

CATALOGUE OF INDIAN INSECTS

PART 26—SERPHOIDEA

INTRODUCTION

The superfamily Serphoidea, though comparatively smaller than the Chalcidoidea, is perhaps of greater economic importance in that, unlike the Chalcidoidea, all the species comprising it are parasitic. The group has, however, been very much neglected both in India and abroad and hardly 3,000 species are known from the whole world, of which only about one hundred occur in India. In this catalogue all the species recorded from British Indian and also from the neighbouring regions like Ceylon, Burma, Malaya, Siam (Thailand) and Java are included. Naturally no claim is made that the catalogue exhausts all the species occurring in the Indian region, as numerous new forms are being constantly found with the increase of interest in the study of parasites of important insect pests.

The superfamily, as at present recognised, comprises the following five families :—

1. Scelionidae (= Scelionidae s. str. + Platygasteridae).
2. Calliceratidae (= Ceraphronidae).
3. Diapriidae (= Diapriidae s. str. + Belytidae).
4. Serphidae (= Proctotrupidae = Serphidae s. str. + Heloridae).
5. Pelecinidae.

A key to the families, adopted from Ashmead and Kieffer, is given below. Detailed keys to subfamilies, Indian genera and species of the various families are also included in the catalogue, in accordance with the recommendations of the Committee on Catalogue of Indian Insects, appointed by the Third Entomological Meeting held at Pusa in 1919 (*vide Rep. Proc. Third Ent. Meet. Pusa*, III, p. 998).

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NEW DELHI

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SERPHOIDEA

Key to families

- | | |
|--|-----------------|
| 1. Winged forms | 2 |
| Wingless forms | 6 |
| 2. Trochanter uniarticulate, fore wings with a stigma more or less developed | Pelecinidae. |
| Trochanter usually biarticulate | 3 |
| 3. Antennae inserted in the middle of face | 4 |
| Antennae inserted far below the middle of face, i.e. at the clypeus near the mouth | 5 |
| 4. Fore wings without a stigma | Diapriidae. |
| Fore wings with a stigma | Serphidae. |
| 5. Abdomen margined and acute at the sides | Scelionidae. |
| Abdomen normal | Calliceratidae. |
| 6. Antennae inserted in the middle of face | 7 |
| Antennae inserted near the mouth | 8 |
| 7. Mandibles dentate; tip of abdomen not stylate | Diapriidae. |
| Mandibles edentate; tip of abdomen stylate | Serphidae. |
| 8. Abdomen margined and acute laterally | Scelionidae. |
| Abdomen normal | Calliceratidae. |

Family I. SCELIONIDAE

Oxyuri (partim), LATREILLE, *Hist. Crust. Ins.*,
XIII, p. 224 (1805). HALIDAY, *Ent.*
Mag., I, p. 269 (1833).

Proctotrumpii, LATREILLE, *Hist. Crust. Ins.*,
XIII, p. 225 (1805).

Cynipsea (partim), LATREILLE, *Gen. Crust.*
Ins., IV, p. 33 (1809).

Pteromalini (partim), NEES, *Hymen. Monogr.*,
II, p. 285 (1834).

Platygasteridae (Partim), FÖRSTER, *Hymen.*
Stud., II, pp. 27, 28 (1856).

Sparasicnidae, DAHLBOM, *Öfv. Akad. Förh.*,
XIV, p. 290 (1858).

Proctotrypidae (partim), MARSHALL, *Cat.*
Brit. Mus., pp. 1, 13, 17 (1873).

Scelioninae, ASHMEAD, *Bull. U. S. N. Mus.*,
XLV, pp. 136, 247 (1893). DALLA
TORRE, *Cat. Hymen.*, V, p. 494 (1898).

Jersey, p. 545 (1899); *J. N. Y. ent. Soc.*, XI, pp. 86-94 (1903), [Tables of sub-families and genera]. BRUES, *Gen. Ins.*, fas. 80, pp. 1-59 (1908), [Revised tables of genera]. KIEFFER, *Gen. Ins.*, fas. 80 B, pp. 62-112 (1910), [Supplement to Brues's work]. BRUES, *Bull. Conn. St. Geol. Nat. Hist. Surv.*, No. 22, p. 541 (1916), [Connecticut forms]. KIEFFER, *Broteria*, (Zool.), XV, pp. 50-62 (1917), [Philippine forms]; *Philip. J. Sci.*, XX, p. 102 (1922), [List of Philippine species]; *Das Tierreich*, Lief. XLVIII, pp. 1-556 (1926), [Monographic revision of the world forms, with tables of sub-families, genera and species]. NIXON, *Ann. Mag. Nat. Hist.*, (10) XII, pp. 288-304, 305-324, 465-479, 549-563, pls. ii, figs. 11, (1933), [African forms].

Key to subfamilies

1. Abdomen acute and margined laterally, with a groove ventrally in which the lateral margins of the tergites are curved under 2
 Abdomen not acute laterally, tergites not bent underneath laterally; antennae usually with 12 segments in male and 11 or seldom 10-12 segments in the female . . . Telenominae.
2. Fore wings with marginal and stigmal veins, except in some genera which have 12 antennal segments in both the sexes, rarely apterous or nearly so; fore tibial spur not trifurcate 3
 Fore wings without marginal or stigmal veins, mostly without any distinct venation; fore tibial spur trifurcate; antennae usually with 10 segments, rarely 8, 9 or 11 . . . Platygasterinae.
3. Marginal vein very long, three to six times the stigmal vein, which is very short, at the most two to three times as long as broad; postmarginal vein not developed. Antennae with 12 segments in male and female, in the female with a distinct jointed club; third abdominal tergite the longest, except in *Gyron*, in which the second is the longest Teleasinae.
 Marginal vein thrice the length of the stigmal vein, which is also mostly long; in forms with vestigial or obsolete wings the third abdominal tergite is not the longest or the club of antennae is unjointed 4
4. Antennae with 7-8 distinctly separated segments in the female, terminal segments forming a thick, unjointed club; with 12 or seldom 11 segments in the male. Marginal vein very short, postmarginal vein mostly obsolete. Abdomen almost oval, first, second or third tergite the longest Baicinae.

Antennae with 12 distinctly separated segments in both the sexes (exceptions are *Microbaeus* female, *Microbaeoides* female with 11; *Scelio* male, *Discelio* male, *Ceratobaeoides* female and *Romilius* female with 10 segments). Abdomen often long, linear or fusiform, with the basal three tergites mostly almost equal, often third or seldom second or the last tergite the longest . Scelioninae.

Subfamily I. TELENOMINAE

Telenomini, THOMSON, *Öfv. Vet.-Akad. Förh.*, XVII, p. 169 (1860). ASHMEAD, *Bull. U. S. N. Mus.*, No. 45, p. 138 (1893).

Telenominae, ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 87 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 3 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 105 (1910); *Das Tierreich*, Lief. XLVIII, p. 15 (1926). NIXON, *Trans. Roy. ent. Soc.*, LXXXIII, pp. 73-103, pl. i, figs. 14 (1935), [Revision of African Forms]; *Ann. Mag. Nat. Hist.* (10) XX, pp. 113-128 (1937), [Asiatic species]; *ibid.*, pp. 444-475 (1937), [Key to Asiatic species].

Key to genera

1. Body uncommonly flattened *Nardo*.
Body not uncommonly flattened 2
2. *Eyes hairy 3
Eyes not hairy 6
3. Parapsidal furrows developed at least posteriorly 4
Parapsidal furrows absent 5
4. Antennae with 11 segments in the female and 12 segments in the male *Dissolcus*.
5. Antennae with 10 segments in the female; postmarginal vein usually short *Aholcus*.
Antennae with 11 segments in the female; postmarginal vein long; second abdominal tergite longitudinally striate at least anteriorly *Telenomus*.
6. Antennae with 11 segments in the female; postmarginal vein mostly longer than the stigmal vein 7
7. Second abdominal tergite without longitudinal striations *Liophanurus*.
Second abdominal tergite with longitudinal striations *Microphanurus*.

1. *Nardo* Nixon.

Nardo, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 279 (1938), [Genotype: *N. cumaeus* Nix.].

Key to species.

- Fore wings rounded apically, marginal ciliation short *N. cumaeus*.
Fore wings pointed apically, marginal ciliation long *N. phaeaz*.
-
- * *Protelenomus* differs from all genera under this couplet in its obsolete post-marginal vein.

cumaeus Nixon.

Nardo cumaeus, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 279 ♀♂ (1938)¹. MANI, ² Karnal.
Indian J. Ent., I, p. 93 (1939)². [Host :
 eggs of *Macropes excavatus* Dist.].

phaeaz Nixon.

Nardo phaeaz, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 283 ♀♂ (1938)¹. MANI, ² Karnal.
Indian J. Ent., I, p. 93 (1939)². [Host :
 eggs of *Macropes excavatus* Dist.].

2. **Protelenomus** Kieffer.

Protelenomus, KIEFFER, *Bull. Soc. Hist. Nat. Metz*, XXV, p. 6 (1908), [Genotype : *P. flavicornis* Kieff.♀].

flavicornis Kieffer.

Protelenomus flavicornis, KIEFFER, *Bull. Soc. Hist. Nat. Metz*, XXV, p. 7 ♀ (1908)¹;
Das Tierreich, Lief. XLVIII, p. 22 ♀ (1926). ¹ Bhamo : Burma.

3. **Telenomus** Haliday.*

SYSTEMATICS.

Telenomus, (Partim), HALIDAY, *Ent. Mag.*, I, p. 271 (1833), [Genotype : *T. brachialis* Halid.]. DALLA TORRE, *Cat. Hymen.*, V, p. 513 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 87 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 6 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 106 (1910). BRUES, *Bull. Conn. St. Geol. Nat. Hist. Surv.*, No. 22, p. 544 (1916), [Connecticut fauna]. KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 24 (1926). FOUTS, *Mem. Soc. ent. Ital.*, XIII, p. 104 (1935), [Keys, descriptions, etc., of African species]. NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, pp. 113-127 (1937), [Status, scope, synonymy ; Ceylonese and Malayan species]; *ibid.*, (11) I, pp. 584-593 (1938), [New Asiatic spp.]; *ibid.*, (11) VI, pp. 497-512 (1940), [Keys to Asiatic spp., new spp., etc.].

Phanurus, THOMSON, *Öfv. Svensk. Vet.-Akad. Förh.*, XVII, pp. 169, 172 (1860). DALLA TORRE, *Cat. Hymen.*, V, p. 521 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 87 (1903). BRUES, *Gen. Ins.*, fas. 80, 3 (1908). KIEFFER, *Das*

*The student should consult Nixon [*Ann. mag. Nat. Hist.*, (11) VI, pp. 497-501 (1940)] for key to most of the species recorded in this catalogue.

Tierreich, Lief. XLVIII, p. 49 (1926).
 NIXON, *Ann. Mag. Nat. Hist.*, (10) XX,
 pp. 113-127 (1937).

BIOLOGICAL.

Telenomus, REGNIER, R., *Rev. Bot. appl. & Agric. Colon.*, III (19) pp. 169-185 (1923), [*Telenomus acrobates* as a parasite of *Chrysopa vulgaris* in France]. GAHAN, *Proc. ent. Soc. Washington*, XXVII (9) p. 188 (1925), [*Telenomus nawai* Ashm. as an egg-parasite of *Prodenia litura* in Fiji]. UICHANCO, L. B., *Rep. Comm. Cane Varieties, Diseases & Fertilizers*, 6th Ann. Conv. Philip. Sugar Ass., reprint pp. 1-16 (1928), [*T. nawai*, originally introduced into Hawaii from Japan, introduced from there into Philippines against *Spodoptera mauritia*]. PAINE, R. W. & SURRIDGE, H. R., *Ann. Bull. Div. Repts. Dept. Agric. Fiji*, 1931, pp. 1-8 (1932), [introduced into Fiji from Java against *Tirathaba trichogramma*]. WINBURN, T. F. & PAINTER, R. H., *J. Kansas ent. Soc.*, V (1) pp. 1-28 (1932), [*T. heliothidis* and its biology as an egg-parasite of *Heliothis obsoleta* in Kansas]. YANAGIHARA, M., *J. Formosan Sugar Pl. Ass.*, XII (1-3) reprint pp. 1-53 (1934), [In Japanese. Bionomics as an egg-parasite of *Sesamia inferens* in Formosa].

Phanurus, UNDERHILL, G. W., *Bull. Virginia agric. Expt. Sta.*, No. 251, pp. 1-21 (1926), [Probable egg-parasite of *Phthorimea operculella* in Virginia]. BOX, H. E., *Rep. Agric. Dept. St. Kitts-Nevis*, 1931, pp. 9-12 (1932), [*T.* (= *Prophanurus*) *alecto* and its bionomics as an egg-parasite of *Diatraea saccharalis* in St. Kitts]; *Bull. Imp. Inst.*, XXX, pp. 185-197 (1932), [Bionomics as an egg-parasite of *D. saccharalis* in Antigua]. JAYNES, H. A., *J. econ. Ent.*, XXV, pp. 64-68 (1932), [Bionomics as an egg-parasite of *D. saccharalis* in S. America].

anwari Mani.

Telenomus anwari, MANI, *Indian J. Ent.*, I, ¹ Delhi, p. 94 (1939).¹ [Host: Eggs of an unknown bug on sugarcane leaf].

attaci Nixon.

Telenomus attaci, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 456, fig. 3 g, ♀♂ (1937).¹
[Host : *Attacus atlas*].

¹ Kuala Lumpur :
Malaya ; Bangkok :
Siam.

beneficiens (Zehntner) Nixon.

Ceraphron beneficiens, ZEHNTNER, *Archif voor de Java-Suikerindustrie*, IV, p. 487 (1896);¹ in *Krüger's Die Zuckerrohr und seine Kultur aus Java*, p. 350 (1899).

¹ Java.

Phanurus beneficiens, DODD, *Canad. Ent.*, XLVI, p. 293 (1914); *Archiv Naturgesch.*, LXXX, A, p. 164 (1914). KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 57 (1926).

Telenomus beneficiens, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 465 ♀♂ (1937).
MANI, *Indian J. Ent.*, I, p. 93 (1939).

BIOLOGICAL.

Phanurus beneficiens, DODD, *Canad. Ent.*, XLVI, p. 293 (1914), [Bionomics as an egg-parasite of *Diatraea venosata* (= *striatilis*).¹ GOOT, P. VAN DER, *Meded. Proefst. voor de Java-Suikerindustrie*, V (4) pp. 125-176 (1914), [Bionomics as an egg-parasite of *Diatraea venosata* and *Chilo infuscatellus*].² ISHIDA, *ibid.*, pp. 1-17 (1914), [Considered an effective egg-parasite of *D. venosata* owing to the preponderance of females over males].³ URICH, F. W., *Bull. Dept. Agric. Trinidad & Tobago, Port-of-Spain*, XIV (5) pp. 156-161 (1915), [Possible egg-parasite of *D. saccharalis*, *D. canella* & *D. lineolata*].⁴ ANONYMOUS, *Hawaii. Planters' Rec.* XXVIII (4) pp. 443-446 (1924), [Introduced into Formosa by Ishida against the stalk-borer of sugarcane]. GOOT, P. VAN DER, *Meded. Inst. Plantenziekten*, 66, pp. 1-308 (1925), [Bionomics as an egg-parasite of *Scirpophaga innotata*].⁵ ANONYMOUS, *Abstracts Sugar Expt. Sta., Formosa*, pp. 272-294 (1928), [Bionomics as egg-parasite of *Chilo infuscatellus* & *D. venosata*].⁶ HAZELHOFF, E. H., *Voordracht gehouden voor het Tiende Suiker Congres te Soerabaia op 17 April 1928*, pp. 1-15 (1928), [Biology as egg-parasite of *D. venosata*].⁶ ISHIDA, M., *Proc. II Conf. Internat. Soc. Sugarcane*

^{1, 2, 3} Java.

⁴ Trinidad.

⁵ Java.

⁶ Dutch E. Indies.

- Technol., Havana Cuba Sugar Club (1927)*, pp. 78-79 (1927), [Introduced into Formosa from Java against *Diatraea venosata* and *Chilo infuscatellus*]. NAKAYAMA, S., *Dobutsugaku Zasshi (Zool. Mag.)*, XL, (482) p. 481 (1928), [Bionomics as egg-parasite of *Chilo simplex*].⁷ UICHANCO, L. B., *Rep. Comm. Cane varieties, diseases & fertilizers, 6th Ann. Conv. Philip. Sugar Ass.*, reprint pp. 16 (1928), [Bionomics as egg-parasite of *D. venosa* & *Scirpophaga intacta*].⁸ VAN ZWALUWENBURG, R. H., RUST, E. W. & ROSA, J. S., *Hawaii. For. & Agric.*, XXV, (3) pp. 79-82 (1928), [Introduced into Hawaii from Japan against *Chilo simplex*]. KUWANA, L., *Proc. IV Pacific Sci. Congr., Java, 1929*, pp. 379-384 (1929), [Bionomics as egg-parasite of *Chilo simplex* & *Schoenobius incertellus*].⁹ NAKAYAMA, S., *Ann. Agric. Expt. Sta. Chosen*, IV (4) pp. 248-250 (1929), [Bionomics as egg-parasite of *Chilo simplex*].¹⁰ FULLAWAY, *Hawaii. For. & Agric.*, XXVII (1) pp. 45-50 (1930), [Bionomics, liberations in field for the control of *Chilo simplex*].¹¹ MATSUMURA, S., *Proc. IV Pac. Sci. Congr. Java, 1929*, pp. 139-142 (1930), [*Chilo infuscatellus* recommended as a laboratory host in the absence of eggs of *Diatraea venosata*]. PAGDEN, H. T., *Bull. Dept. Agric. S. S. & F. M. S.*, (Sci. Ser.) (1), pp. 1-30 (1930), [Bionomics as egg-parasite of *Schoenobius incertellus* and *Diatraea auricilia* in Malaya]. LOPEZ, A. W., *Ann. Rep. Res. Bur. Philip. Sugar Ass.*, 1930-31, pp. 227-273 (1931), [Bionomics as egg-parasite of *C. infuscatellus* & *Scirpophaga intacta* in Philippines]. HART, P. C., *Versl. Cultuuraafd. Proefsta. Java-Suikerindustrie*, 1931, pp. 48-64 (1932), [Method of studying percentage of parasitism on *Scirpophaga intacta* in Java]. PANG HIVA TSAI, *Zeitschr. angew. Ent.*, XIX (4) pp. 608-614 (1932), [Bionomics as egg-parasite of *Schoenobius bipunctifer* and *Chilo simplex* in China]. CORBETT, G. H., *Malayan Agric. J.*, XXI (8) pp. 362-378 (1933), [Natural parasitism on *Schoenobius bipunctifer* in Malaya].

⁷ Japan : Korea-⁸ Philippines..^{9, 10} Japan..¹¹ Hawaii..

- HART, P. C., *Arch. Suikerind. Ned.-Indië*, 1933, pp. 731-801; *Meded. Proefsta. Java Suikerind.*, 1933, No. 16 (1933), [Bionomics as parasite of *Scirpophaga intacta* in Java]. VAN DILLEWIJN, C., *Meded. Onderafd. Cheribod Proefsta. Java-Suikerind.*, 1932, pp. 1-9 (1933), [Egg-parasite of *Scirpophaga intacta* in Java]; *Versl. Onderafd. Cheribon Proefsta. Java-Suikerind.*, 1932, pp. 1-21 (1933), [Bionomics in Java]. OKADA, J. & MAKI, T., *Nojikairyoshiryō*, No. 69 (2) 2, pp. 1-78 (1934), [Biological studies as parasite of *Chilo simplex* in Japan. In Japanese with an English summary]. PAGDEN, H. T., *Sci. Ser. Dept. Agric. S. S. & F. M. S.*, No. 15, pp. 1-13 (1934), [Bionomics as egg-parasite of *Schoenobius bipunctifer* in Malaya]. SUBRAMANYAM, T. V., *Rep. Mysore Agric. Dept.*, 1932-33, pp. 57-62 (1934), ¹² [Bionomics as egg-parasite of *Argyria sticticrasis* and *Scirpophaga nivella*]. TAKANO, S., *J. Formosan Sug. Pl. Ass.*, XI (10) pp. 454-466 (1934), [Bibliography and host-list in Formosa]. RAMAKRISHNA & MARGABHANDHU, *Agric. Live-stk. India*, V (5) pp. 503-521 (1935), ¹³ [Bionomics as egg-parasite of *Argyria sticticrasis*]. VAN VUUREN, L., *Ent. Meded. Ned.-Indië*, I (2) pp. 29-33 (1935), [Bionomics as egg-parasite of *Schoenobius bipunctifer* in Java]. HART, P. C., *Hand. 7 Ned.-Ind. natuurw. Cong.*, pp. 415-423 (1936), [Difficulty of utilising against *Scirpophaga intacta* in the Dutch East Indies]. PRUTHI, H. S., *Rep. Imp. Ent., Sci. Rep. Agric. Res. Inst., Pusa 1935-36*, pp. 123-137 (1937), [Egg-parasite of *Scirpophaga* in India]. RAMAKRISHNA & ANANTANARAYANAN, *Agric. Live-stk. India*, VII (2) pp. 171-179 (1937), [Bionomics as egg-parasite of *Schoenobius bipunctifer* in South India].
- Prophanurus beneficiens*, DE CHARMOY, D. D'E., *Ann. Rep. Dept. Agric., Colony of Mauritius for 1914 (1915)*, [Egg-parasite of *Sesamia vuteria* (= *nonagrioides*) in Mauritius]. SHIRAKI, *Agric. Expt. Sta. Govt. Formosa, Taihoku*, 1917, pp. 1-256

¹² Mysore : S. India.

¹³ Madras.

(1917), [Egg-parasite of *Chilo simplex*, *Diatraea venosata* & *Schoenobius incertellus* in Formosa].

beneficiens var. **elongatus** (Ishida).

Phanurus beneficiens var. *elongatus*, ISHIDA, *Proc. II Conf. Internat. Soc. Sugarcane Technol.*, pp. 78-79, Havana, Cuba Sugar Club (1927), [Introduced from Java into Formosa against *Scirpophaga*]. HAZELHOFF, E. H., *Jaarsversl. Proefsta. Java-Suikerind.*, 1928, pp. 96-111 (1929), [Bionomics as egg-parasite of *Scirpophaga intacta* in Java]. MORITSUGU, A., *Rep. Dept. Agric. Govt. Res. Inst. Formosa*, No. 50, pp. 1-56 (1931), [Bionomics as egg-parasite of *Scirpophaga nivella* in Formosa]. HAZELHOFF, E. H., *Arch. Suikerind. Ned.-Ind.*, III, pp. 361-463 (1931), [Bionomics as egg-parasite of *Scirpophaga intacta* in Java]. TAKANO, S., *J. Formosan Sug. Pl. Ass.*, XI (10) pp. 454-466 (1934), [Bibliography, host-list from Formosa].

colemani Crawford.

Telenomus colemani, CRAWF., *Proc. U. S. N. Mus.*, XLII, p. 2 (1920).¹ RAMAKRISHNA, *Bull. ent. Res.*, XVIII, p. 76 (1927), [Host : Eggs of *Dolycoris indicus*].¹Mysore.

cyrus Nixon.

Telenomus cyrus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 448 ♀ (1937).¹ [Host : Eggs of *Nezara viridula*].¹Lembang : Java.

dignoides Nixon.

Telenomus dignoides, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 463 ♀ ♂ (1937).¹ [Host : Eggs of *Scirpophaga auriflua* var. *intacta*].¹ Cheribon : Java.

dignus Nixon.

Telenomus dignus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 462 ♀ ♂ (1937).¹ [Hosts : Canton : China, Tandjeong : Java. Luzon : Philippines, *Schoenobius incertellus* and *Scirpophaga innotata*].¹

javensis Dodd.

- Telenomus javensis*, DODD, *Arch. Naturgesch.*, LXXX, A, (5) p. 163♀ (1914).¹ **¹ Java.**
 KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 40♀ (1926).¹ AHMAD T., *Indian J. agric., Sci.*, IX, p. 622., pl. XXVIII, fig. 7 (1939), [Hosts : Tineid in Java. Eggs of *Lixus truncatulus* in India]. **² Pusa : India.**

latisulcus Crawford.

- Telenomus latisulcus*, Crawford, RAMAKRISHNA, *Bull. ent. Res.*, XVIII, p. 76 (1927).² [Host : *Coptosoma cribraria*. Also bred from brood cells of *Xylocopa*]. **² Coimbatore, Mysore.**

lelus Nixon.

- Telenomus lelus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 450♀ (1937).¹ **¹ Kuala Lumpur : Malaya.**

lucullus Nixon.

- Telenomus lucullus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 451♀ (1937).¹ [Host : Eggs of a noctuid moth]. **¹ Java.**

manolus Nixon.

- Telenomus manolus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 454♀♂ (1937).¹ **¹ Kuala Lumpur. Malaya.**
 [Host : Lepidopterous egg on coffee]; **² Sumatra.**
ibid., (11) VI, p. 512 (1940).² [egg of some pest of *Uncaria gambir*].

mesillae (Cockerell).

- Hadronotus mesillae*, COCKERELL, *Canad. Ent.*, XXIX, p. 25 (1897). KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 464 (1926).
Telenomus mesillae, GAHAN, *Ann. ent. Soc. Amer.*, XXV, p. 757 (1932).¹ [Hosts : *Pentatoma ligata*, *P. sayi* & *Euchistus servus*]. **¹ New Mexico, Calxico. California.**
Telenomus ashmeadi, MORRILL, *Amer. Nat.*, XLI, p. 419♀♂ (1907).² BRUES, *Gen. Ins.*, fas. 80, p. 6 (1908). MORRILL, *Bull. Dept. Agric., Ent.*, No. 86, p. 62 (1910). **² Texas.**
 KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 48 (1926). MANI, *Rec. Indian Mus.*, XXXVIII, p. 335 (1936).³ [Identification only provisional]. **³ Pareshnath : Bengal.**

ochus Nixon.

- Telenomus ochus*, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 590 (1937).¹ [Host : *Oreta cornea*]. **¹ Sumatra.**

olynthus Nixon.

Telenomus olynthus, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 586 (1937),¹ [Host : Eggs probably of a pyralid on *Uncaria gambir*].¹ Sumatra.

otones Nixon.

Telenomus otones, NIXON, *Ann. Mag. Nat. Hist.*, (11) VI, pp. 510-512 ♀ (1940),¹ [Host : bred from eggs of eggs of *Tarucus theophrastus* Linn. on lac in company with *Telenomus pegasus* Nix.].¹ Namikum : Ranchi.

pegasus Nixon.

Telenomus pegasus, NIXON, *Ann. Mag. Nat. Hist.*, (11) VI, pp. 509-510 ♀♂ (1940),¹ [Host : bred from eggs of *Tarucus theophrastus* Linn. on lac in company with *Telenomus transversiceps* Nix. and *T. otones* Nix.].¹ Namikum : Ranchi.

periparetus Nixon.

Telenomus periparetus, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 588 (1937),¹ [Host : Eggs of a geometrid on *Uncaria gambir*].¹ Sumatra.

perplexus Nixon.

Telenomus perplexus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 470 ♀♂ (1937),¹ [Host : Lepidopterous eggs].¹ Ulu Sali Road : Malaya.

proditor Nixon.

Telenomus proditor, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 456 ♀ (1937),¹ [Host : Eggs of a moth on (?) *Gmelia arborea*].¹ Dehra Dun : United Prov.

remus Nixon.

Telenomus remus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 471 ♀♂ (1937),¹ [Host : *Spodoptera mauritia* & egg-masses probably of *Prodenia* sp. on *Pithecolobium saman*].¹ Malaya.

rowani (Gahan).

Phanurus rowani, GAHAN, *Philip. J. Sci.*, p. 106 (1925),¹ [Host : *Schoenobius incertellus*].¹ Luzon : Philippines.

Telenomus rowani, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 460 ♀♂ (1937),² [Host : *Schoenobius incertellus* & *Scirpophaga innotata* bred along with *Telenomus dignus*].² Java.

saccharicola Mani.

Telenomus saccharicola, MANI, *Indian J. Ent.*, III, p. 26 ♀ (1941),¹ [Host: Pentatomid on sugarcane].¹ Delhi.

sagei Mani.

Telenomus sagei, MANI, *Rec. Indian Mus.*, XXXVIII, p. 335 (1936),¹ [Host: Pentatomid].¹ Dharamsala: W. Himalayas.

sorus Nixon.

Telenomus sorus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 458 ♀ (1937),¹ [Host: Eggs of *Philo* sp.].¹ Malaya.

spodopterae Dodd.

Telenomus spodopterae, DODD, *Archiv Naturgesch.*, LXXX, A, (5) p. 164 ♀ (1914).¹ KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 40 (1926). [Host: *Spodoptera* sp. (?) on sugarcane].¹ Java.

tirathabae Ferrière.

Telenomus tirathabae, FERRIÈRE, *Stylops*, II, p. 106 (1933).¹ PAINE, R. W., *Bull. Dept. Agric. Fiji*, No. 18, pp. 1-30 (1935).² [Used in the control of *Tirathaba trichogramma*].¹ Buitenzorg; Java.
²Fiji.

transversiceps Nixon.

Telenomus transversiceps, NIXON, *Ann. Mag. Nat. Hist.*, (11) VI, pp. 506-508, figs. 13, 15, ♀♂ (1940),¹ [Host: eggs of *Tarucus theophrastus* Linn. on lac].¹ Namkum: Ranchi.

triptus Nixon.*

Telenomus triptus, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 452 ♀♂ (1937),¹ [Host: eggs of *Scotinophara coarctata*].¹ Kajang: Malaya.

usipetes Nixon.

Telenomus usipetes, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 584 (1938),¹ [Host: Eggs of *Hapalia machaeralis*].¹ Pyinmana: Toungoo; Myohla: Burma.

vandergooti Dodd.

Telenomus vandergooti, DODD, *Archiv Naturgesch.*, LXXX, A, (5) p. 164 ♀ (1914).¹ KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 40 (1926).¹ Java.

* Since the second proof of this catalogue left my hands, I have received specimens of this species from the Director, Zoological Survey of India, Calcutta, bred from eggs of *Scotinophara lurida* (Burn) in Ceylon (Note added in final proof).

4. *Aholcus* Kieffer. *

Aholcus, KIEFFER, in Alluad & Jeanel voy.
Afr. Or. Hymen., I. p. 4 (1933), [Genotype: *A. monticola* Kieff. ♀]; *Das Tierreich*, Lief. XLVIII, p. 117 (1926).
 NIXON; *Ann. Mag. Nat. Hist.*, (10) XX, p. 116 (1937), [Keys to Ceylonese and Malayan species].

Telenomus (*Aholcus*), NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, pp. 113-127 (1937), [Status and scope of genus discussed; considered to be of subgeneric rank only].

adenyus Nixon.

Telenomus (*Aholcus*) *adenyus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 122 ♀♂ (1937),¹ [Host: Eggs of a lepidopterous insect on lima beans]. ¹Peradynia : Ceylon.

euproctiscidis Mani.

Aholcus euproctiscidis, MANI, *Indian J. Ent.*, I, p. 95 ♀♂ (1939),¹ [Host: Eggs of *Euproctis lunata*]. ¹New Delhi.

incommodus Nixon.

Telenomus (*Aholcus*) *incommodus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 123 ♀♂ (1937),¹ [Host: Eggs of a Lepidopteron, the larva of which feeds on banana leaves]. ¹Batu Gajan : Malaya.

molochrus Nixon.

Telenomus (*Aholcus*) *molochrus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 117 ♀♂ (1937),¹ [Host: *Lenodora vittata*]. ¹Pussellawa : Ceylon.

stigis Nixon.

Telenomus (*Aholcus*) *stigis*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 125 ♀♂ (1937),¹ [Host: Eggs of *Acherontia styx*]. ¹Kuala Lumpur, Malaya.

talaus Nixon.

Telenomus (*Aholcus*) *talaus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 127 ♀♂ (1937),¹ [Host: Eggs of *Papilio agamemnon*]. ¹Kuala Lumpur : Malaya.

turbatae Nixon.

Telenomus (*Aholcus*) *turbatae*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 121 ♀♂ (1937),¹ [Host: *Orgyia turbata*]. ¹Kuala Lumpur : Malaya.

ulusalus Nixon.

Telenomus (*Aholcus*) *ulusalus*, NIXON, *Ann. Mag. Nat. Hist.*, (10) XX, p. 119 ♀♂ (1937),¹ [Host: Eggs of a Lepidopteron]. ¹Ulu Sali Road : Malaya.

* The student should consult Nixon [*Ann. Mag. Nat. Hist.*, (10) XX, pp. 116-117 (1937)] for key to the species recorded in this catalogue.

urios Nixon.

Telenomus (Aholcus) urios, NIXON, *Ann. Mag. Nat. Hist.*, (11) I, p. 591 (1938),¹
[Host : *Hidari irava*].

5. *Liophanurus* Kieffer.

Telenomus (partim), WALKER, *Ent. Mag.*, III, p. 348 (1836), ASHMEAD, *Bull. U. S. N. Mus.*, No. 45, p. 151 (1893).

Liophanurus, KIEFFER, in André, *Spec. Hymen. Eur.*, XI, p. 61 (1912),
[Genotype : *L. spilosomatis* (Ashm.) ♂];
Das Tierreich, Lief. XLVIII, p. 64 (1926).

saccharalis (Dodd).

Telenomus saccharalis, Dodd, *Canad. Ent.*, XLVI, p. 293 ♀ ♂ (1914).¹

Liophanurus saccharalis, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 71 ♀ ♂ (1926),²
[Host : Eggs of a Pentatomid on sugar-cane leaf].

6. *Microphanurus* Kieffer.*

Teleas (partim), NEES, *Hymen. Ichneum. affin. Monogr.*, II, p. 290 (1834). RATZBURG, *Ichneum.*, II, p. 142 (1848).

Telenomus (partim), THOMSON, *Öfv. Vet.-Akad. Förh.*, XVI, p. 170 (1860). MAYR, *Verh. Zool.-bot. Ges. Wein*, XXIX, p. 704 (1860) (?).

Aphanurus, (nec Loos 1907) KIEFFER, in André, *Spec. Hymen. Eur.*, XI, p. 69 (1912).

Microphanurus, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 91 (1926), [Genotype : *M. semistriatus* (Nees) ♀]. CHIOROMONTE, A., *Atti 1° Cong. Stud. colon.*, Firenze, 1931, reprint pp. 1-51 (1931), [Species from Italian Somaliland; Biology as egg-parasites of Rhynchota]. PRIESNER, H., *Bull. Soc. R. ent. Egypte*, 1931, fas. 3-4, pp. 137-139 (1931), [Bionomics of *M. megacephalus* Ashm. as egg-parasite of *Nezara viridula* in Egypt]. FOUTS, *Mem. Soc. ent. ital., Genoa*, XIII, p. 106 (1934), [Keys to Ethiopian species]. NIXON, *Trans. Roy. ent. Soc.*, LXXXIII, p. 96 (1935), [Keys to spp., Synonymies, etc.] ;

*The student should consult Nixon [*Ann. Mag. Nat. Hist.*, (ii) II, pp. 123-125 (1938)] for key to the species recorded in this catalogue.

Ann. Mag. Nat. Hist., (11) II, (8) pp.
122-139 (1938), [Monograph of Asiatic
species, keys, descriptions, etc.].

artabazus Nixon.

Microphanurus artabazus, NIXON, *Ann. Mag.
Nat. Hist.*, (11), II, p. 131♀♂ (1938),¹ ¹ Malaya.
[Host : Eggs of *Scotinophara* sp. and a
pentatomid].

barrowi (Dodd).

Telenomus barrowi, DODD, *Trans. Roy. ent. Soc.*, 1919, p. 356♀ (1920),¹ [Host : Eggs
of a sphingid]. ¹ Dalhousie : India.

carinifrons (Cameron).

Immsia carinifrons, CAMERON, *Indian For.
Rec.*, IV, p. 105 (1913).¹

Telenomus carinifrons, DODD, *Trans. Roy. ent. Soc.*, 1919, p. 355 (1920).² ^{1, 2, 3} Dehra Dun : India.

Microphanurus carinifrons, NIXON, *Ann.
Mag. Nat. Hist.*, (11) II, p. 138 (1938).³

priapus Nixon.

Microphanurus priapus, NIXON, *Ann. Mag.
Nat. Hist.*, (11) II, p. 133♀ (1938),¹ [Host :
Eggs of *Chrysocoris atricapillus*; also
bred in company with *Microphanurus
vindicius* Nix. from eggs of *Dasynus
manilae*]. ¹ Buitenzorg : Java.

seychellensis (Kieffer).*

Telenomus seychellensis, KIEFFER, *Bull. Soc.
ent. Fr.*, p. 294♀♂ (1910);¹ *Trans. Linn.
Soc. London*, (2) XV, p. 51 (1912). ¹ Seychelles Islands.

Microphanurus seychellensis, KIEFFER, *Das
Tierreich*, Lief. XLVIII, p. 105♀♂ (1926).
NIXON, *Trans. ent. Soc. London*,
LXXXIII, p. 97 (1935); *Ann. Mag.
Nat. Hist.*, (11) II, p. 125 (1938),²
[Hosts : *Cantheconidea robusta* Dist.,
Antestia orbitalis Westw. (= *variegata*
Thunb.), *Antestia orbitalis* var. *lineati-
collis* Stal *Agonoscelis pubescens* Thunb.
(= *versicolor* Fabr.)]. ² Passara : Ceylon;
Abyssinia to Cape in
Africa.

stoicus Nixon.

Microphanurus stoicus, NIXON, *Ann. Mag.
Nat. Hist.*, (11) II, p. 135♀ (1938).¹ ¹ Malaya.

*This is probably the species parasitic in the eggs of *Cantheconidea furcellata*
(Wolff) in the Madras Presidency.

striaticeps Dodd.

- Microphanurus striaticeps*, (Dodd) NIXON, ¹ Lyallpur : Punjab.
Trans. ent. Soc. London, p. 100 ² Nyasaland Br. Badan
 (1935); *Ann. Mag. Nat. Hist.*, (11) II, Nigeria, Cape ; Africa.
 p. 125 (1938)¹, [Host : Eggs of a penta-
 tomid on brinjal leaf¹; *Acanthomia bre-*
virostris Stal ²].

sulmo Nixon.

- Microphanurus sulmo*, NIXON, *Ann. Mag. Nat. Hist.*, (11) II, p. 126♀(1938)¹, [Host :
 Eggs of *Cantheconidea robusta* Dist.]. ¹ Talawakelle : Ceylon.

trophonius Nixon.

- Microphanurus trophonius*, NIXON, *Ann. Mag. Nat. Hist.*, (11) II, p. 127♀(1938), ¹ Asahan : Sumatra.
 [Host : Eggs of a reduvid on *Uncaria gambir*].

vindicus Nixon.

- Microphanurus vindicus*, NIXON, *Ann. Mag. Nat. Hist.*, (11) II, p. 128♀ (1938)¹. ¹ Buitenzorg : Java.

7. *Dissolcus* Ashmead.

- Dissolcus*, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 164, pl. iv, fig. 8 (1893), [Geno-
 type : *D. nigricornis* Ashm.♀]. DALLA
 TORRE, *Cat. Hymen.*, V, p. 512 (1898).
 ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 87
 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 11
 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p.
 105 (1910); *Das Tierreich*, Lief. XLVIII,
 p. 124 (1926).

indicus Mani.

- Dissolcus indicus*, MANI, *Rec. Indian Mus.*, XXXVIII, p. 335 (1936).¹ ¹ Calcutta.

Subfamily II. BAEINAE.

- Scelioninae* (partim), DALLA TORRE, *Cat. Hymen.*, V, p. 494 (1898).

- Baeini*, ASHMEAD, *Bull. U. S. N. Mus.*, No. 45, p. 167 (1893).

- Baeinae*, ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 88 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 14 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 100 (1910); *Das Tierreich*, Lief. XLVIII, p. 132 (1926).

Key to genera

- Second abdominal tergite longest ; marginal and stigmal veins
 obsolete *Aneurobaeus*.
 Second abdominal tergite not the longest but the third is so ;
 marginal and stigmal veins developed *Dissacolus*.

8. *Aneurobaeus* Kieffer.

Baeus (partim), BUGNION & POPOFF, *Rev. Suisse Zool.*, XVIII, p. 731 (1910), [err. nom. Haliday 1833].

Aneurobaeus, KIEFFER, in André, *Spec. Hymen. Eur.*, XI, pp. 87, 91 (1912), [Genotype : *A. apterus* (Bugn. & Pop.)]; *Das Tierreich*, Lief. XLVIII, p. 134 (1926).

apterus (Bugnion & Popoff).

Baeus apterus, BUGNION & POPOFF, *Rev. Suisse Zool.*, XVIII, p. 731, pl. v, fig. 1-9 ♀♂(1910).¹

Aneurobaeus apterus, KIEFFER, in André, ¹, ², ³ *Ambalagnoda* : *Spec. Hymen. Eur.*, XI, p. 91 (1912);² Ceylon. *Das Tierreich*, Lief. XLVIII, p. 134 ♀♂ (1926).³

9. *Dissacolus* Kieffer.

Acolus (partim), DODD, *Proc. roy. Soc. Queensland*, XXVI, p. 127 (1914).

Dissacolus, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 155 (1926), [Genotype : *D. bidentatus* (Dodd) ♀].

lakshmani Mani.

Dissacolus lakshmani, MANI, *Indian J. Ent.*, ¹ Delhi. I, p. 96♂ (1939),¹ [Host : Eggs of a spider on sugarcane leaf].

Subfamily III. TELEASINAE.*

Scelioninae (partim), DALLA TORRE, *Cat. Hymen.*, V, p. 494 (1898).

Teleasini, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 180 (1893).

Teleasinae, ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 89 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 18 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 91 (1910); *Das Tierreich*, Lief. XLVIII, p. 173 (1926). DODD, *Proc. Linn. Soc. N. S. Wales*, LV, pp. 41-91 (1930), [Revision of Australian Forms].

* No Indian form has so far been described.

Subfamily IV. SCELIONINAE.

Scelionidae (partim), FÖRSTER, *Hymen. Stud.*,
II, p. 27 (1856).

Scelionini, THOMSON, *Öfv. Vet.-Akad. Förh.*,
XV, p. 417 (1858). ASHMEAD, *Bull. U. S.*
N. Mus., No. 45, p. 208 (1893).

Scelioninae, ASHMEAD, *Bull. U. S. N. Mus.*,
No. 45, p. 136 (1893). DALLA TORRE,
Cat. Hymen., V, p. 494 (1898).
ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 90
(1903). BRUES, *Gen. Ins.*, fas. 80, p. 26
(1908). KIEFFER, *Gen. Ins.*, fas. 80 B,
p. 62 (1910); *Das Tierreich*, Lief. XLVIII,
p. 264 (1926).

Key to genera.

1. Antennæ with 10 segments 2
- Antennæ with 12 segments 3
2. Mesonotum not dentate, at the most with two longitudinal
furrows; postmarginal vein short or undeveloped . . . *Scelio* ♂.
3. Body flat, specially the head and thorax depressed, scape
of antenna flattened and greatly expanded distally . . . *Platyscelio*.
Body not as described above 4
4. Upper part of face with one to three transverse curved
lamellæ *Sparasion*.
Upper part of face without such a lamellæ 5
5. Scutellum with two thorns or teeth or margins behind;
fore wings without pterostigma, median segment with
one thorn or tooth in the middle; parapsidal furrows
obsolete; marginal vein very much shorter than stigmal
vein *Hadronotoides*.
Scutellum neither toothed nor spined nor margined as des-
cribed above; at least fore wings with submarginal and
often marginal and stigmal veins; fore wings not nar-
rowed basally 6
6. Metanotum almost as long as scutellum or longer, median
segment lamellate; marginal vein of fore wings nearly
punctiform 7
Metanotum not as described above 8
7. Parapsidal furrows well developed, with a distinct longi-
tudinal line between them, metanotum rounded be-
hind; fore wings with basal, medial, cubital and dis-
coidal veins, postmarginal vein absent *Oxytelio*.
8. Mesonotum with longitudinal line or furrow or with two
anteriorly converging lines between the parapsidal fur-
rows or only the scutellum with a median longitudinal
line 9
Mesonotum without such lines or furrows or even the para-
psidal furrows 12
9. Mesonotum with three longitudinal furrows 10
Mesonotum with two longitudinal furrows 11

10. Postmarginal vein longer than stigmal vein; metanotum with one or two teeth; eyes not pubescent; a crina connects the tegula with fore coxa *Hoploteleia*.
11. Metanotum normal, mesonotum with a median carina or without such a carina when the scutellum has one median carina; subcostal vein arched and widely separated from anterior margin of wing, marginal vein punctiform *Dieroteleia*.
12. Subcostal vein reaching the anterior margin of wing; segments of abdomen normal 13
13. Marginal vein often replaced by pterostigma, postmarginal vein absent; abdominal tergites transverse 14
- Wings without pterostigma, postmarginal vein developed or absent 17
14. Metanotum with one lamella or thorn or also with two teeth 15
- Metanotum unarmed 16
15. Metanotum with one transverse bilobed lamella *Lepidoscelio*.
16. Eyes not pubescent, antennæ with a 6-9-jointed club; abdomen sessile; prothorax elongate *Scelio* ♀
17. Sixth abdominal tergite of female not much smaller than fifth; fore wings without a distinct vein-enclosed median cell 18
18. Metanotum or the middle of median segment with two teeth 19
- Metanotum or the middle of median segment with one often trilobed tooth or two-jointed apical process 22
- Metanotum or the middle of median segment unarmed 23
19. Parapsidal furrows absent or indicated only posteriorly; scutellum rounded posteriorly 20
20. Postmarginal vein absent; first and second abdominal tergites transverse *Dicroscelio*.
- Postmarginal vein longer than stigmal vein 21
21. First abdominal tergite short; parapsidal furrows developed posteriorly; median segment with one tooth at the posterior angles *Sceliacantha*.
22. Postmarginal vein well developed; eyes pubescent; first abdominal tergite with horn in female; parapsidal furrows absent *Probaryconus*.
23. Postmarginal vein at the most as long as the stigmal vein. 24
24. Parapsidal furrows absent, at the most indicated by a faint spur only 25
- Parapsidal furrows distinct 31
25. Abdomen short, at the most as long as the rest of body, all tergites strongly transverse 26
- Abdomen longer than the rest of body or at least equal, when all the tergites are not transverse 28
26. Marginal vein shorter than postmarginal, often punctiform 27
27. Body broad, second abdominal tergite longer than third . *Hadronotus*.
- Body slender, second abdominal tergite shorter than third. *Psiloteleia*.

28. Eyes not pubescent; first abdominal tergite with horn in the female; marginal vein shorter than stigmal; second abdominal tergite shorter than third *Pegoteleia*.
 Eyes pubescent 29
29. Marginal vein punctiform or shorter than stigmal; first abdominal tergite elongated; postmarginal vein not distinctly longer than stigmal 30
30. Abdomen with one horn anteriorly in the female . . . *Baryconus*.
 Abdomen arched dorsally and ventrally *Rhacoteleia*.

10. *Sparasion* Latreille.

Sparasion, LATREILLE, *Hist. Crust. Ins.*, III, p. 315 (1802), [Genotype: *S. frontalis* Latr.]; *ibidem*, XIII, p. 230 (1805); *Gen. Crust. Ins.*, IV, p. 34 (1809). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 93 (1903). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 69 (1900); *Das Tierreich*, Lief. XLVIII, p. 282 (1926).

Ceraphron (partim), JURINE, *Nouv. Méth. Class. Hymen.*, p. 303 (1807).

Scelio, (partim), SPINOLA, *Ann. Mus. Hist. Nat.*, XVII, p. 150 (1811).

Oxyurus, LAMARCK, *Hist. Nat. Anim. s. Vert.*, XIV, p. 129 (1817).

Sparasion, BRUES, *Gen. Ins.*, fas. 80, pp. 29, 41, 58 (1908).

Key to species

- With parapsidal furrows, though indicated only posteriorly but deep *S. albopilosellus*.
 Without parapsidal furrows *S. formosus*.

albopilosellus Cameron.

Sparasion albopilosellus, CAMERON, J. ^{1, 2} Quetta. *Bombay Nat. Hist. Soc.*, XVII, p. 98 ♂ (1906).¹ KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 292 (1926).²

formosus Kieffer.

Sparasion formosum, KIEFFER, *Bull. Soc. ent. Fr.*, p. 311 ♂ (1910);¹ *Gen. Ins.*, fas. 80 B, p. 69 (1910).²

Sparasion formosus, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 294 ♂ (1926).³ ^{1, 2, 3} Malacca.

11. *Scelio* Latreille.

SYSTEMATIC.

- Scelio*, LATREILLE, *Hist. Nat. Crust. Ins.*, XIII, p. 227 (1805), [Genotype: *S. rugosulus* Latr. ♂]. FÖRSTER, *Hymen. Stud.*, II, p. 102 (1856). DALLA TORRE, *Cat. Hymen.*, V, p. 494 (1898). ASHMEAD *J. N. Y. ent. Soc.*, XI, p. 93 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 43 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 72 (1910); *Das Tierreich*, Lief. XLVIII, p. 308 (1926). DODD, *Proc. Roy. Soc. Queensland*, XXXVIII, pp. 127-175 (1926), [Australian forms].
- Cynipsillum* (partim), LAMARCK, *Hist. Nat. Anim. s. Vert.*, IV, p. 158 (1817).
- Serlion*, SAY, *Contr. Maclur. Lyc. Arts & Sci., Philad.*, I, p. 80 (1828).
- Bethylus* (partim) BLANCHARD, in Cuvier, *Régne Anim.*, (ed. 4) *Ins.*, II, p. 116 (1849).
- Aleria*, MARSHALL, *Ent. Month. Mag.*, X, p. 208 (1874).
- Caloptenobia*, RILEY, *Rep. U. S. Ent. Comm.*, I, p. 306 (1878).
- Acerota*, PROVANCHER, *Addit. Hymen. Quebec*, p. 184 (1887).

BIOLOGICAL.

- Scelio*, NIKOLSKI, V. V., *State Inst. Expt. Agron., Trans. Dept. Appl. Ent.*, XII (2) pp. 1-330 (1924), [Bionomics as egg-parasite of *Locusta migratoria*]. LUK'YANOVICH, F. K., *Protect. Plants Ukraine*, 1925 (5-6) pp. 51-53 (1925), [Bionomics as egg-parasite of *Locusta migratoria* in Ukraine]. OGLOBIN, A. A., *Bull. ent. Res.*, XVII (4) pp. 393-404 (1927), [*Scelio uvarovi* Ogl., parasitic on eggs of *Locusta migratoria phaeo-danica* in Ukraine and *S. nikolskyi* Ogl., parasitic on eggs of *L. migratoria* in Turkestan; correction to Kieffer's generic description of *Scelio* Latr., that the maxillary palpi are 3-articulate]. PREDTECHENSKII, I. A.,

Comment. Inst., astrachen. Defens. Plant., II (1) pp. 1-115 (1928), [Bionomics as egg-parasite of *L. migratoria* in Lower Volga region; in Russian with an English summary]; *Izv. otd. prikl. Ent.*, III (2) pp. 113-199 (1928), [*S. uvarovi* Ogl., as an egg-parasite of *L. migratoria* in Central Russia]. D(AMPF), A., *Biol. mens. Defensa agric. Sec. Agric. Fom. Mexico*, III, (1-4) pp. 1-18 (1929),* [*Scelio fuscipennis* Ashm., as an egg-parasite of the Mexican migratory locust *Schistocerca paranensis*]. FERRIERE, *Bull. ent. Res.*, XXI, pp. 33-44. (1930), [*S. zolotarevskyi* Ferr. as an egg-parasite of *L. migratoria migratorioides* from Madagascar]. YAZUIKOV ZAKHVATKIN, A.A., *Bull. ent. Res.*, XXII, pp. 385-391 (1931), [Bionomics of *S. nikolskyi* as an egg-parasite of locusts in Turkestan]. WILLIAMS, F. X., *Rep. Comm. Expt. Sta. Hawaii. Sugar Pl. Ass.*, 1935, pp. 1-17 (1936), [*S. pembertonii* liberated against *Oxya chinensis* on sugarcane in Hawaii]. WONG (CHI-YU), *Ent. Phyt.*, III (21) pp. 418-421 (1935), [*S. uvarovi* as an egg-parasite of *L. migratoria* in China].

acte Walker.

Scelio acte, WALKER, *Ann. Mag. Nat. Hist.*, XVII, p. 185♀ (1846).¹ DALLA TORRE, *Cat. Hymen.*, V, p. 494 (1898). BRUES, *Gen. Ins.*, fas. 80, p. 43 (1908). KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 322 (1926). ¹ Bombay.

calcuttaensis Mani.

Scelio calcuttaensis, MANI, *Rec. Indian Mus.*, XXXVIII, p. 337♀ (1936).¹ ¹ Calcutta.

hieroglyphi Timberlake.

Scelio hieroglyphi, TIMBERLAKE, *Proc. Hawaii. ent. Soc.*, VIII, p. 157 (1932).¹ [Host: Eggs of *Hieroglyphus banian*]. ¹ Coimbatore.

horai Mani.

Scelio horai, MANI, *Rec. Indian Mus.*, XXXVIII, p. 336♀ (1936).¹ ¹ Chakradharpur.

* Not seen in original.

oxyae Timberlake.

Scelio oxyae, TIMBERLAKE, *Proc. Hawaii. ent. Soc.*, VIII, p. 158 (1932),¹ [Host: Eggs of *Oxya velox*]. RAMACHANDRA RAO, Y., *Rep. Proc. IV Ent. Meet. Pusa*, pp. 41-42 (1921),² [Bionomics as an egg-parasite of *Oxya velox* in South India].^{1, 2} Coimbatore.

paivai Mani.

Scelio paivai, MANI, *Rec. Indian Mus.*, XXXVIII, p. 336 (1936).¹ On board ship off Coconada.

pembertoni Timberlake.

Scelio pembertoni, TIMBERLAKE, *Proc. Hawaii. ent. Soc.*, VIII, pp. 153-162 (1932).¹ PEMBERTON, *Hawaii. Plant. Rec.*, XXXVII (1) pp. 7-9 (1933), [Introduction from Malaya into Hawaii against *Oxya velox*]; *Proc. Hawaii. ent. Soc.*, VIII, p. 253-264, pl. xv-xvi, figs. 1-15 (1933), [Bionomics]. WILLIAMS, F. X., *Rep. Comm. Expt. Sta. Hawaii. Sugar Pl. Ass.*, 1935, pp. 17-25 (1936), [Liberations in Hawaii against *Oxya velox* on sugarcane].¹ Selangor: Malaya.

serdangensis Timberlake.

Scelio serdangensis, TIMBERLAKE, *Proc. Hawaii. ent. Soc.*, VIII, pp. 153-162 (1932).¹ PEMBERTON, *Hawaii. Plant. Rec.*, XXXVII (1) pp. 7-9 (1933), [Introduction into Hawaii from Malaya against *Oxya velox*].¹ Serdang: Malaya.

12. **Lepidoscelio** Kieffer.

Lepidoscelio, KIEFFER, *Ann. Soc. Sc. Bruxelles*, XXIX, p. 129 (1905), [Genotype: *L. fuscipennis* Kieff. ♀].¹ BRUES, *Gen. Ins.*, fas. 80, p. 30 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 72 (1910); *Das Tierreich*, Lief. XLVIII, p. 348 (1926).

viatrix Brues.

Lepidoscelio viatrix, BRUES, *Proc. U. S. N. Acad. Sci., Washington*, III (2) p. 139, fig. 1 (1917);¹ *Psyche*, XXIV, p. 196 (1917),¹ [Host: eggs of *Colemania sphenarioides* Bot.].^{1, 2} S. India.

13. *Oxyscelio* Kieffer.

Oxyscelio, KIEFFER, *Zeitschr. Hymen. Dipt.*, VII, p. 310 (1907), [Genotype: *O. foveatus* Kieff. ♀]. BRUES, *Gen. Ins.*, fas. 80, p. 46 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 68 (1910); *Das Tierreich*, Lief. XLVIII, p. 361 (1926). DODD, *Proc. Roy. Soc. Queensland*, XLII, pp. 72, 14 (1931), [Characters, list of spp., synonymy: = *Dicroteleia* Kieff. *Camptoteleia* Kieff. = *Xenoteleia* Kieff.].

foveatus Kieffer.

Oxyscelio foveatus, KIEFFER, *Zeitschr. Hymen. Dipt.*, VII, p. 310 ♀ (1907).¹ Java. BRUES, *Gen. Ins.*, fas. 80, p. 46 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 68 (1910); *Das Tierreich*, Lief. XLVIII, p. 361 ♀ (1926).

14. *Hoploteleia* Ashmead.

Baryconus (partim) (non Förster), ASHMEAD, *Ent. Amer.*, III, p. 118 (1887).

Hoploteleia, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 227 (1893), [Genotype: *H. floridana* (Ashm.) ♀♂]. DALLA TORRE, *Cat. Hyme.*, V, p. 499 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 94 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 29 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 71 (1910); *Das Tierreich*, Lief. XLVIII, p. 365 (1926). DODD, *Proc. Roy. Soc.*, XL, pp. 39-50 (1929), [Australian species].

gravelyi Mani.

Hoploteleia gravelyi, MANI, *Rec. Indian Mus.*, XXXVIII, p. 469 ♂♂, (1936);¹ *Indian J. Ent.*, I, p. 96 fig. 10 ♂ (1939),² [Host: Unknown grass-hopper eggs].¹ Madras. ² Cuttack, Coimbatore.

15. *Dicroteleia* Kieffer.

Macroteleia (partim), ASHMEAD, *J. Linn. Soc. London*, XXV, p. 222 (1894).

Prosanteris (partim), KIEFFER, *Ann. Soc. Sci. Bruxelles*, XXXII, p. 136 (1908). BRUES, *Gen. Ins.*, fas. 80, p. 51 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 88 (1910), [Subgen. under *Trichanteris*].

Dicroteleia, KIEFFER, Not. Leyden Mus., XXX, p. 92 (1908), [Genotype: *D. rugosa* Kieff.♂]; *Gen. Ins.*, fas. 80 B, 68 (1910), [subgen. under *Oxyscelio*]; *Das Tierreich*, Lief. XLVIII, p. 387 (1926).

rugosa Kieffer.

Dicroteleia rugosa, KIEFFER, Not. Leyden Mus., XXX, p. 92♂(1908);¹ *Das Tierreich*, Lief. XLVIII, p. 388♀ (1926). ¹ Java.

Oxyscelio (*Dicroteleia*) *rugosa*, KIEFFER, *Gen. Ins.*, fas. 80 B, p. 68 (1910).

16. *Sceliacantha* Dodd.

Sceliacantha, DODD, Arch. Naturgesch., LXXIX, A (6) p. 173 (1913), [Genotype: *S. quadrispinosa* Dodd♂]. KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 412 (1926).

subplana Dodd.

Sceliacantha subplana, DODD, Trans. ent. Soc. London, p. 336 (1920).¹ ¹ Ceylon.

17. *Psiloteleia* Kieffer.

Psiloteleia, KIEFFER, in Voeltzkow, Reis. in Ostafrika, 1903-1905, wissenschaft. Ergebn., II, p. 53 (1910), [Genotype: *B. striatigena* Kieff.♂]; *Gen. Ins.*, fas. 80 B, p. 82 (1910); *Das Tierreich*, Lief. XLVIII, p. 451 (1926).

montana (Kieffer).

Hadronotus montanus, KIEFFER, Ann. Soc. Sci. Bruxelles, XXXII, p. 45♂(1908).¹ ¹ Matheran.
BRUES, *Gen. Ins.*, fas. 80, p. 51 (1908).
KIEFFER, *Gen. Ins.*, fas. 80 B, p. 81 (1910).

Psiloteleia montana, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 452♂ (1926).

18. *Hadronotus* Förster.

Teleas (partim), NEES, Hymen. Ichneum. affin. Monogr., II, p. 290 (1834).

Hadronotus, FÖRSTER, Hymen. Stud., II, pp. 101, 105 (1856), [Genotype: *H. laticeps* (Först.) Kieff.♀].* ASHMEAD, Bull. U. S. N. Mus., XLV, p. 229 (1893).

* Brues designates *H. exsculptus* Först. ♀ as type instead of *H. laticeps* (Först.) but it was not described until 1908 (Kieffer, Ann. Soc. Sc. Brux., XXXII, p. 144).

DALLA TORRE, *Cat. Hymen.* V, p. 498 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 92 (1903). BRUES, *Gen. Ins.*, fas. 80, pp. 37, 51 (1908). KIEFFER, *Gen. Ins.*, fas. 80B, p. 81 (1910); *Das Tierreich*, Lief. XLVIII, p. 453 (1926).

Telenomus (partim), ASHMEAD, *Bull. U. S. Depart. Agric., Ent.*, No. 14, p. 23 (1887).

Telenomoides, DODD, *Trans. roy. Soc. S. Australia*, XXXVIII, p. 129 (1914).

Hadronotellus, KIEFFER, *Ent. Meded.*, XI, p. 341 (1917).

Hadronotus, NIXON, *Stylops*, III (1), pp. 1-5 (1934), [Javanese spp., *H. oophagus* Nix. from a Coreid, and *H. leptocorisae* Nix. from *Leptocorisa acuta*].

dasyni Nixon.

Hadronotus dasyni, NIXON, *Stylops*, III, p. 2 ¹Java. (1934).¹

homoceri Nixon.

Hadronotus homoceri, NIXON, *Stylops*, III, ¹Java. p. 4 (1934).¹

javensis Dodd.

Hadronotus javensis, DODD, *Arch. Naturgesch.*, LXXX, A, (5), p. 162, ♀. (1914).¹ ¹Java.
KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 460 (1926), [bred from eggs of a Tineid moth (?) (probably a pentatomid bug) on sugarcane].

19. *Hadronotoides* Dodd.

Hadronotus (partim), DODD, *Trans. roy. Soc. S. Australia*, XXXVII, pp. 154, 178 (1913).

Hadronotoides, DODD, *Arch. Naturgesch.*, LXXIX, A (6), p. 171 (1913), [Genotype: *H. pentatomus* (Dodd) ♀ ♂]. KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 474 (1926).

rugostriatus Dodd.

Hadronotoides rugostriatus, DODD, *Trans. ent. Soc. London*, p. 365 (1920).¹ ¹Ceylon.

20. *Rhacoteleia* Cameron.

Rhacoteleia, CAMERON, *Spol. Zeyl.*, III, p. 72 (1905), [Genotype: *R. pilosa* Cam. ♀ ♂]. KIEFFER, *Gen. Ins.*, fas. 80 B, p. 85 (1910); *Das Tierreich*, Lief. XLVIII, p. 476 (1926).

pilosa Cameron.

Rhacoteleia pilosa, CAMERON, *Spol. Zeyl.*, III, p. 73 ♀ ♂ (1905).¹ KIEFFER, *Gen. Ins.*, fas. 80 B, p. 85 (1910); *Das Tierreich*, Lief. XLVIII, p. 476 ♀ ♂ (1926). ¹Peradeniya: Ceylon.

21. *Baryconus* Förster.

Baryconus, FÖRSTER, *Hymen. Stud.*, II, pp. 101, 104 (1856), [Genotype: *B. ruficeps* Kieff] ♀. DALLA TORRE, *Cat. Hymen.* V, p. 501 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 91 (1903). BRUES, *Gen. Ins.*, fas. 80, p. 31 (1908). KIEFFER, *Gen. Ins.*, fas. 80 B, p. 84 (1910); *Das Tierreich*, Lief. XLVIII, p. 480 (1926).

pictus Dodd.

Baryconus pictus, DODD, *Trans. ent. Soc. London*, p. 335 (1919).¹ ¹Ceylon.

22. *Probaryconus* Kieffer.

Baryconus subgen. *Probaryconus*, KIEFFER, *Ann. Soc. Sc. Bruxelles*, XXXII, pp. 118, 165 (1908); *Gen. Ins.*, fas. 80 B, p. 84 (1910), pl. iii, figs. 16, 26.

Probaryconus, KIEFFER, in André, *Spec. Hymen. Eur.*, XI, p. 323 (1914), [Genotype: *P. spinosus* (Kieff.) ♀]; *Das Tierreich* Lief. XLVIII, p. 484 (1926).

indicus (Kieffer).*

Baryconus indicus, KIEFFER, *Zeitschr. Hymen. Dipt.*, VII, p. 311, ♀ (1907).¹ ¹Semarong: Java. Brues, *Gen. Ins.*, fas. 80, p. 31 (1908).

Baryconus (Probaryconus) indicus, KIEFFER, *Gen. Ins.*, fas. 80 B, p. 84 (1910).

Probaryconus indicus, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 485 ♀ (1926).

* Since the second proof of this Catalogue left my hands, I have seen specimens of this species bred from the eggs of an unknown grass-hopper at Poona (Note added in final proof).

23. *Pegoteleia* Kieffer.

Caloteleia (partim) (nec. Westwood) ASHMEAD,
Bull. U. S. N. Mus., No. XLV, p. 212
 (1893).

Ceratoteleia (partim), KIEFFER, *Ann. Soc. Sc.
 Bruxelles*, XXXII, p. 121 (1908). DODD,
Trns. roy. Soc. S. Australia, XXXVII,
 p. 140 (1913).

Baryconus (partim), KIEFFER, *Bull. Soc. ent.
 France*, p. 294 (1910).

Pegoteleia, KIEFFER, *Das Tierreich*, Lief.
 XLVIII, p. 510 (1926), [Genotype: *P.
 caloptera* (KIEFF.)♀].

rufipes (Cameron).

Caloteleia rufipes, CAMERON, *Indian For.
 Rec.*, IV, p. 13, ♀, (1913).¹

¹Dehra Dun.

Pegoteleia rufipes, KIEFFER, *Das Tierreich*,
 Lief. XLVIII, p. 511 ♀ (1926).

24. *Platyscelio* Kieffer.

Platyscelio, KIEFFER, *Ann. Mus. civ. stor. Nat.
 Genova*, XLII, p. 11 (1905), [Genotype:
P. pulchricornis Kieff. ♀]. BRUES, *Gen.
 Ins. fas.* 80, p. 40 (1908). KIEFFER, *Gen.
 Ins.*, fas. 80 B, p. 66 (1910); *Das Tier-
 reich*, Lief. XLVIII, p. 553 (1926).
 BRUES, *Psyche*, XXIX, p. 21 (1922),
 [Notes].

punctatus Kieffer.

Platyscelio punctatus, KIEFFER, *Insecta*,
 III, p. 321, ♂, (1913)¹; *Das Tierreich*,
 Lief. XLVIII, p. 555, (1926). MANI,
Rec. Indian Mus., XXXVIII, p. 337 ♂
 (1936).²

¹Luzon: Philippines.

²Puri: Orissa.

Subfamily V. PLATYGASTERINAE.

Cynipsea (partim), LATREILLE, *Gen. Crust.
 Ins.*, IV, p. 31 (1809).

Platygastres (partim), LATREILLE, *Ent. Mag.*,
 I, p. 269 (1833).

Platygasteroidae, FÖRSTER, *Hymen. Stud.*, II,
 pp. 20, 28, 106 (1856). ASHMEAD, *Bull.
 U. S. N. Mus.*, XLV pp. 24, 27, 247
 (1893).

Sparasionidae (partim), DAHLBOM, *Öfv. Akad. Förh.*, XIV, p. 290 (1858).

Platygasterini, THOMSON, *Öfv. Akad. Förh.*, XVI, p. 69 (1859).

Platygasterinae, DALLA TORRE, *Cat. Hymen.*, V, p. 469 (1898).

Platygasteridae, MARSHALL, *Cat. Brit. Hymen. Oxyura*, p. 17 (1873). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 94 (1903), [tables of genera]. BRUES, in Viereck's *Hymen. Conn.*, *Bull. Connecticut St. Geol. Nat. Hist. Surv.*, No. 22, p. 531 (1916), [Connecticut spp.]; *Bull. Mus. Compar. Zool. Harvard Coll.*, LXXIII, pp. 494, 501 (1932). FOUTS, *Bull. Bishop Mus., Honolulu*, CXIV, pp. 327-331, figs. 10 (1935), [Marquesas spp.].

Platygasterinae, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, pp. 24, 27, 247 (1893). KIEFFER, *Centralbl. Bakt. Parasit. Infektionskrank.*, (2) XLVI, pp. 547-592 (1916), [Notes on the *Platygasterinae* and their life-histories]; *Brotéria* (Ser. Zool.), XV, pp. 68-69 (1921), [a species parasitic on a cynipid]; *Ann. Soc. cient. Argent.*, XCI, pp. 36-41, figs. 2 (1921); *ibid.*, XCIV, pp. 205-208, figs. 3 (1922), [Argentine spp.]. FOUTS, *Proc. U. S. N. Mus.*, LXIII, art. 150, pp. 1-145 (1924), [revision of N. American forms]. KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 557 (1926), [tables and descriptions of genera and species of the world.]. GAHAN, *Misc. Pub., U. S. Depart. Agric. Washington*, No. 174, pp. 1-147, figs. 32 (1933), [Morphology and biology of American *Platygaster* spp.].

Key to genera.

1. Fore wings with one closed basal cell or with a distinct, distally knobbed subcosta, which does not reach the anterior margin of wings 2
- Fore wings without a distinct vein, often with only a spur of subcosta, not thickened apically; tarsi 5-jointed . . . 5
2. Tarsi 5-jointed; fore wings with a subcosta not reaching the anterior margin, without cubital, radial or discoidal; often also without medial or basal 3
3. Scape normal not broadened medially; abdomen in the female with or without horn 4

- 4. Antennae with ten segments in both the sexes, without verticillate hairs; subcosta straight; fore tibial spur trifurcate, not combed; first abdominal tergite with a horn, often reaching forward to the head; maxillary palpus biarticulate; lateral ocelli separated from the front ocellus wider than from the eye border; labial palpus uniarticulate *Inostemma*.
- 5. Scape of antennae without a lamellate expansion; scutellum unarmed or with only one tooth on the hind margin; abdominal segments normal (the last three segments in the female not tubular), first abdominal tergite in the male shorter than the second; scutellum much shorter than mesonotum, without a nipple 6
- 6. Scutellum elongated behind or with one thorn or process or hocker 7
- Scutellum distinctly semicircular, flat or arched; not long, without processes 9
- 7. Mesonotum long with four longitudinal furrows, the two median furrows converging behind; abdomen long, spindle-shaped *Anectadius*.
- Mesonotum at the most with two longitudinal furrows, abdomen in the female not elongate 8
- 8. Antennae with ten segments; parapsidal furrows deep, parallel behind; club absent in the female, the two terminal antennal segments distinctly separate from each other *Xestonotidea*.
- 9. Abdomen with 6 or 7 tergites; antennae in the female with eight segments 10
- Abdomen with 6 or 7 tergites; antennae in the female and male with ten segments 11
- 10. Antennal club uniarticulate; fore tibial spur bifurcate and combed; scutellum arched *Amitus*.
- 11. Scutellum arched, head without a strong process between the antennae but with only the usual weak carina; two terminal antennal segments distinctly cut, four to nine segments not all equal; eyes not pubescent; maxillary palpus biarticulate, labial palpus uniarticulate 12
- 12. Labial palpus long 13
- Labial palpus short, transverse 15
- 13. Abdomen in the female not elongate and narrow, with at the most only the two posterior-most tergites long 14
- 14. Scutellum posteriorly with one short, thick hair bundle pointed above and backwards *Trichacis*.
- Scutellum without such hair-bundle; rounded behind, with often one hairy groove before; body coarsely sculptured *Polygontus*.
- 15. The two posterior abdominal tergites transverse or at the most the last is elongate *Platygaster*.

25. *Inostemma* Haliday.

Psilus (partim), JURINE, *Nouv. Méth. Hymen.*,
p. 318 (1807).

Platygaster (partim), LATREILLE, *Gen. Crust.*
Ins., IV, p. 31 (1809).

Inostemma, HALIDAY, *Ent. Mag.*, I, p. 270 (1833), [Genotype: *I. boscii* (Jur.)♀].
DALLA TORRE, *Cat. Hymen.*, V, p. 490 (1898). BRUES, *Bull. Conn. St. Geol. Nat. Hist. Surv.*, No. 22, p. 532 (1916).
KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 579 (1926).

indica Mani, sp. nov.

Inostemma indica MANI. This species was bred by me (10-5-1931), from the larvae of *Neolasioptera cephalandrae* Mani (Itonididae: Diptera), producing galls on stem of *Coccinia indica*.¹ Abdominal horn almost equal to abdomen; second tergite almost equal to the remaining tergites combined, its greatest width more than its length; propodeum laterally with its margin 4-dentate; metatarsus longer than succeeding three tarsal segments combined. Type ♀ dissected, on slide in Imperial Pusa Collection, New Delhi.

¹Tanjore: S. India.

26. *Anectadius* Kieffer.

Anectadius, KIEFFER, *Ann. Soc. sc. Bruxelles*, XXIX, p. 187 (1905), [Genotype: *A. striolatus* Kieff. ♀♂]; *Das Tierreich*, Lief. XLVIII, p. 607 (1926).

Key to species.

Frons and occiput transversely striped; at least the first two abdominal tergites are longitudinally striated	<i>A. striolatus</i> .
Frons and occiput smooth, abdomen not striate	<i>A. bengalensis</i> .

bengalensis Kieffer.

Anectadius bengalensis, KIEFFER, *Ann. Soc. sc. Bruxelles*, XXIX, p. 189♀ (1905);¹ *Das Tierreich*, Lief. XLVIII, p. 609♀ (1926),² [bred from midges in galls of *Artemisia*].

^{1,2} Kurseong.

striolatus Kieffer.

Anectadius striolatus, KIEFFER, *Ann. Soc. sc. Bruxelles*, XXIX, p. 187 ♀♂ (1905);¹ *Das Tierreich*, Lief. XLVIII, p. 608 ♀♂ (1926),² [Host: *Lasioptera textor* Kieff].

^{1,2} Kurseong.

27. *Xestonotidea* Gahan.

Xestonotus, FÖRSTER, *Hymen., Stud.*, II, pp. 107, 112 (1856), [preoccupied by *Xestonotus* Le Conte, *Trans. amer. Philos. Soc.*, X, p. 383 (1853)]. DALLA TORRE, *Cat. Hymen.* V, p. 489 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 97 (1903).

Xestonotidea, GAHAN, *Proc. U. S. N. Mus.*, LVI, p. 524 (1920), [Genotype: *X. andriciphilus* (Ashm.) ? ♀].

Axestonotus, KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 625 (1926), [nom. nov. proposed without knowledge of Gahan's previous name].

foersteri Gahan.

Xestonotidea foersteri, GAHAN, *Proc. U. S. N. Mus.*, LVI, p. 524 (1920).¹

¹Coimbatore.

28. *Polygnotus* Förster.

Platygaster (partim), NEES, *Ichneum. affin. Monogr.*, II, p. 301, ♀ (1834).

Rhacodia, HERRICH-SCHÄFFER, *Faun. Insect. German.*, p. 157, pl. xxiii, fig. 1, ♀♂ (1838).

Polygnotus, FÖRSTER, *Hymen. Stud.*, II, p. 108 (1856), [Genotype: *P. striolatus* (Nees)♀]. DALLA TORRE, *Cat. Hymen.*, V, p. 477 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 98 (1903). KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 732 (1926).

sp. Gahan.

Polygnotus sp., GAHAN, *Proc. U. S. N. Mus.*, LVI, p. 523 (1920).¹ RAMAKRISHNA, *Bull. ent. Res.*, XVIII, p. 76 (1927),² [Host: *Pachydiplosis oryzae* Mani].

¹Pudukotah.
²Tanjore.

29. *Trichacis* Förster.

Platygaster (partim), WALKER, *Ent. Mag.*, III, p. 238 (1835).

Trichacis, FÖRSTER, *Hymen. Stud.*, II, pp. 108, 115 (1856), [Genotype: *T. remulus* (Walk.)♂♂]. DALLA TORRE, *Cat. Hymen.*, V, p. 481 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 98 (1903). BRUES, *Bull. Conn. St. Geol. Nat. Hist. Surv.*, No. 22, p. 534 (1916). KIEFFER, *Das Tierreich*, Lief. XLVIII, p. 710 (1926).

Trichasis, THOMSON, *Öfv. Akad. Förh.*, XVI, p. 78 (1859).

indica Kieffer.

Trichacis indica, KIEFFER, *Berlin. ent.* ^{1, 2} Java.
Zeit., LI, p. 265, ♂ (1907); ¹ *Das Tierreich*,
Lief. XLVIII, p. 716 (1926).²

30. **Amitus** Haldeman.

Amitus, HALDEMAN, *Amer. J. Sci.*, (2) IX, p.
108 (1850), [Genotype : *A. aleurodinis*
Hald. ♀♂]. KIEFFER, *Das Tierreich*, Lief.
XLVIII, p. 697 (1926).

Zacrita, FÖRSTER, *Verh. Ver. Rheinlande*,
XXXV, p. 46 (1878).

Alaptus (partim), CRESSON, *Trans. Amer. ent.*
Soc., Suppl., p. 250 (1887).

aleurolobi Mani.

Amitus aleurolobi, MANI, *Indian J. Ent.*, I, ¹ Pusa, Majhautia
p. 97, ♂ (1939),¹ [Host : nymphs of Bihar.
Aleurolobus barodensis].

31. **Platygaster** Latreille.

Scelio (partim), LATREILLE, *Hist. Crust. Ins.*,
XIII, p. 227 (1805).

Psilus, SPINOLA, *Ins. Ligur.*, II, p. 235 (1808).

Platygaster, LATREILLE, *Gen. Crust. Ins.*, IV,
p. 31 (1809), [Genotype : *P. ruficornis*
(Latr.)]. DALLA TORRE, *Cat. Hymen.*,
V, p. 470 (1898). BRUES, *Bull. Conn. St.*
Geol. Nat. Hist. Surv., No. 22, p. 540
(1916). KIEFFER, *Das Tierreich*, Lief.
XLVIII, p. 793 (1926).

Key to species.

- Legs uniformly yellow coloured ; scutellum strongly transverse
and arched ; wings with long marginal cilia ; body
brownish *P. oryzae*.
Legs reddish, black in parts ; scutellum somewhat elongated ;
fourth antennal segment of the female twice as long as
thick, longer than fifth ; club absent *P. tibialis*.

oryzae Cameron.

Platygaster oryzae, CAMERON, *Mem. Manchester Lit. Philos. Soc.*, (4) IV, p. 182, ♀ ^{1, 2} India. Tanjore,
(1891).¹ DALLA TORRE, *Cat. Hymen.*, Coimbatore, Nagpur,
V, p. 475 (1898). KIEFFER, *Das Tierreich*, Bengal, Burma.
Lief. XLVIII, p. 833 (1926),² [Host :
Pachydiplosis oryzae Mani].

tibialis Kieffer.

Platygaster tibialis, KIEFFER, *Ann. Soc. Sci.* ¹, ² Kurseong-
Bruxelles, XXIX, p. 191, ♀ (1905); ¹
Das Tierreich, Lief. XLVIII, p. 833
(1926), ² [Host: *Lasioptera textor*
Kieff.].

Family II. CALLICERATIDAE*

Ceraphronidae, HALIDAY, *Hymen. Synop.*,
p.ii (1939). ASHMEAD, *J. N. Y. ent. Soc.*,
XI, p. 33 (1903). KIEFFER, *Gen. Ins.*,
fas. 94, pp. 1-27, pls. 2 (1909).

Ceraphrontinae, DALLA TORRE, *Cat. Hymen.*,
V, p. 522 (1898).

Calliceratidae, KIEFFER, *Das Tierreich*, Lief.
42, pp. 63-238 (1914), [Monographic
work]. WATERSTON, *Bull. ent. Res.*, XIV,
(1) pp. 103-118 (1923), [*Calliceras dictynna*
described as parasitic on *Stephanoderes*
hampei in Uganda, Afrika]. LEEF-
MANS, S., *Meded. Koffiebessenboeboek-*
Fonds, 9, pp. 191-201 (1924), [Considered
not really to be parasitic on the coffee
scolytid]. SZELÉNYI, *Ann. Mus. hungar.*,
XXX, pp. 50-66 (1936), [Palearctic
forms].

Key to subfamilies.

- Pterostigma replaced by the marginal vein in fore wing; an-
tennae with 11 segments in the male, seldom with 10
segments; in the female with 10 or seldom 9 segments;
with 11 segments only in the case of two genera, when
the second abdominal tergite has four longitudinal
striations, the median one converging behind . . . *Calliceratinae*.
- Pterostigma well developed and large; antennae with 11 seg-
ments both in the male and female; second abdominal
tergite at the most finely and densely covered with a
circlet of hairs anteriorly . . . *Megaspilinae*.

Subfamily I. MEGASPILINAE.

Megaspilinae, ASHMEAD, *J. N. Y. ent. Soc.*,
XI, p. 33 (1903). KIEFFER, *Das Tier-*
reich, Lief. 42, p. 138 (1914).

Key to genera.

- Mesonotum with one longitudinal furrow or without; flagellum
of male serrate . . . *Atritomellus*.
- Mesonotum with three longitudinal furrows; metanotum un-
armed; wings finely pubescent, marginal cilia present,
pterostigma somewhat elongated; scape without
teeth, flagellum serrately toothed or ramose . . . *Lygocerus*.

* The change in the family name is necessitated by the fact that *Ceraphron* Jurine is invalid according to the International rules of Zoological Nomenclature, as Jurine did not publish a description of the genotype. *Calliceras* Nees, the next oldest genus is accepted instead and hence the family name *Calliceratidae*.

32. *Atritomellus* Kieffer.

Ceraphron (partim), NEES, *Hymen. Monogr.*, II, p. 275 (1834).

Lygocerus (partim), MARSHALL, *Ent. Month. Mag.*, V, p. 158 (1868).

Atritomus, FÖRSTER, *Verh. Ver. Rheinlande*, XXXV, p. 56 (1878), (pre-occupied Ritter 1877).

Dendrocerus (partim), KIEFFER, in André, *Spec. Hymen. Eur.*, X, p. 18 (1907).

Atritomellus, KIEFFER, *Das Tierreich*, Lief. 42, p. 141 (1914), [Genotype : *A. coccophagus* Först. ♀♂]

indicus Mani.

Atritomellus indicus, MANI, *Indian J. Ent.*, ¹ Delhi ; Karnal : Punjab. I, p. 98 fig. 11, ♀♂ (1939)¹, [Host : Nymphs of *Nimboa basipunctata* Withycombe].

33. *Lygocerus* Förster.

Calliceras, WESTWOOD, *Intr. Classif. Ins.*, II, syn. p. 77 (1840), [non Nees].

Lygocerus, FÖRSTER, *Hymen. Stud.*, II, pp. 97, 99 (1856), [Genotype : *L. ramicornis* (Bohem.) ♀♂]. ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 34 (1903). KIEFFER, *Das Tierreich*, Lief. 42, p. 145 (1914). HAVILAND, *Quart. J. micr. Soc.*, LXV, pp. 101-127 (1920), [development] ; *Proc. Cambridge Philos. Soc.*, XIX, 293-295 (1920), [early stages, life-history notes and hyperparasitism]. REGNIER, R., *Rev. Bot. app. & Agric. Colon*, III, (19), pp. 169-185 (1923), [*L. syrphidarium* Kieff., parasitic on *Syrphus balteatus* and *S. ribesii* in France]. ISHII, T., *Oyo-Dobuts. Zasshi*, III, (5) pp. 295-300 (1931), [larval parasite of *Homalotylus flaminus* in Japan]. WARD, K. M., *J. Dept. Agric. Victoria*, XXXII (2, 3 & 5), pp. 97-104, 134-145, 258-268 (1934), [*L. niger* as parasitic on *Myzus persicae* in Victoria, Australia]. PETHERBRIDGE, F. R. & MELLOR, J. E. M., *Ann. appl. Biol.*, XIII(2), pp. 329-341 (1936), [*L. testaceimanus* Kieff. parasitic on *Brevicoryne brassicae* in England]. ISHII, T., *Agric. & Hort.*, XII (1), pp. 60-

70 (1937), [In Japanese. Bionomics as parasitic of *Homalotylus flaminus* in Japan].

rufipes (Thomson).

Ceraphron rufipes, THOMSON, *Öfv. Kongl. Vet.-Akad. Förhand.*, XV, p. 293 ♀♂ (1858).

Lygocerus rufipes, DALLA TORRE, *Cat. Hymen.*, V, p. 534 (1898). ¹ Sweden.

² Jullunder : Punjab.

Das Tierreich, Lief. XLII, p. 153 ♀♂ (1914).¹ MALAQUI, A. & MOITIE, A., *Comp. Rend. Soc. Biol. Paris*, LXXVI (16), pp. 803-805 (1914), [parasitic on *Aphis euonymi*, the black beet-aphis, in France]. MANI, *Indian J. Ent.*, III, p. 26♀ (1941),² [Host : Cocoons of a chrysopid on sugarcane].

Subfamily II. CALLICERATINAE.

Ceraphroninae, ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 34 (1903).

Calliceratinae, KIEFFER, *Das Tierreich*, Lief. XLIV, 69 (1914).

34. *Calliceras* Nees.

Ceraphron, JURINE, in Ms. in Panzer, *Krit. Revis.*, II, p. 135 (1806); *Nouv. Méth. Class. Hymen.*, p. 303 (1807), [not Jurine 1806 Ms.]. DALLA TORRE, *Cat. Hymen.*, V, p. 524 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 35 (1903). KIEFFER, *Gen. Ins.*, 94, p. 17 (1909).

Calliceras, NEES, *Hymen. Monogr.*, II, p. 278 (1834), [Genotype : *Calliceras sulcatus* (Nees)]. KIEFFER, *Das Tierreich*, Lief. XLII, p. 70 (1914). FERRIERE, *Stylops*, II (4-5), pp. 86-96, 97-108 (1933), [*Calliceras fijiensis* as a parasite of *Apanteles tirathabae*, a parasite of *Tirathaba trichogramma* in Fiji; *C. manilae* parasitic on *A. tirathabae* in Java].

athanasii (Girault)*

Ceraphron athanasii, GIRAULT in Rama krishna, *Bull. ent. Res.*, XVIII, p. 76 (1927),¹ [Host : eggs of *Plusia agramma* Guen.]. ¹ Coimbatore.

* The original description of this species is not traced in the literature available in this country.

manilae (Ashmead).

- Ceraphron manilae*, ASHMEAD, *Proc. U. S. N. Mus.*, XXVIII, p. 135 (1934).¹ Manila : Philippines.
Calliceras manilae, KIEFFER, *Das Tierreich* Lief. XLII, p. 104 ♀ (1914).² FERRIER, *Stylops*, II (5), p. 105 (1933).³ [Host : *Apanteles machaeralis* at Dehra Dun].
 Dehra Dun : India ; Java.

Family III. **DIAPRIIDAE.**

- Proctotrupii* (partim), LATREILLE, *Gen. Ins. Crust.*, IV, p. 34 (1833).
Diapriae, HALIDAY, *Ent. Mag.*, I, pp. 269, 274 (1839).
Diapriidae, HALIDAY, *Hymen. Dipt.*, *Syn.*, p. 3 (1840).
Diapriides, WESTWOOD, *Intr. Classif. Ins. Syn.*, p. 75 (1857).
Diaprioidae, FÖRSTER, *Hymen. Stud.*, II, pp. 20, 28, 121, (1856).
Diapridae, HALIDAY, *Nat. Hist. Rev.*, IV, p. 167 (1858).
Diapriidae + Belytidae, ASHMEAD, *Bull. U.S.N. Mus.*, XLV, pp. 27, 384 (1893); *Proc. U. S. N. Mus.*, XXIII, p. 198 (1900); *J. N. Y. ent. Soc.*, X, p. 244 (1902); XI, p. 28 (1903). KIEFFER, *Gen. Ins.*, fas. 107, pp. 1-47 (1910); fas. 124, pp. 1-75 (1911).
Diapriidae, KIEFFER, *Das Tierreich*, Lief. XLIV, pp. 1-627 (1916), [Monographic revision of world genera and species].
Psilidae DAHLBOM, *Öfv. Kongl. Vet.-Akad. Förhand.*, XIV, p. 289 (1958).

Key to subfamilies.

- Antennae 10-11 jointed in ♀, 13-14 jointed in ♂; fore wings without a well developed venation; hind wings without a distinct cell; wings often undeveloped *Diapriinae*.
 Antennae 15-jointed in ♀, seldom only 14-jointed; fore wings usually with a well developed venation, hind wings with one distinct closed basal cell, seldom without cell or apterous or with reduced wings when the antennae are 15-jointed *Belytinae*.

Subfamily **DIAPRIINAE.**

- Diaprioidae*, FÖRSTER, *Hymen. Stud.*, II, pp. 20, 121 (1956).
Diapriini, THOMSON, *Öfv. Kongl. Vet.-Akad. Förhand.*, XV, p. 359 (1858).
Diapridae, MARSHALL, *Cat. Brit. Mus.*, *Hymen.*, *Oxyura*, p. 10, (1873).
Diapriinae + Spilomicrinae, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, pp. 27, 384 (1893); *J. N. Y. ent. Soc.*, XI, pp. 28, 30 (1903).

Diapriinae, DALLA TORRE, *Cat. Hymen.*, V,
p. 431 (1898). KIEFFER, *Gen. Ins.*, fasc.
124, pp. 1—175 (1911); *Das Tierreich*,
Lief. XLIV, p. 3 (1916).

Key to genera.

1. Females 2
Males 34
2. Second abdominal tergite not longer than the third;
antennae with 13 segments. Pronotum, neck and legs
with skinny lamellae *Loboscalidia*..
Second abdominal tergite much longer than the third . . . 3
3. Wings reduced or obsolete 4
Wings normally developed 12
4. Antennae with 13 segments 5
Antennae with 12 segments 6
5. Scutellum distinct, with one or two grooves in front;
posterior angles of propodeum not spiny; abdomen
rounded posteriorly and flattened above anteriorly,
the anterior margin of the second tergite is higher than
petiole in level *Spilcmicrus*..
Abdomen pointed posteriorly and laterally compressed;
second abdominal tergite in level with the petiole . . . *Paramesius*..
6. Body smooth and shiny 7
7. Scutellum not distinctly separated from mesonotum,
without grooves 8
Scutellum distinctly separated from mesonotum, with one
or two grooves 9
8. Antennal club 3 or 4-jointed *Phaenopria*..
9. Mandibles like an elongated beak 10
Mandibles not as above 11
10. Mandible turned obliquely behind; vertex with numerous
teeth on the anterior margin *Galesus*..
11. Head transverse, not flattened above; antennal club 3-
jointed; pronotum much shorter than mesonotum, the
latter without parapsidal furrows *Loxoptera*..
12. Fore wings straight or truncated distally 13
Fore wings rounded distally, without lobe 14
13. Antennae with 12 segments; mandibles wedge-shaped and
elongated behind; wings without a distinct venation . . . *Galesus*..
14. Antennae with 13 segments, the terminal segment not
forming a club; distal end of scutellum without frenum,
at the most with two grooves in front; lateral lobe of
mesonotum arched or flat 15
Antennae with 12 segments 22
15. Mesonotum with 7 longitudinal carinae *Pleuropria*..
Mesonotum without any such carinae 16
16. Head coarsely punctate, often striate *Odontopria*..
Head smooth, nonpunctate, without striae, at the most
with only a crinate cheek 17
17. Submarginal vein not exceeding the basal third of fore
wing 18
Submarginal vein exceeding the basal third of fore wing . . 19

18. Antennae almost filiform or only exceptionally thickened . . . *Spilomicrus*.
19. Prothorax short; cheek without carina; scutellum with one or two anterior grooves, lateral ones absent; marginal vein of fore wing quadrate and thick or elongate; abdomen behind not truncate 20
20. Posterior end of abdomen rounded and flattened from above; second abdominal tergite at a higher level than petiole; length of marginal vein one to two times its breadth. *Spilomicrus*.
- Posterior end abdomen pointed and laterally compressed; second abdominal tergite on a level with the petiole; length of marginal vein three or four times its breadth . . . 21
21. Mesonotum with parapsidal furrows *Paramesius*.
22. Mandibles prolonged beak-like, either perpendicular on the longitudinal axis of the head or oblique and covering the prosternum; face abnormal 23
- Mandible not beak-like; face normal 24
23. Wings without distinct venation; parapsidal furrows deep and complete; scutellum mostly with six grooves; antennae mostly without a distinct club *Galasus*.
24. Scutellum unarmed; propodeum unarmed or at the most with a sharp-pointed median longitudinal carina; fore wings at least with subcostal and marginal veins, the former reaching the margin of the wing and not or a little exceeding the basal third of the length of wing; petiole distinctly cylindrical and much thinner than the second abdominal tergite; parapsidal furrows absent; thorax smooth and shiny 25
25. Fore wings with a basal vein 26
- Fore wings without a basal vein 27
26. Head unarmed (not spiny) and the antennae with a 3-jointed club *Loxoptera*.
27. Scutellum without a groove in front 28
- Scutellum with one or two grooves in front 29
28. Scape normal; antennal club 3 or 4-jointed *Phaenopria*.
29. Scape normal; terminal antennal segment not inordinately thickened; marginal vein obwedge-shaped; eyes mostly naked 30
30. Scutellum carinate 31
- Scutellum noncarinate 33
31. Head not pentangular 32
32. Anterior margin of the second abdominal tergite angularly incised and projecting; antennal club exceptionally shaped, 6-jointed *Diapria*.
- Anterior margin of second abdominal tergite not incised and projecting; antennal club 3 to 6-jointed, prominent *Ashmeadopria*.
33. Head rounded or transverse; antennal club 3—5-jointed . . . *Trichopria*.
34. Antennae with 13 segments 35
- Antennae with 14 segments 40

35. Fourth antennal segment dentately produced; mouth not
beak-like; scutellum with one or two grooves; fore
wings rounded apically; propodeum mostly without
thorn; antennal scape spineless; face not excavat-
ed 36
36. Head with large punctures, face above antennae with 1-3
carinae; mesonotum with 4 longitudinal furrows . . . *Odontopria*.
Head nonpunctate; mesonotum at the most with only two
longitudinal furrows 37
37. Third antennal segment not half so long as the fourth;
second abdominal tergite in level with petiole, from
which it is not distinctly separated 38
Third antennal segment about as long as or longer than the
fourth; second abdominal tergite very distinctly sepa-
rated from the petiole or with 1-3 furrows in front . . . 39
38. Parapsidal furrows complete *Paramesius*.
39. Second abdominal tergite at a higher level than the petiole . . *Spilomicrus*.
40. Third antennal segment dentately produced 41
Fourth antennal segment dentately produced 42
41. Mandibles not beak-like and projecting; parapsidal fur-
rows absent; flagellum with whorls of setae *Ashmeadopria*.
42. Scutellum unarmed 43
43. Wings obsolete or vestigial 44
Wings normally developed 47
44. Scape normal, not flattened and broad 45
45. Scutellum without grooves in front *Phaenopria*.
Scutellum with one or two grooves in front 46
46. Parapsidal furrows absent *Loxoptera*.
47. Scutellum without grooves in front 48
Scutellum with one or two grooves in front 49
48. Petiole of abdomen at the most somewhat longer than
thick, body compact *Phaenopria*.
49. Subcosta reaching anterior margin of wing or not reaching
it 50
50. Face elongate behind, mandible beak-like, covering pros-
ternum; wings without distinct venation *Galesus*.
Face not elongate, mandibles normal; parapsidal furrows
absent; propodeum unarmed or at the most with a
sharp-pointed median carina; subcosta not reaching
the basal third of the anterior margin of wing; face
non-carinate 51
51. Fore wings with a basal vein; flagellum without whorl of
hairs and also without long hairs 52
Fore wings without a basal vein 53
52. Third antennal segment not distinctly shorter than the
fourth; mesonotum elongate, marginal vein long, ob-
wedge-shaped *Loxoptera*.
53. Thorax smooth and shiny, propodeum with one carina or
of a leathery texture 54
54. Scutellum carinate 55
Scutellum noncarinate 57

55. Head not pentangular; femora and tibiae club-shaped; wings without stigmal vein 56
56. Flagellum with long, erect, scattered hairs; anterior margin of second abdominal tergite incised and projecting *Diapria*.
- Flagellum with whorls of hairs; anterior margin of second abdominal tergite not incised and not projecting *Ashmeadopria*.
57. Scape cylindrical, somewhat thinner basally than apically; flagellum with whorls of hairs or scattered, erect, long hairs or only with fine pubescence *Trichopria*.

35. *Loboscelidia* Westwood.*

Loboscelidia, WESTWOOD, *Thesaur. ent. Oxon.*, p. 171 (1874), [Genotype: *L. rufescens* Westw.♀]. DALLA TORRE, *Cat. Hymen.*, V, p. 431 (1898). KIEFFER, *Das Tierreich*, Lief. XLIV, p. 14 (1916). FOUTS, *Philip. J. Sc.*, XX, p. 619 (1922), [key to species].

Loboscelidoidea, RYE in *Zool. Rec.*, XI, p. 365 (1876).

antennata Fouts.

Loboscelidia antennata, FOUTS, *Philip. J. Sc.*, XX, p. 622 (1922).¹ Singapore.

carinata Fouts.

Loboscelidia carinata, FOUTS, *Philip. J. Sc.*, XX, p. 626 (1922).¹ Singapore.

collaris Fouts.

Loboscelidia collaris, FOUTS, *Philip. J. Sc.*, XX, p. 627 (1922).¹ Singapore.

36. *Phaenopria* Ashmead.

Phaenopria, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, pp. 436 (1893), [Genotype: *P. minutissima* Ashm.♀]. DALLA TORRE, *Cat. Hymen.*, V, p. 433 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, pp. 32, 33 (1903). KIEFFER, *Gen. Ins.*, fas. 124, p. 49 (1911); *Das Tierreich*, Lief. XLIV, p. 52 (1916).

cavernicola Kieffer.

Phaenopria cavernicola, KIEFFER, *Berlin. ent. Zeit.*, LI, p. 261♂ (1907); *Gen. Ins.*, fas. 124, p. 49 (1911); *Das Tierreich*, Lief. XLIV, p. 57♂ (1916).¹

* The student should consult Fouts (*loc. cit.*) for key to species.

37. *Diapria* Latreille.*

Ichneumon (partim), FABRICIUS, *Syst. Ent.*,
p. 343 (1775).

Chalcis (partim), FABRICIUS, *Ent. Syst.*, suppl.,
p. 242 (1778).

Diapria, LATREILLE, *Précis des Caractères*, II,
p. 110 (1796), [Genotype : *D. conica*
(Fab.)]. DALLA TORRE, *Cat. Hymen.*, V,
p. 435 (1898). ASHMEAD, *J. N. Y. ent.*
Soc., XI, pp. 31, 32 (1903). KIEFFER,
Gen. Ins., fas. 124, p. 58 (1911); *Das*
Tierreich, Lief. XLIV, p. 70 (1916).

Pailus, JURINE, *Nouv. Méth. classif. Hymen.*,
p. 319 (1807).

Oxyurus (partim), LAMARCK, *Hist. Nat. Anim.*
Vert., (ed.2), IV, p. 342 (1835).

Tropidopria, ASHMEAD, *Bull. U. S. N. Mus.*,
XLV, p. 416 (1893).

affinis Motschulsky.

Diapria affinis, MOTSCHULSKY, *Bull. Imp.*
Soc. Nat. Moscou, XXXVI, (2), p. 46♀
(1863).¹ DALLA TORRE, *Cat. Hymen.*, V,
p. 435 (1898). KIEFFER, *Gen. Ins.*, fas.
124, p. 59 (1911); *Das Tierreich*, Lief.
XLIV, p. 75♀ (1916). ¹ Mt. Patannas : Ceylon.

impressicollis Motschulsky.

Diapria impressicollis, MOTSCHULSKY, *Bull.*
Imp. Soc. Nat. Moscou, XXXVI (2), p.
45 (1863).¹ DALLA TORRE, *Cat. Hymen.*,
V., p. 435 (1238).† KIEFFER, *Gen. Ins.*
fas. 124, p. 59 (1911); † *Das. Tierreich*,
Lief. XLIV, p. 75 (1916). ¹ Mt. Patannas : Ceylon.

motschulskyi Dalla Torre.

Diapria longicornis, MOTSCHULSKY, *Bull.*
Soc. Imp. Nat. Moscou, XXXVI (2),
p. 45 (1863).¹ [pre-occupied Thomson]. ¹ Mt. Nuwara Eliya :
Ceylon.

* Key to the five Indian species of *Diapria* Latr. cannot be constructed from the meagre descriptions of the species by Motschulsky and Dalla Torre; the species have not also been recognised after their description by the protologists.

† *impressicornis* of Dalla Torre and Kieffer is probably a misprint for *impressicollis* Motschulsky.

Diapria motschulskyi, DALLA TORRE, *Wien. ent. Zeit.*, IX, p. 97 (1890); *Cat. Hymen.*, V, p. 437 (1898). KIEFFER, *Gen. Ins.*, fas. 124, p. 59 (1911); *Das Tierreich*, Lief. XLIV, p. 75 (1916).

walkeri Dalla Torre.

Diapria apicalis, WALKER, *Ann. Mag. Nat. Hist.* (3), VI, p. 359♀ (1860), [pre-occupied Say].

Diapria walkeri, DALLA TORRE, *Wien. ent. Zeit.*, IX, p. 97 (1890); *Cat. Hymen.*, V, p. 439 (1898).¹ KIEFFER, *Gen. Ins.*, fas. 124, p. 59 (1911); *Das Tierreich*, Lief. XLIV, p. 75♀ (1916). ¹Ceylon.

38. *Ashmeadopria* Kieffer.

Diapria (partim), LATREILLE, *Hist. Crust. Ins.*, XIII, p. 231 (1805).

Psilus (partim), JURINE, *Nouv. Méth. Hymen.*, p. 319 (1807).

Platymischus, PROVANCHER, *Addit. Hymen. Quebec*, 182 (1887).

Tropidopria (partim), ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 416 (1893).

Diapria (*Tropidopria*), KIEFFER, in André *Spec. Hymen. Eur.*, X, p. 951 (1911).

Ashmeadopria, KIEFFER, *Gen. Ins.*, fas. 124, p. 59 (1911), [Genotype : *A. verticillata* (Latr.)♂]; *Das Tierreich*, Lief. XLIV, p. 119 (1916). VOINOVSKAYA-KRIGER, T., *Izv. prikl. Ent.*, IV (1), pp. 185-188 (1929), [Bionomics as larval parasite of *Oscinella frit* in Leningrad. In Russian with a summary in German].*

jacobsoni (Kieffer).

Tropidopria jacobsoni, KIEFFER, *Zeit. Hymen. Dipt.*, VII, p. 311♀ (1907).¹ ¹Semarong: Java.

Ashmeadopria jacobsoni, KIEFFER, *Gen. Ins.*, fas. 124, p. 60 (1911); *Das Tierreich*, Lief. XLIV, p. 136♀ (1916).

39. *Trichopria* Ashmead.

Psilus (partim), SAY, *Boston J. Nat. Hist.*, I, p. 284 (1836).

* Not seen in original.

Diapria (partim), THOMSON, *Öfv. Kongl. Vet.-Akad. Förhand.*, XV, p. 366 (1858).

Aneurhynchus (partim), ASHMEAD, *Canad. Ent.*, XIX, p. 195 (1887).

Platymiscus (partim), ASHMEAD, *Canad. Ent.*, XIX, p. 195 (1887).

Galesus (partim), ASHMEAD, *Canad. Ent.*, XIX, p. 195 (1887).

Loxoptera (partim), ASHMEAD, *Canad. Ent.*, XX, p. 53 (1888).

Ceratopria, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 428 (1893).

Trichopria, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, pp. 407, 431, 432 (1893), [Genotype: *T. pentaplasta** Ashm. ♂♀]. DALLA TORRE *Cat. Hymen.*, V, p. 434 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, p. 31 (1903). KIEFFER, *Gen. Ins.*, fasc 124, p. 62 (1911); *Das Tierreich*, Lief. XLIV, p. 77 (1916).

Planopria, KIEFFER, *Bull. Soc. Metz.*, XXV, p. 19 (1908).

Trichopira (*Orthopria*), KIEFFER, in André *Spec. Hymen. Eur.*, X, p. 984 (1910).

Key to subgenera.

- Flagellar segments with short fine prostrate hairs in ♂ . . . *Trichopria*.
Flagellar segments with whorls of long erect hairs in ♂ . . . *Planopria*.

Key to species.

1. Antennal club 3-jointed; body red; wings exceeding nearly by half its length the abdomen . . . *T. (T.) rufa*.
Antennal club 5-jointed . . . 2.
2. Propodeum with only one median longitudinal carina; red; rest of thorax black . . . *T. (T.) indica*.
Thorax entirely black . . . *T. (T.) tachinidarum*.
Scutellum with two grooves in front . . . *T. (P.) versicolor*.
Scutellum with one groove in front . . . *T. (P.) syrphidarum*.

39a. *Trichopria* (*Trichopria*) Ashmead.

indica Kieffer.

Trichopria (*Trichopria*) *indica*, KIEFFER, *Bull. Soc. Nat. Metz.*, XXV, p. 106 ♀ (1905); *Das Tierreich*, Lief. XLIV, p. 91 ♀ (1916).¹

¹ Matheran : India.

* The genotype *T. pentaplasta*, is referred to the subgenus *Ceratopria* Ashm. by Kieffer in *Das Tierreich*.

Trichopria indica, KIEFFER, *Gen. Ins.*, fas. 124, p. 65 (1911).

feuerboni Bischoff.

Trichopria feuerboni, BISCHOFF, *Arch. Hydrobiol. suppl.*, IX, p. 746 (1932).¹ ¹ Java.

rufa (Kieffer).

Diapria rufa, KIEFFER, *Berlin. ent. Zeit.*, ^{1, 2, 3}, Tjibodas : Java. LI, p. 261 ♀ (1907).¹

Trichopria rufa, KIEFFER, *Gen. Ins.*, fas. 124, p. 65 (1911).²

Trichopria (Trichopria) rufa, KIEFFER, *Das Tierreich*, Lief. XLIV, p. 90 ♀ (1916).³

tachinidarum Ferrière.

Trichopria tachinidarum, FERRIÈRE, ¹ Buitenzorg : Java. *Stylops*, II, p. 104 (1933).¹ [Host : Tachinid parasite of *Tirathaba* sp.].

39b. *Trichopria (Planopria)* Kieffer.

Diapria (partim), NEES, *Hymen. Ichneum. Först. Monogr.*, II, p. 322 (1834). ASHMEAD, *Bull. U. S. N. Mus.*, XLV, pp. 407, 420 (1908).

Planopria, KIEFFER, *Bull. Soc. Nat. Metz.*, XXV, p. 19 (1908).

Trichopria (Orthopria), KIEFFER, in André *Spec. Hymen. Eur.*, X, p. 984 (1911); *Gen. Ins.*, fas. 124, p. 63 (1911).

Trichopria (Planopria), KIEFFER, *Das Tierreich*, Lief. XLIV, p. 106 (1916).

syrphidarum (Kieffer).

Diapria syrphidarum, KIEFFER, *Zeit. Hymen. Dipt.*, VII, p. 312 ♀♂ (1907).¹ ¹ Semarong : Java.

Trichopria syrphidarum, KIEFFER, *Gen. Ins.*, fas. 124, p. 66 (1911).²⁰

Trichopria (Planopria) syrphidarum, KIEFFER, *Das Tierreich*, Lief. XLIV, p. 113 (1916).³ [Host: Larva of *Eristalis* sp.].

versicolor (Kieffer).

Diapria versicolor, KIEFFER, *Berlin. ent. Zeit.*, LI, p. 262 ♂ (1907).¹ ^{1, 2}, Tjibodas : Java.

Trichopria versicolor, KIEFFER, *Gen. Ins.*, fas. 124, p. 66 (1911).²

Trichopria (*Planopria*) *versicolor*, KIEFFER, ³ Java.
Das Tierreich, Lief. XLIV, p. 113 ♂
 (1916).³

40. *Loxoptera* Förster.

Diapria (partim), NEES, *Hymen. Ichneum.*
Monogr., II, p. 328 (1834).

Rhacodia (?) (partim), HERRICH-SCHÄFFER,
Faun. Ins. Germ., 157 t. 23, f. 2 (1838).

Loxoptera, FÖRSTER, *Hymen. Stud.*, II, pp.
 122, 123, 126 (1856), [Genotype: *L.*
dispar (Nees) ♀♂]. DALLA TORRE, *Cat.*
Hymen., V, p. 440 (1898). ASHMEAD,
J. N. Y. ent. Soc., XI, p. 31 (1903).
 KIEFFER, *Gen. Ins.*, fas. 124, p. 55
 (1911); *Das Tierreich*, Lief. XLIV,
 p. 167 (1916).

Diapria (*Basalys*) (partim), HALIDAY, *Nat.*
Hist. Rev., IV, p. 171 (1857).

Basalys (partim), THOMSON, *Öfv. Kongl. Vet.-*
Akad. Förhand., XV, p. 368 (1858).

indica Kieffer.

Loxoptera indica, KIEFFER, *Berlin. ent.* ^{1, 3} Java.
Zeit., LI, p. 262 ♂ (1907); ¹ *Gen. Ins.*, fas. ² India.
 124, p. 56 (1911); ² *Das Tierreich*, Lief.
 XLIV, p. 185 ♂ (1916).³

41. *Galesus* Curtis.

Psilus, PANZER, *Faun. Ins. Germ.*, VII, part
 83, t. 11 (1801).

Oxyurus (partim), LAMARCK, *Hist. Anim.*
Vert., IV, p. 128 (1817).

Galesus, (Haliday)* CURTIS, *Brit. Ent.*, VIII,
 p. 341 (1831), [Genotype: *G. fuscipennis*
 Curtis ♂]. DALLA TORRE, *Cat. Hymen.*, V,
 p. 442 (1898). KIEFFER, *Gen. Ins.*, fas.
 124, p. 39 (1911); *Das Tierreich*, Lief.
 XLIV, p. 200 (1916).

Coptera, SAY, *Boston J. Nat. Hist.*, I, p. 280
 (1836).

Anisoptera, HERRICH-SCHÄFFER, *Nomen. Ent.*,
 II, pp. 57, 69 (1840).

* Haliday manuscript name.

Schizogalesus, KIEFFER, in André *Spec. Hymen. Eur.*, X, p. 833(1910); *Gen. Ins.*, fas. 124, p. 40 (1911).

Face between antennae and ocelli with two teeth which become short carinae behind and do not reach the ocelli	<i>G. magretti</i> .
Face with longitudinal carinae	<i>G. laprobanicus</i> .

Galesus magretti, KIEFFER, *Ann. Soc. sc. Bruxelles*, XXIX, p. 138 ♂ (1905);¹
Das Tierreich, Lief. XLIV, p. 222 ♂ (1916).²

Diapria nigricornis, MOTSCHULSKY, *Bull. Soc. Imp. Nat. Moscou*, XXXVI (2), p. 45 ♀ (1863),¹ [name pre-occupied Thomson]. DALLA TORRE, *Cat. Hymen.*, V, p. 438 (1898).

Galesus taprobanicus, KIEFFER, *Das Tierreich*, Lief. XLIV, p. 224 ♀ (1916).

Pleuropria, KIEFFER, *Ann. Soc. sc. Bruxelles*, XXIX, p. 136 (1905), [Genotype : *P. maculipennis* Kieff. ♀]; *Gen. Ins.*, fas. 124, p. 35 (1911); *Das Tierreich*, Lief. XLIV, p. 274 (1916).

Pleuropria maculipennis, KIEFFER, *Ann. Soc. Sc. Bruxelles*, XXIX, p. 137 ♀ (1905);¹ *Gen. Ins.*, fas. 124, p. 35 (1911); *Das Tierreich*, Lief. XLIV, p. 275 ♀ (1916).

Odontopria, KIEFFER, *Ann. Mus. Civ. Stor. Nat. Genova*, XLII, p. 24 (1905), [Genotype: *O. cornuta* Kieff. ♀]; *Gen. Ins.*, fas. 124, p. 29 (1911); *Das Tierreich*, Lief. XLIV, p. 275 (1916).

Spilomicrus (partim), KIEFFER, *Not. Leyden Mus.*, XXX, p. 93 (1908).

cribrata (Kieffer).

Spilomicrus cribrata, KIEFFER, *Not. Leyden Mus.*, XXX, p. 93♂ (1908).¹ ^{1, 2, 3} Java.

Odontopria cribrata, KIEFFER, *Gen. Ins.*, fas. 124, p. 29 (1911);² *Das Tierreich*, Lief. XLIV, p. 277♂ (1916).³

nigripes Kieffer.

Odontopria nigripes, KIEFFER, *Berlin. Ent. Zeit.*, LI, p. 259♂ (1907);¹ *Gen. Ins.*, fas. 124, p. 29 (1911);² *Das Tierreich*, Lief. XLIV, p. 277♂ (1916).³ ^{1, 2, 3} Java.

44. *Spilomicrus* Westwood.

Spilomicrus, WESTWOOD, *Philos. Mag.*, (30) I, p. 129 (1832), [Genotype: *S. stigmatalis* Westwood♀]. DALLA TORRE, *Cat. Hymen.*, V, p. 446 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, pp. 29, 30 (1903). KIEFFER, *Gen. Ins.*, fas. 124, p. 22 (1911); *Das Tierreich*, Lief. XLIV, p. 283 (1916).

Chlidonia (partim), HERRICH-SCHÄFFER, *Faun. Ins. Germ.*, 157, t. 24 (1838).

Diapria (*Spilomicrus*), HALIDAY, *Nat. Hist. Rev.*, IV, P, p. 171 (1857).

Paramesius (partim), PROVANCHER, *Addit. Hymen. Quebec.*, p. 405 (1888).

Ismarus, ASHMEAD, *Bull. Colorado Biol. Ass.*, I, p. 11 (1890).

maculipennis Kieffer.

Spilomicrus maculipennis, KIEFFER, *Berlin ent. Zeit.*, LI, p. 260♂ (1907);¹ *Gen. Ins.*, fas. 124, p. 24 (1911);² *Das Tierreich*, Lief. XLIV, p. 298♂ (1916).³ ^{1, 2, 3} Tjibodas: Java.

45. *Paramesius* Westwood.

Cerapsilon, CURTIS, *Guide Brit. Mus. Ins.*, p. 127 (1829), [without description].

Paramesius, WESTWOOD, *Philos. Mag.*, (3), I, p. 129 (1832), [Genotype: *P. rufipes* Westwood♂]. DALLA TORRE, *Cat. Hymen.*, V, p. 447 (1898). ASHMEAD, *J. N. Y. ent. Soc.*, XI, pp. 29, 30 (1903). KIEFFER, *Gen. Ins.*, fas. 124, p. 20 (1911); *Das Tierreich*, Lief. XLIV, p. 308 (1916).

Diapria (partim), NEES, *Hymen. Ichneum. affin. Monogr.*, II, 335 (1834).

Psilus (partim), SAY, *Boston J. Nat. Hist.*, I, p. 282 (1836).

Rhacodia (partim) and *Chlidonia* (partim), HERRICH-SCHÄFFER, *Faun. Ins. Germ.*, 157, t. 23, 24 (1838).

incompletus Kieffer.

Paramesius incompletus, KIEFFER, *Berlin*, ^{1, 2, 3} Tjibodas : Java—
ent. Zeit., LI, p. 259 ♀♂ (1907); ¹ *Gen. Ins.*,
fas. 124, p. 22 (1911); ² *Das Tierreich*,
Lief. XLIV, p. 319 ♀♂ (1916). ³

Family IV. **SERPHIDAE.**

Proctotrupii, (partim), LATREILLE, *Gen. Crust. Ins.*, IV, p. 33 (1809).

Proctotrupes, HALIDAY, *Ent. Mag.*, I, p. 273 (1833).

Codrini (partim), NEES, *Hymen. Ichneum. affin. Monogr.*, II, p. 313 (1834).

Proctotrypini, NEES, *Hymen. Ichneum. affin. Monogr.*, II, p. 346 (1834).

Proctotrypidae, FÖRSTER, *Hymen. Stud.*, II, pp. 20, 99 (1856).

Codrinidae, DAHLBOM, *Öfv. Kongl. Vet.-Akad. Förhand.*, XIV, p. 289 (1858).

Proctotrypinae, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 331 (1893). DALLA TORRE, *Cat. Hymen.*, V, p. 461 (1898).

Proctotrypidae, MARSHALL, *Cat. Brit. Hymen. Oxyura*, p. 1 (1873). ASHMEAD, *J. N. Y. ent. Soc.*, X, p. 243 (1902). MORLEY, *Entomologist*, LV, p. 2 (1922), [Key to genera from Gr. Britain]; *Ent. Month. Mag.*, LIX, pp. 142, 184, 228, 263 (1923), [Synopsis of British species].

Serphinae, KIEFFER in André *Spec. Hymen. Eur.*, X, p. 269 (1907).

Serphidae, KIEFFER, *Gen. Ins.*, fas. 95, pp. 1-10 (1909); *Das Tierreich*, Lief. XLII, pp. 1-62 (1914), [monographic account of world forms]. EASTHAM, *Parasitology*, XXI, (1-2), pp. 1-21, Pls. i-iii, fig. 1 (1929), [list of hosts, literature, etc.].

Subfamily I. **SERPHINAE.**

Serphinae, KIEFFER, *Das Tierreich*, Lief. XLII, p. 1 (1914).

46. *Serphus* Schrank.

Serphus, SCHRANK, *Schrift. Berlin. Gesell. Natur. Fr.*, I, p. 307 (1780), [Genotype: *S. brachypterus* Schr.♀]. KIEFFER, *Das Tierreich*, Lief. XLII, p. 7 (1914).

Proctotrupes, LATREILLE, *Précis Caract. Ins.*, p. 108 (1796).

gravidator (Linnaeus)

Ichneumon gravidator, LINNÆUS, *Syst. Nat.*, ed. 10, p. 565 (1758).¹ ^{1, 2} Whole of Europe.

Banchus gravidator, FABRICIUS, *Syst. Pez.*, p. 128 (1804).

Codrus gravidator, JURINE, *Nouv. Méth. Hymen.*, I, p. 309 (1807).

Proctotrupes gravidator, LEPELETIER, *Encycl. Méth.*, X, p. 208 (1825).

Serphus gravidator, KIEFFER, in André, *Spec. Hymen. Eur.*, X, p. 297♂ (1908);¹ ³ Dehra Dun. *Das Tierreich*, Lief. XLII, p. 11♀ (1914);² [Hosts: *S. gravidator gravidator* parasitic on *Boletophila fusca*]. GARDNER, J. C. M., *Indian For. Rec.*, XIV, p. 107 (1929);³ [Host: *S. gravidator partipes* Dodd parasitic on larvæ of *Nebria cameroni*].*

sp. Jardine.

Serphus sp., JARDINE, *Ceylon Administration Rep. for 1917, Dept. Agric.*, (1918), ¹ Ceylon. [Parasitic on *Homona coffearia*].¹

Subfamily II. HELORINAE.

Heloridae, FÖSTER, *Hymen. Stud.*, II, p. 142 (1856). ASHMEAD, *J. N. Y. ent. Soc.*, X, p. 242 (1902).

Helorini, THOMSON, *Öfv. Kongl. Vet.-Akad. Förhand.*, XV, p. 379 (1858).

Helorinae, ASHMEAD, *Bull. U. S. N. Mus.*, XLV, p. 334 (1893). DALLA TORRE, *Cat. Hymen.*, V, p. 468 (1898). KIEFFER, *Das Tierreich*, Lief. XLII, p. 57 (1914), [monograph].

* The author thanks Dr C. F. C. Beeson, Forest Entomologist, Dehra Dun, for drawing his attention to this reference (Note added in second proof).

47. *Helorus* Latreille.

Sphex, (partim), PANZER, *Faun. Ins. Germ.*,
V, (52), t. 23 (1798).

Helorus, LATREILLE, *Hist. Crust. Ins.*, III, p.
309 (1802), [Genotype : *H. ater* (Nees)].
KIEFFER, *Das Tierreich*, Lief. XLII, p.
59 (1914).

Oxyurus (partim), LAMARCK, *Hist. Anim.*
sns. Vert., IV, p. 130 (1817).

Copelus, PROVANCHER, *Natural. Canad.*, XII,
p. 207 (1881).

striolatus Cameron.

Helorus striolatus, CAMERON, *J. Bombay Nat. Hist. Soc.*, XVII, p. 99 (1906).¹ Quetta.

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[In this index are included the families, subfamilies genera and species of Serphoidea. The specific name (printed with a small initial letter) is followed by the name of the genus (with an initial capital) in which the species was described or to which it has been transferred. Synonyms are printed in italics).

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