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Description of a new species of *Collocleonymus* Masi (Hymenoptera: Chalcidoidea: Pteromalidae) from India

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ABSTRACT: The first Indian species of the genus *Collocleonymus* Masi viz. *C. indiaensis* sp. nov., is formally described from Bengaluru in southern India. © 2019 Association for Advancement of Entomology

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A new species of *Acanthormius* (Braconidae: Lysiterminae) reared as a gregarious parasitoid of psychid caterpillars (Lepidoptera: Psychidae) from India

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Abstract

Acanthormius indicus Gupta & Quicke sp. nov. is described and illustrated. It is a gregarious larval parasitoid of an unidentified bagworm moth caterpillar (Lepidoptera: Psychidae) from southern India. The biology and host associations of members of subfamily Lysiterminae are also discussed.

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The first record of the genus *Tanaostigma* (Hymenoptera: Tanaostigmatidae) in the Old World, with the description of a new species from India

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Tanaostigma Howard (Hymenoptera: Tanaostigmatidae) is recorded for the first time in the fauna of the Old World, with *T. indica* Gupta sp. n. described and illustrated from southern India, reared from *Millettia* (=Pongamia) pinnata (Fabaceae).

Key words: *Millettia* (=Pongamia) pinnata, Fabaceae



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Research Article

A new species of genus *Cassidibracon* Quicke (Hymenoptera: Braconidae: Braconinae) with new host record from India

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ABSTRACT: A new species, *Cassidibracon repens* Gupta sp. n. from Karnataka, India, is described and illustrated along with the host caterpillar and cocoons of another closely allied Indian species. The species was reared from cocoons of a Pyralidae caterpillar which is a new host record for *Cassidibracon*. The main diagnostic characters include - second, third and fourth metasomal tergites with midlongitudinal carina; ovipositor length 0.53× length of gaster; OOL/POL = 2.5; eye length/malar space = 3.33; median flagellomeres approximately 2-2.27× longer than wide and antenna with 24 flagellomeres. Revised Key to the Oriental species of the Genus *Cassidibracon* Quicke is also provided.

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Biology and description of *Megaprosternum cleonarvorum* sp. nov. (Hymenoptera: Bethyidae) a gregarious larval ectoparasitoid of *Cleonaria bicolor* Thomson (Coleoptera: Cerambycidae) from India

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Abstract

Megaprosternum Azevedo (Bethyidae: Scleroderminae) is newly recorded from the Oriental region, and *M. cleonarvorum* Gupta & Azevedo sp. nov. is described and illustrated from Southern India as a gregarious larval ectoparasitoid of *Cleonaria bicolor* Thomson (Coleoptera: Cerambycidae) on the host plant *Isora coccinea* L. (Rubiaceae). This is the first ever documentation of the biology of *Megaprosternum* Azevedo.

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A new species of *Crinibracon* Quicke (Hymenoptera: Braconidae) parasitic on pupae of *Hasora chromus* (Cramer) (Lepidoptera: Hesperidae) from India

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Abstract

A new species, *Crinibracon chromusae* Gupta & van Achterberg sp. n., parasitic on pupae of *Hasora chromus* (Cramer) (Hesperidae) on *Millettia* (=Pongamia) pinnata (L.) Panigrahi (Fabaceae), is described from India and compared with *C. sinicus* (Yang, Chen & Liu, 2008) from China, the only other species known with a similar general appearance. For the first time biological information for the genus *Crinibracon* Quicke, 1988, is given. Three species of hyperparasitoids, *Phaenolema braconidis* (Ferrière) (Hymenoptera: Eurytomidae), *Nesolynx javanica* Ferrière (Hymenoptera: Eulophidae), and an *Exepelus* sp. (Hymenoptera: Eupelmidae) emerged along with *C. chromusae* sp. n. from pupae of *H. chromus*. The generic placement of this new species along with interesting parasitoid biology is discussed.

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Lycanidae parasitoids from peninsular India with description of four new species of microgastrine wasps (Hymenoptera: Braconidae) along with new insights on host relationships

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Abstract

In the comprehensive rearing of lepidopterans from peninsular India, eleven species of Lycanidae were parasitized by ten species of wasps. Four new taxa of lycanid associated microgastrine wasps *Parapanteles eros* Gupta n. sp., *P. arka* Gupta n. sp., *P. esha* Gupta n. sp., and *P. regale* Gupta n. sp. reared from *Chilades pandava* (Horsfield), *Caretta thetis* (Drury), *Proxostis dubiosa* (Semper), *Tajuria cippus* (Fabricius), respectively, are described with diagnostic details and illustrations along with documentation of six species of wasps viz., *Apanteles folia*, *Apanteles* sp., *Protopanteles* sp. 01 & 02 (Braconidae), *Choragob obtusus* Morley (Ichneumonidae), and *Brachymeria lasus* (Walker) (Chalcididae). This is the first record of host-parasitoid association of lycanid butterflies with *Parapanteles*. Wasps from three different families were recorded: Braconidae, Ichneumonidae, and Chalcididae. The parasitoid species were reared from the following Lycanidae hosts: *Anthrene lycanina* (Felder), *Arhopala amara* Hewitson, *Chilades pandava* (Horsfield), *Caretta thetis* (Drury), *Janildes celene* (Cramer), *Proxostis dubiosa* (Semper), *Rathinda emor* (Fabricius), *Spindaris vulcanus* (Fabricius), *Tajuria cippus* (Fabricius), *Tarucus balkanicus nigra* Bethune-Baker, and *Tarucus callimera* Butler. All lycanids were collected from peninsular India, except *T. callimera* (central India). A comparative account of all newly described species is provided along with the detailed illustrated description and differences vis-à-vis its closely allied Indian species. Also a comprehensive table comprising parasitoid species, associated host, stage of parasitism, and nature of cocoon is provided.

A new species of *Parapanteles* Ashmead (Hymenoptera: Braconidae) from India reared from *Abisara echeria* Stoll (Lepidoptera: Riodinidae) with key to the Indian *Parapanteles* species

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Abstract

A new species of gregarious endoparasitoid, *Parapanteles echeriae* Gupta, Pereira & Churi, sp. nov., bred from *Abisara echeria* Stoll (Lepidoptera: Riodinidae) on host plant *Embelia* sp. (Myrsinaceae), is described and illustrated from Mumbai, Maharashtra, India. *Abisara echeria*, commonly known as plum jady, is a small striking butterfly prevalent in Asia. This is the first ever record of a parasitoid wasp associated with *Abisara*. *Parapanteles echeriae* is distinguished from *P. streptochaeta* Ahmad & Akhtar in having propodeum with areola 1.2x as long as wide; anterior diagonal carina meeting anterior margin of propodeum in one half; veins r and 2RS of fore wing merging in a smooth curve; yellow coloured legs and tegulae brownish black. A key to the Indian species of *Parapanteles* is also provided.

Parasitoids of Hesperidae from peninsular India with description of a new species of *Dolichogenidea* (Hymenoptera: Braconidae) parasitic on caterpillar of *Borbo cinnara* (Wallace) (Lepidoptera: Hesperidae)

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Abstract

Five species of parasitoid wasps associated with hesperids from peninsular India are documented along with the description of a new species of gregarious endoparasitoid, *Dolichogenidea cinnarae* sp. nov. (Hymenoptera: Braconidae) parasitic on caterpillar of *Borbo cinnara* (Wallace) (Lepidoptera: Hesperidae). Also, the gregarious larval parasitoid, *Cotesia erionotae* (Wilkinson) (Braconidae) and solitary pupal parasitoid *Chorops plusio* Gupta & Maheshwary (Ichneumonidae) were bred from the host *Udaspes folius* (Cramer) on the host plant *Hedydium coronarium* J. Koenig. *Udaspes folius* is the new host record for the parasitoid wasp genus *Chorops*. *Cotesia erionotae* was bred from *U. folius* caterpillars from three states: Maharashtra, Karnataka and Kerala. An encyrtid wasp *Ooencyrtus papilionis* Ashmead was bred from eggs of *Bibasis jaina* (Moore) on the host plant *Hiptage benghalensis* (L.). This is the first documentation of a parasitoid wasp from the genus *Bibasis*. *Leptobotis indica* (Cameron) (Ichneumonidae), often associated with *Parnara guttatus* (Bremer & Grey), was recorded from the Andaman islands.

A new species of *Glyptapanteles* (Hymenoptera: Braconidae: Microgasterinae), a larval parasitoid of *Elymnias hypermnestra* (Linnaeus) (Lepidoptera: Nymphalidae), along with some new host records of parasitoids from Peninsular India

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Abstract

A new species, *Glyptapanteles hypermnestrae* Gupta and Pereira, is described from Maharashtra, India, and compared with closely allied species. This new species was bred from parasitized larvae of *Elymnias hypermnestra* (Linnaeus) (Lepidoptera: Nymphalidae). In addition to this, two hymenopterous parasitoids, *Apanteles folia* Nixon (Braconidae: Microgasterinae) and *Brachymeria indica* (Krausse) (Chalcidoidea: Pteromalidae), are for first time reported parasitizing larvae of *Arhopala amantes* (Hewitson) (Lepidoptera: Lycaenidae) and pupae of *Parerionia valeria* (Cramer) (Lepidoptera: Pieridae) respectively.



A New Species of *Gonatocerus* Nees (Hymenoptera: Chalcidoidea: Mymaridae) from Karnataka, India

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ABSTRACT - *Gonatocerus similis* sp. nov. (Hymenoptera: Chalcidoidea: Mymaridae) belonging to the *asulcifrons*-group, from Karnataka, India, is described and illustrated. The diagnostic characters of *G. similis* in relation to the other species of the *asulcifrons*-group and species of other groups from India are discussed in brief: First funicular segments shorter than pedicel and second funicular segment; sixth and seventh funicular segments yellowish white; fore wing disc with 5 microtrichia; fore coxae yellowish; absence of subantennal sulci on head; antenna with funicular segments 2-8 subequal and clava with more than 11 sensillae.

Three new species of reared parasitic wasps (Hymenoptera: Braconidae: Microgasterinae) from India

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Abstract

Three new species of parasitic wasps (Braconidae: Microgasterinae) from southern India are described and illustrated. *Glyptapanteles clanisae* sp. nov., a remarkable gregarious endoparasitoid, was bred from the caterpillar of *Clanis phalaris* Cramer (Lepidoptera: Spingidae) on the host plant *Pongamia pinnata* (L.) (Leguminosae) along with a hyperparasitoid, *Eurytoma* sp. (Eurytomidae). *Glyptapanteles trilochae* sp. nov., was reared from parasitized caterpillar of *Trilocha varians* (Walker) (Lepidoptera: Bombycidae) on the host plant *Ficus racemosa* L. (Moraceae) along with a hyperparasitoid, *Paraphylax* sp. (Ichneumonidae: Cryptinae). *Buluka horni* sp. nov. was collected from solitary cocoons of an indeterminate caterpillar feeding on *Mangifera indica* L. leaves. This study also confirms a host range extension of Indian species of *Glyptapanteles* to Bombycidae and Spingidae in addition to the earlier documented families viz., Papilionidae, Nymphalidae, Arctiidae, and Noctuidae.

Revision of the Indian *Microplitis* Foerster (Hymenoptera: Braconidae: Microgasterinae), with description of one new species

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Abstract

The Indian fauna of the genus *Microplitis* Foerster, 1862 is revised. An illustrated key to eight species including the description of one new species, *M. markyi* sp. nov., is provided. Six previously described species, namely: *M. ajmerensis* Rao & Kurian, *M. demolitor* Wilkinson, *M. indicus* Marsh, *M. manilae* Ashmead, *M. prodeniae* Rao & Kurian, and *M. spodiopetrae* Rao & Kurian are elaborated with taxonomical variations and extended distribution. Two species, *M. baghesrii* Sathe, Inamdar & Dawale and *M. dipika* (Bhatnagar) are considered *incertae sedis*. A new combination is suggested for *Snellenius maculipennis* (Szépligeti) which is placed into synonymy with *Microplitis*. Information on taxonomic history of the genus, diagnostic characters of all the included species, distribution and host relationships are provided.

Reared parasitic wasps attacking hesperids from Western Ghats (Kerala, India) with description of a new species of *Dolichogenidea* (Hymenoptera: Braconidae) as a larval parasitoid of *Thoressa evershedi* (Evans) (Lepidoptera: Hesperidae)

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Abstract

Eight species of parasitic wasps were bred from various stages of five species of hesperids viz. *Thoressa evershedi* (Evans), *Pelipotis mathias* (Fabricius), *Udaspes folius* (Cramer), *Borbo cinnara* (Wallace) and *Calotis* sp. inhabiting Western Ghats, Kerala, India. One new species, *Dolichogenidea kushi* Gupta & Kalesh, is described and illustrated from Kerala, India, and its relationship with closely allied species is discussed. This new species was bred from parasitized larvae of *Thoressa evershedi* (Evans) (Lepidoptera: Hesperidae). Microgasterinae braconid species, *Apanteles juvenis* Rohwer and *Cotesia erionotae* (Wilkinson) were bred from parasitized larvae of *P. mathias* and *U. folius* respectively. *Brachymeria kushi* Oudikmen (Chalcidoidea) was recorded from pupae of *U. folius*. Two hyperparasitoids, *Eurytoma manilae* Ashmead (Eurytomidae) & *Pedobius foveolatus* (Crawford) (Aphelinidae) were bred from larvae of *B. cinnara*. Egg parasitoid, *Ooencyrtus papilionis* Ashmead (Encyrtidae) and pupal parasitoid *Brachymeria laus* (Walker) (Chalcidoidea) was recorded from *Calotis* sp. Information on the parasitoid distribution, brief diagnosis of each species with a habitus photograph for easy identification, host association, host caterpillars, caterpillar host plants, and taxonomic comments are provided.

A NEW SPECIES OF *NEASTYMACHUS* GIRAUT (HYMENOPTERA: ENCYRTIDAE) FROM KARNATAKA STATE OF INDIA

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Abstract. A new species of the genus *Neastymachus* Girault (Hymenoptera: Encyrtidae), *N. notialis* Hayat & Gupta, sp. nov., is described from a specimen collected in Udipi, Karnataka (India). This species is compared with two apparently similar species, *N. angustifrons* (Shafee et al., 1975) and *N. katekenis* Hayat, in Hayat et al. (2015).

Keywords: Encyrtinae, Discodini, new species, India.