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Catalogue for Malaysian Cryptinae (Hymenoptera:Ichneumonidae)

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Abstract: Fifty eight species and one subspecies of Cryptinae were recorded in Malaysia, consisting of 31 genera. The type specimens were deposited in various depository centers.

Key words: Cryptinae, Ichneumonidae, catalogue, hymenoptera

Introduction

Cryptinae is the largest subfamily of Ichneumonidae (Hymenoptera) which comprises of more than 300 species worldwide. It can be found in mostly all kinds of habitats in the world. Typically they are parasitic in cocoons of the Lepidoptera, sawflies, braconids, ichneumonids and Neuroptera. Some of them attack egg cocoons of spiders and pupae of Diptera.

The most common feature to distinguish a cryptine is the sternaulus. It is usually more than half as long as mesopleuron, often reaching the hind edge of mesopleuron. The second recurrent vein is always present in almost all species. First abdominal segment slender, or sometime of moderates proportion. Glymma always lacking.

In this paper we present a catalogue of Malaysian Cryptinae deposited in several repository centers all around the world. They are type specimens described from Malaysia. We also include 5 'non-type' specimens but were recorded in Malaysia. They are *Amauromorpha accepta* Tosquinet, *Diatora lissonota* (Viereck), *Diatora prodeniae* Ashmead, *Paraphylax rubriornatus* Cameron and *Austriteles armatorius* Gauld. *Sketia brookeana* is also included although the type was described from Indonesia. The reason is because its junior synonym, *Sketia nigrispina*, was described from Malaysia. The aim of this paper is to prepare a catalogue of Malaysian cryptine and it is hope to be very useful information for the taxonomists who are interested to study them (Yu and Horstmann, 1992).

Each citation shows the valid species or subspecies name, followed by the name of author and the year of the first description. The reference quoted is the original description of the species. Type specimen information are listed in the following order: type location by country and if available by states or exact locality, type depository and sex of the type.

The code for the type depository is as listed:

Code	Institute
ATL-CBR-ANIC	Australian National Insect Collection, Canberra, Australia.
BGM-BXL-IRSN	Institut Royal des Sciences Naturelles de Belgique, Entomologie, Rue Vautier 29, B-1040 Bruxelles, Belgium.
HGR-BDP-TMA	Termesztudományi Múzeum Allattara, Barossa-Utea 13, Budapest H-1088, Hungary.
UKD-LDN-NHM	The natural History Museum, Department of entomology, Cromwell Road, London, England, SW7 5BD, United Kingdom.
UKD-OFD-HOPE	Hope Entomological Collection, University Museum, Oxford, England, OX1 3PW, United Kingdom.
USA-GVL-GUPTA	Entomology and Nematology Department, University of Florida, Gainesville, Florida, 32611, USA (V.K. Gupta collection).
USA-WST-USNM	U.S. National Museum of Natural History, Smithsonian Institute, Washington, DC, 20560 USA.
ITL-GNA-MSCN	Museo Civici di Storia Naturale, Via Brigata Liguria 9., Genoa, Italy.

***Ateleute spinipes* Cameron:** *Ateleute spinipes* Cameron, 1911. Entomologist, 44: 63-65 [Malaysia: Sarawak, Kuching UKD-LDN-NHM (Type: male)].

***Buodias ruficoxis* Cameron:** *Buodias ruficoxis* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia: Sabah, Sarawak, Pahang; Fraser Hill, UKD-LDN-NHM (Type: female)].
***Buodias maculiscutis* Cameron,** 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia, UKD-LDN-NHM (Type: male)].

***Coesula fulvipes* Cameron:** *Coesula fulvipes* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168. [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].

***Cremnocyrtus spiniferus* Cameron:** *Cremnocyrtus spiniferus* Cameron, 1906. 46: 103-123 [Malaysia: Sarawak, Sabah, UKD-LDN-NHM (Type: male)].

***Dinocryptus niger* Cameron:** *Dinocryptus niger* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching (Type: female)].

Dinocryptus semialatus: *Dinocryptus semialatus* Gupta and Gupta, 1983. Oriental Ins. Monogr, 10: 65 [Malaysia: Sabah, Mt. Kinabalu, Kenokok, 1005 m., USA-GVL-GUPTA (Type: female)].

***Etha striata* Cameron:** *Etha striata* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia, UKD-LDN-NHM (Type: female)].

***Euchalinus annulipes* Cameron:** *Euchalinus annulipes* Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 89-181 [Malaysia: sarawak, Kuching, UKD-LDN-NHM (Type: female)].

***Euchalinus flavipes* Cameron:** *Euchalinus flavipes* Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 89-181 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].

***Eurycryptus decoratus sundaicus* Gupta and Gupta:** *Eurycryptus decoratus sundaicus* Gupta and Gupta, 1983. Oriental Ins. Monogr., 10: 1-313 [Malaysia, USA-HNL-BBM (Type: female)].

***Formostenus piceus* Jonathan:** *Formostenus piceus* Jonathan, 1980. Rec. Zool. Surv. India, Occ. Paper, 17: 82 [Malaysia: Mt. Kinabalu, Kenkok, 1000 m., USA-GVL-GUPTA (Type: female)].

***Friona albomaculata* Cameron:** *Friona albomaculata* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].

***Friona flavipes* Cameron:** *Friona flavipes* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].

Azura and Idris: Cryptinae, ichneumonidae, catalogue, hymenoptera

- Friona notabilis* Tosquinet:** *Friona notabilis* Tosquinet, 1903. Mem. Soc. Ent. Belgique, 10: 211 [Malaysia: Sarawak, ITL-GNA-MSCN (Type: female)].
- Friona lepida* Smith:** *Friona lepida* Smith, 1858. J. Proc. Linn. Soc. London, Zool., 2: 42-130 [Malaysia: Sarawak, UKD-OFD-HOPE (Type: female)].
- Friona plagiata* Cameron:** *Friona plagiata* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: male)].
- Friona pleuralis* Cameron:** *Friona pleuralis* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching UKD-LDN-NHM (Type: female)].
- Friona recaix* Tosquinet:** *Friona recaix* Tosquinet, 1903. Mem. Soc. Ent. Belgique, 10: 224 [Malaysia: Sarawak, ITL-GNA-MCSN (Type: female)].
- Friona reticulata* Cameron:** *Friona reticulata* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching UKD-LDN-NHM (Type: female)].
- Friona rufibasis* Townes (Townes et al., 1961):** *Friona rufibasis* Townes, Townes and Gupta, 1961. Mem. Amer. Ent. Inst. No. 1., pp: 522. [Malaysia, UKD-LDN-NHM (Type: male)].
- Friona ruficoxis* Cameron:** *Friona ruficoxis* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].
- Friona striolata* Cameron:** *Friona striolata* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].
- Goryphus angulicollis* Cameron:** *Goryphus angulicollis* Cameron, 1907. J. Straits Branch Roy. Asiatic Soc., 48: 1-26 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Goryphus annulipes* (Cameron):** *Goryphus annulipes* (Cameron). 1909. Deutsch. Ent. Ztschr., 1909: 529-534. [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Goryphus bunoh* Gauld:** *Goryphus bunoh* Gauld, 1987. Slug and Nettle Caterpillars: The Biology, Taxonomy and Control of the Limacodidae of Economic Importance on Palms in Southeast Asia, pp: 123-138. [Malaysia, UKD-LDN-NHM (Type: female)].
- Goryphus elegans* (Smith):** *Goryphus elegans* (Smith), 1858. J. Proc. Linn. Soc. London, Zool., 2: 42-130 [Malaysia: Sarawak, Kuching, UKD-OFD-HOPE (Type: female)].
- Goryphus maculiceps* Cameron:** *Goryphus maculiceps* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Goryphus mesoxanthus* Brulle:** *Goryphus mesoxanthus* Brulle, 1846. In: Lepeletier de Saint Fargeau A.; Histoire Naturelles des Insectes, 56-324. [Indonesia: Java (lost) (Type: female)].
Goryphus maculipennis Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 89-181 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Goryphus reticulatis* Cameron:** *Goryphus reticulatis* Cameron, 1911. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].
- Hadrocryptus dittisimus* Tosquinet:** *Hadrocryptus dittisimus* Tosquinet, 1903. Mem. Soc. Ent. Belgique, 10: 252 [Indonesia: Java, UKD-LDN-NHM (Type: female)].
- Hadrocryptus dentatus* Cameron,** 1907. J. Straits Branch Roy. Asiatic Soc., 48: 1-26 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Lipoprion carinatus* Cameron:** *Lipoprion carinatus* Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 89-181 [Malaysia, UKD-LDN-NHM (Type: female)].
- Listrognathus armatus* Cameron:** *Listrognathus armatus* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching UKD-LDN-NHM (Type: female)].
- Melcha albispina* Cameron:** *Melcha albispina* Cameron, 1901. Proc. Zool. Soc. Lond., (2):16-44 [Malaysia, UKD-LDN-NHM (Type: male)].
Melcha albomaculata Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
Melcha hyalinis Cameron, 1905. J. Straits Branch Roy. Asiatic Soc. 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: male)].
- Melcha rufipes* Cameron:** *Melcha rufipes* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].
- Nematopodius nigroplagiatus* Cameron:** *Nematopodius nigroplagiatus* Cameron, 1902. J. Straits Branch Roy. Asiatic Soc., 37: 29-131 [Malaysia, ITL-GNA-MCSN (Type: female)].
Nematopodius peltax Tosquinet, 1903. Mem. Soc. Ent. Belgique, 10: 1-403 [Malaysia, USA-WST-USNM (Type: female)]
- Nematopodius piceatus* Cushman:** *Nematopodius piceatus* Cushman, 1932. Phil. J. Sci., 49: 277-292 [Malaysia, USA-WST-USNM (Type: female)].
- Nematopodius nigripalpis* Cameron:** *Nematopodius nigripalpis* Cameron, 1911. Entomologist, 44: 63-65 [Malaysia, UKD-LDN-NHM (Type: female)].
- Palmerella nigra* Cameron:** *Palmerella nigra* Cameron, 1908. Entomologist, 41: 290-291 [Malaysia, UKD-LDN-NHM (Type: male)].
Palmerella longispina Cameron, 1911. Entomologist. 44:63-65 [Malaysia, UKD-LDN-NHM (Type: male)].
- Pharzites nigratarsus* Cameron:** *Pharzites nigratarsus* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc. 44:93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: male)].
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- Sketia albobalteata* Cameron:** *Sketia albobalteata* Cameron, 1902. J. Straits Branch Roy. Asiat. Soc., 37: 29-131 [Malaysia, UKD-LDN-NHM (Type: female)].
- Sketia brookeana* Cameron:** *Sketia brookeana* Cameron, 1897. Mem. Proc. Manchester Lit. Phil. Soc., 41: 1-144 [Indonesia, UKD-OFD-HOPE (Type: female)].
Sketia nigripina Cameron, 1901. Proc. Zool. Soc. London 1901(2):16-44 [Malaysia, UKD-LDN-NHM (Type: female)].
- Sketia croceipes* Smith:** *Sketia croceipes* Smith, 1858. J. Proc. Linn. Soc. London, Zool., 2: 42-130 [Malaysia: Sarawak, UKD-OFD-HOPE (Type: female)].
Sketia maculipennis Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia, UKD-LDN-NHM (Type:female)].
- Theledon pilosus* Szepligeti:** *Theledon pilosus* Szepligeti, 1916. Ann. Mus. Natl. Hungarici, 14: 225-380 [Malaysia: Sarawak, Matang, HGR-BDP-TMA (Type: male)].

Azura and Idris: Cryptinae, ichneumonidae, catalogue, hymenoptera

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***Torbda maculiscutis* Cameron:** *Torbda maculiscutis* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, Kuching, UKD-LDN-NHM (Type: female)].

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***Xoridesopus annulicornis* Cameron:** *Xoridesopus annulicornis* Cameron, 1907. J. Straits Branch Roy. Asiatic Soc., 48: 10-26 [Malaysia, Sarawak: Kuching UKD-LDN-NHM (Type: female)].

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***Mansa varicornis* Cameron:** *Mansa varicornis* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 150 [Malaysia: Sarawak, Kuching UKD-LDN-NHM (Type: female)].

***Bentyra striata* Cameron:** *Bentyra striata* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 93-168 [Malaysia: Sarawak, UKD-LDN-NHM (Type: female)].

Bentyra flavomaculata Camron, 1912. Soc. Ent. Stuttgart 27: 90,94-95 [Malaysia, UKD-LDN-NHM (Type: female)]

***Chirotica rufipes* Cameron:** *Chirotica rufipes* Cameron, 1907. Ann. Mag. Nat. Hist., 20: 166-192 [Malaysia, UKD-LDN-NHM (Type: female)].

***Amauomorpha accepta* Tosquinet:** *Amauomorpha accepta* Tosquinet, 1903. Mem. Soc. Ent. Belgique, 10: 1-403 [Indonesia, BGM-BXL-IRSN (Type: female)].

***Diatora lissonota* (Viereck):** *Diatora lissonota* Viereck, 1912. Proc. U. S. Natl. Mus., 42: 139-153 [India: Mysore, USA-WST-USNM (Type: female)].

***Diatora prodeniae* Ashmead:** *Diatora prodeniae* Ashmead, 1904. Proc. U. S. Natl. Mus., 28(1387): 127-158 [Philippines, USA-WST-USNM (Type: female)].

***Paraphylax rubriornatus* (Cameron):** *Paraphylax rubriornatus* (Cameron), 1905. Spolia Zeylanica, 3: 116 [Sri Lanka, UKD-LDN-NHM (Type: female)].

***Austriteles amatorius* Gauld:** *Austriteles amatorius* Gauld, 1984. British Mus. Nat. Hist. Publication No. 895, pp: 413. [Australia, ATL-CBR-ANIC (Type: female)].

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