghai Institutes for Biological Sciences; Chinese Academy of Sciences; Shanghai, 200032, China ³ Natural History Museum of Denmark (Zoological Museum), University of Copenhagen, Denmark

Corresponding authors: Kai Li (kaili@bio.ecnu.edu.cn); Weibing Zhu (wbzhu@sibs.ac.cn)

Abstract
The present catalogue of Anthomyiidae attempts to list all species (173) described or recorded from mainland China (165) and Taiwan (8) that for various reasons are not treated in “Flies of China” from 1998. The catalogue further lists Chinese species that are presently standing in new generic combinations compared to those of “Flies of China”, species that have changed name because of synonymy or misidentification, and species upgraded from subspecies to species. Regional distribution by province is specified for all species. Literature sources to descriptions or records of anthomyiid species from China are only given for those 173 species not covered by “Flies of China”. Four new combinations are proposed: Enneastigma fulva (Malloch, 1934), Enneastigma benanensis (Ge & Fan, 1982), Enneastigma lenghanensis (Xue, 2001) and Hylemya qinghaiensis (Fan, Chen & Ma, 1989). Eremomyia turbida Huckett, 1951 is revived from synonymy with Chortophila triticiperda Stein, 1900 (current name Eutrichota turbida). One subspecies is upgraded to species: Adia asiatica Fan, 1988. The following eight new synonymies are proposed: Delia pectinator fuscilateralis Fan in Fan & Zheng, 1992 with Delia pectinator Suwa, 1984; Eremomyia pilimana pilimarginata Fan & Qian in Fan, Chen, Ma & Ge, 1982 with Eremomyia turbida Huckett, 1951 (current name Eutrichota turbida); Lopesohylemya Fan, Chen & Ma, 1989 with Hylemya Robineau-Desvoidy, 1830; Deliomyia Fan in Fan et al., 1988 with Subhylemyia Ringdahl, 1933; Hydrophoria denticrassa Xue & Bai, 2009 with Hydrophoria pullata Wu, Liu & Wei, 1995 (current name Zaphne pullata); Heteroterma Wei, 2006 with Scathophaga Meigen, 1803; Heteroterma fanjingensis Wei, 2006 with Scathophaga curtipilata Feng, 2002; Scatomyza fansipanica Ozorov in Ozorov & Krivosheina, 2011 with Scathophaga curtipilata Feng, 2002. The genus Heteroterma Wei, 2006 and species Heteroterma fanjingensis Wei, 2006 are reassigned from Anthomyiidae to Scathophagidae.

Copyright Mengmeng Wang et al. This is an open access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.
Keywords
Nomenclature, classification, Anthomyiidae, Scathophagidae, China, Taiwan

Introduction

China is a huge country of 9.6 million square kilometres in eastern Asia supporting a rich Palearctic biota supplemented with a smaller Oriental biota in the southern areas. The Anthomyiidae are a large and diverse family of muscoid Diptera with c. 2000 described species worldwide. Anthomyiid flies are most diverse under temperate to subarctic conditions in the Northern Hemisphere. Accordingly, the Chinese anthomyiid fauna is exceedingly rich, including about one-third of the known world fauna, but still far from exhaustively investigated despite the voluminous literature on the subject.

The first comprehensive revision of the Anthomyiidae in China is that of Fan et al. (1988) who recognized 352 named species/subspecies in 43 genera. A second, more summary treatment of the family was given by Wei et al. (1998a, b) in the monumental “Flies of China” issued in two volumes (Xue and Chao 1998a, b). They recognized 515 species/subspecies in 43 genera from mainland China (514) and Taiwan (1). This figure has presently been adjusted to 511 species because of subsequent synonymy proposals. After combining this number with the extra species from the present catalogue, the number of anthomyiid species recorded from China has now reached 684 species in 36 genera. This number includes 9 species recorded from Taiwan but not from mainland China. The lower number of genera reflects recent attempts toward a phylogeny-based classification of the family in terms of supposedly monophyletic genera.

The notable increase in number of anthomyiid species presently recognized from mainland China (675) compared to “Flies of China” (511) reflects on one hand the high activity level of taxonomic and faunistic investigation of anthomyiid flies that has taken place in China since 1992/93 (the approximate deadline for “Flies of China”). However, our catalogue includes 25 species described as new and 17 species recorded from China or Taiwan before 1992 that for unknown reasons are omitted from “Flies of China”. These aspects emphasize the strong need of the present supplementary list.

Materials and methods

The following catalogue is primarily a compilation of all anthomyiid species recorded from mainland China and Taiwan but for various reasons omitted from consideration in “Flies of China” (Wei et al. 1998a, b). These species are marked with an asterisk. The catalogue further includes species that (1) are presently recognized in a different generic combination, (2) have changed name because of synonymy or misidentification, or (3) have been upgraded from subspecies to species rank.
The arrangement of the species is alphabetical by genus and by species. The generic classification follows the most recent update of the family in “Fauna Europaea” (Michelsen 2011). Accordingly, all taxa ranked as subgenus or subspecies in “Flies of China” are either upgraded to genus or species rank or synonymized. Synonyms are only given to the extent that these are treated as valid genus or species group names in “Flies of China”. A reference to the original Chinese record is given for all anthomyiid species in the catalogue that have not received treatment in “Flies of China”. The known distribution in China by province given for all species included in the catalogue. An explanatory ‘Taxonomic note’ is added whenever the present nomenclature deviates from that of “Flies of China”.

**Catalogue**

**Genus *Adia* Robineau-Desvoidy, 1830**

*Adia asiatica* Fan in Fan et al., 1988, STAT. REV.
*Adia grisella asiatica* Fan. Wei et al. 1998a: 670.
Distribution in China. Neimenggu, Qinghai, Sichuan, Yunnan.
Taxonomic note. The present taxon differs significantly from *Adia grisella* (Rondani) in the structure of the male terminalia. It also has a distribution overlapping with *A. grisella* in Central Asia (DM Ackland in litt.).

**Genus *Alliopsis* Schnabl & Dziedzicki, 1911**

Syn.: *Paraproslapia* Villeneuve, 1922.
Taxonomic note. Synonymy first proposed by Michelsen (1985: 39).

*Alliopsis billbergi* (Zetterstedt, 1838)
*Paraproslapia billbergi* [misspelling of billbergi] *shanghaina* Fan in Fan, Chen, Cui & Wang, 1983.
*Paraproslapia billergi* [misspelling of billbergi] *shanghaina* Fan. Wei et al. 1998a: 760.
Distribution in China. Heilongjiang, Shanghai.
Taxonomic note. Synonymy first proposed by Michelsen (2004).

*Alliopsis denticauda* (Zetterstedt, 1838)
*Paraproslapia denticauda* (Zetterstedt). Wei et al. 1998a: 760.
Distribution in China. Heilongjiang.

*Alliopsis flavipes* (Fan & Cui in Fan, Chen, Cui & Wang, 1983)
*Paraproslapia flavipes* Fan & Cui. Wei et al. 1998a: 760.
Distribution. China: Heilongjiang.
Alliopsis maculifrons (Zetterstedt, 1838)
Paraprosalpia lutebasicosta Fan in Fan, Chen, Cui & Wang, 1983.
Alliopsis lutebasicosta (Fan). Wei et al. 1998a: 756.
Distribution in China. Heilongjiang.
Taxonomic note. Synonymy first proposed by Michelsen (2004)

Alliopsis magnilamella (Fan in Fan, Chen, Cui & Wang, 1983)
Paraprosalpia magnilamella Fan. Wei et al. 1998a: 760.
Distribution. China: Qinghai.

Alliopsis moerens (Zetterstedt, 1838)
Paraprosalpia moerens (Zetterstedt). Wei et al. 1998a: 760.
Distribution in China. Heilongjiang, Neimenggu.

Alliopsis pilitarsis (Stein, 1900)
Paraprosalpia pilitarsis (Stein). Wei et al. 1998a: 760.
Distribution in China. Heilongjiang, Xinjiang.

Alliopsis sepiella (Zetterstedt, 1845)
Paraprosalpia sepiella (Zetterstedt). Wei et al. 1998a: 760.
Distribution in China. Xinjiang.

Alliopsis tibialis (Fan & Wang in Fan, Chen, Ma & Ge, 1982)
Paraprosalpia tibialis Fan.
Paraprosalpia [misidentification of Paraprosalpia] tibialis Fan & Wang. Wei et al. 1998a: 760.
Distribution. China: Shanxi.

Genus Anthomyia Meigen, 1803
Syn.: Craspedochoeta Macquart, 1851.
Taxonomic note. Synonymy first proposed by Michelsen (1985: 39).

*Anthomyia alishana Ackland & Suwa in Ackland, 1987
Distribution in China. Taiwan (Ackland 1987: 46).

Anthomyia cannabina (Stein, 1916)
Craspedochoeta cannabina (Stein). Wei et al. 1998a: 651.
Distribution in China. Heilongjiang, Liaoning.

Anthomyia confusanea Michelsen in Michelsen & Báez, 1985
Craspedochoeta liturata (Robineau-Desvoidy, 1830) [misidentification]. Wei et al. 1998a: 651.
Distribution in China. Heilongjiang, Neimenggu, Shanxi, Xinjiang.
Taxonomic note. Anthomyia liturata (Robineau-Desvoidy, 1830) is known exclusively from Europe, whereas A. confusanea is a more widespread Palearctic species.
*Anthomyia hirsuticorpa* (Feng & Fan in Feng, Fan & Zeng, 1999)
_Craspedochoeta hirsuticorpa_ Feng & Fan.
Distribution. China: Sichuan (Feng et al. 1999: 321).

*Anthomyia lasiommata* Fan & Chen, 1992
Distribution. China: Hainan (Fan and Chen 1992: 197).

*Anthomyia latifasciata* Suwa, 1987
Distribution in China. Guizhou (Wei 2006b: 525).

*Anthomyia mimetica* (Malloch, 1918)
_Craspedochoeta angulata_ (Tiensuu, 1938). Wei et al. 1998a: 651.
Distribution in China. Heilongjiang, Liaoning.
Taxonomic note. Synonymy first proposed by Michelsen (2004).

*Anthomyia oculifera* Bigot, 1885
*Anthomyia koreana* Suh & Kwon, 1985. Wei et al. 1998a: 648.
Distribution in China. Liaoning.
Taxonomic note. Synonymy first proposed by Griffiths (2001: 2256).

*Anthomyia psilommata* Fan & Chen, 1992
Distribution. China: Hainan (Fan and Chen 1992: 198).

*Anthomyia pullulula* (Fan in Fan, Chen, Ma & Wu, 1984)
_Craspedochoeta pullulula_ Fan. Wei et al. 1998a: 651.
Distribution in China. Shanxi, Qinghai, Xinjiang.

*Anthomyia sinensis* Zhang & Sun, 1997
Distribution. China: Liaoning (Zhang and Sun 1997: 23).

**Genus Boreophorbia** Michelsen, 1987

*Boreophorbia hirtipes* (Stein, 1907)
_Chirosia hirtipes_ Stein.
Distribution in China. Qinghai (Stein 1907: 369; Hennig 1966: 63).

**Genus Botanophila** Lioy, 1864
Syn.: *Monochrotogaster* Ringdahl, 1932; *Pseudomyopina* Ringdahl, 1933.
Taxonomic note. Synonymy first proposed by Michelsen (2004) for *Monochrotogaster* and by Michelsen (1985: 39) for *Pseudomyopina*. 
*Botanophila alcaecerca* (Deng, 1997)
*Pegohylemyia alcaecerca* Deng.
Distribution. China: Shandong, Sichuan (Deng 1997: 201).

*Botanophila alishana* Suwa, 1996
Distribution. China: Taiwan (Suwa 1996: 147).

*Botanophila angulisurystyla* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 168).

*Botanophila angustisilva* Xue & Yang, 2002
Distribution. China: Shaanxi, Gansu (Xue and Yang 2002: 73).

*Botanophila atricornis* (Fan & Wu, 1981)
*Monochrotogaster atricornis* Fan & Wu. Wei et al. 1998a: 702.
Distribution. China: Qinghai, Sichuan.

*Botanophila bicoloripennis* Xue & Zhang, 1996
Distribution. China: Hebei, Sichuan (Xue and Zhang 1996b: 169).

*Botanophila caligotypa* (Zheng & Fan, 1990)
*Pegohylemyia caligotypa* Zheng & Fan.
Distribution. China: Qinghai (Zheng and Fan 1990: 181).

*Botanophila cercodiscoides* (Fan, Zhong & Deng in Fan et al., 1988)
*Pegohylemyia okai cercodiscoides* Fan, Zhong & Deng.
*Botanophila okai cercodiscoides* (Fan, Zhong & Deng). Wei et al. 1998a: 693.
Distribution. China: Sichuan.
Taxonomic note. First ranked as species by Xue and Song (2007: 22).

*Botanophila chelonocerca* Xue & Yang, 2002
Distribution. China: Gansu (Xue and Yang 2002: 74).

*Botanophila choui* (Fan, Chen & Ma, 2000)
*Pegohylemyia choui* Fan, Chen & Ma.
Distribution. China: Qinghai (Fan et al. 2000: 130).

*Botanophila chui* Suwa, 1996
Distribution. China: Taiwan (Suwa 1996: 140).

*Botanophila clavata* (Hennig, 1970)
Distribution in China. Qinghai, Yunnan (Wang et al. 2006: 158).
*Botanophila convexifrons* (Fan, Chen & Chen 1993)

*Pegohylemyia convexifrons* Fan, Chen & Chen.

Distribution. China: Henan, Xinjiang (Fan et al. 1993: 59).

*Botanophila cornuta* (Deng, 1997)

*Pegohylemyia cornuta* Deng.

Distribution. China: Sichuan (Deng 1997: 202).

*Botanophila cuneata* (Deng, Li & Liu, 1996)

*Pegohylemyia cuneata* Deng, Li & Liu.

Distribution. China: Jiangxi, Sichuan (Deng et al. 1996: 427).

*Botanophila curvimargo* (Zheng & Fan, 1990)

*Pegohylemyia curvimargo* Zheng & Fan.

Distribution. China: Qinghai (Zheng and Fan 1990: 181).

*Botanophila densispinula* Xue & Song, 2007

Distribution. China: Sichuan (Xue and Song 2007: 25).

*Botanophila depressa* (Stein, 1907)

*Chortophila depressa* Stein.

*Botanophila oraria* (Collin, 1967). Wei et al. 1998a: 693.

Distribution in China. Qinghai, Gansu, Xizang (Stein 1907: 365; Wang et al. 2006: 158).

Taxonomic note. Synonymy first suggested by Hennig (1970: 392).

*Botanophila dianisenecio* Xue & Wang, 2010

Distribution. China: Yunnan (Xue and Wang 2010: 457).

*Botanophila dolichocerca* (Zheng & Fan, 1990)

*Pegohylemyia dolichocerca* Zheng & Fan.

Distribution. China: Heilongjiang, Qinghai (Zheng and Fan 1990: 182).

*Botanophila endotylata* (Deng, Li & Liu, 1996)

*Pegohylemyia endotylata* Deng, Li & Liu.

Distribution. China: Henan, Sichuan (Deng et al. 1996: 426).

*Botanophila euryisurstyla* (Deng, Liu & Li, 1995)

*Pegohylemyia euryisurstyla* Deng, Liu & Li.

Distribution. China: Sichuan (Deng et al. 1995: 375).

*Botanophila fanjingensis* Wei, 2006

Distribution. China: Guizhou (Wei 2006b: 528).
*Botanophila flavibellula* (Deng, Geng, Liu & Li, 1995)
*Pegohylemyia flavibellula* Deng Geng, Liu & Li.
Distribution. China: Jilin, Sichuan (Deng et al. 1995: 58).

*Botanophila fulgicauda* (Deng, Liu & Li, 1995)
*Pegohylemyia fulgicauda* Deng, Liu & Li.
Distribution. China: Sichuan (Deng et al. 1995: 375).

*Botanophila fumidorsis* (Ackland, 1967)
*Pseudomyopina fumidorsis probola* Fan in Ye, Ni & Fan, 1982. Wei et al. 1998a: 702.
Distribution in China. Shandong, Gansu, Xinjiang.
Taxonomic note. Synonymy first proposed by Zhang and Zhu (2014: 23).

*Botanophila gnava* (Meigen, 1826)
Distribution in China. Heilongjiang, Xinjiang (Wang et al. 2006: 159).

*Botanophila gnavoides* (Hennig, 1970)
Distribution in China. Gansu, Xinjiang (Wang et al. 2006: 159).

*Botanophila guizhouensis* Wei, 2006
Distribution. China: Guizhou (Wei 2006b: 529).

*Botanophila higuchii* (Suwa, 1974)
*Pegohylemyia higuchii* Suwa.
Distribution in China. Shaanxi, Gansu (Wu and Zhang 1988: 348).

*Botanophila hohxiliensis* Xue & Zhang, 1996
Distribution. China: Jilin, Qinghai (Xue and Zhang 1996b: 170).

*Botanophila kanmiyai* Suwa, 1996
Distribution. China: Taiwan (Suwa 1996: 144).

*Botanophila latigena* (Stein, 1907)
*Chortophila latigena* Stein.
*Pegohylemyia latigena* (Stein). Hennig 1970: 382.
*Botanophila latigena* (Stein). Wang et al. 2006: 159.
Distribution in China. Qinghai, Gansu, Hebei (Stein 1907: 359; Wang et al. 2006: 159).

*Botanophila latispinisternata* Xue & Wang, 2010
Distribution. China: Yunnan (Xue and Wang 2010: 461).
*Botanophila ligoniformis* (Deng, 1993)
*Pegohylemyia ligoniformis* Deng.
Distribution. China: Sichuan, Xizang (Deng 1993: 58).

*Botanophila longibarbata* Xue & Wang, 2010
Distribution. China: Yunnan (Xue and Wang 2010: 455).

*Botanophila maculipes* (Zetterstedt, 1845)
*Botanophila pseudomaculipes* (Strobl, 1893). Wei et al. 1998a: 693.
Distribution in China. Sichuan, Xizang (Wang et al. 2006: 159).
Taxonomic note. Synonymy first proposed by Michelsen (1985: 51).

*Botanophila mediotubera* (Deng, Li & Liu, 1996)
*Pegohylemyia mediotubera* Deng, Li & Liu.
Distribution. China: Jiangxi, Sichuan (Deng et al. 1996: 428).

*Botanophila melametopa* (Fan in Fan & Zheng, 1992)
*Pegohylemyia melametopa* Fan.
*Pegohylemyia nigrifrontata* Fan & Zheng, 1992.
*Botanophila melametopa* (Fan). Wei et al. 1998b: 2274.
*Botanophila nigrifrontata* (Fan & Zheng). Wei et al. 1998b: 2274.
Distribution. China: Sichuan.
Taxonomic note. Synonymy first proposed by Xue and Song (2007: 30).

*Botanophila menyuanensis* (Zheng & Fan, 1990)
*Pegohylemyia menyuanensis* Zheng & Fan.
Distribution. China: Qinghai (Zheng and Fan 1990: 182).

*Botanophila monacensis* (Hennig, 1970)
*Pegohylemyia monacensis* Hennig.
Distribution in China. Hebei (Zhao 1983: 24).

*Botanophila monoconica* (Chen & Fan, 1995)
*Pegohylemyia monoconica* Chen & Fan.
Distribution. China: Qinghai (Chen and Fan 1995: 492).

*Botanophila nigribella* (Deng, Geng, Liu & Li, 1995)
*Pegohylemyia nigribella* Deng, Geng, Liu & Li.
Distribution. China: Henan, Sichuan (Deng et al. 1995: 58).

*Botanophila pamirensis* (Ackland, 1967)
*Pseudomyopina pamirensis* Ackland. Wei et al. 1998a: 702.
Distribution in China. Henan, Xinjiang.
*Botanophila papiliocerca* (Deng, 1997)
*Pegohylemyia papiliocerca* Deng.
Distribution. China: Shanxi, Sichuan (Deng 1997: 201).
Taxonomic note. *Pegohylemyia papiliocerca* is an incorrect original spelling in the English summary (p. 204) by Deng (1997).

*Botanophila peltophora* (Li, Cui & Fan, 1993)
*Pegohylemyia peltophora* Li, Cui & Fan.
Distribution. China: Neimenggu, Henan (Li et al. 1993: 129).

*Botanophila peninsularis* Suh & Kwon, 1986
Distribution in China. Liaoning (Wang et al. 2006: 160).

*Botanophila pilicoronata* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 171).

*Botanophila platysurstyla* Xue & Song, 2007
Distribution. China: Sichuan (Xue and Song 2007: 26).

*Botanophila prenochirella* (Zheng & Fan, 1990)
*Pegohylemyia prenochirella* Zheng & Fan.
Distribution. China: Qinghai (Zheng and Fan 1990: 182).

*Botanophila rotundivalva* (Ringdahl, 1937)
Distribution in China. Shandong, Shaanxi (Xue and Yang 2002: 77; Wang et al. 2006: 160).

*Botanophila rubrigena* (Schnabl, 1915)
Distribution in China. Qinghai, (Wang et al. 2006: 160).

*Botanophila rufifrons* (Fan & Chen, 1981)
*Monochrotagaster rufifrons* Fan & Chen. Wei et al. 1998a: 702.
Distribution. China: Qinghai.

*Botanophila sanctiforceps* Xue & Yang, 2002
Distribution. China: Gansu (Xue and Yang 2002: 76).

*Botanophila sericea* (Malloch, 1920)
*Botanophila sericea* (Malloch). Xue and Song (2007: 14).
Distribution in China. Not given.

*Botanophila spinisternatodea* Xue & Wang, 2010
Distribution. China: Yunnan (Xue and Wang 2010: 460).
*Botanophila stenocerca* (Zheng & Fan, 1990)
*Pegohylemyia stenocerca* Zheng & Fan.
Distribution. China: Qinghai (Zheng and Fan 1990: 182).

*Botanophila strictistriolata* Xue & Zhang, 2005
Distribution. China: Gansu (Xue and Zhang 2005: 789).

*Botanophila submontivaga* Xue & Zhang, 1996
Distribution. China: Gansu, Xinjiang (Xue and Zhang 1996a: 199).

*Botanophila subobscura* Xue & Yang, 2002
Distribution. China: Gansu (Xue and Yang 2002: 77).

*Botanophila subspinulibasis* Xue & Song, 2007
Distribution. China: Sichuan (Xue and Song 2007: 28).

*Botanophila tetracrula* (Deng, 1997)
*Pegohylemyia tetracrula* Deng.
Distribution. China: Sichuan (Deng 1997: 203).

*Botanophila tortiforceps* (Deng, 1993)
*Pegohylemyia tortiforceps* Deng.
Distribution. China: Sichuan (Deng 1993: 58).

*Botanophila trifurcata* (Huckett, 1947)
Distribution in China. Qinghai, Sichuan (Wang et al. 2006: 161).

*Botanophila trifurcatoides* Xue & Song, 1992
*Pegohylemyia trifurcata* Hennig, 1976 [preoccupied in *Botanophila*].
Distribution. China: Heilongjiang (Hennig 1976: 953).

*Botanophila trinivittata* (Zheng & Fan, 1990)
*Pegohylemyia trinivittata* Zheng & Fan.
Distribution. China: Qinghai (Zheng and Fan 1990: 182).

Botanophila unicolor (Ringdahl, 1932)
*Monochrotogaster unicolor* Ringdahl. Wei et al. 1998a: 702.
Distribution in China. Xinjiang.

*Botanophila unicrucianella* (Xue & Zhang, 1996)
*Pseudomyopina unicrucianella* Xue & Zhang.
Distribution. China: Qinghai (Xue and Zhang 1996b: 186).
*Botanophila unimacula* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 172).

*Botanophila vicariola* (Fan in Fan, Chen & Fang, 1987)
*Pegohylemyia vicariola* Fan.
Distribution. China: Xizang (Fan et al. 1987: 300).

*Botanophila zhuoniensis* (Jin, 1983)
*Pegohylemyia zhuoniensis* Jin.
*Botanophila zhuouniensis* [misspelling of *zhuoniensis*] (Jin). Wei et al. 1998a: 698.
Distribution. China: Gansu.

Genus *Chirosia* Rondani, 1856
Syn.: *Meliniella* Suwa, 1974; *Shakshainia* Suwa, 1974.
Taxonomic note. Synonymy first proposed by Michelsen (1988: 277).

*Chirosia bisinuata* (Tiensuu, 1939)
*Meliniella bisinuata* (Tiensuu). Wei et al. 1998a: 666.
Distribution in China. Heilongjiang.

*Chirosia forcipispatula* Xue, 2001
Distribution. China: Yunnan (Xue 2001a: 307).

*Chirosia griseifrons* (Séguy, 1923)
*Meliniella griseifrons* (Séguy). Wei et al. 1998a: 666.
Distribution in China. Heilongjiang, Liaoning.

*Chirosia grossicauda* Strobl, 1899
*Chirosia parvicornis* (Zetterstedt, 1845) [misidentification]. Wei et al. 1998a: 656.
Distribution in China. Liaoning, Fujian.
Taxonomic note. The valid name for the present species first proposed by Michelsen (1985: 54).

*Chirosia nodula* (Li, Cui & Fan, 1993)
*Meliniella nodula* Li, Cui & Fan.
Distribution. China: Henan (Li et al. 1993: 129).

*Chirosia rametoka* (Suwa, 1974)
*Shakshainia rametoka* Suwa. Wei et al. 1998a: 666.
Distribution in China. Heilongjiang, Liaoning.

*Chirosia spatuliforceps* (Fan & Chu in Fan, Chen, Ma & Ge, 1982)
*Meliniella spatuliforceps* Fan & Chu. Wei et al. 1998a: 666.
Distribution. China: Fujian, Sichuan, Yunnan.
Chirosia strigilliformis (Deng & Li, 1986)
*Meliniella strigilliformis* Deng & Li. Wei et al. 1998a: 666.
Distribution. China: Sichuan.

*Chirosia styloplasis* (Zheng & Fan, 1990)
*Meliniella styloplasis* Zheng & Fan.
Distribution. China: Xizang (Zheng and Fan 1990: 181).

**Genus Delia** Robineau-Desvoidy, 1830

*Delia absidata* Xue & Du, 2008
Distribution. China: Yunnan (Xue and Du 2008: 114).

*Delia ancylosursta* Xue, 2002
Distribution. China: Gansu (Xue 2002: 73).

*Delia angustaeformis* (Ringdahl, 1933)
Distribution in China. Xinjiang (Qian et al. 1998: 75).

*Delia apicifloralis* Xue, 2002
Distribution. China: Gansu (Xue 2002: 74).

*Delia brevipalpis* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 174).

*Delia conjugata* Deng & Li, 1994
Distribution. China: Sichuan (Deng and Li 1994: 20).

*Delia conversatosoides* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 175).

*Delia diluta* (Stein, 1916)
*Delia diluta* (Stein). Fan et al. 1988: 178.
*Delia segmentata* (Wulp, 1896) [misidentification]. Wei et al. 1998a: 714.
Distribution in China. Qinghai.
Taxonomic note. Dely-Draskovits (1993: 49) listed by mistake *Delia diluta* as a junior synonym of the Nearctic *D. segmentata*.

*Delia dovreensis* Ringdahl, 1953
Distribution in China. Shanxi (Wang 1983: 412).

*Delia falciforceps* Xue & Zhang, 1996
Distribution. China: Xinjiang (Xue and Zhang 1996a: 204).
*Delia fimbrifascia* Xue & Du, 2009
Distribution. China: Yunnan (Xue and Du 2009: 155).

*Delia flavicomnixta* Xue & Zhang, 1996
Distribution. China: Xinjiang (Xue and Zhang 1996a: 206).

*Delia flavipes* Tian & Ma, 1999
Distribution. China: Neimenggu (Tian and Ma 1999: 217).

*Delia flavogrisea* (Ringdahl, 1926)
Distribution in China. Heilongjiang (Hennig 1974: 814).

*Delia floricola* Robineau-Desvoidy, 1830
*Delia floricola* Robineau-Desvoidy. Fan et al. 1988: 158.

*Delia cardui* (Meigen, 1826) [misidentification]. Wei et al. 1998a: 718.
Distribution in China. Xinjiang.
Taxonomic note. Dely-Draskovits (1993: 41) listed by mistake *Delia floricola* as a junior synonym of *D. cardui*.

*Delia formosana* Suwa, 1994
Distribution. China: Taiwan (Suwa 1994a: 63)

*Delia hohxiliensis* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 176).

*Delia linearis* (Stein, 1898)
*Delia flabellifera* (Pandellé, 1900). Wei et al. 1998a: 718.
Distribution in China. Heilongjiang, Jilin, Neimenggu, Hebei, Shanxi, Gansu, Xinjiang.
Taxonomic note. Synonymy first proposed by Barták et al. (1990: 443) on advice from GCD Griffiths.

*Delia longiarista* Xue, 2002
Distribution. China: Gansu (Xue 2002: 77).

*Delia longimastica* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 177).

*Delia madoensis* Fan in Fan et al., 1988.
*Delia rondanii madoensis* Fan in Fan et al. Wei et al. 1998a: 723.
Distribution in China. Gansu, Qinghai.
Taxonomic note. First ranked as species by Zhang and Zhu (2014: 48).

*Delia mastigella* Xue & Zhang, 1996
Distribution. China: Qinghai (Xue and Zhang 1996b: 178).
*Delia minutigrisea* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue and Zhang 1996b: 179).

*Delia nigriabdominis* Xue, 2001  
Distribution. China: Yunnan (Xue 2001a: 306).

*Delia parvicanalis* Fan in Fan, Chen, Ma & Wu, 1984  
Distribution. China: Qinghai, Sichuan (Fan et al. 1984: 243).

Delia pectinator Suwa, 1984  
*Delia pectinar fuscilateralis* Fan in Fan & Zheng, 1992, syn. n. Wei et al. 1998b: 2269.  
Distribution in China. Sichuan.  
Taxonomic note. Griffiths (1993: 1444) showed that *Delia pectinator* described from Japan is widely distributed in northern North America. His redescription suggests that ssp. *fuscilateralis* Fan falls within the variation of *D. pectinator*.

Delia penicilliventris Ackland, 2010  
*Delia penicillariss* (Rondani, 1866) [misidentification]. Wei et al. 1998a: 722.  
Distribution in China. Heilongjiang.  
Taxonomic note. Ackland (2010: 80) showed that *Delia penicillaris* auct. consists of two different species of which true *D. penicillaris* (Rondani) is only found in Central and South Europe.

*Delia persica* Hennig, 1974  
Distribution in China. Hebei (Zhao 1983: 24).

*Delia podagricicada* Xue, 1997  
Distribution. China: Sichuan (Xue 1997: 1493).

*Delia scrofiscalis* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue and Zhang 1996b: 180).

*Delia stenostyla* Deng & Li, 1994  
Distribution. China: Sichuan (Deng and Li 1994: 20).

*Delia subatrizrons* Xue & Du, 2009  
Distribution. China: Sichuan, Yunnan (Xue and Du 2009: 157).

*Delia subinterflua* Xue & Du, 2008  
Distribution. China: Sichuan, Yunnan (Xue and Du 2008: 116).

*Delia taonura* Deng & Li, 1994  
Distribution. China: Sichuan (Deng and Li 1994: 18).
Delia tenuiventris (Zetterstedt, 1860)
Delia conversata (Tiensuu, 1936). Wei et al. 1998a: 714.
Distribution in China. Heilongjiang, Xinjiang.
Taxonomic note. Synonymy first proposed by Michelsen (1985: 58).

*Delia turcmenica* Hennig, 1974
Distribution in China. Qinghai (Xue and Zhang 1996a: 201).

*Delia unguitigris* Xue, 1997
Distribution. China: Sichuan (Xue 1997: 1494)

*Delia uralensis* Hennig, 1974
Distribution in China. Heilongjiang, Jilin, Liaoning, Qinghai (Fan et al. 1988: 166).

Genus *Egle* Robineau-Desvoidy, 1830

*Egle ciliata* (Walker, 1849)
*Egle muscaria* (Fabricius, 1777) [misidentification]. Wei et al. 1998a: 660.
Distribution in China. Liaoning, Neimenggu.
Taxonomic note. The valid name for the present species was first proposed by Michelsen (1979: 193).

*Egle inermis* Ackland, 1970
*Egle steini* Schnabl, 1911 [misidentification]. Wei et al. 1998a: 661.
Distribution in China. Liaoning.
Taxonomic note. Misidentification first noted by Michelsen (2009: 42).

*Egle longirostris* (Stein, 1907)
*Chortophila longirostris* Stein.
*Lasiomma longirostris* (Stein). Hennig 1972: 430.
*Egle longirostris* (Stein). Michelsen 1988: 277; Michelsen 2009: 20.
Distribution. China: Qinghai (Stein 1907: 366).

*Egle minuta* (Meigen, 1826)
*Egle korpokkur* Suwa, 1974. Wei et al. 1998a: 660.
*Egle gracilior* Zheng & Fan, 1990. Zheng and Fan 1990: 181.
Distribution in China. Liaoning, Shanxi, Gansu, Sichuan.
Taxonomic note. Synonymy first proposed by Michelsen (2004) for *Egle korpokkur*
and by Griffiths (2003: 2350) for *E. gracilior*. 
Egle subarctica (Huckett, 1965)
Egle cyrtacra Fan & Wang in Fan, Chen, Ma & Ge, 1982. Wei et al. 1998a: 660.
Distribution in China. Shanxi.
Taxonomic note. Synonymy first proposed by Michelsen (2004).

**Genus Enmesomyia Malloch, 1917**

*Emmesomyia dorsalis* (Stein, 1915)
*Chortophila dorsalis* Stein.
Distribution in China. Taiwan (Stein 1915: 47; Pont and Ackland 2009: 16, 55).

*Emmesomyia ovata* (Stein, 1915)
*Chortophila ovata* Stein.
Distribution in China. Taiwan (Stein 1915: 47; Pont and Ackland 2009: 29, 56).

*Emmesomyia roborospinosa* Cui, Li & Fan, 1993
Distribution. China: Heilongjiang (Cui et al. 1993: 137).

*Emmesomyia similata* Suwa, 1991
Distribution in China. Guizhou (Wei 2006b: 533).

**Enmesomyia suwai** Ge & Fan, 1988
**Emmesomyia socia suwai** Ge & Fan. Wei et al. 1998a: 770.
Distribution in China. Heilongjiang, Henan, Sichuan, Guizhou, Yunnan.
Taxonomic note. First ranked as species by Suwa (1991: 20).

**Genus Enneastigma Stein, 1916**

Taxonomic note. The following two species are presently referred to *Enneastigma* rather than *Pegoplata*, because the male cerci that are not forming a projecting lobe between the surstyli, a derived character state only defining the genera *Pegoplata* and *Myopina* within the *Myopina* group of genera. In that respect *Enneastigma* agrees with *Calythea* Schnabl & Dziedzicki.

*Enneastigma fulva* (Malloch, 1934), COMB. NOV.
*Nupedia fulva* (Malloch). Wei et al. 1998a: 767.
Distribution in China. Zhejiang, Guangdong, Hainan, Sichuan, Guizhou, Yunnan.

*Enneastigma henanensis* (Ge & Fan, 1982), COMB. NOV.
*Nupedia henanensis* Ge & Fan. Wei et al. 1998a: 767.
Distribution. China: Henan, Sichuan, Guizhou, Yunnan.
*Enneastigma lengshanensis* Xue, 2001, COMB. NOV.  
*Pegoplasa lengshanensis* Xue, 2001.  
Distribution. China: Yunnan (Xue 2001b: 486).

**Genus Eutrichota** Kowarz, 1893  
Syn.: *Eremomyia* Stein, 1898; *Pegomyza* Schnabl & Dziedzicki, 1911; *Arctopegomyia* Ringdahl, 1938; *Parapegomyia* Griffiths, 1984.  
Taxonomic note. Synonymy first proposed by Griffiths (1984: 415) for *Eremomyia*, by Suwa (1974: 231) for *Pegomyza* and *Arctopegomyia*, and by Barták et al. (1990) for *Parapegomyia*.

*Eutrichota apiciserpenta* Xue & Dong in Xue, Dong & Bai, 2012  
Distribution. China: Yunnan (Xue et al. 2012: 81).

*Eutrichota breviungula* Xue & Dong in Xue, Dong & Bai, 2012  
Distribution. China: Sichuan, Yunnan, Xizang (Xue et al. 2012: 83).

*Eutrichota fanjingensis* Wei, 2006  
Distribution. China: Guizhou (Wei 2006b: 531).

*Eutrichota gansuensis* (Xue & Zhang, 2005)  
*Parapegomyia gansuensis* Xue & Zhang.  
Distribution. China: Gansu (Xue and Zhang 2005: 796).

*Eutrichota latimana* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue and Zhang 1996b: 181).

*Eutrichota minutiungula* Xue & Bai in Xue, Dong & Bai, 2012  
Distribution. China: Sichuan (Xue et al. 2012: 84).

*Eutrichota nigriceps* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue & Zhang 1996b: 182).

*Eutrichota palaestinensis* (Hennig, 1973)  
Distribution in China. Shaanxi (Wu and Zhang 1988: 348).

*Eutrichota praepotens* (Wiedemann, 1817)  
Distribution in China. Only record from northern China (Hennig 1972: 472) in need of verification.

*Eutrichota ruficeps* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue and Zhang 1996b: 183).
Eutrichota turbida (Huckett, 1951), SP. REV.
Eremomyia triticiperda (Stein, 1900) [misidentification]. Hennig 1972: 462 (in part: Kyrgyzstan).
Eutrichota triticiperda (Stein) [misidentification]. Griffiths 1984: 441.
Eremomyia pilimana pilimarginata Fan & Qian in Fan, Chen, Ma & Ge, 1982, syn. n. Eutrichota pilimarginata (Fan & Qian). Wei et al. 1998a: 749.
Distribution in China. Xinjiang.

Taxonomic note. Comparative study has convinced one of us (VM) that Eutrichota triticiperda (Stein) from Central Europe is different from the species identified by that name from Central Asia (Hennig 1972: 462) and North America (Griffiths 1984: 446). The valid name for the Holarctic species is Eutrichota turbida (Huckett). It differs from E. triticiperda by the absence of a shiny area on the antenna and, in males only, by a different shape of sternite V and presence of a broad, shiny black median field on sternites II–IV.

Genus Hydrophoria Robineau-Desvoidy, 1830
Taxonomic note. Hydrophoria in the present narrow sense follows upon the recognition of Zaphne (q.v.) as a separate genus.

*Hydrophoria aberrans* Stein, 1918
Distribution. China: Taiwan (Stein 1918: 159; Suwa 1985: 6)

*Hydrophoria fanjingensis* Wei, 2006
Distribution. China: Guizhou (Wei 2006b: 525).

*Hydrophoria lushiensis* Ge & Li, 1985
Distribution. China: Henan (Ge and Li 1985: 242).

*Hydrophoria nigrinitida* Feng, 2006
Distribution. China: Sichuan (Feng 2006: 1).

*Hydrophoria robustisurstylus* Feng, 2006
Distribution. China: Sichuan (Feng 2006: 1).

Hydrophoria silvicola (Robineau-Desvoidy, 1830)
Hydrophoria annulata (Pandellé, 1899) [misidentification]. Wei et al. 1998a: 672.
Hydrophoria silvicola (Robineau-Desvoidy). Xue et al. 2009: 421.
Distribution in China. Xinjiang, Liaoning, Jilin, Heilongjiang.
Taxonomic note. The valid name for the present species was first proposed by Barták et al. (1990: 443).
Genus Hylemya Robineau-Desvoidy, 1830
Syn.: Lopesohylemya Fan, Chen & Ma, 1989, syn. n.
Taxonomic note. Fan et al. (1989) established a new genus Lopesohylemya with the new species L. qinghaiensis (see below) as type species. They further suggested that their new genus should also accommodate the histrio species group of the genus Eustalomyia Kowarz. As noted in the discussion by Griffiths (1996: 1754), we disagree that Lopesohylemya and Eustalomyia are closely related taxa. Instead, we propose that L. qinghaiensis is closely related to Hylemya flavicruralis Suwa, 1989 described from Nepal. The distal articles of both antennae are missing in the holotype and only known specimen of Lopesohylemya qinghaiensis. Accordingly, the authors were unable to observe the plumose condition of the arista, a prime characteristic of the genus Hylemya.

*Hylemya teinosurstylia* Xue & Zhang, 2004
Distribution. China: Guangxi, Yunnan (Xue and Zhang 2004: 546).

Hylemya qinghaiensis (Fan, Chen & Ma, 1989), COMB. NOV.
Lopesohylemya qinghaiensis Fan, Chen & Ma. Wei et al. 1998a: 732.
Distribution. China: Qinghai.

Hylemya urbica Wulp, 1896
Hylemya latifrons Schnabl. Wei et al. 1998a: 736.
Distribution in China. Heilongjiang.
Taxonomic note. Synonymy first published in Barták et al. (1990: 443) on advice from GCD Griffiths.

Genus Hylemyza Schnabl & Dziedzicki, 1911
Taxonomic note. First revived from synonymy with Hylemya Robineau-Desvoidy, 1830 by Michelsen (1985: 39).

Hylemyza partita (Meigen, 1826)
Hylemya partita (Meigen). Wei et al. 1998a: 736.
Distribution in China. Heilongjiang, Qinghai.

Genus Hyporites Pokorny, 1893
Syn.: Engyneura Stein, 1907
Taxonomic note. Species of Engyneura agree closely with those of Hyporites, and together they constitute a well defined, clearly monophyletic entity of anthomyiid flies. This was realized by Hennig (1966: 77), but he desisted from formally synonymizing these genera because no material of Engyneura was available to him. This synonymy was first proposed by Michelsen (2004).
*Hyporites curvostylata* (Fan & Chen in Fan, Chen, Fan, Ma & Zhong, 1980)
*Engyneura curvostylata* Fan & Chen. Wei et al. 1998a: 744.
Distribution. China: Qinghai.

*Hyporites gracilior* (Fan & Zhong in Fan, Chen, Fan, Ma & Zhong, 1980)
*Engyneura gracilior* Fan & Zhong. Wei et al. 1998a: 744.
Distribution. China: Qinghai, Xizang.

*Hyporites leptinostylata* (Fan, Van & Ma in Fan, Chen, Fan, Ma & Zhong, 1980)
*Engyneura leptinostylata* Fan, Van & Ma. Wei et al. 1998a: 744.
Distribution. China: Qinghai.

*Hyporites pilipes* (Stein, 1907)
*Engyneura pilipes* Stein. Wei et al. 1998a: 744.
Distribution. China: Gansu, Qinghai.

*Hyporites setigera* (Stein, 1907)
*Engyneura setigera* Stein. Wei et al. 1998a: 744.
Distribution in China. Gansu, Qinghai.

*Hyporites setifemorata* (Fan in Fan & Zheng, 1992)
*Engyneura setifemorata* Fan. Wei et al. 1998b: 2270.
Distribution. China: Sichuan.

*Hyporites yuanyea* (Xue & Liu, 2013)
*Engyneura yuanyea* Xue & Liu.
Distribution. China: Yunnan (Xue and Liu 2013: 147).

**Genus Lasiomma Stein, 1916**
Syn.: *Acrostilpna* Ringdahl, 1929; *Sinohylemya* Hsue, 1980.
Taxonomic note. Synonymy first established by Griffiths (2003: 2380) for *Acrostilpna* and by Michelsen (1988: 276) for *Sinohylemya*.

*Lasiomma craspedodontum* (Hsue, 1980)
*Sinohylemya craspedodonta* Hsue. Wei et al. 1998a: 743.
Distribution in China. Jilin, Liaoning, Sichuan.

*Lasiomma latipenne* (Zetterstedt, 1838)
*Acrostilpna latipennis* (Zetterstedt). Wei et al. 1998a: 653.
Distribution in China. Heilongjiang.
Lasiomma monticola Suh & Kwon, 1985

*Sinohylemya ctenocnema* Hsue, 1980 [preoccupied in *Lasiomma*]. Wei et al. 1998a: 743. Distribution in China. Heilongjiang, Liaoning.

Taxonomic note. Synonymy first proposed by Michelsen (2004), valid name by Suwa (2005: 100).

*Lasiomma picipes* (Meigen, 1826)

*Lasiomma octoguttatum* (Zetterstedt, 1845). Wei et al. 1998a: 662. Distribution in China. Xizang.

Taxonomic note. Synonymy first proposed by Barták et al. (1990: 443).

*Lasiomma replicatum* (Huckett, 1929)

*Acrostilpna montana* Ma, 1988. Wei et al. 1998a: 653. Distribution in China. Heilongjiang, Liaoning, Shanxi.

Taxonomic note. Synonymy first proposed by Griffiths (2003: 2406).

**Genus Leucophora** Robineau-Desvoidy, 1830

*Leucophora dasyprosterna* Fan & Qian in Fan et al. 1988
*Leucophora brevifrons dasyprosterna* Fan & Qian. Wei et al. 1998a: 728. Distribution. China: Xinjiang.

Taxonomic note. First ranked as species by Zhang and Zhu (2014: 10).

*Leucophora liaoningensis* Zhang & Zhang, 1998

Distribution. China: Liaoning (Zhang and Zhang 1998: 103).

*Leucophora obtusa* (Zetterstedt, 1838)

Distribution in China. Liaoning (Fan and Zheng 1992: 1140).

*Leucophora xinjiangensis* Xue & Zhang, 1996

Distribution. China: Xinjiang (Xue and Zhang 1996a: 209).

**Genus Mycophaga** Rondani, 1856

*Mycophaga testacea* (Gimmerthal, 1834)

Distribution in China. Sichuan (Feng et al. 2010: 35).

**Genus Myopina** Robineau-Desvoidy, 1830

*Myopina myopina* (Fallén, 1824)

Distribution in China. Shanxi (Wang 1995: 94).
Genus *Paradelia* Ringdahl, 1933
Syn.: *Pseudonupedia* Ringdahl, 1959.
Taxonomic note. Synonymy first proposed by Barták et al. (1990: 443). Incidentally, *Pseudonupedia* Ringdahl is unavailable, as no type species was designated. The name was first made available by Huckett (1971: 76) who proposed *Anthomyia intersecta* Meigen, 1826 as type species.

*Paradelia brunneonigra* (Schnabl in Schnabl & Dziedzicki, 1911)
*Pseudonupedia brunneonigra* (Schnabl). Wu and Zhang 1988: 348.
Distribution in China. Shaanxi, Gansu.

*Paradelia intersecta* (Meigen, 1826)
*Pseudonupedia intersecta* (Meigen). Wei et al. 1998a: 761.
Distribution in China. Jilin, Shanxi, Gansu.

*Paradelia lundbeckii* (Ringdahl, 1918)
Distribution in China. Sichuan (Deng and Li 1993: 9).

*Paradelia palpata* (Stein, 1906)
*Pseudonupedia trigonalis* (Karl). Wei et al. 1998a: 761.
Distribution in China. Qinghai.
Taxonomic note. Synonymy first proposed by Griffiths (1987: 766).

Genus *Paregle* Schnabl, 1911
Syn.: *Chionomyia* Ringdahl, 1933.
Taxonomic note. Synonymy first proposed by Suwa (1974: 92).

*Paregle vetula* (Zetterstedt, 1838)
*Chionomyia vetula* (Zetterstedt). Wei et al. 1998a: 703.
Distribution in China. Heilongjiang, Jilin, Liaoning, Neimenggu, Beijing, Hebei, Shanxi, Shandong, Henan.

Genus *Pegomya* Robineau-Desvoidy, 1830

*Pegomya acisophalla* Xue, 2003
Distribution. China: Yunnan (Xue 2003: 80).

*Pegomya agilis* Wei, 2006
Distribution. China: Guizhou (Wei 2006a: 286).

*Pegomya basichaeta* Li, Liu & Fan in Li, Liu, Fan & Cui, 1999
Distribution. China: Henan (Li et al. 1999: 244).
*Pegomya calyptrata* (Zetterstedt, 1846)  
Distribution in China. Qinghai (Ci and Yang 1986: 26).

*Pegomya chaetostigmata* Zheng & Fan, 1990  
Distribution. China: Xizang (Zheng and Fan 1990: 182).

*Pegomya cricophalla* Xue, 2003  
Distribution. China: Yunnan (Xue 2003: 81).

*Pegomya deprimata* (Zetterstedt, 1845)  
Distribution in China. Jiangxi (Wu and Zhang 1988: 349).

*Pegomya diplothrixa* Li, Liu & Fan in Li, Liu, Fan & Cui, 1999  
Distribution. China: Henan (Li et al. 1999: 243).

*Pegomya flavifrons* (Walker, 1849)  
Distribution in China. Shanxi, Qinghai, Xinjiang (Song et al. 2007: 230)

*Pegomya heteroparamera* Zheng & Fan, 1990  
Distribution. China: Sichuan (Zheng and Fan 1990: 184).

*Pegomya hohxiliensis* Xue & Zhang, 1996  
Distribution. China: Qinghai (Xue and Zhang 1996b: 185).

*Pegomya huanglongensis* Deng & Li, 1993  
Distribution. China: Sichuan (Deng and Li 1993: 8).

*Pegomya incrassata* Stein, 1907  
*Pegomyia incrassata* Stein.  
Distribution in China. Guangdong, Qinghai (Stein 1907: 356; Song et al. 2007: 230).

*Pegomya japonica* Suwa, 1974  
*Pegomya japonica japonica* Suwa. Wei et al. 1998a: 789.  
*Pegomya japonica mokanensis* Fan, 1982. Wei et al. 1998a: 789.  
Distribution in China. Zhejiang, Fujian, Sichuan.  
Taxonomic note. Synonymy first proposed by Zhang and Zhu (2014: 30).

*Pegomya lageniforceps* Xue, 2003  
Distribution. China: Yunnan (Xue 2003: 82).

*Pegomya lurida* (Zetterstedt, 1846)  
*Pegomyia valgenovensis* Hennig. Wei et al. 1998a: 798.  
Distribution in China. Heilongjiang, Jilin, Liaoning, Sichuan.  
Taxonomic note. Synonymy first proposed by Michelsen (2004).
*Pegomya mediarmata* Zheng & Xue, 2002
Distribution. China: Liaoning (Zheng and Xue 2002: 159).

*Pegomya mirabifurca* Cui, Li & Fan, 1993
Distribution. China: Heilongjiang, Henan, Neimenggu (Cui et al. 1993: 137; Song et al. 2007: 230).

*Pegomya nigripraepeda* Feng, 2006
Distribution. China: Sichuan (Feng 2006: 2).

*Pegomya pulchripes* (Loew, 1857)
Distribution in China. Hebei, Sichuan (Zhao 1983: 24).

*Pegomya revolutiloba* Zheng & Fan, 1990
Distribution. China: Xizang (Zheng and Fan 1990: 184).

*Pegomya rhagolobos* Li, Deng, Zhu & Sun, 1984
*Pegomya rhagolobs* [misspelling of *rhagolobos*] Li, Deng, Zhu & Sun. Wei et al. 1998a: 788.
Distribution. China: Sichuan.

*Pegomya rufina* (Fallén, 1825)
Distribution in China. Shaanxi (Wu and Zhang 1988: 349).

*Pegomya semicircula* Li, Liu & Fan, 1999
Distribution. China: Henan (Li et al. 1999: 243).

*Pegomya setaria* (Meigen, 1826)
Distribution in China. Shanghai (Hennig 1973: 635).

*Pegomya spiraculata* Suwa, 1974
Distribution in China. Liaoning (Song et al. 2007: 230).

*Pegomya sublurida* Hsue, 1981
Distribution. China: Liaoning (Hsue 1981: 89).

*Pegomya tabida* (Meigen, 1826)
Distribution in China. Shaanxi (Wu and Zhang 1988: 349).
*Pegomya unilongiseta* Fan & Huang in Fan, Huang, Zou & Wu, 1984
Distribution. China: Fujian (Fan et al. 1984: 220).

*Pegomya yunnanensis* Xue, 2001
Distribution. China: Yunnan (Xue 2001b: 487).

**Genus Pegoplata** Schnabl & Dziedzicki, 1911

Syn.: *Nupedia* Karl, 1930.

Taxonomic note. Griffiths (1986: 610) first proposed a wider concept of *Pegoplata* to include species previously recognized in *Nupedia*.

*Pegoplata aestiva* (Meigen, 1826)  
*Nupedia aestiva* (Meigen). Wei et al. 1998a: 765.  
Distribution in China. Shanxi, Qinghai, Xinjiang, Sichuan, Yunnan, Xizang.

*Pegoplata annulata* (Pandellé, 1899)  
*Pegoplata juvenilis* (Stein, 1898) [misidentification]. Wei et al. 1998a: 768.  
Distribution in China. Heilongjiang.  
Taxonomic note. Griffiths (1986: 622) recognized two subspecies under *Pegoplata juvenilis* (Stein, 1898), of which the nominal subspecies is Nearctic in distribution and its Palearctic counterpart was named as *P. juvenilis nitidicauda* (Schnabl, 1911). Barták et al. (1990: 448) and subsequent European authors treat the Palearctic taxon as a distinct species by the name *Pegoplata annulata* (Pandellé, 1899).

*Pegoplata infirma* (Meigen, 1826)  
*Nupedia infirma* (Meigen). Wei et al. 1998a: 765.  
Distribution in China. Heilongjiang, Hebei, Shanxi, Gansu, Xinjiang.

*Pegoplata laotudingga* Zheng & Xue, 2002  
Distribution. China: Liaoning (Zheng and Xue 2002: 158).

*Pegoplata linotaenia* (Ma, 1986)  
*Nupedia linotaenia* Ma. Wei et al. 1998a: 767.  
Distribution. China: Heilongjiang, Liaoning, Neimenggu.

*Pegoplata nigroscutellata* (Stein, 1920)  
*Nupedia nigroscutellata* (Stein). Wei et al. 1998a: 767.  
Distribution in China. Heilongjiang, Qinghai.

*Pegoplata patellans* (Pandellé, 1900)  
*Nupedia patellans* (Pandellé). Wei et al. 1998a: 767.  
Distribution in China. Gansu, Qinghai, Xinjiang, Sichuan.
Pegoplata plicatura (Hsue, 1981)
Nupedia plicatura Hsue. Wei et al. 1998a: 767.
Distribution. China: Liaoning.

*Pegoplata qiandianensis Wei, 2006
Distribution. China: Guizhou (Wei 2006b: 534).

Genus Phorbia Robineau-Desvoidy, 1830

*Phorbia fani Xue, 2001
Distribution. China: Sichuan, Yunnan (Xue 2001b: 485).

Phorbia genitalis (Schnabl, 1911)
Phorbia securis xibeina Wu, Zhang & Fan in Fan et al., 1988. Wei et al. 1998a: 742.
Distribution in China. Shaanxi, Gansu, Qinghai.
Taxonomic note. Synonymy first proposed by Ackland (1993: 213).

Phorbia lobata (Huckett, 1929)
Phorbia perssoni Hennig, 1976. Wei et al. 1998a: 742.
Distribution in China. Xinjiang.
Taxonomic note. Synonymy first proposed by Ackland (1993: 220) on advice from
cGCD Griffiths.

*Phorbia longipilis (Pandellé, 1900)
Distribution in China. Heilongjiang (Hennig 1976: 950).

*Phorbia morulella Fan, Li & Cui, 1993
Distribution. China: Henan (Fan et al. 1993: 133).

*Phorbia polystrepsis Fan, Chen & Ma, 2000
Distribution. China: Qinghai (Fan et al. 2000: 130).

*Phorbia simplisternita Fan, Li & Cui, 1993
Distribution. China: Henan (Fan et al. 1993: 133).

*Phorbia sinoingularis Zhang, Fan & Zhu, 2011
Distribution. China: Shanxi (Zhang et al. 2011: 298).

*Phorbia subcurvifolia Zhang, Fan & Zhu, 2011
Distribution. China: Heilongjiang (Zhang et al. 2011: 297).

Phorbia subfascicularis Suwa, 1994
Phorbia fascicularis Tiensuu, 1936 [misidentification]. Wei et al. 1998a: 740.
Distribution in China. Heilongjiang.
Taxonomic note. Misidentification first noted by Suwa (1994b: 535).
Genus *Ringdahlia* Michelsen, 2014

*Ringdahlia curtigena* (Ringdahl, 1935)
*Lasiomma curtigena* (Ringdahl). Wei et al. 1998a: 662.
Distribution in China. Gansu.

Taxonomic note. The genus *Ringdahlia* was established by Michelsen (2014: 12) for the present species previously referred to either *Lasiomma* Stein or *Chirosiomima* Hennig.

Genus *Sinophorbia* Xue, 1997

Syn.: *Sinophorbia* Xue in Wei et al., 1998
*Sinophorbia tergiprotuberans* Xue, 1997
*Sinophorbia tergiprotuberans* Xue in Wei et al., 1998b: 2301.
Distribution. China: Sichuan (Xue 1997: 1496).

Note. The present genus and species, intended for publication in “Flies of China” (Xue in Wei et al., 1998b), were accidentally published by Xue (1997: 1495–1497).

Genus *Strobilomyia* Michelsen, 1988

*Strobilomyia lijiangensis* Roques & Sun in Roques, Sun, Zhang, Pan, Xu & Delpl-anque, 1996
Distribution. China: Yunnan (Roques et al. 1996: 421).

*Strobilomyia oriens* (Suwa, 1983)
*Lasiomma abietes* [misspelling of abietis] (Huckett, 1953) [misidentifcation].
Distribution in China. Liaoning (Hsue 1983: 52).

Taxonomic note. Michelsen (1988: 312) noted that *Strobilomyia abietis* is a Nearctic species and replaced by *S. oriens* in East Asia.

[Strobilomyia sanyangi Roques & Sun in Sun, Roques, Zhang & Xu, 1996]
Unavailable *nomen nudum* (Sun et al. 1996: 146).

*Strobilomyia sibirica* Michelsen, 1988
Distribution in China. Heilongjiang (Roques et al. 2003: 365).

*Strobilomyia svenssoni* Michelsen, 1988
Distribution in China. Heilongjiang (Sun et al. 1995: 10).

Genus *Subhylemyia* Ringdahl, 1933

Syn.: *Deliomyia* Fan in Fan et al., 1988, syn. n.

Taxonomic note. *Deliomyia* was proposed as a subgenus of *Subhylemyia* Ringdahl. The genus *Subhylemyia* is reasonably well defined and includes only two known species. Thus we see no reason to split this taxon any further.
Subhylemyia dorsilinea (Stein, 1920)
Subhylemyia (Deliomyia) lineola (Collin). Wei et al. 1998a: 734.
Distribution in China. Neimenggu, Qinghai.
Taxonomic note. Synonymy first proposed by Griffiths (1998: 1880).

Genus Zaphne Robineau-Desvoidy, 1830
Taxonomic note. First proposed by Michelsen (1985: 40) as valid generic name for a species group split off from Hydrophoria s. lat.

Zaphne ambigua (Fallén, 1823)
Hydrophoria ambigua (Fallén). Wei et al. 1998a: 672.
Zaphne ambigua (Fallén). Xue et al. 2009: 423.
Distribution in China. Heilongjiang.

Zaphne divisa (Meigen, 1826)
Hydrophoria divisa (Meigen). Wei et al. 1998a: 672.
Zaphne divisa (Meigen). Xue et al. 2009: 423.
Distribution in China. Heilongjiang, Neimenggu, Tianjin.

Zaphne fasciculata (Schnabl, 1915)
Hydrophoria fasciculata (Schnabl). Wei et al. 1998a: 672.
Zaphne fasciculata (Schnabl). Xue et al. 2009: 423.
Distribution in China. Heilongjiang.

Zaphne ignobilis (Zetterstedt, 1845)
Hydrophoria ignobilis (Zetterstedt). Wei et al. 1998a: 672.
Zaphne ignobilis (Zetterstedt). Xue et al. 2009: 424.
Distribution in China. Heilongjiang, Jinlin, Yunnan.

Zaphne inuncta (Zetterstedt, 1838)
Hydrophoria hyalipennis (Zetterstedt, 1855). Wei et al. 1998a: 672.
Zaphne inuncta (Zetterstedt). Xue et al. 2009: 424.
Distribution in China. Heilongjiang, Jilin.
Taxonomic note. Synonymy established by Michelsen (1985: 48, 49).

*Zaphne laxibarbiventer* Xue & Dong in Xue, Bai & Dong, 2009
Distribution. China: Yunnan (Xue et al. 2009: 425).

Zaphne lineatocollis (Zetterstedt, 1838)
Hydrophoria lineatocollis (Zetterstedt). Wei et al. 1998a: 673.
Zaphne lineatocollis (Zetterstedt). Xue et al. 2009: 425.
Distribution in China. Heilongjiang.
Zaphne maculipennis (Stein, 1907)
Hydrophoria maculipennis Stein. Wei et al. 1998a: 673.
Zaphne maculipennis (Stein). Xue et al. 2009: 425.
Distribution in China. Neimenggu, Qinghai, Shanxi, Xizang.

Zaphne melaena (Stein, 1907)
Hydrophoria melaena Stein. Wei et al. 1998a: 673.
Zaphne melaena (Stein). Xue et al. 2009: 426.
Distribution in China. Heilongjiang, Liaoning, Qinghai, Neimenggu, Shanxi, Sichuan, Xinjiang.

Zaphne nuda (Schnabl in Schnabl & Dziedzicki, 1911)
Hydrophoria nuda (Schnabl). Wei et al. 1998a: 673.
Zaphne nuda (Schnabl). Xue et al. 2009: 427.
Distribution in China. Heilongjiang.

*Zaphne pullata (Wu, Liu & Wei, 1995)
Hydrophoria pullata Wu, Liu & Wei.
Zaphne pullata (Wu, Liu & Wei). Xue et al. 2009: 427.
Hydrophoria disticrassa Xue & Bai in Xue, Bai & Dong, 2009, syn. n.
Distribution. China: Guizhou, Yunnan (Wu et al. 1995: 290; Xue et al. 2009: 418).
Taxonomic note. Present synonymy based on comparison of the original illustrations of the male terminalia of the two nominal species.

Zaphne tundrica Schnabl in Schnabl & Dziedzicki, 1911
Hydrophoria verticina (Zetterstedt, 1838) [misidentification]. Wei et al. 1998a: 676.
Zaphne verticina (Zetterstedt) [misidentification]. Xue et al. 2009: 427.
Distribution in China. Xinjiang.
Taxonomic note. Misidentification first noted by Griffiths (1998: 1982).

Zaphne venatifurca (Zhong, 1985)
Hydrophoria venatifurca Zhong. Wei et al. 1998a: 676.
Zaphne venatifurca (Zhong). Xue et al. 2009: 427.
Distribution. Xizang.

Zaphne ventribarbata (Hsue, 1981)
Hydrophoria ventribarbata Hsue. Wei et al. 1998a: 676.
Zaphne ventribarbata (Hsue). Xue et al. 2009: 427.
Distribution. Jilin.

Zaphne wierzejskii (Mik, 1867)
Hydrophoria wierzejskii (Mik). Wei et al. 1998a: 676.
Zaphne wierzejskii (Mik). Xue et al. 2009: 427.
Distribution in China. Heilongjiang, Liaoning, Neimenggu, Shanxi, Qinghai, Xinjiang.
Zaphne zetterstedtii (Ringdahl, 1918)
Hydrophoria zetterstedti [misspelling of zetterstedtii] (Ringdahl). Wei et al. 1998a: 676.
Zaphne zetterstedtii [misspelling of zetterstedtii] (Ringdahl). Xue et al. 2009: 428.
Distribution in China. Heilongjiang, Sichuan.

Valid species removed from the list of Chinese Anthomyiidae

Eutrichota schineri (Schnabl, 1910)
A record from NE China by Suwa (1999: 224) is mistaken and refers to E. socculata (Zetterstedt).

Lasiomma seminitidum (Zetterstedt, 1845)
Recorded from NE China by Suwa (1999: 224), but this refers to L. craspedodontum (Xue) as clarified by Suwa (2005: 93).

Identity of Heteroterma fanjingensis Wei

Wei (2006b: 531) proposed in the family Anthomyiidae a new genus Heteroterma for a new species fanjingensis based on 1 male, 1 female from Guizhou, China. On inspection of the original illustrations of the male and female terminalia it occurred to one of us (VM) that they might belong to a species of Scathophagidae rather than Anthomyiidae. Dr AL Ozerov, Zoological Museum, Moscow State University, was consulted and he immediately identified this nominal species that he did not know about beforehand. The nomenclatorial implications are summarized below.

Genus Scathophaga Meigen, 1803
Syn.: Heteroterma Wei, 2006, syn. n.
[name preoccupied by Heteroterma Gabb, 1869 in Tudiclidiae, a fossil gastropod family]

Scathophaga curtipilata Feng, 2002
Heteroterma fanjingensis Wei, 2006, syn. n.
Scatomyza fansipanicola Ozerov in Ozerov & Krivosheina, 2011, syn. n.
Distribution. China: Sichuan, Guizhou; Vietnam (Feng 2002: 365; Wei 2006b: 531; Ozerov and Krivosheina 2011: 5).
Taxonomic note. Ozerov and Krivosheina (2011: 3) proposed a revival of the genus Scatomyza Fallén for a group of species previously recognized in Scathophaga Meigen. This is not followed here, as this may well result in a paraphyletic Scathophaga s. str.
Discussion

We have attempted to consult all relevant publications on Chinese Anthomyiidae in the preparation of the above supplementary catalogue of Anthomyiidae covering both mainland China and Taiwan. The anthomyiid fauna of mainland China comprises 675 species in 37 genera which corresponds to more than one-third of the known world fauna and 84% of the currently recognized anthomyiid genera. One genus (*Sinophorbia* Xue, 1997) and c. 425 species of Anthomyiidae are presently regarded as endemic to mainland China; other 6 species are endemic to Taiwan. However, a revisional study of the difficult and species rich genus *Botanophila* in North America is still pending and may expectedly show that a substantial number of the species currently listed as endemic to China in reality are more widespread, northern Holarctic species.

As shown in the bar graph (Fig. 1), species have been described or newly recorded from mainland China all years since the publication of the regional monograph by Fan et al. (1988). The bar graph suggests that the knowledge about anthomyiid species diversity in China is still far from exhaustive. Predictably, many new species await discovery and description, especially from inaccessible high altitude regions such as the Tibetan Plateau.

Acknowledgements

Wang, Li and Zhu thank Zide Fan, Xianwei Liu, and Li Dai (Shanghai Entomological Museum, Chinese Academy of Sciences) for help with literature. We all want to express our special gratitude to Michael Ackland (Oxford University Museum of Natural History, Oxford) for his critical reading of an earlier version of the manuscript and invaluable corrections and suggestions that have significantly improved the content of this paper. This project was supported by key project of Science-technology basic condition platform from The Ministry of Science and Technology of the People’s Republic of China (Grant No. 2005DKA21402).

Figure 1. Number of anthomyiid species described or newly recorded from China and Taiwan all years from 1989 to 2013, a time span of 25 years.
References

Ackland DM (1987) The genus Anthomyia in the Oriental region. Insecta Matsumurana (N.S.) 36: 39–60.

Ackland DM (1993) Revisionary notes on the genus Phorbia (Diptera: Anthomyiidae) with descriptions of three new species from the Czech Republic and Georgia (Palaearctic Region). European Journal of Entomology 90: 209–226.

Ackland DM (2010) Additions and changes to the British List of Anthomyiidae (Diptera). Dipterists Digest 17: 79–82.

Barták M, Michelsen V, Rozkošný R (1990) New records of Anthomyiidae from Czechoslovakia, with a revised check list of Czechoslovak species (Diptera). Scripta Facultatis Scientiarum Naturalium Universitatis Purkyniensis Brunensis 20(9–10): 439–450.

Chen ZZ, Fan ZD (1995) A new species of Anthomyiidae from Qinghai, China (Diptera). Acta Zootaxonomica Sinica 20(4): 492–494. [in Chinese with English summary]

Ci YL, Yang C (1986) A preliminary investigation of flies in Xining Region. Journal of Qinghai Medical College 2: 24–29. [in Chinese with English summary]

Cui CY, Li SJ, Fan ZD (1993) Two new species of Anthomyiidae (Diptera) from Northeast China. Contributions from Shanghai Institute of Entomology 11: 137–140. [in Chinese with English summary]

Deng AX (1993) Two new species belonging to tibetana Group of genus Pegohylemyia in China (Diptera: Anthomyiidae). Journal of West China University of Medical Sciences 24(1): 58–61. [in Chinese with English summary]

Deng AX, Geng L, Liu Y, Li L (1995) Reports on two species of Pegohylemyia tibetana Group in Xiling Snow Mountain of Dayi County, Sichuan, China (Anthomyiidae, Diptera). Journal of West China University of Medical Sciences 26(1): 58–60. [in Chinese with English summary]

Deng AX, Li L (1993) Note on a new species of genus Pegomya and a new record of genus Paradelia in Northwest Sichuan (Anthomyiidae: Diptera). Sichuan Journal of Zoology 12 (4): 8–10. [in Chinese with English summary]

Deng AX, Li L (1994) Descriptions of three new species of the genus Delia, Anthomyiidae, Diptera in Sichuan, China. Journal of West China University of Medical Sciences 25(1): 18–21. [in Chinese with English summary]

Deng AX, Li L, Liu Y (1996) Notes on three new species of the genus Pegohylemyia from Northwestern Sichuan (Diptera: Anthomyiidae). Acta Entomologica Sinica 39(4): 426–429. [in Chinese with English summary]

Deng AX, Liu Y, Li L (1995) Two new species of Pegohylemyia tibetana Group in Xiling Snow Mountain of Dayi County in Sichuan, China (Diptera, Anthomyiidae). Journal of West China University of Medical Sciences 26(4): 375–377. [in Chinese with English summary]
Fan ZD, Chen ZZ (1992) Two new species of the genus *Anthomyia* from Hainan, China. Chinese Journal of Vector Biology and Control 3(4): 197–199. [in Chinese with English summary]

Fan ZD, Chen ZZ, Chen HL (1993) A new species of the genus *Pegohylemyia* (Diptera: Anthomyiidae) from Henan, China. Entomotaxonomia 15(1): 59–61. [in Chinese with English summary]

Fan ZD, Chen ZZ, Fang JM (1987) Diptera: Anthomyiidae, Muscidae, Calliphoridae, Sarcoptagidae. In: Zhang SM (Ed.) Agricultural insects, spiders, plant diseases and weeds of Xizang 1. Tibet People’s Press, Lhasa, 299–306. [in Chinese with English summary]

Fan ZD, Chen ZZ, Ma SY (1989) *Lopesohylemya*, a new genus of Anthomyiidae (Diptera) from Qinghai, China. Memórias do Instituto Oswaldo Cruz 84 (Suppl. 4): 567–568. doi: 10.1590/S0074-02761989000800097

Fan ZD, Chen ZZ, Ma SY (2000) Two new species of Anthomyiidae (Diptera) from Qinghai, China. Entomotaxonomia 22(2): 129–133. [in Chinese with English summary]

Fan ZD, Chen ZZ, Ma ZY, Ge FX (1982) On some new species of Anthomyiidae from China (Diptera). Contributions from Shanghai Institute of Entomology 2 [1981]: 221–239. [in Chinese with English summary]

Fan ZD, Chen ZZ, Ma SY, Wu Y (1984) New species of the family Anthomyiidae (Diptera) from Qinghai Province, China, I. Contributions from Shanghai Institute of Entomology 4: 239–253. [in Chinese with English summary]

Fan ZD, Huang JC, Zou MQ, Wu JY (1984) A preliminary report on Anthomyiidae from Wuyi Mountain, with descriptions of two new species of the genus *Pegomya* (Diptera: Anthomyiidae). Wuyi Science Journal 4: 219–223. [in Chinese with English summary]

Fan ZD, Li SJ, Cui CY (1993) Two new species of the genus *Phorbia* from Henan, China. Contributions from Shanghai Institute of Entomology 11: 133–136. [in Chinese with English summary]

Fan ZD, Sun CH, Chen ZZ, Ma SY, Wu L, Ge FX, Xue WQ, Cui CY, Wang CS, Ma CY, Wang CJ, Jin ZY, Jiang TJ, Qian JQ, Li R (1988) Diptera: Anthomyiidae. Economic Insect Fauna of China 37. Science Press, Beijing, China, 396 pp., 10 pls. [in Chinese with English summary]

Fan ZD, Zheng SS (1992) Anthomyiidae. In: Chen SX (Ed.) Insects of the Hengduan Mountains Region 2. Science Press, Beijing, 1127–1165. [in Chinese with English summary]

Feng Y (2002) One new species of *Scathophaga* from Western Sichuan, China (Diptera: Scathophagidae). Chinese Journal of Vector Biology and Control 13(5): 365–366. [in Chinese with English summary]

Feng Y (2006) Three new species and a new record of the Anthomyiidae from Sichuan, China (Diptera: Muscoideia). Entomological Journal of East China 15(1): 1–6. [in Chinese with English summary]

Feng Y, Fan ZD, Zeng WZ (1999) Three new species of Calyptratae from Sichuan, China (Diptera: Anthomyiidae, Muscidae). Chinese Journal of Vector Biology and Control 10 (5): 321–324. [in Chinese with English summary]

Feng Y, Qian WP, He JH (2010) Anthomyiidae from Sichuan. Sichuan Science and Technology Press, Chengdu, 65 pp. [in Chinese with English summary]
Supplementary catalogue of the Anthomyiidae (Diptera) of China

Ge FX, Li SJ (1985) Two new species of Anthomyiidae from Henan Province (Diptera). Zoological Research 6(3): 232–242. [in Chinese with English summary]

Griffiths GCD (1984) Anthomyiidae [part]. In: Lindner E (Ed.) Flies of the Nearctic Region 8 (2) 4. E. Schweizerbart, Stuttgart, 409–600.

Griffiths GCD (1987) Anthomyiidae [part]. In: Lindner E (Ed.) Flies of the Nearctic Region 8 (2) 6. E. Schweizerbart, Stuttgart, 729–952.

Griffiths GCD (1993) Anthomyiidae [part]. In: Lindner E (Ed.) Flies of the Nearctic Region 8 (2) 10. E. Schweizerbart, Stuttgart, 1417–1632.

Griffiths GCD (1996) Anthomyiidae [part]. In: Lindner E (Ed.) Flies of the Nearctic Region 8 (2) 11. E. Schweizerbart, Stuttgart, 1633–1872.

Griffiths GCD (1998) Anthomyiidae [part]. In: Lindner E (Ed.) Flies of the Nearctic Region 8 (2) 12. E. Schweizerbart, Stuttgart, 1873–2120.

Griffiths GCD (2001) Flies of the Nearctic Region, Cyclorrhapha II (Schizophora: Calyptratae) Anthomyiidae 8 (2) 13. Schweizerbart, Stuttgart, 2121–2288.

Griffiths GCD (2003) Flies of the Nearctic Region, Cyclorrhapha II (Schizophora: Calyptratae) Anthomyiidae 8 (2) 14. Schweizerbart, Stuttgart, 2289–2484.

Hennig W (1966) Anthomyiidae [part]. In: Lindner E (Ed.) Die Fliegen der palaearktischen Region 7 (1) Lief. 268. E. Schweizerbart, Stuttgart, 49–96.

Hennig W (1970) Anthomyiidae [part]. In: Lindner E (Ed) Die Fliegen der palaearktischen Region 7 (1) Lief. 283. E. Schweizerbart, Stuttgart, 377–424.

Hennig W (1972) Anthomyiidae [part]. In: Lindner E (Ed.) Die Fliegen der palaearktischen Region 7 (1) Lief. 294. E. Schweizerbart, Stuttgart, 425–472.

Hennig W (1973) Anthomyiidae [part]. In: Lindner E (Ed.) Die Fliegen der palaearktischen Region 7 (1) Lief.297. E. Schweizerbart, Stuttgart, 593–680.

Hennig W (1976) Anthomyiidae [part]. In: Lindner E (Ed.) Die Fliegen der palaearktischen Region 7 (1) Lief. 314. E. Schweizerbart, Stuttgart, 921–974.

Hsue WC (1981) Four new species of the Anthomyiidae from Liaoning and Kirin, China (Diptera: Anthomyiidae). Acta Entomologica Sinica 24(1): 89–96. [in Chinese with English summary]

Hsue WC (1983) A catalog of Anthomyiidae from Liaoning Province. Transactions of Liaoning Zoological Society 4(2): 45–60. [in Chinese with English summary]

Huckett HC (1971) The Anthomyiidae of California exclusive of the subfamily Scatophaginaceae (Diptera). Bulletin of the California Insect Survey 12: 1–121.

Li SJ, Cui CY, Fan ZD (1993) Descriptions of two Anthomyiidae species from Henan Province (Diptera). Contributions from Shanghai Institute of Entomology 11: 129–132. [in Chinese with English summary]

Li SJ, Liu CL, Fan ZD, Cui CY (1999) Descriptions of three new Pegomya species from Henan, China (Diptera: Anthomyiidae). Chinese Journal of Vector Biology and Control 10(4): 241–245. [in Chinese with English summary]

Michelsen V (1979) Notes on the identity and type-material of the Anthomyiidae, Fanniidae, and Muscidae (Diptera) described by J.C. Fabricius. Steenstrupia 5: 181–196.

Michelsen V (1985) A revision of the Anthomyiidae (Diptera) described by J.W. Zetterstedt. Steenstrupia 11(2): 37–65.
Michelsen V (1988) A world revision of *Strobilomyia* gen. n.: the anthomyiid seed pests of conifers (Diptera: Anthomyiidae). Systematic Entomology 13: 271–314. doi: 10.1111/j.1365-3113.1988.tb00244.x

Michelsen V (2004) Anthomyiidae. In: Pape T (Ed.) Diptera Brachycera. Fauna Europaea ver. 1.0. [Ver. 2.6.2 available from http://www.faunaeur.org]

Michelsen V (2009) Revision of the willow catkin flies, genus *Egle* Robineau-Desvoidy (Diptera: Anthomyiidae), in Europe and neighbouring areas. Zootaxa 2043: 1–76.

Michelsen V (2011) Anthomyiidae. In: Pape T (Ed.) Diptera Brachycera. Fauna Europaea ver. 2.4. [Ver. 2.6.2 available from http://www.faunaeur.org]

Michelsen V (2014) Taxonomic assessment of *Chirosiomima* Hennig (Diptera: Anthomyiidae), with proposal of a new genus for *Hylemyia curtigena* Ringdahl. Zootaxa 3790: 86–102. doi: 10.11646/zootaxa.3790.1.4

Ozerov AL, Krivosheina MG (2011) To the knowledge of dung flies (Diptera, Scathophagidae) of Vietnam, with the description of a new species. Far Eastern Entomologist 228: 1–10.

Pont AC, Ackland DM (2009) The types of Anthomyiidae (Diptera) in the Museum für Naturkunde Berlin, Germany. Zoosystematics and Evolution 85(1): 5–56. doi: 10.1002/zoos.200800015

Pont AC, Xue WQ (2007) The publication date of “Flies of China”. Studia Dipterologica 14 (1): 159–160.

Qian JQ, Ma DX, Fan ZD, Xue WQ, Zhao JM, Ni T, Yao ZX, Xiang CQ, Xu TS (1998) Studies on flies in Xinjiang: I. Anthomyiidae. Endemic Diseases Bulletin 13(2): 74–77. [in Chinese with English summary]

Roques A, Sun JH, Zhang XD, Pan YZ, Xu YB, Delplanque A (1996) Cone flies, *Strobilomyia* spp. (Diptera: Anthomyiidae), attacking larch cones in China, with description of a new species. Mitteilungen der Schweizerischen Entomologischen Gesellschaft 69(3–4): 417–429.

Roques A, Sun JH, Sachet J-M, Pan YZ (2003) Review of cone fly species, *Strobilomyia* spp. (Diptera: Anthomyiidae), affecting conifer natural regeneration in the Far East. Acta Entomologica Sinica 46(3): 363–381.

Song WH, Xue WQ, Wang MF (2007) Study on faunistic distribution of genus *Pegomya* in China. Journal of Shenyang Normal University (Natural Science) 25(2): 229–232. [in Chinese with English summary]

Stein P (1907) Zur Kenntnis der Dipteren von Central-Asien. II. Cyclorrhapha schizophora schizometopa. Die von Roborowsky und Kozlov in der Mongolei und Tibet gesammelten Anthomyiiden. Ezhegodnik Zoologicheskogo Muzeya Imperatorskoi Akademii Nauk, St. Petersburg 12: 318–372.

Stein P (1915) H. Sauter’s Formosa Ausbeute. Anthomyiidae (Dipt.). Supplementa Entomologica 4: 13–56.

Stein P (1918) Zur weiten Kenntnis aussereuropäischer Anthomyiiden. Annales Historico-Naturales Musei Nationalis Hungarici 16: 147–244.

Sun JH, Roques A, Zhang XD, Li H (1995) New larch cone and seed insect pest – *Strobilomyia Svenssoni* Michelsen. Journal of Northeast Forestry University 23(4): 10–13. [in Chinese with English summary]
Supplementary catalogue of the Anthomyiidae (Diptera) of China

Sun JH, Roques A, Zhang XD, Xu YB (1996) Egg morphology and oviposition patterns of the Strobilomyia spp. (Diptera: Anthomyiidae) flies damaging Siberian larch cones in northeastern China. Entomologica Sinica 3(2): 145–152.

Suwa M (1974) Anthomyiidae of Japan (Diptera). Insecta Matsumurana (N.S.) 4: 1–247.

Suwa M (1985) Redescription of Hydrophoria aberrans Stein from Taiwan (Diptera: Anthomyiidae). Akitu (N.S.) 74: 1–10.

Suwa M (1991) A revision of the genus Emmesomyia Malloch in Japan (Diptera: Anthomyiidae). Insecta Matsumurana (N.S.) 45: 1–48.

Suwa M (1994a) Some species of the genus Delia from Taiwan, with description of a new species (Diptera: Anthomyiidae). Proceedings of the Japanese Society of Systematic Zoology 51: 63–68.

Suwa M (1994b) A new species closely related to Phorbia fascicularis Tien-su (Diptera, Anthomyiidae). Japanese Journal of Entomology 62(3): 529–536.

Suwa M (1996) Some species of the genus Botanophila from Taiwan, with descriptions of three new species (Diptera: Anthomyiidae). Oriental Insects 30: 137–153. doi: 10.1080/00305316.1996.10433834

Suwa M (1999) Japanese records of anthomyiid flies (Diptera: Anthomyiidae). Insecta Matsumurana (N.S.) 55: 203–244.

Suwa M (2005) Supplementary notes on the family Anthomyiidae of Japan (Diptera), VI. Insecta Matsumurana (N.S.) 61: 87–106.

Tian ZF, Ma ZY (1999) A new species of the genus Delia Robineau-Desvoidy from China (Diptera: Anthomyiidae). Acta Zootaxonomica Sinica 24(2): 217–218.

Wang DD, Du J, Xue WQ (2006) Research of genus Botanophila from China (Diptera: Anthomyiidae). Journal of Medical Pest Control 22(3): 157–162. [in Chinese with English summary]

Wang MF (1983) New records of Anthomyiidae and Fanniidae from China. Acta Zootaxonomica Sinica 8(4): 412. [in Chinese with English summary]

Wang MF (1995) Two new records of Anthomyiidae from China. Acta Zootaxonomica Sinica 20(1): 94. [in Chinese with English summary]

Wei LM (2006a) Anthomyiidae. In: Jin DC, Li ZZ (Eds) Insects from Chishui spinulose tree fern landscape. Guizhou Science and Technology Publishing House, Guiyang, 286–289. [in Chinese with English summary]

Wei LM (2006b) Anthomyiidae. In: Li ZZ, Jin, DC (Eds) Insects from Fanjingshan landscape. Guizhou Science and Technology Publishing House, Guiyang, 525–541. [in Chinese with English summary]

Wei LM, Xue WQ, Cui CY (1998a) The family Anthomyiidae of China (Diptera). In: Xue WQ, Chao CM (Eds) Flies of China. Volume 1 [1996]. Liaoning Science and Technology Press, Shenyang, 634–808. [in Chinese with English summary]

Wei LM, Xue WQ, Cui CY (1998b) The family Anthomyiidae of China (Diptera). In: Xue WQ, Chao CM (Eds) Flies of China. Volume 2 [1996]. Liaoning Science and Technology Press, Shenyang, 2266–2278, 2301–2307. [in Chinese with English summary]

Wu CG, Liu GB, Wei LM (1995) A new species of Hydrophoria (Diptera: Anthomyiidae) from Guizhou, China. Entomotaxonomia 17(4): 290–292. [in Chinese with English summary]
Wu YQ, Zhang GQ (1988) Eight new records of species of family Anthomyiidae from China. Journal of the Fourth Military Medical University 9(5): 348–349. [in Chinese with English summary]

Xue WQ (1997) Diptera: Anthomyiidae. In: Yang XK (Ed.) Insects of the Three Gorge Reservoir Area of Yangtze River. Chongqing Publishing House, Chongqing, 1491–1497. [in Chinese with English summary]

Xue WQ (2001a) Two new species of the Anthomyiidae from Yunnan Province, China (Diptera: Anthomyiidae). Zoological Research 22(4): 306–309.

Xue WQ (2001b) Three new species of the Anthomyiidae from Yunnan Province, China (Diptera: Anthomyiidae). Zoological Research 22(6): 485–489. [in Chinese with English summary]

Xue WQ (2002) Three new species of the genus Delia (Diptera: Anthomyiidae) from Gansu Province, China. Entomologia Sinica 9(1): 73–78

Xue WQ (2003) Three new species of the genus Pegomya from Yunnan Province, China (Diptera: Anthomyiidae). Acta Entomologica Sinica 46(1): 80–84.

Xue WQ, Bai SC, Dong WX (2009) A review of the genera Hydrophoria and Zaphne from China, with the descriptions of two new species (Diptera: Anthomyiidae). Entomological News 120(4): 415–429. doi: 10.3157/021.120.0411

Xue WQ, Chao CM (Eds) (1998a) Flies of China. Volume 1 [1996]. Liaoning Science and Technology Press, Shenyang, 1–1365. [in Chinese with English summary] [Note: The two-volume set “Flies of China” bears a date of December 1996, but the actual date of publication was May 1998 (Pont et Xue 2007).]

Xue WQ, Chao CM (Eds) (1998b) Flies of China. Volume 2 [1996]. Liaoning Science and Technology Press, Shenyang, 1–17, 1366–2425, 32 colour plates. [in Chinese with English summary]

Xue WQ, Dong WX, Bai SC (2012) A study on the genus Eutrichota (Diptera: Anthomyiidae), with descriptions of three new species from China. Oriental Insects 44(1): 77–90. doi: 10.1080/00305316.2010.10417608

Xue WQ, Du J (2008) Two new species of Delia, with a key to the males of the world species of the interflua group (Diptera: Anthomyiidae). Entomological News 119(2): 113–122. doi: 10.3157/0013-872X(2008)119[113:TNSODW]2.0.CO;2

Xue WQ, Du J (2009) The Holarctic species of the Delia alaba subsection, with descriptions of two new species (Diptera: Anthomyiidae). Entomologica Americana 115(2): 154–159. doi: 10.1664/07-RA-003.1

Xue WQ, Liu YN (2013) A new species of Engyneura Stein (Diptera: Anthomyiidae) from China with key to species. Oriental Insects 47(2–3): 144–149. doi: 10.1080/00305316.2013.811012

Xue WQ, Song WH (2007) A review of the genus Botanophila Lioy (Diptera: Anthomyiidae) from China, with descriptions of three new species. Zootaxa 1633: 1–38.

Xue WQ, Wang DD (2010) Four new species of the genus Botanophila Lioy (Diptera: Anthomyiidae) from China. Annales de la Société entomologique de France (N.S.) 46(3–4): 453–463.

Xue WQ, Yang M (2002) Four new species and two new record species of the genus Botanophila (Diptera: Anthomyiidae) from China. Entomologia Sinica 9(2): 73–79.
Xue WQ, Zhang XZ (1996a) Anthomyiidae. In: Fan SQ, Guan G (Eds) Insects of the Karakorum–Kunlun Mountains. Science Press, Beijing, 195–212. [in Chinese with English summary]
Xue WQ, Zhang XZ (1996b) Anthomyiidae. In: Wu SG, Feng ZJ (Eds) The Biology and Human Physiology in the Hoh Xil Region. Science Press, Beijing, 167–191. [in Chinese with English summary]
Xue WQ, Zhang XZ (2004) Anthomyiidae. In: Yang XK (Ed.) Insect from Mountain Shiwan dashedan Area of Guangxi. China Forestry Publishing House, Beijing, 546–547. [in Chinese with English summary]
Xue WQ, Zhang XZ (2005) Anthomyiidae. In: Yang XK (Ed.) Insect Fauna of Middle–West Qingling Range and South Mountains of Gansu Province. Science Press, Beijing, 787–797. [in Chinese with English summary]
Zhang LF, Sun JZ (1997) A new species of the genus Anthomyia from Liaoning, China (Diptera: Anthomyiidae). Zoological Research 18(1): 23–25. [in Chinese with English summary]
Zhang LF, Zhang DL (1998) A new species of Leucophora from Liaoning, China (Diptera: Anthomyiidae). Acta Entomologica Sinica 41(1): 103–105. [in Chinese with English summary]
Zhang XF, Fan ZD, Zhu WB (2011) Two new species of the genus Phorbia (Diptera: Anthomyiidae) from China. Acta Zootaxonomica Sinica 36(2): 297–300.
Zhang XF, Zhu WB (2014) The types of Anthomyiidae (Diptera) in the Shanghai Entomological Museum, Chinese Academy of Science, China. Zootaxa 3756(1): 1–67. doi: 10.11646/zootaxa.3756.1.1
Zhao BG (1983) New records of Muscoidea from China. Zoological Research 5: 24. [in Chinese]
Zheng LJ, Xue WQ (2002) Two new species of the Anthomyiidae from Liaoning Province, China (Diptera: Anthomyiidae). Acta Zootaxonomica Sinica 27(1): 158–161. [in Chinese with English summary]
Zheng SS, Fan ZD (1990) Descriptions of some new species of family Anthomyiidae from Western China (Diptera). Contributions from Shanghai Institute of Entomology 9: 181–187. [in Chinese and English]