

# A List of Chalcidoidea, Hymenoptera from Korea.

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한국산 좀벌상과의 목록

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## Abstracts

About 50 species of Chalcidoidea were recorded, but this superfamily Chalcidoidea has been little known in Korea. In this paper, many unrecorded species and three families, Perilampidae, Signiphoridae and Elasmidae recorded from Korea are listed.

### Introduction

Previously, about 50 species of Chalcidoidea were recorded from Korea; however, detailed descriptions were not published.

The writer reared many species of chalcid wasps from various insects. Complete descriptions are desirable, however, for some reasons only a list of the parasites and hosts are enumerated. Materials were collected from a survey of insect pests from 1973 to 1977 under the Strengthening Plant Protection Research and Training Project, FAO/UNDP.

I also examined some collections in our department and Dr. W.H. Paik's, Seoul National University.

The asterisk indicates recorded species.

### 1. Leucospidae 밑줄이 좀벌과

#### \**Leucospis japonica* Walker 밑줄이 좀벌

*Leucospis japonica* Walker, 1871, Notes on Chalcididae, 41:56

*Leucospis exornata* Walker, 1871, Notes on Chalcididae, 4:57

*Leucospis japonica* var. *formosana* Strand, 1911,

Wien. ent. Ztg., 30:93-99.

*Leucospis orientalis* Weld, 1922, Proc. U.S. natn. Mus., 61(1):28.

*Leucospis japonica*; Boucek, 1974, Bull. Br. Mus. nat. Hist. (Ent.) Suppl. 23:194.

Host: *Megachile nipponica* Cockerell, *M. sculpturalis* Smith, *Osmia* (*Osmia*) *excavata* Alfken. (Hym., Megachilidae)

Mat. Ex.: 1female, 10 iv '23, Unknown place, 1 female, 13 vii '23, Weoljeongsa, Mt. Odasan, Ganweon-Do, 3 female & 1 male, 1 viii '24, Daeonsa, Sancheong, Gyeongnam-Do

### 2. Chalcididae 수중다리좀벌과

\**Brachymeria* (*B.*) *fiskei* (Crawford) 피스케 수중다리좀벌

*Chalcis fiskei* Crawford, 1910 Tech. Ser. U.S. Dept. Agr. Ent., 19(2):16.

*Chalcis yponomeutae* Okamoto, 1921, Rep. Hokkaido Agr. Exp. Sta., 12:8

*Brachymeria fiskei*; Habu, 1962, Fauna Japonica: 48.

Host: Unknown

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- Mat. Ex.: Not collected.
- \***Brachymeria (B.) fonscolombeii (Dufour)** 얼룩수중다리좀벌  
*Chalcis podagrica* Walker (nec Fabricius), 1834, Ent. Mag., 2:31-32.  
*Chalcis fonscolombeii* Dufour, 1841, Ann. Soc. Ent. France, 10:11-19.  
*Chalcis callipus* Kiry, 1883, Jour. Linn. Soc. London, Zool., 17:75  
*Chalcis mikado* Cameron, 1888, Proc. Manch. Lit. Phil. Soc., 36:1-2.  
*Chalcis neglecta* Masi, 1916, Ann. Mus. Civ. Stor. Nat. Genova, ser. 3, 7(47):84-86.  
*Brachymeria fonscolombeii*; Masi, 1936, Mushi, 9:51.  
Host: Unknown  
Mat. Ex.: 1 female, 28 v '74, 2 female, 1 male, 21 viii '74, Suweon
- \***Brachymeria (B.) funesta Habu** 흑수중다리좀벌  
*Brachymeria (B.) funesta* Habu, 1960, Bull. Nat. Inst. Agr. Sci., ser. C. 11:191.  
Host: Unknown  
Mat. Ex.: Not collected.
- \***Brachymeria (B.) minuta (Linnaeus)** 꼬마수중다리좀벌  
*Vespa minuta* Linnaeus, 1767, Syst. Nat., ed. 12. 1(2):952  
*Chalcis pusilla* Rossi, 1790, Fauna Etrusca, 2:59.  
*Chalcis minuta* Walker, 1834, Symbolae Physicae, decade 4.  
*Chalcis scrobiculata* Förster, 1859, Verh. Naturh. Ver. Preuss. Rhein. 16:93.  
*Chalcis tricolor* Förster, 1859, Verh. Naturh. Ver. Preuss. Rhein. 16:98.  
*Chalcis fumata* Thomson, 1875, Skand. Hym., 4:18.  
*Chalcis paraplesia* Crawford, Tech. Ser. U.S. Dept. Agr. Ent., 19(2):14.  
*Chalcis jezoensis* Matsumura, Thousant. Ins. Japan, suppl. 4: 166.  
*Brachymeria minuta*; Masi, 1936, Mushi, 9:49.  
Host: Cocons of Ichneumonidae (Hymenoptera)  
Mat. Ex.: 1 female, 2 xi '77, Jindo, 2 male, 28 ix '74, ex cocoons of Ichneumonidae, Suweon
- \***Brachymeria (B.) ornatipes (Cameron)** 수중다리좀벌  
*Chalcis ornatipes* Cameron, 1906, Jour. Bombay Nat. Hist. Soc., 17:290-291.  
*Chalcis koebelei* Crawford, 1909, Proc. Ent. Soc. Wash., 11:207.  
*Brachymeria femorata* Gahan, 1938, Ent. Soc. Wash., 40:209 (partim)  
*Brachymeria femorata*; Habu, 1959, Kontyû. 27:133 (nec Panzer)  
*Brachymeria ornatipes*; Habu, 1962, Fauna Japonica, 30.  
Host: Unknown  
Mat. Ex.: Not collected.
- \***Brachymeria (B.) obscurata (Walker)** 무늬수중다리좀벌  
*Chalcis obscurata* Walker in Smith, 1874, Trans. Ent. Soc. London, 399  
*Chalcis euploaeae* Kirby, 1883, Jour. Linn. Soc. London, Zool., 17:68. (partim)  
*Brachymeria obscurata*; Habu, Fauna Japonica: 33.  
Host: *Dendrolimus spectabilis* Butler (Lep., Lasiocampidae), *Plusia agnata* Butler (Lep., Noctuidae), *Archips* sp. *Acleris fimbriana* (Thunberg), (Lep., Tortricidae), *Rhythmonotus takagi* Matsumura (Hym., Ichneumonidae)  
Mat. Ex.: 1 female, 10 xi '67, Pyeungtaek, 1 female, 17 ix '76, ex *Archips* sp., 1 male, 18 ix '77, ex *P. agnata* B., 1 female, 14 ix '77, ex *Acleris fimbriana* (T.), Suweon
- \***Antrocephalus apicalis (Walker)** 흉수중다리좀벌  
*Halticella apicalis* Walker, in Smith, 1874, Trans. Ent. Soc. London, 400  
*Halticella tinclipennis*. Smith, 1888, Proc. Soc. Manch. Lit. Phil. Soc., 36:2.  
*Stomatoceras tinclipennis*; Ashmead, 1904, Jour. New York Ent. Soc., 12:184.  
*Stomatoceras apicalis*; Ishii, Icon. Inc. Japan: 349  
*Antrocephalus apicalis*; Habu, 1962, Fauna Japonica: 94  
Host: Unknown  
Mat. Ex.: Not collected.
- \***Dirhinus (Dirhinus) hesperidum (Rossi)** 뿔수중다리좀벌  
*Chrysis hesperidum* Rossi, 1970, Fauna Etrusca, 2:100.  
*Chalcis cornigera* Jurine, 1807, Nov. Méthode Clas. Hym. & Dipt., 1:315.  
*Dirrhinus imperialis* Giraud, 1863, Verh. Zool.-bot. Gas. Wien, 13:1309.

*Dirhinus hesperidum*; Habu, 1962, Fauna Japnica: 143.

Host: *Musca domestica* Linnaeus (Dip., Muscidae)  
Mat. Ex.: Not collected.

\***Spilochalcis xanthostigma** (Dalman) 뺨새수증다리좀벌

*Chalcis xanthostigma* Dalman, 1820, Svensk. Vetensk. Handl., 41:141.

*Spilochalcis xanthostigma*; Thomson, 1875, Skand. Hym., 4:16.

Host: Unknown

Mat. Ex.: Not collected.

\***Chalcis biguttata spinola** 두점박이 수증다리좀벌

*Chalcis biguttata* Spinola, 1808, Ins. Ligur. 2:231.

*Chalcis melanaris* Dalman, 1818, Svensk. Ver. Akad. Handl., 39:79.

*Chalcis biguttata*: Nikol' skaya, 1952, Zool. Acad. Sci. USSR., No. 44:84.

Host: Unknown

Mat. Ex.: Not collected.

### 3. Podagricidae 사마귀꼬리좀벌과

\***Podagrion nipponicum** Habu 사마귀꼬리좀벌

*Podagrion nipponicum* Habu, 1962, Fauna Japonica:182.

*Podagrion chinensis*; Ishii (nec Ashmead), 1954, Icon. Ins. Japan:1410.

Host: Unknown

Mat. Ex.: Not collected.

### 4. Torymidae 꼬리좀벌과

\***Monodontomerus minor** (Ratzeburg) 송충살이꼬리좀벌

*Torymus minor* Ratzeburg, 1848, Ichneum. d. Forstinsect. 178.

*Monodontomerus spectabilis* Matsumura, 1926, Jour. Coll. Agr. Hokkaido Imp. Univ. 28:33.

*Monodontomerus subobsoletus* Gahan, 1941, Proc. U.S. natn. Mus. 90:480.

Host: *Pieris rapae curucivora* Boisduval (Lep., Pieridae), *Dendrolimus spectabilis* Butler (Lep., Lasiocampidae), *Lymantria dispar* Linnaeus (Lep., Liparidae)

Mat. Ex.: Not collected.

\***Monodontomerus dentipes** (Dalman) 가시꼬리좀벌

*Torymus dentipes* Dalman, 1820, Handl. k. Svenska Veren. Akad. 41:173.

Host: *Dendrolimus spectabilis* Butler (Lep., Lasiocampidae)

Mat. Ex.: Not collected.

**Torymus sp.**

Host: Cynipid galls on *Quercus* sp.

Mat. Ex.: 4 female, 2 v '75, 2 female, 6 v '78, Suweon

**Torymus spp.**

Host: *Trichagalma serrata* Ashmead, *Dryocosmus kuriphilus* Yasumatsu, *Neuroterus iwatensis* Shinji (Hym., Cynipidae), cynipid galls and cecidomyiid galls.

Mat. Ex.: Numerous specimens reared from the hosts in Suweon area.

Note: Two species are listed genus *Torymus* i. e., *T. elegantus* Yasumatsu, *T. beneficus* Yeasumatsu, but Dr. K. Kamijo, Japan, advised me these species are manuscript names of Dr. K. Yasumatsu.

\***Megastigmus inamurae** Yano 낙엽송꼬리좀벌

*Megastigmus inamurae* Yano, 1918, Rept. Forest Exp., Forest Bur. (Tokyo), 17:47.

Host: *Larix Kaempferi* Sarg., *L. Gmelini* var. *principis* Rupr. Pilger. (Pinaceae)

Mat. Ex.: Not collected.

Note: This species is a seed eater in North Korea.

**Megastigmus sp.**

Host: *Dryocosmus kuriphilus* Yasumatsu (Hym., Cynipidae)

Mat. Ex. 1 female, 21 vii '75, Suweon

Note: *M. maculipennis* Yasumatsu and *M. japonicus* Yasumatsu are listed in Korea. These two species are parasites of chestnut gall wasps in Korea, but these are manuscript names of Dr. K. Yasumatsu.

### 5. Ormyridae 남색꼬리좀벌과

**Ormyrus spp.**

Host: *Dryocosmus kuriphilus* Yasumatsu, *Diplolepis japonica* Ashmead, *Neuroterus iwatensis* Shinji, *Trichagalma serrata* Ashmead, cynipid galls on *Quercus* sp. (Hym., Cynipidae)

Mat. Ex.: 2 female, 14 iii '77 ex *T. serrata*. Suwon; 3 female, 15 iv '78, ex *T. serrata*, Daegu; 1 female, 6 vi '75, 1 female, 24 vi '75, 1 female, 21 vii '75, 1 male, 10 vi '75, 1 male, 17 vi '75,

2male, 15 iii '77, ex cynipid galls, Suweon; 1 male, 27 vi '77, ex cynipidgalls, Gwangneung, Gyeonggi-Do

Note: In Korea, two species of Ormyridae are listed, i.e., *O. foavilbialis* Yasumatsu and *O. nigrifibialis* Yasumatsu, therefore, these are manuscript names of Dr. K. Yasumatsu.

## 6. Eurytomidae 씨살이좀벌과

### \**Eurytoma laricis* Yano 씨살이좀벌

*Eurytoma laricis* Yano, 1943, Hosoya J. Forest Soc. Jap., 25

Host: *Larix Kaempferi* Sarg., *L. olgensis* Henry (Pinaceae), *Thuja orientalis* Eudl. (Cupressaceae)

Mat. Ex.: Not collected.

Note: This species attacks larch seeds and occurs in North Korea.

### \**Eurytoma rosae* Nees 상수리좀벌

*Eurytoma rosae* Nees, 1834, Hym. Ich. Aff. Mon. 2:415.

*Eurytoma sqamea* Walker, 1835, Ent. Mag. 2:154.

*Eurytoma pubicornis* Boheman, 1835, Svensk. Vet. Akad. Handl. 56:247.

Host: *Dryocosmus kuriphilus* Yasumatsu, *Trichagalma serrata* Ashmead, *Neuroterus iwatensis* Shinji, cynipid galls on *Quercus* sp. (Hym., Cynipidae)

Mat. Ex.: Many specimens reared from hosts in Suweon area.

### *Eurytoma* sp.

Host: *Pissodes nitidus* Roelofs (Col., Curculionidae)

Mat. Ex.: 8 female, 1 male, 10 v '78 ex *P. nitidus*, Suweon

### *Eurytoma* sp.

Host: Cynipid galls on *Quercus* sp.

Mat. Ex.: 2 female, 29 vi '77, Mt. Chiag, Gangweon-Do

### *Eurytoma* sp.

Host: Cocoons of *Apanteles* sp. (Hym., Braconidae) on cotton leaf.

Mat. Ex.: 11 female, 15 ix '73, Suweon

### *Eurytoma* sp.

Host: *Apanteles reficrus* Haliday (Hym., Braconidae)

Mat. Ex.: Many specimens reared. 18 viii '77, Pyungtaek, Gyeonggi-Do

### *Eurytoma* sp.

Host: Unknown (cocoons of Braconidae on *Pyrus* sp.)

Mat. Ex.: 11 female, 2 male, 12 viii '74, Suweon

### \**Eudecatoma variegata* (Walker) 참나무혹사리좀벌

*Decatoma variegata* Walker, 1833, Ent. Mag. 1: 28.

*Eurytoma signata* Mayr, 1834, Hym. Ich. Aff. Mon. 2:43.

Host: *Dryocosmus kuriphilus* Yasumatsu, *Neuroterus iwatensis* Shinji, *Trichagalma serrata* Ashmead (Hym., Cynipidae)

Mat. Ex.: 1 female, 1 male, 21 vii '75, ex *D. kuriphilus*. Suweon

### *Eudecatoma* sp.

Host: Cynipid galls on *Quercus* sp.

Mat. : 3 male, 10 iii '77, Suweon

Note: This species is very similar to *E. biguttata* (Swederus).

## 7. Eucharitidae 개미살이좀벌과

### \**Eucharis esakii* Ishii 에사키개미살이좀벌

*Eucharis esakii* Ishii, 1938, Kontyû, 12:195.

*Eucharis scutellaris* Gahan, 1940, Proc. U.S. natn. Mus. 88:425.

Host: Unknown

Mat. Ex.: Not collected.

Note: This species collected in Suweon (=Suigen) (after Ishii, 1938).

### \**Stilbula cyniformis* (Rossi) 개미살이좀벌

*Ichneumon cyniformis* Rossi, 1972, Mant. Insect. 125.

*Schizaspidia tenuicornis* Ashmead, 1904, Jour. New York Ent. Soc. 12:151.

*Stilbula cyniformis*; Ishii, 1938, Kontyû, 12:194.

Host: *Camponotus japonicus* (Mayr) (Hym., Formicidae, after Ishii, 1938)

Mat. Ex.: 1 female, 15 x '75, Mt. Odae, Gangwon-Do.

Note: This species also collected in Suweon (=Suigen) and Cheolweon (=Tetsugen) (after Ishii, 1938).

## 8. Perilampidae 곰추좀벌과 (신칭)

### *Perilampid* unknown genus

Host: Cynipid galls on *Quercus* sp.

Mat. Ex.: 3 female, 1 male, 30 ix '75, Jindo,  
Jeonranam-Do.  
Note: This family is recorded for the first time.

### 9. Pteromalidae 금좀벌과

#### \**Dibrachys (Dibrachys) cavus* (Walker) 황다리금 좀벌

*Pteromalus cavus* Walker, 1835, Ent. Mag. 2:477.  
*Pteromalus decedens* Walker, 1835, Ent. Mag.  
2:478.  
*Pteromalus tenuis* Ratzeburg, 1844, Ich. forst.  
Ent. forst. Bezieh. 1:195.  
*Pteromalus bouchéanus* Ratzeburg, 1844, Ich.  
forst. Ent. forst. Bezieh. 1:196.  
Host: *Grapholitha molesta* Busk (Lep., Tortricidae)  
Mat. Ex.: Not collected.

#### *Eupteromalus* sp.

Host: *Apanteles ruficrus* Haliday (Hym., Bracon-  
idae)  
Mat. Ex.: Many specimens reared. 18 viii '77,  
Suweon

#### *Dibrachys* sp.

Host: *Galleria mellonella* (Linnaeus) (Lep.,  
Pyralidae)  
Mat. Ex.: Many specimens reared. 18 vi '76, Iri,  
Jeonrabug-Do.

#### \**Nasonia vitripennis* (Walker)

*Pteromalus vitripennis* Walker, 1836, Ent. Mag.  
3:492.  
*Pteromalus muscarum* Hartig, 1838, Jahresh.  
Forstwiss. forst. Naturk. 1:256.  
*Pteromalus abnormis* Boheman, 1858, Oefvers. K.  
Vetensk Akad. förh. 15:58.  
*Dicyclus pallinervosus* Walker, 1872, Notes on  
Chalcidiae 7:17.  
*Stictonotus insuetus* Walker, 1872, Notes on  
Chalcidiae 7:17.  
*Mormoniella brevicornis* Ashmead, 1904, Mem.  
Carneg. Mus. 1:316.  
*Nasonia brevicornis* Ashmead, 1904, Mem. Carneg.  
Mus. 1:317.  
Host: Unknown  
Mat. Ex.: Not collected.

#### \**Lariophagus distinguendus* (Förster) 바구미살이 금좀벌

*Pteromalus distinguendus* Förster, 1841, Beit.

Mon. Pteromalinen, 1:17

*Pteromalus calamis* Walker, 1849, Ann. Mag. nat.  
Hist. 3:207.

*Pteromalus oryzinus* Rondani, 1874, Boll. Soc.  
ent. itat. 6:131.

*Merapours utibilis* Tucker, 1910, Can. Ent. 42:  
341.

Host: Unknown

Mat. Ex.: Not collected.

#### \**Mesopolobus amoenus japonica* Yasumatsu

Host: *Dryocosmus kuriphilus* Yasumatsu, *Neurot-  
elus iwatensis* Shinji (Hym., Cynipidae)

Mat. Ex.: Not collected.

Note: This species is probably the manuscript name  
of Dr. K. Yasumatsu.

#### \**Pteromalus paparum* (Linnaeus) 배추벌레살이금 좀벌

*Ichneumon puparum* Linnaeus, 1758, Systema Nat.  
ed. 10:567.

*Pteromalus latifrons* Walker, 1835, Ent. Mag.  
2:501.

*Pteromalus cephalotes* Walker, 1836, Ent. Mag.  
3:481.

*Pteromalus comes* Walker, 1836, Ent. Mag. 3:492.

*Pteromalus ornitus* Walker, 1839, Mon. Chalcid-  
itum 1:238.

*Pteromalus brassicae* Curtis, 1842, Jour. R. Agr.  
Soc. England, 3:311.

*Pteromalus pontiae* Curtis, 1842, Jour. R. Agr.  
Soc. England, 3:311.

*Pteromalus orinus* Walker, 1845, Proc. Linn. Soc.  
Lond. (Zool), 1:263.

*Pteromalus nigricans* Walker, 1872, (nec Förster),  
Notes on Chalcidiae, 7:21.

*Pteromalus brassicae* Packard, 1877, Rep. U.S.  
geol. geogr. Surv. 6:747.

*Pteromalus pieridis* Provancher, 1881, Nat. Canad.  
12:296.

Host: *Pieris rapae crucivora* Boisduval (Lep.,  
Pieridae)

Mat. Ex.: 15 female, 1 male, 4 vii '68, Suweon

#### *Habrocytus* sp.

Host: Unknown (collected in rice paddy)

Mat. Ex.: 6 female, 10—15 vi '73, Suweon

#### *Syntomopsis* sp.

Host: *Melanagromyza sojae* (Zehnter) (Dip., Agr-  
omyzidae)

Mat. Ex.: 4 female, 10 x '77, Suweon  
Note: The host agromyzid fly, *M. sojae* is unrecorded from Korea, and may feed on soy bean stems.

**Asaphes suspensus (Nees)**

*Chrysolampus suspensus* Nees, 1834, Hym. Ichneum. Affin. Monog. 2:127.

*Asaphes suspensus*; Graham, 1969, Bull. Brit. Mus. (Nat. Hist.) Ent. Suppl. 16:82.

Host: *Aphis gossypii* Glover/*Ephedrus plagiator* (Nees), *Aphis gossypii* Glover/*Ephedrus persicae* Froggat, *Cinara formosana* (Takahashi)/*Pauesia pini* (Haliday), *Cinara lousianensis* Boudreaux/*Pauesia infulata* (Haliday), *Macrosiphum ibarae* Matsumura/*Praon volucre* Haliday, *Plectrichphorus chrysantemi* (Theobald)/*Lysaphidus plectrichophori* Takada (Hom., Aphididae/Hym., Aphidiidae)

Mat. Ex.: 5 female, 1 male, 10 vii '75 ex *P. chrysantemi*, Suweon; 1 female, 1 male, 8 vi '75 ex *A. gossypii*, Suweon; 2 female, 4 vi '75 ex *C. formosana*, Seoul; 5 male, 7 vi '75 ex *M. ibarae*, Suweon; 1 male, 1 vi '75 ex *C. lousianensis*, Seoul; 2 female, 4 vi '75 ex *U. corylicola*, Suweon; 1 male, 1 vi '75 ex *A. gossypii*/*E. persicae*, Suweon.

**Eunura augarus Walker**

*Eunura augarus* Walker, 1844, Ann. Mag. Nat. Hist. 14:331.

Host: *Cinara formosana* (Takahashi)/*Pauesia pini* (Haliday) (Hom., Aphididae/Hym., Aphidiidae)

Mat. Ex.: 3 female, 7 male, 25 v '75 ex *C. formosana*, Seoul.

**Coruna clavata Walker**

*Coruna clavata* Walker, 1833, Ent. Mag. 1:380.

Host: *Megoura crassicauda* Mordvilko/Aphidiid wasp., *Unisitobion corylicola* (Shinji)/Aphidiid wasp., *Marosiphum ibarae* Matsumura/*Praon* sp. (Hom., Aphididae/Hym., Aphidiidae)

Mat. Ex.: 1 female, 25 v '70 ex *M. crassicauda*, Seoul; 1 female, 25 v '70 ex *U. corylicola*, Seoul; 1 male, 26 v '75, ex *M. ibarae*, Seoul,

**Pachyneuron sp.**

Host: *Aphis craccivora* Koch/*Trioxys* sp., *Schizolachnus orientalis* (Takahashi)/*Pauesia unilachni* (Gahan) (Hom., Aphididae/Hym., Aphidiidae)

Mat. Ex.: 1 male, 22 v '73 ex *S. orientalis*, Suweon; 2 female, 3 vii '76 ex *A. craccivora*, Suweon.

**Pachyneuron sp.**

Host: *Leucopis* sp. (Dip., Chamemyiidae)

Mat. Ex.: 3 female, 2 male, 27 iv '77 ex *Leucopis* sp., Mt. Chiag, Gangweon-Do.

**Pachyneuron sp.**

Host: Puparium of Syrphidae (Diptera)

Mat. Ex.: 3 female, 4 x '74, 8 female, 2 male, 10 vi '74, Suweon.

**10. Eupelmidae 벼룩좀벌과**

**\*Anastatus bifasciatus (Fonscolombe) 벼룩좀벌**

*Cynips bifasciatus* Fonscolombe, 1832, Ann. Soc. Nat. 26:294.

*Eupelmus bifasciatus* Förster, 1860, Verh. Nat. Ver. Preuss. Rhein. 17:122.

*Eupelminus* De Stefani, 1898, Nat. Sicil. 2:251.

*Eupelmus euryccephalus* Masi, 1919, Ann. Mus. Civ. St. Nat. Genova, 48:321.

Host: *Dendrolimus spectabilis* Butler (Lep., Lasiocampidae), *Lymantria dispar* Linnaeus (Lep., Lymantridae)

Mat. Ex.: Not collect ed.

**\*Anastatus dendrolimus Kim et Pak 송충살이벼룩좀벌**

*Anastatus dendrolimus* Kim et Pak, 1965, Ent. Research Bull., Korea Univ. 1:73.

Host: *Dendrolimus spectabilis* Butler

Mat. Ex.: Not collected.

**\*Anastatus gastropachae Ashmead 짧은날개벼룩좀벌**

*Anastatus gastropachae* Ashmead, 1904, Jour. New York Ent. Soc. 12:153.

Host: *Dendrolimus spectabilis* Butler

Mat. Ex.: 1 female, 17 x '74, Suweon.

**\*Anastatus japonicus Ashmead 짙시나방벼룩좀벌**

*Anastatus japonicus* Ashmead, 1904, Jour. New York Ent. Soc. 12:153.

Host: *Lymantria dispar* Linnaeus, ? *Dendrolimus spectabilis* Butler

Mat. Ex.: Not collected.

**\*Pseudanastatus albitarsis (Ashmead) 흰발목벼룩좀벌**

*Anastatus albitarsis* Ashmead, 1904, Jour. New

York Ent. Soc. 12:154.

Host: *Dendrolimus spectabilis* Butler, *Lymantria* dispar Linnaeus

Mat. Ex.: collected.

**\*Eupelmus formosae Ashmead**

*Eupelmus formosae* Ashmead, 1904, Jour. New York Ent. Soc. 12:154.

Host: *Graoholtha molesta* Busk (Lep., Tortricidae)  
Mat. Ex.: Not collected.

**\*Eupelmus urozonus Dalman 노란표리박목좀벌**

*Eupelmus urozonus* Dalman, 1820, Svensk. Vet. Akad. Handl. 41:361.

*Macroneura maculipes* Walker, 1837, Ent. Mag. 4:361.

*Eupelmus bedeguaris* Ratzeburg, 1852, Ichn. d. Förstins. 3:199.

*Eupelmus hostilis* Förster, 1860, Verh. nat. Ver. Preuss. Rhein. 17:126.

*Eupelmus kiefferi* De Stefani, 1897, Nat. Sicil. n. s. 2:173

*Eupelmus deggeri* Paoli, 1907, Redia, 4:173.

Host: *Dryocosmus kuriphilus* Yasumatsu, *Diplolepis japonica* Ashmead, *Neuroterus iwataensis* Shiinji, Cynipid galls (Hym., Cynipidae)

Mat. Ex.: 1 female, 27 vi '77 ex cynipid wasp, Mt. Chiag, Gangweon-Do; 3 female, 4 vii '75 ex cynipid wasp, Suweon.

**Eupelmus sp.**

Host: Unknown

Mat. Ex.: 1 female, 12 ix '74, Suweon.

Note: This species has a long ovipositor.

**Eupelmus sp.**

Host: Unknown (Gall of *Bidens bipinnata* L., Compositae)

Mat. Ex.: 1 female, 11 iv '78, Haenam, Jeonranam-Do.

**Eupelmus sp.**

Host: *Trichococcus napiformis* (Kuwana) (Hom., Beesoniidae)

Mat. Ex.: 1 female, 4 xi '77 ex *T. napiformis*, Suweon.

Note: The host coccid is unrecorded species.

**Eupelmus sp.**

Host: *Rhabdophaga salicivora* Shinji (Dip., Cecidomyiidae)

Mat. Ex.: 2 female, 24 iii '78 ex *R. salicivora*, Gyeongju, Gyeongsangnam-Do.

**Eupelmus sp.**

Host: *Cerostegia japonica* (Green) (Hom., Coccidae)

Mat. Ex.: 2 female, 11 vii '77 ex *C. japonica*, Wando, Jonranam-Do.

**11. Encyrtidae 강충좀벌과**

**Adelencyrtus aulacaspidis (Brèthes)**

*Prionomitus aulacaspidis* Brèthes, 1914, An. de Zool. Aplicada, 1:29

*Habrolepis mayri* Ruschka et Fulmek, 1915, Zeits. angew. Ent. 2:403

*Epiencyrtoides aulacaspidis*; Mercet, 1921, Fauna Ibérica, Encirtidos:294

*Adelencyrtus aulacaspidis*; Mercet, 1921, Fauna Ibérica, Encirtidos: 698

*Anbrolepis mayri*; Erdős, 1957, Folia Ent. Hung. (ser. nov.) 10(1): 92

Host: *Aulacaspis rosae* Bouché (Hom., Diaspididae)  
Mat. Ex.: 1 female, 1 male, 17 vii '77 ex *A. rose*, Seogwipo, Jeju-Do.

**Aenasioidea tenuicornis Timberlake**

*Aenasioidea tenuicornis* Timberlake, 1916, Proc. U.S. natn. Mus. 50: 581

Host: *Kermococcus vastus* (Kuwana) (Hom., Kermococcidae)

Mat. Ex.: 2 female (antenna broken), 5 vi '75, ex *K. vastus*, Suweon

**Anagyrus antoniae Timberlake**

*Anagyrus antoniae* Timberlake, 1920, Proc. Haw. Ent. 4(2):403

Host: *Antonina crawii* (Cockerell) (Hom., Eriococcidae)

Mat. Ex.: 2 female, 15 xi '76 ex *A. crawii*, Gyeongju, Gyeongsangnam-Do.

**Anagyrus schoenherri (Westwood)**

*Encyrtus schoenherri* Westwood, 1837, Philos. Mag. (3 ser) 10:441

*Anagyrus flavus* Ishii, 1928, Bull. Imp. Agr. Exp. Stn. Japan, 3(2):360

Host: *Phenacoccus pergandei* Cockerell (Hom., Pseudococcidae)

Mat. Ex.: Many specimens reared. 19 vi '77, Jindo; 15 v '77, Gwangju, Jeonranam-Do; 20 v '77, Geojedo, Gyeongsangnam-Do.

**Anicetus beneficus Ishii et Yasumatsu**

- Anicetus beneficus* Ishii et Yasumatsu, 1964, 27(10): 69  
Host: *Ceroplastes rubens* Maskell (Hom., Coccidae)  
Mat. Ex.: Many specimens reared.  
Note: This species was introduced from Kyushu in 1975 and released in Seogwipo, Jeju-Do, for control of ruby scale insect, *Ceroplastes rubens* Maskell.
- Anicetus ceroplastis Ishii**  
*Anicetus ceroplastis* Ishii, Bull. Im. Expt. Stn., Japan, 3(2):150.  
Host: *Cerostegia japonica* (Green), *Ceroplastes pseudoceriferus* Green (Hom., Coccidae)  
Mat. Ex.: Many specimens reared. 19 vi '77, Jindo; 15 v '77, Gwangju, Jeonnam-Do; 20 v '77, Gyeongju, Gyeonggi-do.
- Aphidencyrus aphidencyrus (Mayr)**  
*Aphidencyrus aphidivorus* Mayr, 1875, Zool. Bot. Ges. Wien, Verh. 25:721.  
*Aphidencyrus aphidiphagus* Ashmead, 1887, U.S. Dept. Agr. Div. Ent. Bull. 14:14.  
*Aphidencyrus websteri* Howard, 1890, U.S. Dept. Agr. Insect Life 2:247.  
*Aphidencyrus aphidivorus*; Mercet, 1921, Fauna Ibérica, Encirtidos:345.  
Host: *Myzus persicae* (Sulzer) (Hom., Aphididae)  
Mat. Ex.: 10 female, 27 ix '75 ex *M. persicae*, Suweon.
- Aphicus apicalis (Dalman)**  
*Aphidencyrus apicalis* Dalman, 1820, K. svenska Vetensk. Akad. Handl.: 153.  
*Aphicus albicornis* Timberlake, 1916, Proc. U.S. natn. Mus. 50:589.  
*Waterstonia fuliginosa* Compere et Annecke, 1961, Jour. Ent. Soc. sth. Africa 23(2):377  
Host: *Phenacoccus pergandei* Cockerell (Hom., Pseudococcidae)  
Mat. Ex.: Many specimens reared from the host. 15 vi '77, Iri, Jeonnam-Do.
- Blastothrix kermivora Ishii**  
*Blastothrix kermivora* Ishii, 1928, Bull. Imp. Agr. Expt. Stn., Japan 3(2):117.  
Host: *Kermococcus vastus* (Kuwana) (Hom., Kermococcidae)  
Mat. Ex.: 20 female, 4 male, 1 vi '77 ex *K. vastus*, Suweon.
- Cerapterocerus mirabilis Westwood**  
*Cerapterocerus mirabilis* Westwood, 1833, Mag. Nat. Hist., 2:153.  
*Cerapterocerus mirabilicornis* Thomson, 1876, Hym. Scand., 4:151  
Host: *Eriopeltis festucae* Fonscolombe (Hom., Coccidae)  
Mat. Ex.: 2 female, 1 male, 7 vii '77 ex *E. festucae*, Suweon.
- Cheiloneurus tenuicornis Ishii**  
*Cheiloneurus tenuicornis* Ishii, Bull. Imp. Agr. Expt. Stn., Japan, 3(2):14.  
Host: *Kermococcus miyasakii* (Kuwana), *K. vastus* (Kuwana) (Hom., Kermococcidae)  
Mat. Ex.: 3 female, 10 vi '75 ex *K. vastus*, 10 female, 1 male, 1 vii '77 ex *K. miyasakii*, Suweon.
- Cheiloneurus sp.**  
Host: *Eriopeltis festucae* (Fonscolombe) (Hom., Coccidae)  
Mat. Ex.: 3 female, 1 male, 21 vii '77 ex *E. festucae*, Suweon.  
Note: The female is micropterous winged.
- Clausenia purpurea Ishii**  
*Clausenia purpurea* Ishii, 1923, Japan Dept. Agr. & Com. Plant Quar. Sth., Bull. 3:100.  
Host: *Planococcus citri* (Risso) (Hom., Pseudococcidae)  
Mat. Ex.: 2 female, 29 v '77 ex *P. citri*, Seogwipo, Jeju-Do.
- Comperiella bifasciata Howard**  
*Comperiella bifasciata* Howard, 1906. Ent. News, 17:122.  
*Habrolepista cerapterocera* Mercet, Fauna Ibérica, Encirtidos: 669.  
Host: *Chyrsomphalus bifasciculatus* Ferris (Hom., Diaspididae)  
Mat. Ex.: 2 female, 3 male, 1 v '77 ex *C. bifasciculatus*, Gwangju, Jeonnam-Do.
- Comperiella unifasciata Ishii**  
*Comperiella unifasciata* Ishii, 1925, Dept. Finance, Japan, Imp. Plant Quar. Serv., Tech. Bull. 3: 25  
Host: *Pseudoaonidia duplex* Cockerell (Hom., Diaspididae)  
Mat. Ex.: 2 female, 1 male, 1 v '77 ex *P. duplex*, Seogwipo, Jeju-Do.
- Copidosoma sp.**  
Host: Unknown



- Mat. Ex.: Many specimens collected in rice paddy. 10—15, vi '73, Suweon.
- Encyrtus sasakii Ishii**  
*Encyrtus sasakii* Ishii, 1928, Bull. Imp. Agr. Expt. Stn., Japan, 3(2) : 99  
 Host: *Takahashia japonica* Cockerell (Hom., Coccidae)  
 Mat. Ex.: 12 female, 5 vi '76 ex *T. japonica*, Suweon.
- Holcethorax sp.**  
 Host: *Phyllosticta ningoniella* (Matsumura) (Lep., Gracillariidae)  
 Mat. Ex.: 5 female, Reared overwintering larvae on host in 1977, Suweon.
- Isodromus axillaris Timberlake**  
*Isodromus axillaris* Timberlake, 1919, Proc. U.S. natn. Mus. 56 : 183  
 Host: *Chrysopa setempunctata* Wesmael (Neu., Chrysopidae)  
 Mat. Ex.: 3 female, 18 viii '74 ex *C. setempunctata*, Suweon.
- Isodromus sp.**  
 Host: *Chrysopa setempunctata* Wesmael (Neu., Chrysopidae)  
 Mat. Ex.: 2 female, 18 viii '74 ex *C. setempunctata*, Suweon.
- Litomastix near maculata Ishii**  
*Litomastix maculata* Ishii, 1928, Bull. Imp. Agr. Expt. Stn., Japan 3(2) : 115  
 Host: *Chrysodeixis agnata* (Staudinger) (Lep., Noctuidae)  
 Mat. Ex.: Many specimens reared from the host. 11 viii '76, Suweon.
- Metaphycus parvus var. eripelti Mercet**  
*Metaphycus parvus* v. *eripelti* Mercet, 1962, Eos, 2(4) : 311  
 Host: *Eriopeltis festucae* (Fonscolombe) (Hom., Coccidae)  
 Mat. Ex.: Many specimens reared from the host. 28 vi '77, Suweon.
- Metaphycus (?) sp.**  
 Host: *Eriococcus lagerstraemiae* Kuwana (Hom., Eriococcidae)  
 Mat. Ex.: Numerous specimens reared from the host. 18 v '77, Jinju; 24 x '77, Gyeongju, Gyeongsangnam-Do.
- Metaphycus (?) sp.**  
 Host: Nymph of aleurodid (Hom., Aleyrodidae) on *Quercus* sp.  
 Mat. Ex.: Many specimens reared from the host. 18 vii '77, Suweon.
- Microterys clauseni Compere**  
*Microterys clauseni* Compere, 1926, Univ. Calif. Publ. Ent. 4(2) : 35  
 Host: *Cerostegia japonica* (Green), *Ceroplastes pseudoceriferus* Green (Hom., Coccidae)  
 Mat. Ex.: 12 female, 2 male, 18 v '77 ex *C. japonica*, 4 female, 1 vi '77, ex *C. pseudoceriferus*, Jinju; 7 female, 3 male ex *C. japonica*, Geojedo, Gyeongsangnam-Do.
- Microterys ericeri Ishii**  
*Microterys ericeri* Ishii, 1923, Dept. Agr. & Comn. Japan, Imp. Plant Quar. Bull. 3 : 100  
 Host: *Ericerus pela* Chavannes (Hom., Coccidae)  
 Mat. Ex.: 2 male, 2 xi '77, Jindo, Jeonranam-Do; 3 female, 1 male, 15 xi '77 ex *E. pela*, Busan City.
- Microterys rufofulvus Ishii**  
*Microterys rufofulvus* Ishii, 1928, Bull. Imp. Agr. Expt. Stn., Japan 3(2) : 132  
 Host: *Takahashia japonica* Cockerell (Hom., Coccidae)  
 Mat. Ex.: 6 female, 2 male, 8 v '75 ex *T. japonica*, Suweon; 8 female, 1 male, 18v '77 ex *T. japonica*, Namhae, Gyeongsangnam-Do.
- \*Ooencyrtus kawanae (Howard)**  
*Schedius kawanae* Howard, 1910, U.S. Dept. Agr. Bur. Ent. Tech, ser., 19 : 3  
 Host: *Lymantria dispar* Linnaeus (Lep., Lymantridae)  
 Mat. Ex.: Not collected.
- Protyndaricus metallicus (Mercet)**  
*Tyndarichoides metallicus* Mercet, 1921, Fauna Ibérica, Encirtidos: 649  
*Protyndaicus metallicus*; Mercet, 1922, Boll. Soc. Hist. Nat. 22 : 479  
 Host: Pseudococcid sp. (Hom., Pseudococcidae)  
 Mat. Ex.: 1 female, 27 vii '77 ex pseudococcid sp., Gwangju, Jeonranam-Do.
- \*Pseudaphycus malinus Gahan**  
*Pseudaphycus malinus* Gahan, 1946, Proc. U.S. natn. Mus. 96 : 313  
 Host: *Pseudococcus comstocki* Kuwana (Hom., Pseudococcidae)

Mat. Ex.: Not collected.

Note: This species occurs in North Korea, but has not been reported from S. Korea.

**Pseudhomalopoda sp.**

Host: *Odonaspis secreta* (Cockerell) (Hom., Diaspididae)

Mat. Ex.: 10 female, 4 male, 17 vii '77 ex *O. secreta*, Jindo; 5 female, 2 male, 17 vii '77, ex *O. secreta*, Wando, Jeonranam-Do.

**Psilophrys longicornis (Walker)**

*Encyrtus longicornis* Walker, 1847, Ann. Mag. Nat. Hist. 19 : 229

*Psilophrys longicornis*; Mayr, 1875, Verh. Zool.-bot. Ges. Wien, 25 : 728

Host: *Kermococcus vastus* (Kuwana) (Hom., Kermococcidae)

Mat. Ex.: Numerous specimens reared from the host. 10 v '75, Suweon; 10 v '77, Geojedo, Gyeongsangnam-Do.

**Psyllaephagus sp.**

Host: Psyllid on *Chenopodium* sp. (Hom., Psyllidae)

Mat. Ex.: 2 female, 12 vii '75 ex Psyllid sp., Suweon.

**Psyllaephagus sp.**

Host: *Psylla* sp. (Hom., Psyllidae) on *Pittosporum Tobira* Ait.

Mat. Ex.: 2 female, 15 v '77 ex *Psylla* sp., Seogwipo, Jeju-Do.

**Psyllaephagus sp.**

Host: Nymph of psyllid (Hom., Psyllidae) on *Populus babyronica* L.

Mat. Ex.: 2 female, 20 vii '77 ex psyllid sp., Suweon.

**Syrphophagus sp.**

Host: *Epistrope balteata* (De Geer) (Dip., Syrphidae)

Mat. Ex.: Numerous specimens reared from the host. 8 x '74, Suweon.

Note: This species reared from aphidophagus syrphid puparium. It is near to *S. aeruginosis* (Dalman).

**\*Tomsonisca sp.**

Host: *Comstockaspis perniciosa* (Comstock) (Hom., Diaspididae)

Mat. Ex.: Not collected.

Note: This species is occurs in North Korea, but

has not been found in S. Korea to date.

**Trichomasthus cynifrons (Dalman)**

*Encyrtus cynifrons* Dalman, 1820, Svensk. Vet. Akad. Handl. 41 : 159

*Trichomasthus cynifrons*; Mercet, 1923, Bol. Soc. Esp. Hist. Nat. 23 : 50

Host: *Eriopeltis festucae* (Fonscolombe) (Hom., Coccidae), *Eriococcus lagestroemiae* Kuwana (Hom., Eriococcidae)

Mat. Ex.: 2 female, 7 vii '77 ex *E. festucae*, Suweon; 3 female, 10 x '77 ex *E. lagestroemiae*, Seogwipo, Jeju-Do.

**12. Elasmidae 접시좀벌과**

**Elasmus sp.**

Host: *Apanteles molestae* Muesebeck (Hym., Braconidae)

Mat. Ex.: 1 female, 3 male, 2 vi '73 ex *A. molestae*, Suweon.

**Euryischia sp.**

Host: *Leucopis* sp. (Dip., Chamaemyiidae)

Mat. Ex.: 1 female, 4 v '77 ex *Leucopis* sp., Suweon.

Note: The host is a predator of aphids.

**13. Aphelinidae 면충좀벌과**

**\*Aphelinus mali (Haldeman) 면충좀벌**

*Eriophilus mali* Haldeman, 1851, Pennsylv. Farm. Jour. 1:131.

*Aphelinus mali* Howard, 1880, Ann. Rep. Dept. Agr. 356.

*Blastothrix rosae* Ashmead, 1886, Trans. Amer. Ent. Soc. 13:130.

*Aphelinus varicornis* Girault, 1909, Psyche, 16:29.

*Aphelinus mali* var. *italica* Del Guercio, 1925, Agr. Colon. 19:98.

Host: *Eriosoma lanigera* Hausmann (Hom., Aphididae)

Mat. Ex.: Many specimens reared from the host. 20 iv '73, Suweon.

**Aphelinus varipes (Förster)**

*Myina varipes* Förster, 1841, Beitr. Mongr. Pterom. 45

Host : Unknown

Mat. Ex.: 13 female, 10—15 vi '74, Suweon

Note: This species was collected in rice paddy.

**Aphelinus sp.**

Host: *Chaetosiphon coreanus* Paik (Hom., Aphididae)

Mat. Ex.: 3 female, 25 ix '74 ex *C. coreanus*, Yeongpung, Gyeongsangbug-Do.

**Aphelinus sp.**

Host: *Tinocallis zelkowae* (Takahashi) (Hom., Aphididae)

Mat. Ex.: 3 female, 7 vi '75 ex *T. zelkowae*, Seoul City.

**Aphelinus sp.**

Host: *Hyalopterous pruni* (Geoffroy) (Hom., Aphididae)

Mat. Ex.: Many specimens reared from the host. 22 viii '74, Suweon.

**\*Aphytis proclia (Walker)**

*Aphelinus proclia* Walker, 1839, Mong. Chal. 1:9

*Aphelinus diaspidis* Howard, 1881, Ann. Rpt. U.S. Dept. Agr. (1880):355

*Aphelinus fuscipennis* Howard, 1881, Ann. Rpt. U.S. Dept. Agr. (1880):356

*Aphytis (Prospaphelinus) proclia* Mercet, 1932, Eos Rev. Esp. Ent. 8:363

Host: *Comstockaspis perniciososa* (Comstock) (Hom., Diaspididae)

Mat. Ex.: Not collected.

Note: This species occurs in North Korea.

**Aphytis sp.**

Host: *Pseudaulacaspis prunicola* (Maskell) (Hom., Diaspididae)

Mat. Ex.: 3 Female, 15 xi '76 ex *P. prunicola*, Gyeongju, Gyeongsangnam-Do.

**Archenomus sp.**

Host: *Pseudaulacaspis cockerelli* (Cooley) (Hom., Diaspididae)

Mat. Ex.: 2 female, 10 viii '77 ex *P. cocerelli*, Ulreungdo, Gyeongsangbug-Do.

**Aspidiotiphagus citrinus (Craw)**

*Aspidiotiphagus citrinus* Craw, Calif. State Board Hort. Bull. 57:5

*Aspidiotiphagus shoversi* Smith van Burgst, 1915, Tijds. Ent. 58:292

*Aspidiotiphagus severiniellus* Ghesquière, 1933, Bull. Ann. Soc. Belgique, 73:348

Host: *Unaspis euonymi* (Comstock) (Hom., Diaspididae)

Mat. Ex.: 2 female, 10 viii '77 ex *U. euonymi*, Wando, Jeonranam-Do.

**Azotus perspiciosus? (Gisault)**

*Ablerus perspiciosus* Grault, 1916, Ann. Ent. Soc. Amer. 9:292

*Azotus silvestrii* Compere, 1926, Calif. univ. Ent. 4:9

*Azotus capensis* Tachikawa, 1957, (nec Howard), Japan Jour. Appl. Ent. Zool. 1:78

Host: *Comstockaspis perniciososa* (Comstock) (Hom., Diaspididae)

M. t. Ex.: 1 female, 23 v '77 ex *C. perniciososa*, Hwasun, Jeonranam-Do.

**Coccophagus sp.**

Host: *Ceroplastes pseudoceriferus* Green (Hom., Coccidae)

Mat. Ex.: 3 female, 7 vii '77 ex *C. pseudoceriferus*, Suweon.

**Marietta sp.**

Host: *Lepidosaphes ulmi* (Linnaeus) (Hom., Diaspididae)

Mat. Ex.: 1 female, 2 vii '77 ex *L. ulmi* Wando, Jeonranam-Do.

**\*Prospaltella perniciosi Tower**

*Prospaltella perniciosi* Tower, 1913, Ann. Ent. Soc. Amer. 6:125

Host: *Comstockaspis perniciososa* (Comstock) (Hom., Diaspididae)

Mat. Ex.: Not collected.

Note: This species recorded in North Korea.

**Prospaltella sp.**

Hos: *Odonaspis secreta* (Cockerell), *Unaspis euonymi* (Comstock), *Lepidosaphes ulmi* (Linnaeus) (Hom., Diaspididae)

Mat. Ex.: 2 female, 17 vii '77 ex *U. euonymi*, 1 female, 12 vii '77 ex *O. secreta*. Wando; 1 female, 12 vii '77 ex *L. ulmi*, Jindo, Jeonranam-Do.

**14. Signiphoridae 납작좀벌과(신칭)**

**Signiphorid sp.**

Host: Root aphid on grass (Cyperaceae)

Mat. Ex.: 1 male ex root aphid, 4 ix '74, Suweon.

Note: This family is recorded for the first time in Korea.

## 15. Eulophidae 좀벌과

### **Cirrospilus (Atoposomoidea) sp.**

Host: *Microthauma* sp. (Lep., Lyonetiidae)

Mat. Ex.: 1 female, 4 viii '77 ex *Microthauma* sp.,  
Mt. Chiag, Gangweon-Do.

### **Cirrospilus (Atoposomoidea) sp.**

Host: *Phyllonorycter* sp. (Lep., Gracillariidae)

Mat. Ex.: 2 female, 1 male, 25 viii '77 ex *Phyllonorycter* sp., Suweon.

### **Chrysocharis sp.**

Host: Cynipid galls of *Quercus* sp.

Mat. Ex.: 3 female, 27 vi '77, ex cynipid gall,  
Mt. Chiak, Gyngweon-Do; 2 female, 2 male, 1  
vi '75 ex cynipid gall, Suweon.

### **Chrysocharis sp.**

Host: *Lasioptera puerariae* (Shinji) (Dip., Cecidomyiidae)

Mat. Ex.: 1 female, 18 viii '75 ex *L. puerariae*,  
Suweon.

### **Closterocellus sp.**

Host: Cynipid leaf galls of *Quercus* sp.

Mat. Ex.: Many specimens reared from the host.  
6 vi '77, Suweon.

### **Colpoclypeus sp.**

Host: *Acleris fimbriana* (Thunberg) (Lep., Tortricidae)

Mat. Ex.: 5 female, 22 vii '77 ex *A. fimbriana*,  
Suweon.

Note: This species closely resembles *C. florus*  
(Swederus)

### **\*Ceraninus menes (Walker)**

*Pteroptrix menes* Walker, 1839, Mon. Chalciditum  
1:18

*Derostenus clavicornis* Thomson, 1878, Hym.  
Scand. 5

*Thripoctenus brui* Vuillet, 1914, C. r. Séanc. Soc.  
biol. Paris, 75

Host: *Taeniothrips alliorum* Priesner (Thysanop.,  
Thripidae)

Mat. Ex.: Not collected.

### **\*Cotterellia tischeriae Kamijo**

*Cotterellia tischeriae* Kamijo, 1977, Kontyû, 45:  
258

Host: *Tischeria* sp. (Lep., Tischeridae)

Mat. Ex.: Not collected.

### **\*Dimmockia secunda Crawford**

*Dimmockia secundus* Crawford, 1910, Tech. Ser.  
Bur. Ent. U.S., 19:24

*Encopa reticulata* Kamijo, 1965, Ins. Mats., 28:76

*Dimmockia reticulata*: Bouček and Askew, 1968,  
Palearc. Eulophidae, Index ent. Ins., Paris, 49

Host: *Apanteles* sp., (Hym., Braconidae), Ichneu-  
monid sp. (Hym., Ichneumonidae) (after Kamijo,  
1965)

Mat. Ex.: Not collected.

### **Di cladocerus sp.**

Host: Unknown

Mat. Ex.: 2 female, 10 vi '73, Suweon.

Note: This species collected in rice paddy.

### **\*Elachertus tabashii Nakayama**

*Elachertus tabashii* Nakayama, 1938, Ann. Agr.  
Expt. Stn. Chosen, 10:28

Host: *Naranga aenescens* Moore (Lep., Noctuidae)  
Mat. Ex.: Not collected.

### **Elachertus sp.**

Host: Noctuid larvae on apple tree (Lep., Noctuidae).

Mat. Ex.: 3 female, 1 male, 25 viii '77 ex noctuid  
sp., Suweon.

### **Euplectrus sp.**

Host: Feeds lepidopteran larvae on soy bean leaves.

Mat. Ex.: Many female specimens reared from the  
host. 22 vi '77, Suweon.

Note: This species is probably *E. bicolor* (Swed-  
erus).

### **Eulophus sp.**

Host: *Apatele incretata* Hampton (Lep., Noctuidae)

Mat. Ex.: Many specimens reared from the host. 8  
viii '77, Suweon.

Note: This species is similar to *E. larvarum*  
(Linnaeus).

### **Entedon sp.**

Host: *Archips* sp. (Lep., Tortricidae)

Mat. Ex.: 3 female, 29 viii '77 ex *Archips* sp.,  
Suweon.

### **Hyperteles sp.**

Host: Galls on *Miscanthus* sp. (Gramineae)

Mat. Ex.: 20 female, 2 iv '76 ex galls on *Misca-*  
*nthus* sp., Iri, Jeonrabug-Do.

### **Hyperteles sp.**

Host: Cecidomyiid galls on *Vitis coignetiae* Pulliat  
(Vitaceae).

Mat. Ex.: 2 female, 2 vii '77 ex cecidomyiid sp.,

Mt. Chiag, Gangweon-Do.

**Neochrysecharis sp.**

Host: Unknown

Mat. Ex.: 2 female, 15 vi '73, Suweon.

Note: This species collected in rice paddy.

**\*Stenomiesius japonicus (Ashmead)**

*Sympiesomorpha japonica* Ashmead, 1904, J. New York Ent. Soc. 12:163

*Sympiesomorpha whitmani* Girault, 1916, Ann. ent. Soc. Amer. 9:300

*Stenelachistus impressus* Masi, 1917, Novit. Zool. 24:201

*Euryscotolinx coimbatorensis* Rohwer, 1921, Ann. Mag. nat. Hist. (9), 7:134

*Sympiesomorpha chilonis* Ishii, 1937, Kontyû, 11: 110

*Sympiesomorpha mikan* Ishii, 1953, Bull. Fac. Agr. Tokyo Univ. Agr. Tech. 1:4

*Stenomiesioideus ashmeadi* Subba Rao et Sharma, 1966, Indian J. Ent. 28:299

Host: *Naranga aenescens* Moore (Lep., Noctuidae)

Mat. Ex.: Not collected.

**Sympiesis(?) sp.**

Host: *Hylcoconis lespedezae* Kumata (Lep., Gracillariidae)

Mat. Ex.: 1 female, Mt. Chiag, Gangweon-Do. 4 viii '77 ex *H. lespedezae*,

**Sympiesis(?) sp.**

Host: *Phyllonoryctor* sp. (Lep., Gracillariidae)

Mat. Ex.: 2 female, 6 male, 20 vi '77 ex *Phyllonoryctor* sp., Suweon.

**Tetrastichus sp.**

Host: Cynipid galls on *Rosa rugosa* Thunb. (Rosaceae)

Mat. Ex.: Many specimens reared from the host. 5-10 x '75, Suweon.

**Tetrastichus sp.**

Host: Cecidomyid galls on *Artemisia* sp. (Dip., Cecidomyiidae)

Mat. Ex.: Many specimens reared from the host. 12 ix '75, Suweon.

**Tetrastichus sp.**

Host: *Cerostegia japonica* (Green) (Hom., Coccidae)

Mat. Ex.: 1 female, 1 vi '76 ex *C. japonica*, Busan City.

**Tetrastichus sp.**

Host: *Trichagalma serrata* Ashmead (Hym., Cynipidae)

Mat. Ex.: 4 female, 2 male, 5 v '75 ex *T. serrata*, Suweon.

**Tetrastichus sp.**

Host: *Rhopalomyia* sp. (Dip., Cecidomyiidae) on *Artemisia* sp.

Mat. Ex.: 3 female, 14 v '70 ex *Rhopalomyia* sp., Yanji, Gyeonggi-Do.

**\*Tetrastichus ibseni (Girault)**

*Epittrastichus ibseni* Girault, 1916, Proc. U.S. natn. Mus. 51

Host: *Grapholita molesta* Busk (Lep., Tortricidae)

Mat. Ex.: Not collected.

**16. Trichogrammatidae 알좀벌과**

**\*Trichogramma japonicum Ashmead** 왜명충알벌

*Trichogramma japonicum* Ashmead, 1904, Jour. New York Ent. Soc. 12:165

*Neotrichogramma japonicum*; Girault, 1911, Trans. Amer. Ent. Soc. 37:40

Host: *Chilo suppressalis* (Walker) (Lep., Pyralidae)

Mat. Ex.: Several specimens collected in rice paddy. 28 vi '75, Suweon.

**\*Trichogramma evanescens Westwood** 쌀좀알벌

*Trichogramma evanescens* Westwood, 1833, London Edinb. Dubl. Phil. Mag. 2:444

Host: *Barathra brassicae* Linnaeus (Lep., Noctuidae)

Mat. Ex.: Not collected.

**\*Trichogramma dendrolimi Matsumura** 송충알벌

*Trichogramma dendrolimi* Matsumura, 1925, Ann. Mus. Zool. Acad. Sci. URSS. p 45

Host: *Dendrolimus spectabilis* Butler (Lep., Lasiocampidae)

Mat. Ex.: Not collected.

**\*Trichogramma jezoensis Ishii** 왜알벌

*Trichogramma jezoensis* Ishii, 1941, Kontyû, 14: 175

Host: *Barathra brassicae* Linnaeus (Lep., Noctuidae)

Mat. Ex.: Not collected.

**\*Trichogramma australicum Girault** 호주알벌

*Trichogramma australicum* Girault, 1912, Mem. Queensland Mus. 1:109

Host: *Ostrinia furnacalis* (Guenée) (Lep., Pyrali-

dae)

Mat. Ex.: Not collected.

**\*Trichogramma chilonis Ishii 명충알벌**

*Trichogramma chilonis* Ishii, 1941, Knotyû, 14: 173

Host: *Chilo suppressalis* (Walker) (Lep., Pyralidae)

Mat. Ex.: Not collected.

**Paracentrobia andoi (Ishii)**

*Japania anoi* Ishii, 1938, Knotyû, 12: 179

Host: *Nephotettix cincticeps* (Uhler) (Hom., Cicadellidae), *Nilaparvata lugens* (Stal) (Hom., Delphacidae)

Mat. Ex.: Several specimens collected in rice paddy. 29 viii '75, Suweon.

**Chaetricha aurulenta Doutt**

*Chaetricha aurulenta* Doutt, 1961, Acta Hxmenopt. 1:308

Host: *Cicadella viridis* (Linnaeus) (Hom., Cicadellidae)

Mat. Ex.: Many specimens reared from the host 8 viii '77, Suweon,

Mat. Ex.: 5 female, 2 male, 10 vii '77 ex *C. viridis*, Suweon.

**Mymar taprobanicum Werd**

*Mymar taprobanicus* Ward, 1875, Ent. mon. Mag. 11:197

*Mymar tyndalli* Girault, 1912, Mem. Queensland Mus. 1:168

*Mymar antillanum* Dozier, 1937, J. Agr. Univ. P. Rico, 21:121

*Oglobliniella aegyptiaca* Soyka, 1950, Bul. Soc. Found Ent. 34:121

Host: Unknown

Mat. Ex.: Numerous specimens collected in rice paddy. 1973-'77, Suweon.

**Polynema sp.**

Host: *Hishimonus sellatus* (Uhler) (Hom., Cicadellidae)

Mat. Ex.: Many specimens reared from host eggs 29 v '73, Suweon.

**Acknowledgement**

I wish to express my sincere thanks for the fine support from Mr. J.S. Park, chief of Entomology, IAS. I am most grateful to Dr. W.H. Paik, College of Agriculture, Seoul National University, for identification of host insects. Many thanks are due to my colleagues, Mr. K. T. Park, Mr. K.R. Choi for identification of host Lepidoptera and Homoptera and Mr. Y.D. Chang for constructive comments.

**적 요**

쫄벌은 미소종으로써 대부분이 다른 곤충에 기생을 하고 있으며, 해충의 종합적 방제에 있어서 그 천적으로서 응용면에서 중요한 역할을 하고 있다. 현재 한국에는 약 50여종의 쫄벌이 알려지고 있으며, 본인은 그동안 채집된 종류를 발표하는 바이다. 곱추쫄벌과, 집시쫄벌과 및 납작쫄벌과는 한국에서 처음으로 기록되는 것이다.

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**17. Mymaridae 총채쫄벌과**

**\*Anaphes nipponicus Kuwayama**

*Anaphes nipponicus* Kuwayama, 1932, Rep., Hokkaido Agric. Exp. Sta. 29

Host: *Oulema oryzae* (Kuwayama) (Col., Chrysomelidae)

Mat. Ex.: Not collected.

**Anagyrus sp.**

Host: *Nilaparvata lugens* (Stal) (Hom., Delphacidae)

Mat. Ex.: Many specimens collected in rice paddy and reared from the host eggs.

**Anagyrus sp.**

Host: *Nilaparvata lugens* (Stal) (Hom., Delphacidae)

Mat. Ex.: Many specimens collected in rice paddy any reared from host eggs. 1974-1977, Milyang, Jinju, Gyeongnam-Do and Suweon area.

Note: This species is very similar to *A. flavolus* Waterhouse.

**Gonatocerus cicadellae Nikol'skaya**

*Gonatocerus cicadellae* Nikol'skaya, 1951, Ento. Oboz. 31:575

Host: *Cicadella viridis* (Linnaeus) (Hom., Cicadellidae)

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