

*Serangga 10(1-2): 111-126*

*ISSN 1394-5130 © 2005, Centre for Insect Systematics, UKM & Department of Museums Malaysia*

**NOTES ON THE TRIBE EPHIALTINI  
(HYMENOPTERA: ICHNEUMONIDAE:  
PIMPLINAE) OF MALAYSIA**

**Idris, A.B. & Alia Rizki**

Centre for Insect Systematics, Universiti Kebangsaan Malaysia  
43600 Bangi, Selangor, Malaysia

**ABSTRACT**

The study of the tribe Ephialtini (Hymenoptera: Ichneumonidae: Pimplinae) from Malaysia were conducted. Ten genera of tribe Ephialtini from Malaysia namely *Camptotyphus*, *Zaglyptus*, *Pimplaetus*, *Sericopimpla Flavopimpla*, *Acropimpla Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, and *Zatypota* were recognized. The genera *Acropimpla*, *Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, and *Zatypota* were new record for Malaysia.

**ABSTRAK**

Kajian ke atas trib Ephialtini (Hymenoptera; Ichneumonidae, Pimplinae) di Malaysia telah dijalankan. Kajian ini berjaya merekodkan 10 genera iaitu *Camptotyphus*, *Zaglyptus*, *Pimplaetus*, *Sericopimpla Flavopimpla*, *Acropimpla Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, dan *Zatypota*. Genera *Acropimpla*, *Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, dan *Zatypota* merupakan rekod baru di Malaysia.

## INTRODUCTION

The subfamily Pimplinae is the most biologically diverse subfamily of the Ichneumonidae family. It is associated with a very wide range of hosts (Gauld, 1984). Recently, a comprehensive study of Malaysia's Pimplinae was conducted by Idris (1999), Gonzaga (2000), Ng et al. (2005) and Idris et al. (2005). Idris (1999) listed two tribes of Pimplinae in Malaysia namely tribe Ephialtini and Pimplini. Ephialtini is a paraphyletic group that can only be characterized by its lack of the apomorphic features of other tribes (Gauld et al. 2002). The previous research about tribe Ephialtini from Malaysia were conducted by Gupta and Tikar (1976) in which six genera were recognized. The genera are *Camptotypus*, *Flavopimpla*, *Pimplaetus*, *Sericopimpla*, and *Zaglyptus*.

Ephialtini has a great potential as a biological control agent of economic pests. The host range is quite broad, which includes the larvae and pupae of many endopterygote insects that are concealed in plant tissue. For example, genera *Acropimpla* and *Camptotypus* are parasitoid of the teak defoliator *Hyblaea puera* (moths) (Gupta and Tikar, 1976). *Sericopimpla* genus-group is attacking cocooned Lepidoptera, spider egg sacs, and spiders themselves. Some members of Ephialtini has radiated to exploit spiders that construct aerial webs such as Araneidae, Theridiidae, Tetragnathidae, Liniphyiidae, and Dictynidae. The egg of the ichneumonid is attached to the base of the spider's abdomen and the larva develops as koinobiont ectoparasitoid (Gauld, 2002).

Up to date study on Ephialtini of Malaysia are lacking, particularly the taxonomic aspect of it. The study of Ephialtini that have been conducted by Gupta (1976) generally in Oriental area including Malaysia. So there is no detailed information about taxonomy and distribution of Ephialtini from Malaysia. As such the research were aimed to study the taxonomy and distribution of the tribe Ephialtini from Malaysia.

## MATERIALS AND METHODS

Specimen examined were from the Center of Insect Systematics (CIS) and field collection from various forest reserved and national park forest throughout Malaysia. The identification of the species were followed to Gupta and Tikar (1976), Gauld et al. (2002), Townes (1969), and the original description of species.

The type specimens were loaned from Museum fur Naturkunde der Humboldt-Universitat zu Berlin, DDR-104 Berlin, Invalidenstrasse 43, DDR Germany (BERLIN) and United States National History Museum, Smithsonian Institution, Washington D.C (WASHINGTON).

## RESULTS AND DISCUSSION

Overall of the preliminary result of this study has successfully recorded 10 genera of Ephialtini namely *Camptotyphus*, *Zaglyptus*, *Pimplaetus*, *Sericopimpla* *Flavopimpla*, *Acropimpla* *Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, and *Zatypota* (Table 1). The genera *Acropimpla*, *Acrodactyla*, *Oxyrrhexis*, *Sinarachna*, and *Zatypota* were new record for Malaysia.

**Table 1.** List of genera and species of the tribe Ephialtini from Malaysia

Genus	Spesies	Locality
1. <i>Acropimpla</i> *	<i>Acropimpla leucostoma</i> (Cameron), 1907 <i>Acropimpla bifida</i>	Pahang, Negeri Sembilan, Perak, Johor, Selangor
2. <i>Camptotypus</i>	<i>Camptotypus borneensis</i> Gupta & Tikar, 1976	Sabah, Sarawak
3. <i>Flavopimpla</i>	<i>Flavopimpla nigromaculata mangae</i> Betrem, 1932	Selangor
4. <i>Pimplaetus</i>	<i>Pimplaetus mucronis</i> Gupta & Tikar, 1976	Malaka, Perak
5. <i>Sericopimpla</i>	<i>Sericopimpla flavobalteata</i> (Cameron), 1902 <i>Sericopimpla sagrae sagrae</i> (Vollenhoven), 1879 <i>Sericopimpla shiva</i> Gupta & Tikar, 1976	Sabah, Sarawak Kedah Sabah
6. <i>Zaglyptus</i>	<i>Zaglyptus indicus nigrithorax</i> Gupta, 1961 <i>Zaglyptus</i> sp1	Pahang Negeri Sembilan
7. <i>Acrodactyla</i> *	<i>Acrodactyla</i> sp1	Pahang, Perak, Negeri Sembilan
8. <i>Oxyrrhexis</i> *	<i>Oxyrrhexis</i> sp1 <i>Oxyrrhexis</i> sp2	Negeri Sembilan Negeri Sembilan
9. <i>Sinarachna</i> *	<i>Sinarachna</i> sp1 <i>Sinarachna</i> sp2	Negeri Sembilan Pahang
10. <i>Zatypota</i> *	<i>Zatypota</i> sp1	Negeri Sembilan

\*new record for Malaysia

## SYSTEMATICS NOTES

**Genus: *Pimplaetus* Seyrig*****Pimplaetus mucronis* Gupta & Tikar**

*Pimplaetus mucronis* Gupta and Tikar, 1976. *Oriental Ins. Monogr.* **1**: 1-313; Type: ♀, Malaysia: Malacca: Perak, Staudinger Coll. (BERLIN). Allotype B&, Java: S. W. Lampongs, Mt. Tanggamoos, Giesting, xii. 1934. Lieftinck/Taxopeus (TOWNES)

**Specimens examined:** MALACCA: Perak, 1 ♀, Staudinger Coll. (BERLIN)

**Host Records:** Not known

**Distributions:** Malaysia. Indonesia: Java

**Genus: *Flavopimpla* Betrem*****Flavopimpla nigromaculata mangae* Betrem**

*Flavopimpla nigromaculata mangae* Betrem, 1932, *Treubia*, **14**: 25, ♂, ♀. des., fig. Type ♀, Java: Bogor.

*Flavopimpla xanthosoma*: Baltazar, 1961, *Monogr. Natl. Inst. Sci. Tech. Manila*, **7**: 34 (in part).

*Flavopimpla nigromaculata*: Townes, Townes and Gupta, 1961, *Mem. Amer. Ent. Inst.*, **1**: 13 (in part).

*Flavopimpla nigromaculata mangae*: Gupta and Tikar, 1969, *Oriental Ins.*, **3** (3) : 269. syn.

**Specimens examined:** none

**Host records:** *Sternochetus gravis*

**Distribution:** Indonesia: Java. Malaysia. India: Java. Malaysia. India: Karnataka, Assam, Tamil Nadu

**Genus: *Camptotypus* Kriechbaumer*****Camptotypus rugosus* (De Geer)**

*Ichneumon rugosus* De Geer, 1773, *Memoires l'histoire des. Ins.*, **3**: 597. ♀. des., fig. Type ♀ "India" (STOCKHOLM); Retzius 1783, In De Geer, *Genera et species insectorum*, p. **67**. des.

- Ichneumon vacillator* Olivier, 1792, *Encyclopedia methodique, Histoire naturelle, Insectes*, **7**: 156, 181. ♀: New name for *Ichneumon rugosus*. des. Sumatra.
- Bracon plumator*: Fabricius, 1804, *Systema piezatorum*, p. 102. syn.(in part).
- Ichneumon plumator*: Thurnberg 1882, *Mem. Acad. Imp. Sci. St. P»tersbourg*, **8**:272. Misdet. of. *plumator* Illiger. key; 1824, *M»m. Acad. Imp.Sci. St. P»tersbourg* , **9**: 342. Misdet. of. *plumator* Illiger. des.
- Ichneumon capitator*: Thurnberg 1822, *M»m. Acad. Imp. Sci. St. P»tersbourg*, **8**:273. Misdet. of. *plumator* Illiger. key; 1824, *M»m. Acad. Imp. Sci. St. P»tersbourg* **8**: 273. Misdet. of *capitator* Illiger. des.
- Ephialtes rugosus*: Gravenhorst, 1829, *Ichneumonologia europaea*, **3**: 1019. syn.; Schmiedeknecht, 1907, *Genera Insectorum*, **62**: 68. syn.
- Bracon (Vipio) plumator*: Nees, 1834, *Hymenopterorum Ichneumonidus affinium*, **1**: 122. ♂, ♀, syn. des. (in part).
- Pimpla bipartita* Brull»,\*1846, *In Lepeletier: Histoire naturelle des insects Hymenopteres*, **4**: 88. ♀. des. lectotype ♀ ,”India” (Paris); Vollenhoven, 1879, *Stetin. Ent. Ztg.*, **40**: 142. des; Tosquinet, 1896, *Mem. Soc. Ent. Belgique*, **5**: 297. ♂, ♀ . des.
- Trichiothecus ruficeps* Cameron, 1903, *J. Straits Branch Roy. Asiatic Soc.*, **39**: 137. ♀, des. Type ♀ , Sarawak: Kuching (LONDON). Sarawak, Mt. Siban.
- Erythropimpla fruhstorferi* Schulz, 1906, *Spolia Hymenopterologica*, p. 106. ♀ . des. Type ♀ , Celebes: Toli Toli (STRASBOURG)
- Hemipimpla ruficeps*: Schulz, 1911, *Zool. Ann.*, **4**: 28. syn., des.
- Hemipimpla rugosa*: Schulz, 1912, *Berlin. Ent. Ztschr.*, **57**: 61. syn., des.; Morley, 1913, *Fauna of British India, Hymenoptera*, **3**(1): 190. ♂ , ♀ . key, des., fig. Indrulman, Sarawak: Mt. Siban, Kuching; 1915, report on the collection made by the British Ornithologists Union Expedition and the Wollaston Expedition in Dutch New Guinea, 1910-1913, **1**(10): 19. ♀ . syn. New Guinea: Setakwa River, base camp at Sea level.

*Camptotypus ruficeps*: Roman, 1912, *Zool. Bidr. Uppsala*, **1**: 272. syn., des. Sumatra.

*Camptotypus rugosus*: Roman, 1913, *Arkiv. for Zool.*, **8**(15): 13. key, syn, des. Sumatra (Syn. in part).

*Camptotypus (Camptotyphus) rugosus*: Townes, Townes & Gupta, 1961. *Mem. Amer. Ent. Inst.*, **1**: 23-24 (in part): Baltazar, 1961, *Monogr. Inst. Sci. Tech., Manila*, **7**: 26. ♂, ♀. des, key., syn.; 1966, *Pasific Ins. Monogr.*, **8**: 64. syn.

**Host records**: Not known

**Distribution**: Malaysia: Malaya, Sarawak, Sabah. Indonesia: Java, Kalimantan, Sumatra, Moluccas, Sulawesi.

**Spesimens examined**: none

***Campyotypus borneensis*, Gupta and Tikar**

*Campyotypus borneensis*, Gupta and Tikar, 1976. *Oriental Ins. Monogr.* **1**: 1-313. Type: ♀ Indonesia (TOWNES).

**Host records**: Not known

**Distribution**: Kalimantan. Malaysia: Malaya. Sarawak, Sabah.

**Spesimens examined**: none

**Genus: *Sericopimpla* Kriechbaumer**

***Sericopimpla flavobalteata* (Cameron)**

*Charitopimpla flavobalteata* Cameron, 1902. *J. Straits Branch. Roy. Asiatic Soc.*, **37**: 49. ♀. des. Type ♀, Sarawak (LONDON); Cushman, 1933, *Ins. Matsumurana*, **8**: 39. key.

*Philopsyche flavobalteata*: Uchida, 1932, *J. Faculty Agr. Hokkaido Imp. Univ.*, **33**: 196. syn.

*Sericopimpla flavobalteata*: Townes, Townes & Gupta, 1961. *Mem. Amer. Ent. Inst.*, **1**: 18. syn.

**Host records**: *Cryptothelea cardiophaga*

**Host food**: *Citrus*

**Distribution**: Malaysia: Sarawak, Sabah. Indonesia: Sumatra.

**Spesimens examined**: none

***Sericopimpla sagrae sagrae* (Vollenhoven)**

*Pimpla sagrae* Vollenhoven, 1879, *Stettin. Ent. Ztg.*, **40**: 149. ♂, ♀. des. lectotype ♀, Java (LEIDEN)

*Charitopimpla sagrae*: Uchida, 1932, *J. Fac. Agri. Hokkaido Imp. Univ.*, **33**: 195. syn.(in part).

*Charitopimpla (Philopsyche) sagrae*: Sonan, 1944, *Bull. Govt. Agri. Res. Inst. Taiwan*, **222**: 6. syn. (in part).

*Sericopimpla sagrae sagrae*: Townes, Townes & Gupta, 1961, *Mem. Amer. Ent. Inst.*, **1**:18. syn. (in part); Baltazar, 1966, *Pacific Ins. Monogr.*, **8**: 61. syn. (in part).

**Host records**: Not known

**Distribution**: Malaysia: Malaya. Indonesia: Java. India: Sikkim.

**Spesimens examined**: none

***Sericopimpla shiva* Gupta & Tikar**

*Sericopimpla shiva* Gupta & Tikar, 1976. *Oriental Ins. Monogr.* **1**: 1-313. Type: ♀ Malaysia: Sabah: Forest Camp, 19 km north of Kalabakan, 13. xi. 1962, K.J. Kuncheria Coll. (HONOLULU). Paratype 1 ♀, Sabah, Kalabakan, primary forest, 10-19. xi. 1958, T. C. Maa Coll. (HONOLULU).

**Host records**: Not known

**Distribution**: Malaysia: Sabah.

**Spesimens examined**: none

**Genus: *Zaglyptus* Foerster**

***Zaglyptus indicus nigrithorax* Gupta**

*Zaglyptus indicus nigrithorax* Gupta, 1961, *Indian J. Ent.*, **22**: 50. ♀. key. des. Type: ♀, Malaysia: Pahang: Lubok Tamang, 3500 ft. (WASHINGTON).

**Spesimens examined**:

PAHANG: Lubok Tamang, at light 3500 ft., 23 vii 1923 H.M. Pendlebury (WASHINGTON)

***Zaglyptus* sp1**

**Spesimens examined**:

NEGERI SEMBILAN, Hutan Simpan Pasoh, logged area, vertical 6 m, 1 ♀, 17 viii 2002, Ng. Y.F. & Ruslan; H.S.Pasoh, 50 ha plot, vertical 0 m, 2 ♀, 3 i 2003, Ng. Y.F. & Pua G.K.; H.S.Pasoh, logged area, 3 ♀, 21 xii 2002, Ng. Y.F.; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♀, 10 xi 2002, Ng. Y.F. & Ruslan.



PAHANG: Hutan Simpan Kuala Lompat, 1 ♀, 28 vii 1998, Hasnah, Azura, Ruslan; H.S. Kuala Lompat, 1 ♀, 18-24 vii 1999, Ruslan & A. Nizar.

JOHOR: Endau Rompin Selai, 1 ♀, 25 ix 2004, Izfa-Riza Hazmi; Endau Rompin Peta, 1 ♀, 14-20 viii 2004 Izfa, Ruslan, Fauzi.

**Host records:** Not known

**Distribution:** Malaysia: Malaya

### **Genus: *Acropimpla* Townes**

#### ***Acropimpla leucostoma* (Cameron)**

*Charitopimpla leucostoma* Cameron, 1907, *Tijdschr. Ent.*, **50**: 97.

♀, key. des. Type: ♀, India: Sikkim (LONDON); Cushman, 1933, *Ins. Matsumurana*, **8**: 39. key.

*Exeristes leucostoma*: Morley, 1913, *Fauna British India, Hymenoptera*, **3** (1): 199. ♀. key, des. India: Sikkim. Ceylon: Kandy; 1914, revision of the Ichneumonidae in the British Museum, 3: 30. ♀. India: Sikkim, Assam.

*Exeristes pulchella* Morley, 1913, *Fauna British India, Hymenoptera*, **3** (1): 201. ♀. Key, des. Fig. Type ♀, India: Sikkim (LONDON). India: Assam.

*Epiurus taiwanensis* Uchida, 1928, *J. Faculty Agri. Hokkaido Imp. Univ.*, **33**: 220. ♀. Taiwan: Pilam.

*Charitopimpla leucostoma* Cushman, 1933, *Ins. Matsumurana*, **8**: 40. ♀. key. syn., des. Taiwan: Taihorin; Kosempo

*Acropimpla leucostoma*: Townes and Townes, 1960, *Bull. U. S. Natl. Mus.*, **216** (2): 160. syn; Townes, Townes and Gupta, 1961, *Mem. Amer. Ent. Inst.*, **1**: 16; Townes, Momol & Townes, 1965, *Mem. Amer. Ent. Inst.*, **5**: 23; Momol, 1968, *Kontyu*, **36**: 186. ♀. Taiwan: Tzepeng, Taitung Hsien.

**Host Records:** *Hyblaea pleura*, *Pteroma plagiophleps*

**Host Plant:** *Tectona grandis* (Teak)

#### **Spesimens examined :**

PAHANG: Taman Negeri Endau Rompin, 3 ♀, 4-10 vii 2003, UKM, Kyushu Uni; Taman Negeri Endau Rompin, 2 ♀, 12-17 viii 1999, Ruslan; H.S Kuala Lompat , 4 ♀, 21 vii 1998, Hasnah, Azura & Ruslan; H.S. Kuala Lompat, 1 ♀, 27 vi 2000, Ruslan & A. Nizar; H.S. Kuala Lompat, 2 ♀, 1 ix 1999, Rozienah; H.S.

Kuala Lumpur, 1 ♀, 13 vi 2000, Ruslan; H.S. Kuala Lumpur, 2 ♀, 8 i 2001, Ruslan; H.S. Kuala Lumpur, 1 ♀, 5 iii 2001, Ruslan; H.S. Kuala Lumpur, 1 ♂, 13 vi 2000, Hasnah, Azura & Ruslan.

SELANGOR: H.S. Bangi, 1 ♀, 5 iii 1998, Azura; H. Air Hitam UPM, plot B (MT), 2 ♀, 10 v 2000, Noor & Ahmad Said

TERENGGANU: Mandi Air Panas, 1 ♂, 5-10 vi 2004, Fauzi & Ruslan

JOHOR: Endau Rompin Selai, 1 ♀, 2 ♂, 25 ix-17 x 2004, Izfa, Ruslan, Fauzi; Endau Rompin Peta, 2 ♀, 14-20 vii 2004 Izfa, Ruslan, Fauzi.

NEGERI SEMBILAN: H.S. Pasoh, logged area, 50 ha plot, 1 ♀, 20 i 2003, Ng. Y.F. & Ruslan; H.S. Pasoh, logged area, 1 ♀, 23 x 2002, Ng. Y.F. & Ruslan; H.S. Pasoh, logged area, vertical 0 m, 1 ♀, 13 vii 2002, Ng. Y.F. & Ruslan; H.S. Pasoh, 50 ha plot, vertical 0 m, 2 ♀, 18 viii 2002, Ng. Y.F. & Ruslan; H.S. Pasoh, 50 ha plot, vertical 0 m, 1 ♀, 7 vii 2002, Ng. Y.F. & Ruslan; H.S. Pasoh, logged area, vertical 0 m, 1 ♂, 21 v 2002, Ng. Y.F. & Ruslan

PERAK: H.S. Sungkai, 2 ♀, 23 vi 2000, Ruslan, Azril, Soon

**Locality:** This species was previously recorded from India,; Sikkim, Assam, Meghalaya, Bihar, Uttar Pradesh, Tamil Nadu, Karnataka, Ceylon. Burma, Laos. Vietnam. Taiwan. Indonesia: Sumatra, Java, Bali, Moluccas, Borneo

**Distributions:** Oriental, Palearctic

**Remarks:** This species is a new record for Malaysia

### *Acropimpla bifida* Gupta & Tikar

*Acropimpla bifida* Gupta & Tikar, 1976. *Oriental Ins. Monogr.* 1:1-313. Type: ♀ Java: Djampang Wetan, G Bengbreg, J. v.d Vecht, v. 1938 (LEIDEN). Paratype 1 ♀, Java: Djampang, Tengah, ii. 1935 (GUPTA).

**Host records:** Not known

#### **Spesimens examined:**

NEGERI SEMBILAN: H.S. Pasoh, logged area, 1 ♀, 21 vi 2002, Ng Y.F. & Ruslan; PAHANG: Taman Negeri Endau Rompin, 1 ♀, 4-10 vii 2003, UKM, Kyushu Uni; H.S. Kuala Lumpur, 1 ♀, 5 iii 2001, Ruslan.

**Locality:** This species was previously recorded from Indonesia: Java.

**Distributions:** Oriental

**Remarks:** This species is a new record for Malaysia

### **Genus *Acrodactyla* Haliday, 1838**

*Barypus* Haliday, 1837. In Curtis: A Guide to an Arrangement of British Insects, ed. 2: p. 94. Name preocc. by Laporte, 1834. Type-species: *Barypus degener* Haliday; designated by Westwood, 1840.

*Acrodactyla* Haliday, 1838. Ann. Nat. Hist., 2: 117. New name for *Barypus*.

*Colpomeria* Holmgren, 1859. Ofvers. Svenska Vetensk.-Akad. Forh., 16: 126. Syn. In Townes, Townes & Gupta, 1961. Type-species: (*Colpomeria laevigata* Holmgren) = *Ichneumon quadrisculpta* Gravenhorst; monobasic.

*Symphylus* Foerster, 1871. Verh. Naturh. Ver. Rheinlade, 28: 105. Name preocc. by Dallas, 1851. Syn. By Morley, 1908. Type species: (*Symphylus hadrodactylus* Foerster) = *degener* Haliday; original designation.

*Polemophthorus* Schulz, 1911. Zool. Ann., 4: 22. New name for *Symphylus*.

#### **Spesimens examined:**

NEGERI SEMBILAN: H.S. Pasoh, 50 ha plot, vertical 0 M, 1 ♀, 11 ii 2003, Ng Y.F & Pua, G.K; H.S. Pasoh, logged area, 2 ♀, 21 i 2003, Ng, Y.F. & Ruslan;

PAHANG: Taman Negeri Endau Rompin, Fo9 Canopy, 1 ♀ 6 vii 2003, UKM, Kyushu Uni; H.S.Kuala Lompat, 5 ♀, 11-17 v 1999, Ruslan & A.Nizar.

PERAK: H.S. Sungkai, 2 ♀, 23 vi 2000, Ruslan, Azril & Soon

**Locality:** This genus was previously recorded from Indonesia (West Irian), Taiwan, Australia, Japan, Europe, New Guinea, and China.

**Host:** In Europe, the known hosts are spiders of the family Araneidae, Linyphiidae, and Tetragnathidae (Aubert, 1969 *cite in*

Gupta, 1987). Besides, Hudson (1988) reared *Acrodactyla degener* from *Lepthyhantes zimmermanni* Bertkau (Family Linyphiidae) and *Acrodactyla madida* from *Meta* sp. (Family Metidae), a very common and widespread spider.

**Host Food:** *Heracleum sphondylium*, *Oryza sativa*

**Distribution:** Holarctic, Oriental, and Australian regions

**Remarks:** This genus is new record for Malaysia

### Genus *Oxyrrhexis* Foerster, 1869

*Oxyrrhexis* Foerster, 1869. Verh. Naturh. Ver. Rheinlande, 25: 166.  
Type-species: *Cryptus carbonator* Gravenhorst; designated by Schmiedeknecht, 1888.

#### **Spesimens examined:**

NEGERI SEMBILAN: H.S. Pasoh, logged area, 1 ♀, 21 vii 2002, Ruslan; H.S.Pasoh, logged area, vertical 0 m, 1 ♀, 17 viii 2002, Ng. Y.F.& Ruslan; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 1 ♀, 17 viii 2002, Ng. Y.F.& Pua.G.K; H.S.Pasoh, 50 ha plot, vertical 0 m, 3 ♀, 12 v 2002, Ng.Y.F & Ruslan; H.S.Pasoh, logged area, vertical 6 m, 1 ♀, 24 x 2002, Ng.Y.F & Ruslan; H.S. Pasoh, logged area, 1 ♀, 21 xi 2002, Ruslan; H.S. Pasoh, logged area, vertical 0 m, 2 ♀, 15 ix 2002, Ng.Y.F & Ruslan; H.S. Pasoh, 50 ha plot, 1 ♀, 20 v 2002, Ng.Y.F. & Ruslan; H.S.Pasoh, logged area, vertical 0 m, 5 ♀, 11 xi 2002, Ng.Y.F & Pua, G.K; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 23 x 2002, Ng.Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 6 m, 3 ♀, 10 xii 2002, Ng.Y.F & Pua G.K; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 1 ♀, 11 xii 2002, Ng.Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 1 ♀, 20 xii 2002, Ng.Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 3 ♀, 3 i 2003, Ng.Y.F & Pua.G.K; H.S.Pasoh, 50 ha plot, vertical 0 m, 1 ♂, 20 i 2003, Ng.Y.F & Ruslan; H.S.Pasoh, logged area, 1 ♀, 21 i 2003, Ng.Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 12 m, 1 ♀, 12 iv 2003, Ng.Y.F & Ruslan;

**Locality:** Townes (1969) recorded this genus from Southeast China by an undescribed species. It occurs in Holarctic Region including Japan.

**Host:** Spiders (Family Araneidae, Metidae)

**Host Food:** *Populus tremula*

**Distribution:** Nearctic, Palearctic

**Remarks:** This genus is new record for Malaysia

### **Genus *Sinarachna* Townes, 1960**

*Sinarachna* Townes, 1960. Bull. U. S. Natl. Mus., 216 (2): 258.

Type species: *Polysphicta pallipes* Holmgren; original designation.

#### **Spesimens examined :**

NEGERI SEMBILAN: H.S.Pasoh, logged area, logged area, vertical 0 m, 2♂, 15 iii 2003, Ng. Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 6 m, 1♀, 7 vii 2002, Ng. Y.F. & Ruslan; H.S.Pasoh, logged area, vertical 6 m, 2♂, 17 viii 2002, Ng. Y.F & Ruslan; H.S.Pasoh, 50 ha plot, vertical 6 m, 1♀, 22 vi 2002, Ng. Y.F & Ruslan; H.S.Pasoh, 50 ha plot, 1♀, 20 v 2002, Ng. Y.F & Ruslan; H.S.Pasoh, 50 ha plot, 1♂, 20 i 2003, Ng. Y.F & Ruslan

**Locality:** This genus was previously recorded from Sri Lanka

**Host :** Spiders (*Araneus diadematus*, *Araneus quadratus*)

**Distribution:** Nearctic, Oriental, Palearctic, Neotropical

**Remarks:** This genus is new record for Malaysia

### **Genus *Zatypota* Foerster, 1869**

*Zatypota* Foerster, 1869. Verh Naturh. Ver. Rheinlande, 25: 166.

Type-species: *Ichneumon percontatorius* Mueller; designated by Vierck, 1914.

*Polysphinctopsis* Habermehl, 1917. Ztschr. f. Wiss. Insektenbiol., 13: 167. Syn. by Townes, 1944.

Type-species: (*Polysphincta eximia* Schmiedeknecht) = *Glypta albicoxa* Walker; monobasic.

*Lycorinopsis* Haupt, 1954. Deut Ent. Ztschr. (N.F.), 1: 110. Syn by Townes & Townes, 1960.

Type-species: (*Lycorinopsis rhombifer* Haupt) = *percontatoria* Mueller; original designation.

**Spesimen examined:**

NEGERI SEMBILAN: H.S.Pasoh, logged area, logged area, vertical 0 m, 1 ♀, 15 iii 2003, Ng.Y.F & Ruslan; H.S.Pasoh, logged area, vertical 0 m, 1 ♀, 12 iv 2002, Ng. Y.F.& Ruslan; H.S.Pasoh, logged area, 1 ♀, 19 viii 2002, Ng.Y.F & Ruslan; H.S.Pasoh, 50 ha plot, 1 ♀, 20 i 2003, Ng.Y.F & Ruslan; H.S.Pasoh, logged area, vertical 0 m, 1 ♀, 22 vi 2002, 50 ha plot, vertical 6 m, Ng. Y.F.& Ruslan.

**Hosts:** Immature Theridiidae

**Distribution:** Worldwide

**Remarks:** This genus is new record for Malaysia

### CONCLUSIONS

This preliminary results indicates that tribe Ephialtini is highly diverse in Malaysia. Further study need to be done by intensive sampling from Malaysian forests especially to area that are expected to be developed or logged.

### ACKNOWLEDGEMENTS

We would like to thank to the staff of the Center for Insect Systematics (CIS) and post graduate students working at the CIS. Special thanks to the Universiti Kebangsaan Malaysia for Zamalah Scholarships. This research also partially funded by MOSTE under IRPA 09-02-02-0017-EA072

### REFERENCES

- Gauld, I.D. 1984. The Pimplinae, Xoridinae, Acaentinae and Lycorininae (Hymenoptera: Ichneumonidae) of Australia. *Buletin British Museum Natural History (Entomology)*. 49(4): 235–339.
- Gauld, I.D., D.B. Wahl, & G.R. Broad. 2002. The suprageneric groups of the Pimplinae (Hymenoptera: Ichneumonidae): a cladistic re-evaluation and evolutionary biological study. *Zoological Journal of Linnean Society* 136 (3): 421-485

- Gonzaga, A.D. 2000. The Diversity and Taxonomy of Genus *Xanthopimpla* (Ichneumonidae: Pimplinae) in Malaysia. *MSc. Thesis*. Bangi: UKM
- Gupta, V.K. & D.T. Tikar. 1976. Ichneumonologia orientalis or a monographic study of ichneumonidae of the oriental region. Part 1. The trib Pimplini (Hymenoptera: Pimplinae). *Oriental Insects Monograph.*, 1:1– 313.
- Hudsons, I. R. 1988. Some Further Notes on Species of Ichneumonidae Reared as Ectoparasites of Spiders. *British Journal Entomology Natural History*.
- Idris, A.B, Nur Azura A., Gonzaga, D. & Ng, Y.F. 2005. Current Status on The Systematics, Taxonomy, Diversity and Ecology of Ichneumonid (Hymenoptera: Ichneumonidae) Wasps of Malaysia. *Proceeding of Second Regional of Symposium on Environment and Natural Resourches, Vol 2: 22-23 March*
- Idris, A.B. 1999. Catalogue of Pimplinae (Hymenoptera: Ichneumonidae) from Peninsular Malaysia. *The Pan-Pasific Entomologist*, 75 (2): 73-81
- Ng, Y.F., Idris, A.B, Abdullah M, & Nur Supardi, M.N. 2005. The Diversity and Abundance of Pimplinae (Hymenoptera: Ichneumonidae) after Logged Under Regime of Mus for Four Decades ago in Pasoh Forest Reserve, Negeri Sembilan. *Proceeding of Second Regional of Symposium on Environment and Natural Resourches, Vol 2: 22-23 March*
- Townes, H. 1969. The genera of Ichneumonidae part 1. *Memoirs of the American Entomological Institute* 11: 1-300.
- Wahl, D.B. 1993. Family Ichneumonidae, pp. 395-448. In Goulet, H. and J.T. Huber [eds.], *Hymenoptera of the World: An identification guide to families*, Canada: Canada Communication Group.

- Yu, D.S. & K. Horstmann, K. 1997. A Catalogue of World Ichneumonidae (Hymenoptera). *Memoirs of the American Entomological Institute*, 58 (2): 791–876.
- Yu, D.S. 1999. *Interactive Catalogue of World Ichneumonidae 1998 (Taxapad 1999)* <http://www.taxapad.com/index.html>. 10 October 2005.