A CHECKLIST OF THE FAMILY LAUXANIIDAE (DIPTERA, LAUXANIOIDEA) IN VIETNAM

Hyun Suk Lee^{a*}

^aThe Faculty of Biology, Dalat University, Lamdong, Vietnam

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Abstract

I reviewed the lauxaniid literatures as much as possible, and listed any lauxaniid species with collecting records in Vietnam. Vietnamese lauxaniid flies belong to two subfamilies. In this paper, I provide a taxonomic checklist of 60 nominal species under the subfamily Homoneurinae. However, this checklist is based on information of diverse literatures, not confirmation of identifications with each species. I will provide other checklist of lauxaniid species under the subfamily Lauxaniinae as soon as possible. A more comprehensive research is needed to confirm identifications of previously recorded lauxaniid species in Vietnam.

Keywords: Checklist; Diptera; Homoneurinae; Lauxaniidae; Vietnam.

1. INTRODUCTION

The Lauxaniidae is one of the largest Acalyptratae families. There are more than 160 genera and nearly 2,000 described species, distributed worldwide except for Antarctica (Shi, Yang, & Gaimari, 2011). Lauxaniid flies are usually found in moist shady undergrowth, grassland, all forest types, sand dunes, mangrove swamps and even on mountain summits (Kim, 1994). Saprophagous larval stages are found in leaf litter, decaying vegetation and similar habitats (Kim, 1994).

Sasakawa (2001) conducted a comprehensive taxonomic research about the Vietnamese fauna of lauxaniid flies for the first time. This work consists of 75 species including 34 new species and 40 newly recorded species (21 species belong to the Lauxaniinae and 54 to the Homoneurinae). Before this work, only three species, *Sciasmomyia meijerei* Hendel (1907), *Trigonometopus (Tetroxyrhina) tinctipennis* de Meijere (1924) and *Homoneura (Homoneura) tryptoptera* (Hendel, 1908) had been recorded in Vietnam (Shewell, 1977). Sasakawa (2002, 2003) also listed many

* Corresponding author: exuknight@gmail.com

Vietnamese lauxaniid species in Oriental lauxaniid fauna. Shi, Yang and Gaimari (2011) described four new species from China and Southeast Asia. In this work, three new species and other three species are recorded for the first time in Vietnam. Lee et al. (2016) provided color photographs and descriptions of four Homoneurinae species in pictorial book of Southern Vietnam.

This checklist aims at reviewing the lauxaniid literatures as many as possible, and lists any lauxaniid species with Vietnamese records. In total, 60 species under the subfamily Homoneurinae are officially listed for the Vietnamese lauxaniid fauna. However, this checklist is based on information of diverse literatures, not confirmation of identifications with each species. I will provide other checklist of lauxaniid species under the subfamily Lauxaniinae as soon as possible. This checklist will be a fundamental base for comprehensive taxonomic research of lauxaniid fauna in Vietnam.

2. RESULTS

Genus *Cestrotus* Loew, 1862

TS: *Cestrotus turritus* Loew, 1862.

1. *Cestrotus flavoscutellatus* Meijere (1910, p.142). TL: Indonesia, Java, Gunung Pantjar, nr Bogor.

Vietnamese Records:

Cestrotus flavoscutellatus; Sasakawa (2001, p.54, remarks, distribution, new to Vietnam); Sasakawa (2002, p.53, distribution); Sasakawa (2003, p.63, distribution, new to Laos); Shi, Yang and Giamari (2009, pp.43, 46, 68, in Chinese key, diagnosis, description, distribution, head, thorax and wing photo, male genitalic figure, remarks); Shi, Yang and Gaimari (2011, p.673, distribution, new to Thailand).

Distribution: China (Guangxi, Hainan, Hunan, Taiwan), Indonesia, Laos, Malaysia, Nepal, Thailand, Vietnam.

2. *Cestrotus heteropterus* Shi et al. (2009, p.54). TL: China, Yunnan, Mengla, Lushilin.

Vietnamese Records:

Cestrotus heteropterus; Shi et al. (2011, p.673, distribution, new to Malaysia and Vietnam).

Distribution: China (Yunnan), Malaysia, Thailand, Vietnam.

3. *Cestrotus quadrimaculatus* Shi et al. (2011, p.668). TL: Thailand, Kamphaeng Phet, Khlong Lan, nr Khlong Lan waterfall.

Vietnamese Records:

Cestrotus quadrimaculatus; Shi et al. (2011, p.668, diagnosis, head and thorax photo, male genitalic figure, remarks).

Distribution: Thailand, Vietnam.

Genus *Dioides* Kertesz, 1915

TS: *Dioides pictipennis* Kertesz, 1915.

4. *Dioides furcatus* Shi, Li and Yang (2009, p.95). TL: China, Hainan, Yinggeling National Natural Reserve, Hongmao village.

Vietnamese Records:

Dioides furcatus; Shi et al. (2011, p.681, distribution, new to Thailand and Vietnam).

Distribution: China (Hainan), Thailand, Vietnam.

5. *Dioides merzi* Shi et al. (2011, p.674). TL: Vietnam, Tay Ninh, Nui Ba Den.

Vietnamese Records:

Dioides merzi; Shi et al. (2011, p.674, diagnosis, distribution, male genitalic figure, remarks, wing photo).

Distribution: Thailand, Vietnam.

Genus *Homoneura* Wulp, 1891

TS: *Homoneura* (*Homoneura*) *picea* Wulp, 1891.

6. *Homoneura* (*Chaetohomoneura*) *semibrunnea* (Meijere, 1916, p.91 (*Lauxania*)). TL: Indonesia, Sumatra, Air Tarbis.

Vietnamese Records:

Homoneura (*Chaetohomoneura*) *semibrunnea*; Sasakawa (2001, p.56, description, distribution, new to Vietnam); Shi, Wang and Yang, 2011: 27 (distribution).

Distribution: Indonesia, Malaysia, Vietnam.

7. *Homoneura* (*Homoneura*) *affinis* Malloch (1929, p.81). TL: Philippines, Negros, Cuernos Mts.

Vietnamese Records:

Homoneura (*Homoneura*) *affinis*; Sasakawa (2001, pp.75, 79, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2009, p.47, description, distribution, new to Micronesia).

Distribution: India, Indonesia, Malaysia, Micronesia, Philippines, Singapore, Russian Far East, Vietnam.

8. *Homoneura* (*Homoneura*) *conspicua* Sasakawa (2001, p.79). TL: Vietnam, Karyu Danar.

Vietnamese Records:

Homoneura (*Homoneura*) *conspicua*; Sasakawa (2001, pp.75, 79, in Vietnamese

key, discussion, male genitalic figure).

Distribution: Vietnam.

9. *Homoneura (Homoneura) cornuta* Sasakawa (2001, p.85). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Homoneura) cornuta; Sasakawa (2001, pp.76, 85, in Vietnamese key, diagnosis, discussion, male genitalic figure); Gao and Yang (2004, p.355, diagnosis, distribution, new to China, redescription, wing and male genitalic figure); Shi and Yang (2009b, p.470, distribution).

Distribution: China (Guangxi), Vietnam.

10. *Homoneura (Homoneura) demeijerei* Malloch (1929, p.75). TL: Indonesia, Sumatra, Bukittinggi.

Vietnamese Records:

Homoneura (Homoneura) demeijerei; Sasakawa (2001, pp.75, 78, in Vietnamese key, distribution, new to Vietnam); Lee et al. (2016, p.38, description, habitus photo).

Distribution: Indonesia, Malaysia, Vietnam.

11. *Homoneura (Homoneura) discoalbata* Sasakawa (1992, p.171). TL: Malaysia, Selangor, Kepong, FRIM.

Vietnamese Records:

Homoneura (Homoneura) discoalbata; Sasakawa (2001, pp.75, 85, in Vietnamese key, description, distribution, new to Vietnam).

Distribution: Malaysia, Vietnam.

12. *Homoneura (Homoneura) discoglauca* (Walker, 1860, p.147 (*Ochthiphila*)).

TL: Indonesia, Sulawesi.

Vietnamese Records:

Homoneura (Homoneura) discoglauca; Sasakawa (2001, pp.76, 93, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2009, p.49, description, distribution, new to Micronesia).

Distribution: Australia, China (Taiwan), Indonesia, Japan, Malaysia, Micronesia, Solomon Islands, Vietnam.

13. Homoneura (Homoneura) fasciventris Malloch (1927, p.169). TL: Taiwan.

Vietnamese Records:

Homoneura (Homoneura) fasciventris; Sasakawa (2001, pp.76, 94, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2002, p.55, distribution); Sasakawa (2003, p.68, distribution, new to Laos); Shi and Yang (2009c, p.28, distribution); Li and Yang (2012, p.28, distribution).

Distribution: China (Taiwan), Indonesia, Laos, Malaysia, Vietnam.

14. Homoneura (Homoneura) grahami Malloch (1929, p.81). TL: China, Sichuan, Mt. Omei.

Vietnamese Records:

Homoneura (Homoneura) grahami; Sasakawa (2001, pp.75, 82, in Vietnamese key, description, distribution, new to Vietnam).

Distribution: China (Sichuan), Vietnam.

15. Homoneura (Homoneura) grandis (Kertész, 1915, p.529 (Lauxania)). TL: Taiwan, Taihorinsho.

Vietnamese Records:

Homoneura (Homoneura) grandis; Sasakawa (2001, pp.76, 86, in Vietnamese

key, distribution, new to Vietnam).

Distribution: China (Taiwan), Vietnam.

16. *Homoneura (Homoneura) immaculata* (Meujere, 1910, p.123 (*Lauxania*)).
TL: Indonesia, Java, Wonosobo.

Vietnamese Records:

Homoneura (Homoneura) immaculata; Sasakawa (2001, pp.76, 94, in Vietnamese key, description, distribution, new to Vietnam); Sasakawa (2003, p.70, distribution, new to Laos).

Distribution: China (Guangxi, Guizhou, Hainan), Indonesia, Laos, Malaysia, Vietnam.

17. *Homoneura (Homoneura) interrupta* Sasakawa (2001, p.93). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Homoneura) interrupta; Sasakawa (2001, pp.76, 93, in Vietnamese key, diagnosis).

Distribution: Vietnam.

18. *Homoneura (Homoneura) laticosta* (Thomson, 1869, p.598 (*Geomyza*)). TL: Singapore.

Vietnamese Records:

Homoneura (Homoneura) laticosta; Sasakawa (2001, pp.75, 82, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2003, p.70, distribution, new to Laos); Sasakawa (2009, p.50, description, distribution, new to Micronesia).

Distribution: Australia, China (Taiwan), Indonesia, Laos, Malaysia, Micronesia, Philippines, Singapore, Solomon Islands, Thailand, Vietnam.

19. *Homoneura (Homoneura) lucida* (Meijere, 1910, p.132 (*Lauxania*)). TL: Indonesia, Java, Djakarta.

Vietnamese Records:

Homoneura (Homoneura) lucida; Sasakawa (2001, pp.75, 82, in Vietnamese key, distribution, new to Vietnam).

Distribution: India, Indonesia, Malaysia, Philippines, Sri Lanka, Vietnam.

20. *Homoneura (Homoneura) nubecula* Sasakawa (2001, p.88). TL: Vietnam, Lao Cai, Sa Pa.

Vietnamese Records:

Homoneura (Homoneura) nubecula; Sasakawa (2001, pp.76, 88, in Vietnamese key, discussion, male genitalic figure).

Distribution: Vietnam.

21. *Homoneura (Homoneura) ornatifrons* (Kertész, 1913, p.91 (*Lauxania (Minettia)*)). TL: Taiwan, Kosempo.

Vietnamese Records:

Homoneura (Homoneura) ornatifrons; Sasakawa (2001, pp.76, 93, in Vietnamese key, description, distribution, new to Vietnam); Sasakawa (2002, p.57, distribution).

Distribution: Japan (Ryukyus), China (Taiwan), Vietnam.

22. *Homoneura (Homoneura) parvibifida* Sasakawa (2001, p.78). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Homoneura) parvibifida; Sasakawa (2001, pp.75, 78, in Vietnamese key, discussion, male genitalic figure).

Distribution: Vietnam.

23. *Homoneura (Homoneura) philippinensis* Malloch (1929, p.68). TL: *Philippines*.

Vietnamese Records:

Homoneura (Homoneura) philippinensis; Sasakawa (2001, pp.75, 77, in Vietnamese key, description, distribution, new to Vietnam).

Distribution: Malaysia, Philippines, Vietnam.

24. *Homoneura (Homoneura) picta* (Meijere, 1904, p.114 (*Drosomyia*)). TL: *Indonesia, Java, Tosari*.

Vietnamese Records:

Homoneura (Homoneura) picta; Sasakawa (2001, pp.76, 90, in Vietnamese key, distribution, new to Vietnam); Gao & Yang (2004, p.361, diagnosis, distribution); Lee et al. (2016, p.39, description, habitus photo).

Distribution: China (Guangxi, Guizhou, Zhejiang, Taiwan), India, Indonesia, Malaysia, Nepal, Singapore, Thailand, Vietnam.

25. *Homoneura (Homoneura) piliseta* Malloch (1929, p.45). TL: *not given*.

Vietnamese Records:

Homoneura (Homoneura) piliseta; Sasakawa (2001, pp.76, 90, in Vietnamese key, description, distribution, new to Vietnam).

Distribution: Indonesia, Vietnam.

26. *Homoneura (Homoneura) protuberans* Sasakawa (2001, p.91). TL: *Vietnam, Lam Dong, Dalat*.

Vietnamese Records:

Homoneura (Homoneura) protuberans; Sasakawa (2001, pp.76, 91, in Vietnamese key, diagnosis, discussion, male genitalic figure).

Distribution: Vietnam.

27. *Homoneura (Homoneura) quiquenotata* (Meijere, 1915, p.137 (*Lauxania*)). TL: *Indoneia, Java*.

Vietnamese Records:

Homoneura (Homoneura) quiquenotata; Sasakawa (2001, pp.76, 85, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2003, p.71, distribution, new to Laos).

Distribution: China (Taiwan), Indonesia, Laos, Malaysia, Vietnam.

28. *Homoneura (Homoneura) sauteri* Malloch (1927, p.171). TL: *Taiwan, Kosempo*.

Vietnamese Records:

Homoneura (Homoneura) sauteri; Sasakawa (2001, pp.75, 81, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2003, p.71, distribution, new to Laos); Shi and Yang (2009b, p.470, distribution).

Distribution: China (Hainan, Taiwan), Indonesia, Laos, Malaysia, Sri Lanka, Vietnam.

29. *Homoneura (Homoneura) serristylis* Sasakawa (2001, p.81). TL: *Vietnam, Dak Lak, Buon Me Thuot*.

Vietnamese Records:

Homoneura (Homoneura) serristylis; Sasakawa (2001, pp.75, 81, in Vietnamese key, male genitalic figure).

Distribution: Vietnam.

30. *Homoneura (Homoneura) signata* (Wulp, 1881, p.52 (*Minettia*)). TL: Indonesia, Sumatra, Kloempang.

Vietnamese Records:

Homoneura (Homoneura) signata; Sasakawa (2001, pp.75, 81, in Vietnamese key, distribution, new to Cambodia and Vietnam); Sasakawa (2003, p.72, distribution, new to Laos); Shi and Yang (2009b, p.470, distribution).

Distribution: Cambodia, China (Heilongjiang), India, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, Vietnam.

31. *Homoneura (Homoneura) signatifrons* (Kertész, 1900, p.264 (*Sapromyza*)). TL: Papua New Guinea, West Sepik, Aitape, Seleu.

Vietnamese Records:

Homoneura (Homoneura) signatifrons; Sasakawa (2001, pp.76, 92, in Vietnamese key, description, distribution, new to Vietnam, male genitalic figure); Sasakawa (2009, p.54, description, distribution).

Distribution: Indonesia, Malaysia, Micronesia, Papua New Guinea, Solomon Islands, Vietnam.

32. *Homoneura (Homoneura) striatifrons* (Meijere, 1924, p.52 (*Lauxania*)). TL: Indonesia, Java, Tijbodas.

Vietnamese Records:

Homoneura (Homoneura) striatifrons; Sasakawa (2001, pp.75, 82, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2003, p.72, distribution, new to Laos and Thailand).

Distribution: China (Taiwan), Indonesia, Japan (Ryukyus), Laos, Thailand, Vietnam.

33. *Homoneura (Homoneura) strigata* (Meijere, 1910, p.136 (*Lauxania*)). TL:

Indonesia, Java.

Vietnamese Records:

Homoneura (Homoneura) strigata; Sasakawa (2001, pp.75, 84, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2003, p.72, distribution, new to Laos); Lee et al. (2016, p.40, description, habitus photo).

Distribution: Indonesia, Laos, Malaysia, Vietnam.

34. *Homoneura (Homoneura) subnubecula* Sasakawa (2001, p.89). TL: Vietnam, Lao Cai, Sa Pa.

Vietnamese Records:

Homoneura (Homoneura) subnubecula; Sasakawa (2001, pp.76, 89, in Vietnamese key, discussion, male genitalic figure).

Distribution: Vietnam.

35. *Homoneura (Homoneura) trivittata* Sasakawa (1992, p.205). TL: Malaysia, Borneo, Sabah, Sepilok Forest Reserve.

Vietnamese Records:

Homoneura (Homoneura) trivittata; Sasakawa (2001, pp.76, 85, in Vietnamese key, distribution, new to Vietnam).

Distribution: Indonesia, Malaysia, Vietnam.

36. *Homoneura (Homoneura) trypetoptera* (Hendel, 1908, p.27 (*Lauxania (Sapromyza)*)). TL: Vietnam.

Vietnamese Records:

Homoneura (Homoneura) trypetoptera; Sasakawa (1992, p.207, description, distribution, new to Malaysia and Borneo, male genitalic figure); Sasakawa (1998, p.57, distribution); Sasakawa (2001, pp.76, 90, in Vietnamese key, distribution); Sasakawa

(2003, p.74, distribution, new to Laos); Lee et al. (2016, p.41, description, habitus photo).

Distribution: China (Taiwan), India, Indonesia, Laos, Malaysia, Nepal, Philippines, Sri Lanka, Thailand, Vietnam.

37. *Homoneura (Homoneura) undulata* Sasakawa (2001, p.76). TL: Vietnam, Khanh Hoa, Ninh Hoa, North of Nha Trang.

Vietnamese Records:

Homoneura (Homoneura) undulata; Sasakawa (2001, pp.75, 76, in Vietnamese key, discussion, male genitalic figure).

Distribution: Vietnam.

38. *Homoneura (Homoneura) unguiculata* (Kertész, 1913, p.100 (*Lauxania (Minettia)*)). TL: Taiwan, Takao, Yentempo, Koshun, Tainan, Taihoku.

Vietnamese Records:

Homoneura (Homoneura) unguiculata; Shatalkin (1996, p.182, in Palaearctic key, distribution); Shatalkin (2000, p.29, in Palaearctic key, distribution); Sasakawa (2001, pp.75, 79, in Vietnamese key, distribution, new to Vietnam); Sasakawa (2002, p.58, distribution); Schacht, Kurina, Merz and Gaimari (2004, p.54, English translation of Shatalkin, 2000, p.29).

Distribution: China (Taiwan), Japan, North Korea, Sri Lanka, USA (immigrant), Vietnam.

39. *Homoneura (Homoneura) vietnamensis* Sasakawa (2001, p.86). TL: Vietnam, Lao Cai, Sa Pa.

Vietnamese Records:

Homoneura (Homoneura) vietnamensis; Sasakawa (2001, pp.76, 86, in Vietnamese key, discussion, male genitalic figure).

Distribution: Vietnam.

40. *Homoneura (Homoneura) vittigera* Sasakawa (2001, p.82). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Homoneura) vittigera; Sasakawa (2001, pp.75, 82, in Vietnamese key, discussion, male genitalic figure).

Distribution: China (Yunnan), Vietnam.

41. *Homoneura (Minettioides) forcipata* (Kertész, 1913, p.100 (*Lauxania (Minettia)*)). TL: Taiwan, Takao.

Vietnamese Records:

Homoneura (Homoneura) forcipata; Sasakawa (2001, pp.75, 81, in Vietnamese key, distribution, new to Vietnam).

Homoneura (Minettioides) forcipata; Shi, Gaimari and Yang (2012, p.6, diagnosis, distribution).

Distribution: China (Taiwan), Malaysia, Micronesia, Vietnam.

42. *Homoneura (Neohomoneura) apodemata* Sasakawa (2001, p.61). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (Neohomoneura) apodemata; Sasakawa (2001, pp.57, 61, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Vietnam.

43. *Homoneura (Neohomoneura) bigibba* Sasakawa (2001, p.70). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (*Neohomoneura*) *bigibba*; Sasakawa (2001, pp.58, 70, in Vietnamese key, male genitalic figure, remarks); Sasakawa (2003, p.66, description, distribution, new to Laos); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Laos, Vietnam.

44. *Homoneura* (*Neohomoneura*) *caudata* Sasakawa (2001, p.59). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (*Neohomoneura*) *caudata*; Sasakawa (2001, pp.57, 59, in Vietnamese key, diagnosis, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Vietnam.

45. *Homoneura* (*Neohomoneura*) *clavigera* Sasakawa (2001, p.67). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (*Neohomoneura*) *clavigera*; Sasakawa (2001, pp.58, 67, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Vietnam.

46. *Homoneura* (*Neohomoneura*) *diphylla* Sasakawa (2001, p.58). TL: Vietnam, Lam Dong, Di Linh.

Vietnamese Records:

Homoneura (*Neohomoneura*) *diphylla*; Sasakawa (2001, pp.57, 58, in

Vietnamese key, diagnosis, male genitalic figure); Sasakawa (2003, p.66, distribution, new to Laos); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Laos, Vietnam.

47. *Homoneura (Neohomoneura) dolabrifera* Sasakawa (2001, p.65). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Neohomoneura) dolabrifera; Sasakawa (2001, pp.57, 65, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Vietnam.

48. *Homoneura (Neohomoneura) honesta* (Kertész, 1915, p.532 (*Lauxania (Minettia)*)). TL: Taiwan, Kosempo.

Vietnamese Records:

Homoneura (Neohomoneura) honesta; Sasakawa (2001, pp.58, 72, in Vietnamese key, distribution, new to Cambodia and Vietnam); Sasakawa (2002, p.61, description, distribution); Sasakawa (2003, p.67, distribution, new to Laos); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Cambodia, China (Taiwan), Laos, Malaysia, Thailand, Vietnam.

49. *Homoneura (Neohomoneura) incompleta* Malloch (1927, p.108). TL: Indonesia, Sumatra, Bukittinggi.

Vietnamese Records:

Homoneura (Neohomoneura) incompleta; Sasakawa (2001, pp.58, 74, in Vietnamese key, description, distribution, new to Vietnam, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: China (Guangxi, Hainan, Yunnan), Indonesia, Vietnam.

50. *Homoneura (Neohomoneura) lateriloba* Sasakawa (2001, p.67). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (Neohomoneura) lateriloba; Sasakawa (2001, pp.58, 67, in Vietnamese key, diagnosis, male genitalic figure); Sasakawa (2003, p.67, distribution, new to Laos); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Laos, Vietnam.

51. *Homoneura (Neohomoneura) longiseta* Sasakawa (2001, p.62). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (Neohomoneura) longiseta; Sasakawa (2001, pp.57, 62, in Vietnamese key, diagnosis, male genitalic figure, remarks); Sasakawa (2003, p.67, distribution, new to Laos); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Laos, Vietnam.

52. *Homoneura (Neohomoneura) mediomaculata* Sasakawa (2001, p.65). TL: Vietnam, Khanh Hoa, Dai Lanh.

Vietnamese Records:

Homoneura (Neohomoneura) mediomaculata; Sasakawa (2001, pp.57, 65, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: Cambodia, Vietnam.

53. *Homoneura* (*Neohomoneura*) *nebulosa* Sasakawa (2001, p.72). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (*Neohomoneura*) *nebulosa*; Sasakawa (2001, pp.58, 72, in Vietnamese key, diagnosis, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.19, description, diagnosis, distribution, remarks, wing photo).

Distribution: China (Guangxi), Vietnam.

54. *Homoneura* (*Neohomoneura*) *nigronotata* (Kertész, 1915, p.530 (*Lauxania*)). TL: Taiwan.

Vietnamese Records:

Homoneura (*Neohomoneura*) *nigronotata*; Sasakawa (2001, p.57, in Vietnamese key); Shi and Yang (2008, p.46, distribution); Shi and Yang (2009b, p.470, distribution); Shi et al. (2011, p.27, distribution).

Distribution: China (Taiwan), Vietnam.

55. *Homoneura* (*Neohomoneura*) *paroeca* (Kertész, 1915, p.531 (*Lauxania*)). TL: Taiwan, Kosempo.

Vietnamese Records:

Homoneura (*Neohomoneura*) *paroeca*; Sasakawa (2001, p.57, in Vietnamese key); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.27, distribution).

Distribution: China (Taiwan), Vietnam.

56. *Homoneura* (*Neohomoneura*) *pollex* Sasakawa (2001, p.69). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Homoneura (Neohomoneura) pollex; Sasakawa (2001, pp.58, 69, in Vietnamese key, discussion, male genitalic figure, remarks); Shi and Yang (2008, pp.35, 46, diagnosis, distribution, new to China); Shi et al. (2011, p.27, distribution).

Distribution: China (Taiwan), Vietnam.

57. *Homoneura (Neohomoneura) subhonestata* Sasakawa (2001, p.71). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (Neohomoneura) subhonestata; Sasakawa (2001, pp.58, 71, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, p.46, distribution); Shi et al. (2011, p.28, distribution).

Distribution: Vietnam.

58. *Homoneura (Neohomoneura) turbida* Sasakawa (2001, p.63). TL: Vietnam, Lam Dong, Fyan.

Vietnamese Records:

Homoneura (Neohomoneura) turbida; Sasakawa (2001, pp.57, 63, in Vietnamese key, discussion, male genitalic figure); Shi and Yang (2008, 46, distribution); Shi et al. (2011, p.28, distribution).

Distribution: Vietnam.

Genus *Phobeticomyia* Kertész, 1915

TS: *Phobeticomyia lunifera* (Meijere, 1910).

59. *Phobeticomyia lunifera* (Meijere, 1910, p.134 (*Lauxania*)). TL: Indonesia, Java, Jakarta.

Vietnamese Records:

Phobeticomyia lunifera; Sasakawa (2001, p.55, distribution, new to Vietnam);

Shi, Li and Yang (2009b, p.61, diagnosis, distribution, head and wing photo, male genitalic figure, remarks).

Distribution: China (Hainan, Taiwan), India, Indonesia, Malaysia, Nepal, Philippines, Sri Lanka, Thailand, Vietnam.

Genus *Prosopophorella* Meijere, 1918

TS: *Prosopophorella buccata* (Meijere, 1910).

60. *Prosopophorella yoshiyasui* Sasakawa (2001, p.54). TL: Vietnam, Vinh Phuc, Tam Dao.

Vietnamese Records:

Prosopophorella yoshiyasui; Sasakawa (2001, p.54, discussion, head and wing figure); Shi and Yang (2009a, p.160, description, diagnosis, distribution, new to China, head and wing photo, male genitalic figure).

Distribution: China (Guangxi), Vietnam.

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DANH LỤC CÁC BẬC PHÂN LOẠI THUỘC HỌ LAUXANIIDAE (DIPTERA, LAUXANIOIDEA) Ở VIỆT NAM

Hyun Suk Lee^{a*}

^aKhoa Sinh học, Trường Đại học Đà Lạt, Lâm Đồng, Việt Nam

*Tác giả liên hệ: Email: exuknight@gmail.com

Lịch sử bài báo

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Abstract

Dựa kết quả thu thập mẫu vật Lauxaniid và các tài liệu, danh lục thành phần các bậc phân loại thuộc Lauxaniid ở Việt Nam đã được thống kê. Kết quả nghiên cứu, Lauxaniid thuộc 2 phân họ, 60 loài. Tuy nhiên đây là kết quả bước đầu, cần phải tiến hành nghiên cứu kỹ hơn nữa dựa trên mẫu vật thu được một cách toàn diện.

Từ khóa: Diptera; Danh lục; Homoneurinae; Lauxaniidae; Việt Nam.