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Supplements to species groups of the subgenus *Homoneura* in China (Diptera: Lauxaniidae: *Homoneura*), with descriptions of twenty new species

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Table of contents

Abstract	4
Introduction	4
Material and methods	5
Taxonomy	5
Key to twenty species groups and unplaced species in China	5
<i>Homoneura (Homoneura) abnormis</i> group	7
Key to separate 5 species in the <i>Homoneura (Homoneura) abnormis</i> group	7
<i>Homoneura (Homoneura) bistrinata</i> group	8
Key to separate 7 species of the <i>Homoneura (Homoneura) bistrinata</i> group	8
<i>Homoneura (Homoneura) caloptera</i> group	8
Key to separate 2 species of the <i>Homoneura (Homoneura) caloptera</i> group	8
<i>Homoneura (Homoneura) formosae</i> group	9
Key to separate 7 species in the <i>Homoneura (Homoneura) formosae</i> group	9
<i>Homoneura (Homoneura) henanensis</i> group	9
Key to separate 27 species in the <i>Homoneura (Homoneura) henanensis</i> group	9
<i>Homoneura (Homoneura) laticosta</i> group	11
Key to separate 7 species in the <i>Homoneura (Homoneura) laticosta</i> group	11
<i>Homoneura (Homoneura) lii</i> group	12
Key to separate 3 species in the <i>Homoneura (Homoneura) lii</i> group	12
<i>Homoneura (Homoneura) ornatifrons</i> group	12
<i>Homoneura (Homoneura) picta</i> group	12
Key to separate 3 species in the <i>Homoneura (Homoneura) picta</i> group	12
<i>Homoneura (Homoneura) quinquenotata</i> group	13
Key to separate 12 species in the <i>Homoneura (Homoneura) quinquenotata</i> group	13
<i>Homoneura (Homoneura) quinquevittata</i> group	14
Key to separate 3 species in the <i>Homoneura (Homoneura) quinquevittata</i> group	14
<i>Homoneura (Homoneura) sauteri</i> group	14
Key to separate 6 species in the <i>Homoneura (Homoneura) sauteri</i> group	14
<i>Homoneura (Homoneura) singularis</i> group	14
Key to separate 13 species in the <i>Homoneura (Homoneura) singularis</i> group	15
<i>Homoneura (Homoneura) striatifrons</i> group	15
Key to separate 2 species in the <i>Homoneura (Homoneura) striatifrons</i> group	16
<i>Homoneura (Homoneura) tibetensis</i> group	16
Key to separate 5 species in the <i>Homoneura (Homoneura) tibetensis</i> group	16
<i>Homoneura (Homoneura) trispina</i> group	16
Key to separate 3 species of the <i>Homoneura (Homoneura) trispina</i> group	17
<i>Homoneura (Homoneura) unguiculata</i> group	17
Key to separate 4 species in the <i>Homoneura (Homoneura) unguiculata</i> group	17
<i>Homoneura (Homoneura) acrostichalis</i> (Meijere, 1915)	17
<i>Homoneura (Homoneura) bicuspidata</i> sp. nov.	18
<i>Homoneura (Homoneura) caloptera</i> (Kertész, 1915)	19
<i>Homoneura (Homoneura) chinensis</i> Malloch, 1926	20
<i>Homoneura (Homoneura) conspicua</i> Sasakawa, 2001	21
<i>Homoneura (Homoneura) crassicauda</i> Malloch, 1927	21
<i>Homoneura (Homoneura) dadongshanica</i> sp. nov.	22
<i>Homoneura (Homoneura) degenerata</i> sp. nov.	23
<i>Homoneura (Homoneura) denticulata</i> sp. nov.	24
<i>Homoneura (Homoneura) falcata</i> sp. nov.	25
<i>Homoneura (Homoneura) fengyangshanica</i> sp. nov.	26
<i>Homoneura (Homoneura) grahami</i> Malloch, 1929	27
<i>Homoneura (Homoneura) hamata</i> sp. nov.	28
<i>Homoneura (Homoneura) henanensis</i> Yang, Zhu & Hu, 1999	29
<i>Homoneura (Homoneura) hongmaoensis</i> sp. nov.	29
<i>Homoneura (Homoneura) interrupta</i> Sasakawa, 2001	30
<i>Homoneura (Homoneura) jianlingensis</i> sp. nov.	31
<i>Homoneura (Homoneura) laticosta</i> (Thomson, 1869)	32
<i>Homoneura (Homoneura) longifurcata</i> sp. nov.	32
<i>Homoneura (Homoneura) noticomata</i> sp. nov.	33
<i>Homoneura (Homoneura) ornatifrons</i> (Kertész, 1913)	34
<i>Homoneura (Homoneura) pseudograndis</i> Papp & Gaimari, 2013	34
<i>Homoneura (Homoneura) quadristriata</i> sp. nov.	35
<i>Homoneura (Homoneura) quinquenotata</i> (Meijere, 1915)	375

<i>Homoneura (Homoneura) sauteri</i> Malloch, 1927	38
<i>Homoneura (Homoneura) septentrionalis</i> (Loew, 1847)	38
<i>Homoneura (Homoneura) shunxica</i> sp. nov.	39
<i>Homoneura (Homoneura) simigrandis</i> sp. nov.	40
<i>Homoneura (Homoneura) simplicissima</i> (Meijere, 1910)	41
<i>Homoneura (Homoneura) strigata</i> (Meijere, 1910)	41
<i>Homoneura (Homoneura) subulifera</i> sp. nov.	42
<i>Homoneura (Homoneura) subvittata</i> Malloch, 1927	43
<i>Homoneura (Homoneura) tianjingshanica</i> sp. nov.	44
<i>Homoneura (Homoneura) triangulata</i> sp. nov.	45
<i>Homoneura (Homoneura) triprocessa</i> sp. nov.	46
<i>Homoneura (Homoneura) zhangjiajiensis</i> sp. nov.	47
<i>Homoneura (Homoneura) zhejiangensis</i> sp. nov.	48
Acknowledgements	49
References	49
Appendix	52

Abstract

The following twenty species are new to science: *Homoneura (Homoneura) longifurcata* sp. nov. and *H. (H.) triprocessa* sp. nov. in the *H. (H.) abnormis* group; *H. (H.) quadristriata* sp. nov. in the *H. (H.) bistriata* group; *H. (H.) subulifera* sp. nov. and *H. (H.) triangulata* sp. nov. in the *H. (H.) formosae* group; *H. (H.) dadongshanica* sp. nov., *H. (H.) denticulata* sp. nov., *H. (H.) simigrandis* sp. nov., *H. (H.) tianjingshanica* sp. nov. and *H. (H.) zhangjiajiensis* sp. nov. in the *H. (H.) henanensis* group; *H. (H.) hamata* sp. nov. in the *H. (H.) lii* group; *H. (H.) degenerata* sp. nov. in the *H. (H.) sauteri* group; *H. (H.) falcata* sp. nov., *H. (H.) fengyangshanica* sp. nov., *H. (H.) hongmaoensis* sp. nov. and *H. (H.) zhejiangensis* sp. nov. in the *H. (H.) singularis* group; *H. (H.) shunxica* sp. nov. in the *H. (H.) striatifrons* group; *H. (H.) bicuspidata* sp. nov. and *H. (H.) noticomata* sp. nov. in the *H. (H.) trispina* group; *H. (H.) jianlingensis* sp. nov. in the *H. (H.) unguiculata* group. The *H. (H.) interrupta* Sasakawa, 2001 and *H. (H.) strigata* (Meijere, 1910) are recorded for the first time in China. Two synonyms are proposed, including *H. (H.) beijingensis* Gao & Yang, in Wang, Gao & Yang, 2012 as a junior synonym of *H. (H.) henanensis* Yang, Zhu & Hu, 1999, *H. (H.) trunciformis* Shi & Yang, 2009 as a junior synonym of *H. (H.) ornatifrons* (Kertész, 1913).

Key words: Diptera, Lauxaniidae, subgenus *Homoneura*, new species, China

Introduction

China spans two zoogeographical regions. Some specimens collected from Nei Mongol, Ningxia, Gansu, Shanxi, Liaoning, Jilin, Heilongjiang Province in the Palaearctic region have similar faunal components as that in Russia and Mongolia, while some specimens from Taiwan, Hainan, Guangdong, Guangxi and Zhejiang Province in the Oriental region have similar faunal components as that in Vietnam, Laos, Philippines and Indonesia. Still, many new species of the lauxaniids from China are being described.

The subgenus *Homoneura* Wulp, 1891 (Lauxaniidae, Homoneurinae, *Homoneura*) can be separated from other subgenera by the following characters: mesonotum with 0–1+3 *dc*, *acr* in 4–12 rows, 0 *sa*, 0 *ia*. Fore tibia not compressed in male; mid tibia with 2–3 *apv*, 0 *p*. Hind legs with tarsomere 2 not black. Wing with small costal black spines extending to tip of R_{4+5} , occasionally before tip of R_{4+5} ; M_1 not curved upward and close to R_{4+5} (Miller, 1977; Stuckenberg, 1971). This subgenus has rich diversity in China. Moreover, the similar male genitalia make it difficult to decide a new species such as *Homoneura (H.) grandis* (Kertész, 1915), *Homoneura (H.) simigrandis* sp. nov. and *Homoneura (H.) pseudograndis* Papp & Gaimari, 2013. It includes more than 500 described species in five zoogeographical regions except for the Neotropical Region, and more than 200 species in China until the end of 2013. It is necessary to divide the subgenus *Homoneura* into different species groups, and then it makes the identification easy and fast. Besides the characteristics of male genitalia, the wing patterns (such as the number and location of spots) are also very helpful to build twenty one species groups, which would make the identifications easier in the subgenus *Homoneura*. The diagnosis of those species groups are further improved in this paper compared to the previous research by Shi & Yang (2009a). The *H. (H.) henanensis* group and *H. (H.) brevis* group are incorporated into *H. (H.) henanensis* group according to wing with five brown spots. All those species groups

Remarks. The new species is similar to *Homoneura (Homoneura) fengyangshanica* sp. nov. from China (Zhejiang) in the following characters: similar color and pattern of frons, face and mesonotum; wing with two brown spots between *r-m* and apical spot on R_{4+5} , brown apical spots on R_{4+5} separated from spot on M_1 , brown clouds on *r-m* and *dm-cu*, brown spots at tip of Sc and R_1 confluent with broad brown cloud on *r-m*; abdominal male tergites 3–6 (female 3–7) each with a black medial stripe-like spot and a pair of brown lateral spots. But it can be separated from the latter by the following characters: the hind femur being black except for yellow tip; the apical spot on R_1 being confluent with the brown cloud on *r-m*; a brown spot on R_{4+5} being confluent with the brown cloud on *dm-cu*; the epandrium having three pairs of dorsal setae; the surstylus having three acute processes in ventral view. In *H. (H.) fengyangshanica*, the hind femur is brownish yellow; the apical spot on R_1 is separated from the brown cloud on *r-m*; a brown spot on R_{4+5} is separated from the brown cloud on *dm-cu*; the epandrium has four pairs of dorsal setae and a tiny tooth on ventral margin; the surstylus is triangular in ventral view. The species is also similar to *Homoneura (Homoneura) concava* Sasakawa from China (Taiwan), but the latter has the following characters: one of the brown spots between *r-m* and apical spot on R_{4+5} extending upward through R_{2+3} and the surstylus having a concavity in lateral view.

Etymology. The species is named after the type locality Zhejiang.

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