



•生物编目• 2020年新物种专题

2020年中国双翅目新分类阶元

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摘要: 本文总结了2020年中国双翅目分类研究的进展以及分类学者们对双翅目分类的科学贡献, 并对中国双翅目新分类单元的种类、分布地、发表期刊以及发表新分类单元数量的学者进行了统计。基于统计得到的中国双翅目标本2020年发表的3新属113新种, 本研究发现果蝇科(*Drosophilidae*) (31新种)、縕蝇科(*Lauxaniidae*) (17新种)和摇蚊科(*Chironomidae*) (17新种)新分类单元最多; 云南(43新种)、西藏(19新种或新属)和四川(17新种或新属)发现的新分类单元最多; 发表新分类单元最多的期刊为*ZooKeys* (30新种或新属)、*Zootaxa* (27新种或新属) 和《昆虫分类学报》(22新种或新属); 发表新分类单元最多的双翅目学者分别为华南农业大学陈宏伟团队、中国农业大学杨定团队和南开大学王新华团队。

关键词: 分类学; 新分类单元; 分类学者; 双翅目; 中国

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New taxa of Diptera from China in 2020

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ABSTRACT

Aims: In order to outline the contributions and advances of Diptera taxonomy in China in 2020, we summarize the detailed information of the new taxa, species distribution, and publication cases.

Methods: Potential source articles were searched and identified from online resources. The Chinese National Knowledge Infrastructure, Web of Science, Elsevier, Springer, and other related academic literature index databases were searched.

Results: Totally three new genera and 113 new species of Diptera were reported from China in 2020. We ranked the publications from different perspectives: the most newly described taxa were found in *Drosophilidae* (31 new species), *Lauxaniidae* (17 new species), and *Chironomidae* (17 new species); the regions with the greatest number of new taxa were Yunnan (43 new species), Xizang (19 new species or genera) and Sichuan (17 new species or genera); the journals with the most published new taxa are *ZooKeys* (30 new species or genera), *Zootaxa* (27 new species or genera) and *Entomotaxonomia* (22 new species or genera); The research groups that published the most new taxa are Hongwei Chen, Ding Yang, and Xinhua Wang.

Conclusion: Some progress has been made in the Chinese Diptera classification in 2020, however, gathering a deeper understanding of the dipteran taxonomy remains challenging due to the relatively short research history and insufficient and uneven research foundation. Diptera is a major order of insects, with about 150,000 described species and perhaps more than a quarter of a million species. According to our statistics, 113 new species were described in China last year, then it can be seen that the taxonomic research of Diptera in China has a long way to go. More professionals, more taxonomic group coverage, and wider international collaboration would contribute to the Chinese Diptera research to a higher level.

Key words: taxonomy; new taxon; taxonomist; Diptera; China

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双翅目昆虫是世界上种类最为繁多的类群之一，作为昆虫纲四大目之一，它们分布极其广泛，除了深海等极端环境外几乎遍布世界七大洲的各个角落。据统计，已被描述的双翅目昆虫包含200多个科的159,294个现生物种以及3,817个化石种，分别隶属于2个主要的亚目——长角亚目(Nematocera)和短角亚目(Brachycera) (Pape et al, 2011)。其中短角亚目昆虫较为进化，也是更为复杂多样的类群之一。

双翅目昆虫食性各异，有植食性、肉食性、腐食性和寄生性等。虽然双翅目昆虫体型较小，并不起眼，但它们对于人类的生产生活却有重要的影响。其中传粉昆虫包括蚜蝇科(Syrphidae)和蜂虻科(Bombyliidae)等，由于在生态环境中的重要作用，近年来尤其受到科学界的关注(Wu & Zheng 2019);以实蝇科(Tephritidae)和潜蝇科(Agromyzidae)为代表的农业害虫每年都会给农业生产造成巨大损失;卫生昆虫蚊科(Culicidae)和蝇科(Muscidae)的一些种类甚至造成世界上每年超过200万人死亡(Ssymank et al, 2008; Peng et al, 2020; Yang et al, 2020b)。本文总结了2020年中国双翅目分类学方面的研究情况，包括中国双翅目分类研究的进展以及成果。

1 数据来源

本研究通过检索工具搜索关键字或关键词得到目的资料，再根据期刊(表2)具体文献进行数据统计。关键字或关键词有: 2020、中国(China)、200多个双翅目(亚)科的中文名和拉丁名、分类阶元(taxa)、新属(new genus)和新种(new species)等。文献检索工具包括中国知网(<https://www.cnki.net/>)、Web of Science (<http://www.webofscience.com/>)、Elsevier (<https://www.elsevier.com/>)和Springer (<https://link.springer.com/>)等。

2 结果

2.1 2020年中国双翅目新分类单元

如表1所示，2020年发表了中国双翅目116个新分类单元，包括3个新属和113个新种，隶属于16个科。这16个科中，有3个科包含10个以上的新分类单元，分别是果蝇科(Drosophilidae) (31)、縠蝇科(Lauxaniidae) (17)和摇蚊科(Chironomidae) (17)。以

表1 2020年中国双翅目新分类单元
Table 1 List of new taxa of Diptera from China in 2020

科(全世界数量*) Families (Total number around the world*)	新属 New genus	新种 New species	总数 Total
果蝇科 Drosophilidae (4,017)		31	31
縠蝇科 Lauxaniidae (1,900)		17	17
摇蚊科 Chironomidae (7,290)		17	17
大蚊科 Tipulidae (4,334)		7	7
瘿蚊科 Cecidomyiidae (6,296)	1	6	7
沼大蚊科 Limoniidae (10,732)		6	6
蝇科 Muscidae (5,218)		5	5
长足虻科 Dolichopodidae (7,358)		4	4
狂蝇科 Oestridae (176)		4	4
舞虻科 Empididae (3,142)	1	3	4
蚤蝇科 Phoridae (4,202)	1	3	4
蠓科 Ceratopogonidae (5,902)		3	3
蚜蝇科 Syrphidae (6,107)		3	3
寄蝇科 Tachinidae (9,626)		2	2
尖尾蝇科 Lonchaeidae (504)		1	1
麻蝇科 Sarcophagidae (3,094)		1	1
总计 Total	3	113	116

* Pape et al, 2011; Oosterbroek 2021

上3个科的新分类单元总数占16个科新分类单元总数的56.03%，其余13个科新分类单元均在10个以下，总数占43.97%。

2.2 2020年中国双翅目新分类单元发表期刊

如表2所示，116个新分类单元分别发表在14个国内外期刊上。有4个期刊发表了10个以上的新分类单元，分别是ZooKeys (30)、Zootaxa (27)、《昆虫分类学报》(22)和Zoological Journal of the Linnean Society (17)。以上 4个期刊的新分类单元总数占新分类单元总数的82.76%，其余10个期刊新分类单元均在10个以下，总数占17.24%。

2.3 2020年中国双翅目新分类单元各省区分布

如表3所示，116个新分类单元分布在我国21个省、市及自治区。有4个省区分布了10个以上的新分类单元，分别是云南(43)、西藏(19)、四川(17)和浙江(11)。

2.4 2020年中国双翅目新分类单元团队或学者贡献

如表4所示，2020年发表了中国双翅目116个新分类单元，分别由国内外专家团队或学者完成。有3

表2 2020年中国双翅目新分类单元发表期刊列表

Table 2 Publications list of new taxa of Diptera from China in 2020

期刊 Journals	新属 New genus	新种 New species	总数 Total
<i>ZooKeys</i>	1	29	30
<i>Zootaxa</i>	1	26	27
《昆虫分类学报》 <i>Entomotaxonomia</i>	1	21	22
<i>Zoological Journal of the Linnean Society</i>	0	17	17
<i>Journal of Asia-Pacific Entomology</i>	0	4	4
<i>Oriental Insects</i>	0	4	4
《动物分类学报》 <i>Zoological Systematics</i>	0	3	3
《中国国境卫生检疫杂志》 <i>Chinese Journal of Frontier Health and Quarantine</i>	0	2	2
<i>Annales Zoologici Fennici</i>	0	2	2
《中国媒介生物学及控制杂志》 <i>Chinese Journal of Vector Biology and Control</i>	0	1	1
<i>Diversity</i>	0	1	1
<i>Entomological Science</i>	0	1	1
<i>The Pan-Pacific Entomologist</i>	0	1	1
<i>Transactions of the American Entomological Society</i>	0	1	1
合计 Total	3	113	116

表3 2020年中国双翅目新分类单元各省/区列表

Table 3 Provinces(City or Autonomous region)list of new taxa of Diptera from China in 2020

省(市或自治区) Province/region	新属 New genus	新种 New species	总数 Total
云南 Yunnan		43	43
西藏 Xizang	1	18	19
四川 Sichuan	1	16	17
浙江 Zhejiang		11	11
海南 Hainan		6	6
台湾 Taiwan		4	4
贵州 Guizhou		4	4
广西 Guangxi		4	4
陕西 Shaanxi	1	3	4
辽宁 Liaoning	1	3	4
宁夏 Ningxia		3	3
河北 Hebei	1	2	3
黑龙江 Heilongjiang		2	2
内蒙古 Inner Mongolia		2	2
广东 Guangdong		2	2
青海 Qinghai		2	2
北京 Beijing	1	1	2
福建 Fujian		1	1
甘肃 Gansu		1	1
江西 Jiangxi		1	1
河南 Henan		1	1
合计 Total	3*	113	116

* 新属 *Pekinomyia* 分布在多个省份 The new genus is distributed in multiple provinces

个专家团队发表了10个以上的新分类单元, 分别是华南农业大学陈宏伟团队、中国农业大学杨定团队和南开大学王新华团队。以上3个团队的新分类单

表4 2020年中国双翅目命名10个以上新分类单元的学者

Table 4 List of scholars that named the new taxa for over 10 of Diptera from China in 2020

	陈宏伟 Hongwei Chen	杨定 Ding Yang	王亚莲 Yalian Wang	李文亮 Wenliang Li	王新华 Xinhua Wang
果蝇科 Drosophilidae	29		24		
縗蝇科 Lauxaniidae		16		16	
摇蚊科 Chironomidae					11
大蚊科 Tipulidae		2			
沼大蚊科 Limoniidae		2			
长足虻科 Dolichopodidae		4			
舞虻科 Empididae		4*			
合计 Total	29	28*	24	16	11

* 新属及新种 New genus and new species

元总数占整个双翅目分类学者发表的新分类单元总数的58.62%, 其余双翅目分类团队或学者发表的新分类单元均在10个以下, 总数占41.37%。

3 小结


中国双翅目分类工作主要集中在数量较大的类群上, 例如果蝇科和摇蚊科等, 而大部分数量较小类群分类工作相对匮乏, 例如狂蝇科和尖尾蝇科等, 且大部分数量小的类群多年并无新的报道和研究, 加之中国双翅目分类学者也相对较少, 因此


大量的双翅目新分类单元有待发现 (Yang et al, 2020a, b)。从发表新分类单元的期刊来看, 分类工作者们主要把成果发表在传统分类学期刊上, 发表在其他期刊上的新分类单元相对较少, 这也说明了分类学工作与其他领域的结合相对不足。随着科学技术的进步与发展, 传统分类工作也需要更多的跨学科和跨领域的交流合作, 这对传统分类工作是一种挑战, 但也是新的突破和机遇。从新分类单元的分布情况不难看出, 我国西南地区的新分类单元占绝大多数, 这和我国整体的气候、植被类型以及其他多种自然和人文因素密不可分。西南地区多样的自然环境条件孕育了丰富的物种资源, 成为生物多样性分化和研究热点地区。

尽管2020年中国双翅目分类工作取得了一定的进展, 但基础差、研究历史短、本底不清等仍是阻碍该领域快速发展的绊脚石。作为昆虫纲四大目之一的双翅目如果以每年发表100多种的速度来计算, 要基本调查清楚中国双翅目昆虫的本底情况还需更多时日, 任重而道远!

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附录 Supplementary Material

附录1 2020年中国双翅目新分类单元文献索引

Appendix 1 Bibliography of new taxa of Diptera from China in 2020
<http://www.biodiversity-science.net/fileup/PDF/2021183-1.pdf>

2020年中国双翅目新分类单元文献目录

Bibliography of New Taxa of Chinese Diptera, 2020

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Cecidomyiidae 瘿蚊科

Bruggmanniella litseae S. F. Lin, M. M. Yang & M. Tokuda
[New Species] IUCN: NE; Evidence: Morphology; COI

LIN Sheng-feng, TOKUDA Makoto, YANG Man-miao,
Leaf gall polymorphism and molecular phylogeny of a new
Bruggmanniella species (Diptera: Cecidomyiidae:
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CHINA (Taiwan*)

Gephyraulus lycantha K. L. Jiao & P. Kolesik [New Species]
IUCN: NE; Evidence: Morphology

**JIAO Ke-long, ZHOU Xiao-yi, QIAO Hai-li, WANG Hao,
CHEN Jun, LIU Bai-ming, BU Wen-jun, KOLESIK
Peter,** A new species of gall midge (Diptera:
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barbarum* (Solanaceae). *Journal of Asia-Pacific
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CHINA (Ningxia*)

Rhizomyia acroleptosipha K. L. Jiao, X. Y. Zhou & W. J. Bu
端细管根瘿蚊 [New Species] IUCN: NE; Evidence:
Morphology

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CHINA (Heilongjiang*)

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[New Species] IUCN: NE; Evidence: Morphology

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CHINA (Yunnan*)

Pekinomyia K. L. Jiao & P. Kolesik [New Genus] IUCN: NE;
Evidence: Morphology; COI, 12S

**JIAO Ke-long, ZHOU Xiao-yi, WANG Hao, FU Huai-jun,
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Yuan-hong, BU Wen-jun, KOLESIK Peter,** A new genus

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leaf galls on Peking lilac, *Syringa reticulata* subsp. *pekinensis*
(Oleaceae), in China. *Zootaxa* 4742 (1): 194-200. 2020 [195]
doi: 10.11646/zootaxa.4742.1.13

CHINA (Beijing*)

Pekinomyia syringae K. L. Jiao & P. Kolesik [New Species]
IUCN: NE; Evidence: Morphology; COI, 12S

**JIAO Ke-long, ZHOU Xiao-yi, WANG Hao, FU Huai-jun,
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doi: 10.11646/zootaxa.4742.1.13

CHINA (Beijing*)

Schizomyia maesae A. K. Elsayed, S. F. Lin & T. Tokuda [New
Species] IUCN: NE; Evidence: Morphology

**ELSAYED Ayman-khamis, LIN Sheng-feng, YANG Man-
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Pacific Entomology* 23 (4): 1083-1088. 2020 [1084] doi:
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CHINA (Taiwan*)

Ceratopogonidae 蠓科

Culicoides (Beltranmyia) beishanensis Y. J. Li & G. P. Liu 北山
库蠓 [New Species] IUCN: NE; Evidence: Morphology

**LI Yong-jiu, LYU Cheng-liang, XING Tian-yao, LIU Guo-
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CHINA (Heilongjiang*)

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河口库蠓 [New Species] IUCN: NE; Evidence: Morphology

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species *Culicoides (Oecacta)* Diptera: Ceratopogonidae in
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CHINA (Yunnan*)

Dasyhelea jinshajiangensis J. P. Chen, W. P. Qian & Y. X. Yu
 金沙江毛蠓 [New Species] IUCN: NE; Evidence:
 Morphology

HAN Shi-kang, BIAN Shao-yong, WANG Song-lin, CHEN
 Jian-ping, LIU Yu, WANG Pei-zhang, DENG Yong,
 QIAN Wei-ping, YU Yi-xin, A new species and a new
 record of midges in Sichuan province, China (Diptera:
 Ceratopogonidae). *Chinese Journal of Vector Biology and
 Control* 31 (4): 462-464. 2020 [463] doi:
 10.11853/j.issn.1003.8280.2020.04.017

CHINA (Sichuan*)

Chironomidae 摇蚊科

Amnihayesomyia subflava H. Q. Tang & H. Niitsuma [New
 Species] IUCN: NE; Evidence: Morphology

TANG Hong-qu, NIITSUMA Hiromi, Review of the genus
Amnihayesomyia Niitsuma (Diptera: Chironomidae:
 Tanypodinae), with descriptions of three new species from
 China. *Zootaxa* 4743 (3): 411-418. 2020 [416] doi:
 10.11646/zootaxa.4743.3.8

CHINA (Xizang*)

Amnihayesomyia tibetica H. Q. Tang & H. Niitsuma [New
 Species] IUCN: NE; Evidence: Morphology

TANG Hong-qu, NIITSUMA Hiromi, Review of the genus
Amnihayesomyia Niitsuma (Diptera: Chironomidae:
 Tanypodinae), with descriptions of three new species from
 China. *Zootaxa* 4743 (3): 411-418. 2020 [415] doi:
 10.11646/zootaxa.4743.3.8

CHINA (Xizang*)

Amnihayesomyia vittata H. Q. Tang & H. Niitsuma [New
 Species] IUCN: NE; Evidence: Morphology

TANG Hong-qu, NIITSUMA Hiromi, Review of the genus
Amnihayesomyia Niitsuma (Diptera: Chironomidae:
 Tanypodinae), with descriptions of three new species from
 China. *Zootaxa* 4743 (3): 411-418. 2020 [413] doi:
 10.11646/zootaxa.4743.3.8

CHINA (Xizang*, Yunnan)

Corynoneura aggeris Y. Fu [New Species] IUCN: NE;
 Evidence: Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li,
 FU Jun, LIN Xiao-long, *Corynoneura* Winnertz (Diptera,
 Chironomidae, Orthoclaadiinae) from Zhejiang Province,
 China. *Zootaxa* 4890 (1): 83-96. 2020 [84] doi:
 10.11646/zootaxa.4890.1.4

CHINA (Zhejiang*)

Corynoneura lateralis Y. Fu [New Species] IUCN: NE;
 Evidence: Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li,
 FU Jun, LIN Xiao-long, *Corynoneura* Winnertz (Diptera,
 Chironomidae, Orthoclaadiinae) from Zhejiang Province,
 China. *Zootaxa* 4890 (1): 83-96. 2020 [86] doi:
 10.11646/zootaxa.4890.1.4

CHINA (Zhejiang*)

Corynoneura petitspectabilis Y. Fu [New Species] IUCN: NE;
 Evidence: Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li,
 FU Jun, LIN Xiao-long, *Corynoneura* Winnertz (Diptera,
 Chironomidae, Orthoclaadiinae) from Zhejiang Province,
 China. *Zootaxa* 4890 (1): 83-96. 2020 [89] doi:
 10.11646/zootaxa.4890.1.4

CHINA (Zhejiang*)

Corynoneura prolata Y. Fu [New Species] IUCN: NE;
 Evidence: Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li,
 FU Jun, LIN Xiao-long, *Corynoneura* Winnertz (Diptera,
 Chironomidae, Orthoclaadiinae) from Zhejiang Province,
 China. *Zootaxa* 4890 (1): 83-96. 2020 [90] doi:
 10.11646/zootaxa.4890.1.4

CHINA (Zhejiang*)

Corynoneura recta Y. Fu [New Species] IUCN: NE; Evidence:
 Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li,
 FU Jun, LIN Xiao-long, *Corynoneura* Winnertz (Diptera,
 Chironomidae, Orthoclaadiinae) from Zhejiang Province,
 China. *Zootaxa* 4890 (1): 83-96. 2020 [92] doi:
 10.11646/zootaxa.4890.1.4

CHINA (Zhejiang*)

Cryptotendipes bullum C. Song & X. H. Wang [New Species]
 IUCN: NE; Evidence: Morphology

SONG Chao, ANDERSEN Trond, YAN Chun-cai, QI Xin,
 WANG Xin-hua, A new species of *Cryptotendipes* Beck &
 Beck, 1969 (Diptera: Chironomidae) from Hainan Island,

Oriental China. *The Pan-Pacific Entomologist* 96 (4): 253-257. 2020 [254] doi: 10.3956/2020-96.4.253

CHINA (Hainan*)

Kiefferulus trigonum C. Song, X. H. Wang, W. J. Bu & X. Qi [New Species] IUCN: NE; Evidence: Morphology; 18S, 28S, COI3P, CAD1, CAD4, PGD

SONG Chao, WANG Xin-hua, BU Wen-jun, QI Xin, Morphology lies: a case-in-point with a new non-biting midge species from Oriental China (Diptera, Chironomidae). *ZooKeys* 909: 67-77. 2020 [72] doi: 10.3897/zookeys.909.39347

CHINA (Fujian*, Guizhou, Guangxi, Hainan)

Limnophyes nudus C. Song, J. C. Zheng, X. H. Wang & X. Qi [New Species] IUCN: NE; Evidence: Morphology; COI

SONG Chao, ZHENG Jia-cheng, WANG Xin-hua & QI Xin, A new species of *Limnophyes* Eaton (Diptera: Chironomidae) from Xizang, China. *Zootaxa* 4722 (3): 295-300. 2020 [296] doi: 10.11646/zootaxa.4722.3.7

CHINA (Xizang*)

Macropelopia (Macropelopia) pergrandis H. Q. Tang & H. Niitsuma [New Species] IUCN: NE; Evidence: Morphology

TANG Hong-qu, NIITSUMA Hiromi, Revision of the Chinese *Macropelopia* (Diptera: Chironomidae: Tanypodinae), with description of a new species. *Zootaxa* 4834 (2): 207-218. 2020 [208] doi: 10.11646/zootaxa.4834.2.3

CHINA (Yunnan*, Xizang, Sichuan)

Parachaetocladius squamula W. B. Liu & W. Cao [New Species] IUCN: NE; Evidence: Morphology

LIU Wen-bin, CAO Wei, ZHAO Cong, YAN Chun-cai, *Parachaetocladius squamula* (Diptera, Chironomidae, Orthoclaadiinae), a new species from China. *Annales Zoologici Fennici* 57 (1): 145-149. 2020 [146] doi: doi.org/10.5735/086.057.0116

CHINA (Zhejiang*)

Polypedilum (Cerobregma) paracyclus X. Qi & C. Song [New Species] IUCN: NE; Evidence: Morphology; COI

QI Xin, SONG Chao, GE Kai-xuan, WANG Xin-hua, *Polypedilum (Cerobregma) paracyclus* sp. n., a new species from Oriental China (Diptera: Chironomidae). *Zootaxa* 4881 (1): 189-195. 2020 [191] doi: 10.11646/zootaxa.4881.1.12

CHINA (Guangxi*)

Rheocricotopus (Psilocricotopus) kongi X. L. Lin & X. H. Wang [New Species] IUCN: NE; Evidence: Morphology; COI

LIN Xiao-long, YU Hai-jun, WANG Qian, BU Wen-jun & WANG Xin-hua, DNA barcodes and morphology confirm a new species of *Rheocricotopus (Psilocricotopus) orientalis* group (Diptera: Chironomidae). *Zootaxa* 4768 (2): 282-290. 2020 [286] doi: 10.11646/zootaxa.4768.2.9

CHINA (Hainan*)

Thienemanniella dapanensis Y. Fu [New Species] IUCN: NE; Evidence: Morphology

FU Yue, WANG Xin-hua, FANG Xiang-Liang, XIAO Yun-li, LIN Xiao-long, *Thienemanniella dapanensis* (Diptera: Chironomidae: Orthoclaadiinae), a new species from Zhejiang Province, China, and redescription of two *Thienemanniella* species. *Annales Zoologici Fennici* 57: 209-214. 2020 [210] doi: 10.5735/086.057.0121

CHINA (Zhejiang*)

Yaeprimus balteatus W. Han & H. Q. Tang [New Species] IUCN: NE; Evidence: Morphology

HAN Wu, WEI Jin-xing, LIN Xiao-long, TANG Hong-qu, The Afro-Oriental Genus *Yaeprimus* Sasa et Suzuki (Diptera: Chironomidae: Chironomini): Phylogeny, New Species and Expanded Diagnoses. *Diversity* 12 (1): 31. 2020 [7] doi: 10.3390/d12010031

CHINA (Guangdong*, Hainan)

Dolichopodidae 长足虻科

Chrysotus shuensis R. S. Liu & D. Yang 蜀小异长足 虻 [New Species] IUCN: NE; Evidence: Morphology

LIU Ruo-si, ZHONG Yong, ZHANG Rui-feng, YANG Ding, A study of *Chrysotus* (Diptera: Dolichopodidae) from Sichuan, China with one new species. *Entomotaxonomia* 42 (2): 116-121. 2020 [117] doi: 10.11680/entomotax.2020016

CHINA (Sichuan*)

Hercostomus liangi Qilemoge, L. L. Zhang & D. Yang 亮氏寡长足虻 [New Species] IUCN: NE; Evidence: Morphology

QILEMOGE, ZHANG Li-li, YANG Ding, A Key to Species Groups of the Genus *Hercostomus* (Diptera: Dolichopodidae)

from China, with Description of One New Species. *Transactions of the American Entomological Society* 146: 305-321. 2020 [341] doi: 10.3157/061.146.0202
 CHINA (Gansu*)

Rhaphium huzhuense Qilemoge, C. Lin & D. Yang 互助锥长足虻 [New Species] IUCN: NE; Evidence: Morphology

QILEMOGE, LIN Chen, QI Pei-feng, LI De-ming, YANG Ding, Two new species of *Rhaphium* from Qinghai Province, China (Diptera, Dolichopodidae, Rhaphiinae). *ZooKeys* 931: 73-84. 2020 [77] doi: 10.3897/zookeys.931.49671
 CHINA (Qinghai*)

Rhaphium minhense Qilemoge, C. Lin & D. Yang 民和锥长足虻 [New Species] IUCN: NE; Evidence: Morphology

QILEMOGE, LIN Chen, QI Pei-feng, LI De-ming, YANG Ding, Two new species of *Rhaphium* from Qinghai Province, China (Diptera, Dolichopodidae, Rhaphiinae). *ZooKeys* 931: 73-84. 2020 [80] doi: 10.3897/zookeys.931.49671
 CHINA (Qinghai*)

Drosophilidae 果蝇科

Amiota beama Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
 WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1378] doi: 10.1093/zoolinnean/zlzl32
 CHINA (Yunnan*)

Amiota bifoliacea Y. L. Wang & H. W. Chen 双叶阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI
 WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [220] doi: 10.11680/entomotax.2020024
 CHINA (Yunnan*)

Amiota brevifoliacea Y. L. Wang & H. W. Chen 短叶阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI
 WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [217] doi: 10.11680/entomotax.2020024
 CHINA (Yunnan*)

Amiota cyclophylla Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
 WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1380] doi: 10.1093/zoolinnean/zlzl32
 CHINA (Yunnan*)

Amiota flormontana Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
 WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1381] doi: 10.1093/zoolinnean/zlzl32
 CHINA (Yunnan*)

Amiota geisson Y. L. Wang & H. W. Chen 边寨阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI
 WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [221] doi: 10.11680/entomotax.2020024
 CHINA (Yunnan*)

Amiota gigantomelania Y. L. Wang & H. W. Chen 大黑阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI
 WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [211] doi: 10.11680/entomotax.2020024
 CHINA (Yunnan*, Sichuan)

Amiota jianjuni Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
 WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and

Amiota basdeni species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1386] doi: 10.1093/zoolinnean/zlz132

CHINA (Sichuan*)

Amiota medidehiscentia Y. L. Wang & H. W. Chen 中裂阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [213] doi: 10.11680/entomotax.2020024

CHINA (Yunnan*)

Amiota multiprocessa Y. L. Wang & H. W. Chen 多突阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [214] doi: 10.11680/entomotax.2020024

CHINA (Yunnan*)

Amiota nigripes Y. L. Wang & H. W. Chen 黑足阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [215] doi: 10.11680/entomotax.2020024

CHINA (Yunnan*)

Amiota nulliseta Y. L. Wang & H. W. Chen 光叶阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [222] doi: 10.11680/entomotax.2020024

CHINA (Yunnan*)

Amiota obtusa Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1383] doi:

10.1093/zoolinnean/zlz132

CHINA (Sichuan*)

Amiota planiceps Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1384] doi: 10.1093/zoolinnean/zlz132

CHINA (Sichuan*)

Amiota polycladia Y. L. Wang & H. W. Chen 多枝阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [223] doi: 10.11680/entomotax.2020024

CHINA (Sichuan*)

Amiota scrobicula Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1385] doi: 10.1093/zoolinnean/zlz132

CHINA (Sichuan*)

Amiota semiannulata Y. L. Wang & H. W. Chen 断环阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI

WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [216] doi: 10.11680/entomotax.2020024

CHINA (Yunnan*)

Amiota tentacula Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1386] doi: 10.1093/zoolinnean/zlz132

CHINA (Sichuan*)

Amiota uncinata Y. L. Wang & H. W. Chen 钩叶阿果蝇 [New Species] IUCN: NE; Evidence: Morphology; COI
WANG Ya-lian, CHEN Hong-wei, Eleven new species in the genus *Amiota* (Diptera: Drosophilidae) from Southwest China. *Entomotaxonomia* 42 (3): 206-226. 2020 [219] doi: 10.11680/entomotax.2020024
CHINA (Yunnan*)

Amiota xinglaili Y. L. Wang, H. L. Cao & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
WANG Ya-lian, CAO Hui-luo, CHEN Hong-wei, Molecular phylogeny and species delimitation of *Amiota alboguttata* and *Amiota basdeni* species groups (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 189 (4): 1370-1397. 2020 [1387] doi: 10.1093/zoolinnean/zlzl32
CHINA (Yunnan*)

Colocasiomyia liae R. J. Jiao, & J. J. Gao [New Species] IUCN: NE; Evidence: Morphology; COI
JIAO Run-jie, BAI Li-hong, GAO Jian-jun, Descriptions of two new species of the genus *Colocasiomyia* (Diptera, Drosophilidae) breeding on *Rhaphidophora* host plants in Yunnan, China. *ZooKeys* 968: 127-141. 2020 [137] doi: 10.3897/zookeys.968.56677
CHINA (Yunnan*)

Colocasiomyia todai R. J. Jiao, & J. J. Gao [New Species] IUCN: NE; Evidence: Morphology; COI
JIAO Run-jie, BAI Li-hong, GAO Jian-jun, Descriptions of two new species of the genus *Colocasiomyia* (Diptera, Drosophilidae) breeding on *Rhaphidophora* host plants in Yunnan, China. *ZooKeys* 968: 127-141. 2020 [134] doi: 10.3897/zookeys.968.56677
CHINA (Yunnan*)

Scaptodrosophila abdentata Y. Lin & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology; COI
LIN Yong, CHEN Hong-wei, The genus *Scaptodrosophila* Duda (Diptera, Drosophilidae), part III: the riverata species group from China, with morphological and molecular evidence for five new species. *ZooKeys* 937: 139-162. 2020 [151] doi: 10.3897/zookeys.937.49794
CHINA (Guangdong*, Hainan, Yunnan, Xizang)

Scaptodrosophila platyrhina Y. Lin & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology; COI
LIN Yong, CHEN Hong-wei, The genus *Scaptodrosophila* Duda (Diptera, Drosophilidae), part III: the riverata species group from China, with morphological and molecular evidence for five new species. *ZooKeys* 937: 139-162. 2020 [153] doi: 10.3897/zookeys.937.49794
CHINA (Yunnan*)

Scaptodrosophila serrateifoliacea Y. Lin & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology; COI
LIN Yong, CHEN Hong-wei, The genus *Scaptodrosophila* Duda (Diptera, Drosophilidae), part III: the riverata species group from China, with morphological and molecular evidence for five new species. *ZooKeys* 937: 139-162. 2020 [155] doi: 10.3897/zookeys.937.49794
CHINA (Yunnan*)

Scaptodrosophila sinuata Y. Lin & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology; COI
LIN Yong, CHEN Hong-wei, The genus *Scaptodrosophila* Duda (Diptera, Drosophilidae), part III: the riverata species group from China, with morphological and molecular evidence for five new species. *ZooKeys* 937: 139-162. 2020 [156] doi: 10.3897/zookeys.937.49794
CHINA (Liaoning*)

Stegana (Steganina) alianya Y. Zhang & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
WANG Ya-lian, LU Jin-ming, ZHANG Yuan, CHEN Hong-wei, Molecular phylogeny, species delimitation and biogeographic history of the *Stegana (Steganina) shirozui* species group (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 1-19. 2020 [7] doi: 10.1093/zoolinnean/zlaa118
CHINA (Yunnan*)

Stegana (Steganina) diodonta Y. Zhang & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology
WANG Ya-lian, LU Jin-ming, ZHANG Yuan, CHEN Hong-wei, Molecular phylogeny, species delimitation and biogeographic history of the *Stegana (Steganina) shirozui* species group (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 1-19. 2020 [9] doi: 10.1093/zoolinnean/zlaa118
CHINA (Yunnan*)

Stegana (Steganina) zebromyia Y. Zhang & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, LU Jin-ming, ZHANG Yuan, CHEN Hong-wei, Molecular phylogeny, species delimitation and biogeographic history of the *Stegana (Steganina) shirozui* species group (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 1-19. 2020 [11] doi: 10.1093/zoolinnean/zlaa118

CHINA (Yunnan*)

Stegana (Steganina) zopheria Y. Zhang & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology

WANG Ya-lian, LU Jin-ming, ZHANG Yuan, CHEN Hong-wei, Molecular phylogeny, species delimitation and biogeographic history of the *Stegana (Steganina) shirozui* species group (Diptera: Drosophilidae) from East Asia. *Zoological Journal of the Linnean Society* 1-19. 2020 [12] doi: 10.1093/zoolinnean/zlaa118

CHINA (Yunnan*)

Scaptodrosophila tanyrhina Y. Lin & H. W. Chen [New Species] IUCN: NE; Evidence: Morphology; COI

LIN Yong, CHEN Hong-wei, The genus *Scaptodrosophila* Duda (Diptera, Drosophilidae), part III: the riverata species group from China, with morphological and molecular evidence for five new species. *ZooKeys* 937: 139-162. 2020 [158] doi: 10.3897/zookeys.937.49794

CHINA (Yunnan*)

Empididae 舞虻科

Calohilara Yang, Zhang, Yao & Zhang 弯脉喜舞虻属 [New Genus] IUCN: NE; Evidence: Morphology

DING Shuang-mei, HE Dong-yue, LIN Chen, YANG Ding, *Calohilara* (Diptera: Empididae), newly recorded from China with description of one new species. *Entomotaxonomia* 42 (4): 270-274. 2020 [271] doi: 10.11680/entomotax.2020030

MYANMAR (Kambaiti*), CHINA (Xizang*)

Calohilara tibetensis S. M. Ding, D. Y. He, C. Lin & D. Yang 西藏弯脉喜舞虻 [New Species] IUCN: NE; Evidence: Morphology

DING Shuang-mei, HE Dong-yue, LIN Chen, YANG Ding, *Calohilara* (Diptera: Empididae), newly recorded from China with description of one new species.

Entomotaxonomia 42 (4): 270-274. 2020 [272] doi: 10.11680/entomotax.2020030

CHINA (Xizang*)

Syneches medoganus C. J. Zhao, S. M. Ding, C. Lin & D. Yang 墨脱柄驼舞虻 [New Species] IUCN: NE; Evidence: Morphology

ZHAO Chen-jing, DING Shuang-mei, LIN Chen, YANG Ding, Two new species of *Syneches* (Diptera: Empididae) from Tibet, China. *Entomotaxonomia* 42 (3): 200-205. 2020 [201] doi: 10.11680/entomotax.2020019

CHINA (Xizang*)

Syneches nigriritibia C. J. Zhao, S. M. Ding, C. Lin & D. Yang 黑胫柄驼舞虻 [New Species] IUCN: NE; Evidence: Morphology

ZHAO Chen-jing, DING Shuang-mei, LIN Chen, YANG Ding, Two new species of *Syneches* (Diptera: Empididae) from Tibet, China. *Entomotaxonomia* 42 (3): 200-205. 2020 [203] doi: 10.11680/entomotax.2020019

CHINA (Xizang*)

Lauxaniidae 绢蝇科

Cestrotus abdominalis W. L. Li, L. Qi & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, QI Ling, YANG Ding, Four new species of the subfamily Homoneurinae (Diptera, Lauxaniidae) from southwestern China. *ZooKeys* 953: 119-136. 2020 [122] doi: 10.3897/zookeys.956.53976

CHINA (Yunnan*)

Cestrotus albifacies W. L. Li, L. Qi & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, QI Ling, YANG Ding, Four new species of the subfamily Homoneurinae (Diptera, Lauxaniidae) from southwestern China. *ZooKeys* 953: 119-136. 2020 [126] doi: 10.3897/zookeys.956.53976

CHINA (Yunnan*)

Minettia (Minettiella) dashahensis W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Four new species of the subgenus *Minettiella* from China (Diptera, Lauxaniidae, *Minettia*). *ZooKeys* 932: 93-111. 2020 [97] doi:

10.3897/zookeys.932.50763

CHINA (Guizhou*)

Minettia (Minettiella) longispina W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Four new species of the subgenus *Minettiella* from China (Diptera, Lauxaniidae, *Minettia*). *ZooKeys* 932: 93-111. 2020 [100] doi: 10.3897/zookeys.932.50763

CHINA (Guizhou*)

Minettia (Minettiella) membranacea W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Four new species of the subgenus *Minettiella* from China (Diptera, Lauxaniidae, *Minettia*). *ZooKeys* 932: 93-111. 2020 [104] doi: 10.3897/zookeys.932.50763

CHINA (Yunnan*)

Minettia (Minettiella) zhaotongensis W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Four new species of the subgenus *Minettiella* from China (Diptera, Lauxaniidae, *Minettia*). *ZooKeys* 932: 93-111. 2020 [107] doi: 10.3897/zookeys.932.50763

CHINA (Yunnan*)

Noeetomima hongshanensis W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Five new species of the genus *Noeetomima* Enderlein (Diptera: Lauxaniidae) from China, with a key to world species. *Zootaxa* 4768 (4): 499-516. 2020 [501] doi: 10.11646/zootaxa.4768.4.3

CHINA (Yunnan *, Sichuan)

Noeetomima huzhengkuni L. Shi & M. Liu [New Species] IUCN: NE; Evidence: Morphology

SHI Li, LIU Miao, HU Zheng-kun, A new species of the genus *Noeetomima* Enderlein (Diptera, Lauxaniidae) from Guizhou, China with a key to worldwide species. *ZooKeys* 1000: 107-123. 2020 [113] doi: 10.3897/zookeys.1000.57577

CHINA (Guizhou*)

Noeetomima lijiangensis W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Five new species of the genus *Noeetomima* Enderlein (Diptera: Lauxaniidae) from China, with a key to world species. *Zootaxa* 4768 (4): 499-516. 2020 [504] doi: 10.11646/zootaxa.4768.4.3

CHINA (Yunnan *, Sichuan)

Noeetomima liui W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Five new species of the genus *Noeetomima* Enderlein (Diptera: Lauxaniidae) from China, with a key to world species. *Zootaxa* 4768 (4): 499-516. 2020 [507] doi: 10.11646/zootaxa.4768.4.3

CHINA (Yunnan*)

Noeetomima trisurstyla W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Five new species of the genus *Noeetomima* Enderlein (Diptera: Lauxaniidae) from China, with a key to world species. *Zootaxa* 4768 (4): 499-516. 2020 [509] doi: 10.11646/zootaxa.4768.4.3

CHINA (Guangxi*)

Noeetomima zhangae W. L. Li, X. L. Chen & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, CHEN Xu-long, YANG Ding, Five new species of the genus *Noeetomima* Enderlein (Diptera: Lauxaniidae) from China, with a key to world species. *Zootaxa* 4768 (4): 499-516. 2020 [512] doi: 10.11646/zootaxa.4768.4.3

CHINA (Yunnan*)

Noonamyia bicolour W. L. Li, L. Qi & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, QI Ling, YANG Ding, Three new species of the genus *Noonamyia* Stuckenberg 1971 (Diptera: lauxaniidae) from China. *Oriental Insects* 1-14. 2020 [3] doi: 10.1080/00305316.2020.1754955

CHINA (Xizang*)

Noonamyia brevisurstyla W. L. Li, L. Qi & D. Yang [New Species] IUCN: NE; Evidence: Morphology

LI Wen-liang, QI Ling, YANG Ding, Three new species of the genus *Noonamyia* Stuckenberg 1971 (Diptera: lauxaniidae) from China. *Oriental Insects* 1-14. 2020 [6] doi: 10.1080/00305316.2020.1754955

CHINA (Yunnan*)

Noonamyia spinosa W. L. Li, L. Qi & D. Yang [New Species]

IUCN: NE; **Evidence:** Morphology

LI Wen-liang, QI Ling, YANG Ding, Three new species of the genus *Noonamyia* Stuckenberg 1971 (Diptera: lauxaniidae) from China. *Oriental Insects* 1-14. 2020 [10] **doi:** 10.1080/00305316.2020.1754955

CHINA (Yunnan*)

Phobeticomyia motuoensis W. L. Li, L. Qi & D. Yang [New Species] **IUCN:** NE; **Evidence:** Morphology

LI Wen-liang, QI Ling, YANG Ding, Four new species of the subfamily Homoneurinae (Diptera, Lauxaniidae) from southwestern China. *ZooKeys* 953: 119-136. 2020 [129] **doi:** 10.3897/zookeys.956.53976

CHINA (Xizang*)

Prosopophorella longa W. L. Li, L. Qi & D. Yang [New Species] **IUCN:** NE; **Evidence:** Morphology

LI Wen-liang, QI Ling, YANG Ding, Four new species of the subfamily Homoneurinae (Diptera, Lauxaniidae) from southwestern China. *ZooKeys* 953: 119-136. 2020 [132] **doi:** 10.3897/zookeys.956.53976

CHINA (Xizang*)

Limoniidae 沼大蚊科

Geranomyia jiulongensis X. Y. Qian & X. Zhang 九龙长唇大蚊 [New Species] **IUCN:** NE; **Evidence:** Morphology

QIAN Xing-yang, ZHANG Xiao, Two new *Geranomyia* Haliday (Diptera, Limoniidae) crane flies from Mount Jiulong in China, with an updated key to Chinese species. *ZooKeys* 953: 105-118. 2020 [110] **doi:** 10.3897/zookeys.953.49557

CHINA (Zhejiang*)

Geranomyia subablusa X. Y. Qian & X. Zhang [New Species] **IUCN:** NE; **Evidence:** Morphology

QIAN Xing-yang, ZANG Xiao, Two new *Geranomyia* Haliday (Diptera, Limoniidae) crane flies from Mount Jiulong in China, with an updated key to Chinese species. *ZooKeys* 953: 105-118. 2020 [112] **doi:** 10.3897/zookeys.953.49557

CHINA (Zhejiang*)

Limonia medexocha J. L. Ren & D. Yang 中突沼大蚊 [New Species] **IUCN:** NE; **Evidence:** Morphology

REN Jin-long, YANG Ding, Two new species of *Limonia* Meigen, 1803 from Northwest China (Diptera, Limoniidae). *ZooKeys* 971: 31-58. 2020 [37] **doi:** 10.3897/zookeys.971.35875

CHINA (Ningxia*, Sichuan)

Limonia subcosta J. L. Ren & D. Yang 缘脉沼大蚊 [New Species] **IUCN:** NE; **Evidence:** Morphology

REN Jin-long, YANG Ding, Two new species of *Limonia* Meigen, 1803 from Northwest China (Diptera, Limoniidae). *ZooKeys* 971: 31-58. 2020 [46] **doi:** 10.3897/zookeys.971.35875

CHINA (Shaanxi*)

Metalimnobia (Metalimnobia) bicolor Y. Jiang & X. Zhang [New Species] **IUCN:** NE; **Evidence:** Morphology

JIANG Ye, ZHANG Xiao, New *Metalimnobia* crane flies (Diptera, Limoniidae) from China with an update of species distributions. *ZooKeys* 1008: 93-105. 2020 [95] **doi:** 10.3897/zookeys.1008.60704

CHINA (Sichuan*)

Metalimnobia (Metalimnobia) caudifusca Y. Jiang & X. Zhang [New Species] **IUCN:** NE; **Evidence:** Morphology

JIANG Ye, ZHANG Xiao, New *Metalimnobia* crane flies (Diptera, Limoniidae) from China with an update of species distributions. *ZooKeys* 1008: 93-105. 2020 [100] **doi:** 10.3897/zookeys.1008.60704

CHINA (Xizang*)

Lonchaeidae 尖尾蝇科

Silba erecta I. MacGowan & K. Arimoto [New Species] **IUCN:** NE; **Evidence:** Morphology

ARIMOTO Kôichi, MACGOWAN Iain, SU Zhi-hui, New data on lance flies (Diptera, Lonchaeidae) associated with figs (Moraceae, *Ficus* spp.) in Japan and Taiwan, with descriptions of two new species of the genus *Silba* Macquart. *Journal of Asia-Pacific Entomology* 23 (2): 364-370. 2020 [365] **doi:** 10.1016/j.aspen.2019.11.007

CHINA (Taiwan*)

Muscidae 蝇科

Phaonia liujiayui W. Q. Xue & J. Du [New Species] IUCN: NE; Evidence: Morphology

XUE Wan-qi, DU Jing, Five new species of *Phaonia* Robineau-Desvoidy (Diptera: Muscidae) from China. *Zootaxa* 4895 (4): 559-572. 2020 [564] doi: 10.11646/zootaxa.4895.4.6

CHINA (Ningxia*)

Phaonia sunqiia W. Q. Xue & J. Du [New Species] IUCN: NE; Evidence: Morphology

XUE Wan-qi, DU Jing, Five new species of *Phaonia* Robineau-Desvoidy (Diptera: Muscidae) from China. *Zootaxa* 4895 (4): 559-572. 2020 [560] doi: 10.11646/zootaxa.4895.4.6

CHINA (Hebei*)

Phaonia tianmushanensis W. Q. Xue & J. Du [New Species] IUCN: NE; Evidence: Morphology

XUE Wan-qi, DU Jing, Five new species of *Phaonia* Robineau-Desvoidy (Diptera: Muscidae) from China. *Zootaxa* 4895 (4): 559-572. 2020 [568] doi: 10.11646/zootaxa.4895.4.6

CHINA (Zhejiang*)

Phaonia wangpingga W. Q. Xue & J. Du [New Species] IUCN: NE; Evidence: Morphology

XUE Wan-qi, DU Jing, Five new species of *Phaonia* Robineau-Desvoidy (Diptera: Muscidae) from China. *Zootaxa* 4895 (4): 559-572. 2020 [566] doi: 10.11646/zootaxa.4895.4.6

CHINA (Zhejiang*)

Phaonia zhangjunyui W. Q. Xue & J. Du [New Species] IUCN: NE; Evidence: Morphology

XUE Wan-qi, DU Jing, Five new species of *Phaonia* Robineau-Desvoidy (Diptera: Muscidae) from China. *Zootaxa* 4895 (4): 559-572. 2020 [562] doi: 10.11646/zootaxa.4895.4.6

CHINA (Sichuan*)

Oestridae 狂蝇科

Portschinskia burmensis X. Y. Li, T. Pape & D. Zhang [New Species] IUCN: NE; Evidence: Morphology

LI Xin-yu, PAPE Thomas, ZHANG Dong, Taxonomy, phylogeny and evolution of the bumblebee bot flies

(Oestridae: Hypodermatinae: *Portschinskia*). *Zoological Journal of the Linnean Society* 1-32. 2020 [8] doi: 10.1093/zoolinnean/zlz176/5854325

MYANMAR (Adung Valley*), CHINA (Yunnan)

Portschinskia sichuanensis X. Y. Li, T. Pape & D. Zhang [New Species] IUCN: NE; Evidence: Morphology

LI Xin-yu, PAPE Thomas, ZHANG Dong, Taxonomy, phylogeny and evolution of the bumblebee bot flies (Oestridae: Hypodermatinae: *Portschinskia*). *Zoological Journal of the Linnean Society* 1-32. 2020 [22] doi: 10.1093/zoolinnean/zlz176/5854325

CHINA (Sichuan*)

Portschinskia xizangensis X. Y. Li, T. Pape & D. Zhang [New Species] IUCN: NE; Evidence: Morphology

LI Xin-yu, PAPE Thomas, ZHANG Dong, Taxonomy, phylogeny and evolution of the bumblebee bot flies (Oestridae: Hypodermatinae: *Portschinskia*). *Zoological Journal of the Linnean Society* 1-32. 2020 [24] doi: 10.1093/zoolinnean/zlz176/5854325

CHINA (Xizang*)

Portschinskia yunnanensis X. Y. Li, T. Pape & D. Zhang [New Species] IUCN: NE; Evidence: Morphology

LI Xin-yu, PAPE Thomas, ZHANG Dong, Taxonomy, phylogeny and evolution of the bumblebee bot flies (Oestridae: Hypodermatinae: *Portschinskia*). *Zoological Journal of the Linnean Society* 1-32. 2020 [26] doi: 10.1093/zoolinnean/zlz176/5854325

CHINA (Yunnan*)

Phoridae 蚤蝇科

Epicnemis linguiformis M. Y. Chu & G. C. Liu [New Species] IUCN: NE; Evidence: Morphology

CHU Meng-ying, LIU Guang-chun, First record of genus *Epicnemis* Borgmeier, 1962 (Aenigmatiinae: Phoridae: Diptera) from China, with description of a new species. *Zootaxa* 4772 (3): 593-596. 2020 [593] doi: 10.11646/zootaxa.4772.3.9

CHINA (Jiangxi*)

Sinogodavaria G. C. Liu [New Genus] IUCN: NE; Evidence: Morphology

LIU Guang-chun, A new genus of the *Hypocera* group (Diptera,

Phoridae), with descriptions of two new species from China. **ZooKeys** 932: 113-127. 2020 [114] doi: 10.3897/zookeys.932.38970
CHINA (Liaoning*, Hebei, Shaanxi, Sichuan)

Sinogodavaria multiformis G. C. Liu [New Species] **IUCN**: NE; **Evidence**: Morphology

LIU Guang-chun, A new genus of the *Hypocera* group (Diptera, Phoridae), with descriptions of two new species from China. **ZooKeys** 932: 113-127. 2020 [116] doi: 10.3897/zookeys.932.38970
CHINA (Liaoning*, Hebei, Shaanxi)

Sinogodavaria tenebrosa G. C. Liu [New Species] **IUCN**: NE; **Evidence**: Morphology

LIU Guang-chun, A new genus of the *Hypocera* group (Diptera, Phoridae), with descriptions of two new species from China. **ZooKeys** 932: 113-127. 2020 [120] doi: 10.3897/zookeys.932.38970
CHINA (Shaanxi*)

Sarcophagidae 麻蝇科

Sarcophaga (Hoa) membranijuxta C. Wang, W. Q. Xue, D. Zhang & T. Pape [New Species] **IUCN**: NE; **Evidence**: Morphology

WANG Chao, XUE Wan-qi, ZHANG Dong, PAPE Thomas, A new species of *Sarcophaga* Meigen subgenus *Hoa* Rohdendorf (Diptera: Sarcophagidae). **Zootaxa** 4821 (3): 585-593. 2020 [589] doi: 10.11646/zootaxa.4821.3.9
CHINA (Hainan*, Guangxi)

Syrphidae 蚜蝇科

Criorhina rostrata H. Li, K. K. Huo & B. G. Li [New Species] **IUCN**: NE; **Evidence**: Morphology

LI Hu, HUO Ke-ke, LI Bao-Guo, A new species of the flower fly genus *Criorhina* Meigen (Diptera: Syrphidae) from mainland China. **Zootaxa** 4803 (1): 169-176. 2020 [170] doi: 10.11646/zootaxa.4803.1.9
CHINA (Henan*)

Eumerus alxaensis K. K. Huo & A. P. Liu 阿拉善平颜蚜蝇 [New Species] **IUCN**: NE; **Evidence**: Morphology

SONG Mi-xia, LIU Ai-ping, HUO Ke-ke, SHI Li, GAN Lin, Two new species in the genus *Eumerus* Meigen (Diptera: Syrphidae) from Inner Mongolia, China. **Entomotaxonomia** 42 (4): 275-281. 2020 [276] doi: 10.11680/entomotax.2020032
CHINA (Inner Mongolia*)

Eumerus seximaculatum K. K. Huo & A. P. Liu 六斑平颜蚜蝇 [New Species] **IUCN**: NE; **Evidence**: Morphology

SONG Mi-xia, LIU Ai-ping, HUO Ke-ke, SHI Li, GAN Lin, Two new species in the genus *Eumerus* Meigen (Diptera: Syrphidae) from Inner Mongolia, China. **Entomotaxonomia** 42 (4): 275-281. 2020 [278] doi: 10.11680/entomotax.2020032
CHINA (Inner Mongolia*)

Tachinidae 寄蝇科

Admontia quwi Y. Z. Huang & T. Tachi [New Species] **IUCN**: NE; **Evidence**: Morphology

HUANG Yu-zen, TACHI Takuji, A new species of *Admontia* Brauer & Bergenstamm from Taiwan (Diptera: Tachinidae: Exoristinae: Blondeliini). **Journal of Asia-Pacific Entomology** 24: 151-157. 2020 [155] doi: 10.1016/j.aspen.2020.11.011
CHINA (Taiwan*)

Linnaemya (s.str.) flavifemur Y. Z. Zhang 黄股短须寄蝇 [New Species] **IUCN**: NE; **Evidence**: Morphology

ZHANG Yi-zhuo, HAO Bo, ZHANG Chun-tian, One new species, two newly recorded genera and four newly recorded species of Tachinidae (Diptera) from Liaoning, China. **Entomotaxonomia** 42 (2): 122-129. 2020 [123] doi: 10.11680/entomotax.2020012
CHINA (Liaoning*)

Tipulidae 大蚊科

Nephrotoma beibengensis Q. C. Yang, Q. F. Liu, X. Y. Liu & D. Yang 背崩短柄大蚊 [New Species] **IUCN**: NE; **Evidence**: Morphology

YANG Qi-cheng, LIU Qi-fei, PAN Zhao-hui, LIU Xiao-yan, YANG Ding, *Nephrotoma* Meigen (Diptera, Tipulidae) from Xizang Autonomous Region, China. **ZooKeys** 973: 123-151. 2020 [125] doi: 10.3897/zookeys.973.46384

CHINA (Xizang*)

Nephrotoma hanae Q. C. Yang, Q. F. Liu, X. Y. Liu & D. Yang 韩氏短柄大蚊 [New Species] IUCN: NE; Evidence: Morphology

YANG Qi-cheng, LIU Qi-fei, PAN Zhao-hui, LIU Xiao-yan, YANG Ding, *Nephrotoma* Meigen (Diptera, Tipulidae) from Xizang Autonomous Region, China. *ZooKeys* 973: 123-151. 2020 [138] doi: 10.3897/zookeys.973.46384

CHINA (Xizang*)

Tipula (Formotipula) gongshanensis Q. L. Men 贡山丽大蚊 [New Species] IUCN: NE; Evidence: Morphology

MEN Qiu-lei, Two new species in the subgenus *Formotipula* Matsumura (Diptera: Tipulidae: *Tipula*) from China. *Entomotaxonomia* 42 (4): 282-297. 2020 [283] doi: 10.11680/entomotax.2020034

CHINA (Yunnan*)

Tipula (Formotipula) medogensis Q. L. Men 墨脱丽大蚊 [New Species] IUCN: NE; Evidence: Morphology

MEN Qiu-lei, Two new species in the subgenus *Formotipula* Matsumura (Diptera: Tipulidae: *Tipula*) from China. *Entomotaxonomia* 42 (4): 282-297. 2020 [286] doi: 10.11680/entomotax.2020034

CHINA (Xizang*)

Tipula (Sivatipula) pianmaensis Q. L. Men 片马长角大蚊 [New Species] IUCN: NE; Evidence: Morphology

MEN Qiu-lei, Three new species of the subgenus *Tipula* (*Sivatipula*) from Yunnan and Tibet, China (Diptera: Tipulidae), with an updated key for Chinese species. *Zoological Systematics* 45 (1): 59-68. 2020 [60] doi: 10.11865/zs.202006

CHINA (Yunnan*)

Tipula (Sivatipula) podenasi Q. L. Men [New Species] IUCN: NE; Evidence: Morphology

MEN Qiu-lei, Three new species of the subgenus *Tipula* (*Sivatipula*) from Yunnan and Tibet, China (Diptera: Tipulidae), with an updated key for Chinese species. *Zoological Systematics* 45 (1): 59-68. 2020 [65] doi: 10.11865/zs.202006

CHINA (Yunnan*)

Tipula (Sivatipula) pseudofilicornis Q. L. Men [New Species] IUCN: NE; Evidence: Morphology

MEN Qiu-lei, Three new species of the subgenus *Tipula* (*Sivatipula*) from Yunnan and Tibet, China (Diptera: Tipulidae), with an updated key for Chinese species. *Zoological Systematics* 45 (1): 59-68. 2020 [63] doi: 10.11865/zs.202006

CHINA (Xizang*)

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