

MORPHOLOGY AND TAXONOMY OF *RODENTOXYURIS*
SCIURI QUENTIN ET TENORA, 1974 (NEMATODA:
OXYURIDA: ENTEROBIINAE) WITH NOTES
ON MOLECULAR PHYLOGENY

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Abstract.— In present paper we supplement and summarize morphological data and taxonomical status of *Rodentoxyuris sciuri* – a parasite of red squirrel for the first time reported from Poland. Based on molecular data, we made an attempt to find the phylogenetic position of this nematode. Eight individual of squirrels collected from different parts of the city of Wrocław (Lower Silesia, SW Poland) were subject to standard helminthological dissection. The helminthfauna of *Sciurus vulgaris* was represented by *R. sciuri* only, with the prevalence amounting to 100% (all eight individuals were infected) and a mean intensity of infection of 184.13. As a result of sequencing a partial sequence of 18S rDNA was obtained; and the phylogenetic relationships between analyzed species are discussed.



Key words.— Nematoda, phylogeny, *Rodentoxyuris sciuri*, rodents, *Sciurus vulgaris*.

PUPILLOIDEA OF PAKISTAN (GASTROPODA: PULMONATA): TRUNCATELLININAE, VERTIGININAE, GASTROCOPTINAE, PUPILLINAE (IN PART)

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Abstract.— Based on over 3,500 dry shells and alcohol-preserved specimens from 77 localities, new records of 12 species (*Truncatellina callieratis* (Scacchi), *T. himalayana* (Benson), *Boysia boysii* (L. Pfeiffer), *Vertigo antivertigo* (Draparnaud), *V. pseudosubstriata* Ložek, *Gastrocopta avanica* (Benson), *G. huttoniana* (Benson), *G. klunzingeri* (Jickeli), *Pupilla muscorum* (Linnaeus), *P. annandalei* Pilsbry, *P. turcmenica* (O. Boettger), *P. signata* (Mousson)) are given; ten species (*Columella nymphaepratensis* sp. nov., *Truncatellina ayubiana* sp. nov., *T. babusarica* sp. nov., *Vertigo superstriata* sp. nov., *V. nangaparbatensis* sp. nov., *Boysidia tamtouriana* sp. nov., *Pupilla khunjerabica* sp. nov., *P. satparanica* sp. nov., *P. ziaratana* sp. nov., *P. paraturcmenica* sp. nov.) are described. Shell variation is discussed for most species; the reproductive system is described and illustrated for nine species. Northern Pakistan, with its broader altitudinal range and generally wetter environmental conditions, has the highest diversity of pupilloids belonging to the genera discussed herein. Of the 22 species discussed in this report, ten species are currently considered endemic to Pakistan, the other 12 species being known from elsewhere in the region (Asia, Europe, and the Holarctic). The pupilloid fauna displays a high degree of Palaeartic/Holarctic influence at the generic level.



Key words.— Terrestrial snails, pupilloids, Pakistan, new species, *Columella*, *Truncatellina*, *Boysia*, *Vertigo*, *Gastrocopta*, *Boysidia*, *Pupilla*.

REDESCRIPTION OF *BUSAS DISSOLUTUS* JACOBI, 1909, WITH NOTES ON TAXONOMIC POSITION OF THE GENUS (HEMIPTERA: FULGOROMORPHA: TROPIDUCHIDAE)

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Abstract.— The monotypic Australian planthopper *Busas* Jacobi, 1909 with type species *Busas dissolutus* Jacobi, 1909 is redescribed. The taxonomical placement of *Busas* (in Gaetullini) and generic status of *Busas* and *Paralasonia* as valid taxa are confirmed. *Paralasonia australis* Muir, 1924 is recorded for the first time from New South Wales in Australia.



Key words.— Ricaniidae, Tropiduchidae, Gaetuliini, *Busas*, *Paralasonia*, Australia.

ON THE MORPHOLOGY AND MITOCHONDRIAL
DNA BARCODING OF THE FLESH FLY *SARCOPHAGA*
(*LIOPYGIA*) *ARGYROSTOMA* (ROBINEAU-DESVOIDY, 1830)
(DIPTERA: SARCOPHAGIDAE) – AN IMPORTANT
SPECIES IN FORENSIC ENTOMOLOGY

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Abstract.— Descriptions of the developmental stages of *Sarcophaga (Liopygia) argyrostoma* (R.-D.) are given. Scanning electron microscope images of most of its immature stages are presented for the first time. The sequence of mitochondrial cytochrome c oxidase subunit I (COI) gene fulfilling DNA barcoding standards is presented for the first time.



Key words.— Diptera, Sarcophagidae, developmental stages, forensic entomology, mitochondrial DNA, cytochrome oxidase (COI).

FOUR NEW SPECIES OF THE SUBGENUS *STEGANINA* (DIPTERA: DROSOPHILIDAE: *STEGANA*) FROM SOUTHERN CHINA

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Abstract.— Four new species of the subgenus *Stegana* (*Steganina*) are found from southern China: *S. (S.) clavispinuta* **sp. nov.**, *S. (S.) cyclophylla* **sp. nov.**, *S. (S.) euryphylla* **sp. nov.** and *S. (S.) lepismina* **spp. nov.**, they can not to be placed under four species groups established. A key to the species of uncertain affinity among species group from China is provided.



Key words.— China, new species, *Stegana*, taxonomy.

THE GENUS *PACHYCERINA* MACQUART, 1835 FROM CHINA (DIPTERA: LAUXANIIDAE)

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Abstract.— In the present paper, *Pachycerina carinata* **sp. nov.** is described as new to science and *Pachycerina flaviventris* Malloch, 1929 is newly recorded for China. A key to separate six species of the genus from China is presented.



Key words.— Diptera, Lauxaniidae, *Pachycerina*, new species, China.

TAXONOMIC STUDY OF THE GENUS *MAERKELOTTRITIA* HAMMER, 1967 (ACARI: ORIBATIDA: ORIBOTRITIIDAE) FROM CHINA, WITH DESCRIPTION OF A NEW SPECIES

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Abstract.— The genus *Maerkelotritia* is reviewed. *Maerkelotritia fusiformis* **sp. nov.** from litter in temperate forest in Shanxi Province, China, is described, and one newly recorded species, *M. krivolutzkii* Märkel, 1968, is redescribed. *M. kirghizica* Niedbala, 2006 is considered as a new junior synonym of *M. krivolutzkii*. The genus *Maerkelotritia* is reported for the first time from China.



Key words.— Oribatid mite, Oribotritiidae, *Maerkelotritia*, new species, new synonym, new record, China.

A REVISION OF THE AFRICAN SPIDER GENUS *NIGORELLA* (ARANEAE: SALTICIDAE)

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Abstract.— Redescriptions of members of the African jumping spider genus *Nigorella* are presented, key for males is provided and distribution map is given. One species from South Africa and Zimbabwe *N. hirsuta* **sp. nov.** is described. *Phileus manicus* and *Pachypoessa albimana* are removed from the synonyms of *Euophrys plebeja*. The name *Euophrys plebeja* is treated as *nomen dubium*.



Key words.— Salticidae, *Nigorella*, new species, redescriptions, Afrotropical region, new faunistic records.

MORPHOLOGY OF JUVENILE STAGES OF *EPIDAMAEUS KAMAENSIS* (SELLNICK, 1925) AND *POROBELBA SPINOSA* (SELLNICK, 1920) (ACARI: ORIBATIDA: DAMAEIDAE)

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Abstract.— Detailed morphological descriptions of juvenile stages of two oribatid species from the family Damaeidae: *Epidamaeus kamaensis* (Sellnick, 1925) and *Porobelba spinosa* (Sellnick, 1920) are presented. Juvenile stages of *E. kamaensis* and earlier known immatures of *Epidamaeus* (*E. puritanicus*, *E. longisetus*) differ by minor differences in setal structure and measurements. Juvenile stages of *Epidamaeus* and *Damaeus* differ by the following characters: shape of exuvial attachment cornicle in nymphs, correlation of the length and structure of gastronotal setae, the larval body posterior, form of sensilli, and leg setation. Juvenile stages of these two genera are identical in genital, aggenital, anal, adanal, gastronotal and epimeral setation, structure of famulus, and structure of cerotegument. Moreover, in the present paper new data about immatures of *Porobelba spinosa*. It is the first record of all juvenile stages of *Porobelba*, that is why a comparison of ontogeny development of this genus and other damaeid mites is premature.



Key words.— *Epidamaeus kamaensis*, *Porobelba spinosa*, Damaeidae, morphology, juvenile stages, oribatid mite.

A NEW GENUS OF THE TRIBE ASCLERINI (COLEOPTERA: OEDEMERIDAE) FROM SOUTHEASTERN CHINA

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Abstract.— A new genus of the tribe Asclerini, *Asclernacertes* **gen. nov.** and its type-species *Asclernacertes akiyamai* **sp. nov.** from China: Guangdong province are described and illustrated.



Key words.— Taxonomy, new genus, new species, Oedemeridae, Asclerini, Palaearctic region.

A REVISION OF THE GENERA *SCYMNODES* BLACKBURN AND *APOLINUS* POPE ET LAWRENCE (COLEOPTERA: COCCINELLIDAE)

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Abstract.— The genera *Scymnodes* Blackburn, 1889 and *Apolinus* Pope et Lawrence, 1990 (Coleoptera: Coccinellidae), endemic to Australia and New Guinea, are revised. Fifteen species of *Scymnodes* are treated of which seven are new (*S. howdenorum* sp. nov., *S. luteohirtus* sp. nov., *S. aciculatus* sp. nov., *S. metallicus* sp. nov., *S. magnus* sp. nov., *S. riedeli* sp. nov. and *S. hirtus* sp. nov.). *Scymnodes koebeli* var. *immaculatus* Blackburn, *Platyomus baccaeiformis* Blackburn, *Scymnodes (Dolinus) maculiger* Weise, *Scymnodes koebeli* var. *eugeniae* Blackburn, *Scymnodes (Dolinus) tristis* Weise, and *Scymnodes (Dolinus) fulvipes* Weise, are new junior synonyms of *Scymnodes koebeli* Blackburn (**new synonyms**). Lectotypes are designated for *Scymnodes koebeli* var. *eugeniae* Blackburn, *Scymnodes (Dolinus) tristis* Weise, and *Scymnodes (Dolinus) fulvipes* Weise. *Rhizobius laticollis* Weise, 1913 is transferred to *Scymnodes* (**new combination**) and its lectotype is designated. Seven species of *Apolinus* are recognised, of which two are new (*A. irian* sp. nov., *A. jaya* sp. nov.). *Scymnodes chapuisi* Weise, 1923 is a new junior synonym of *A. lividigaster* (Mulsant, 1853) and *Scymnodes spilotus* Weise (1923), *Scymnodes papuanus* Weise (1918), and *Scymnodes punctiger* Weise (1918) are new junior synonyms of *A. terminalis* (Blackburn, 1895) (**new synonyms**) and lectotypes are designated for all these species. *Scymnodes longicornis* Weise, 1918 is transferred to *Apolinus* (**new combination**) and a lectotype is designated. *Rhynchortalia wallacii* Crotch, 1874 is transferred to *Apolinus* (**new combination**) and is reduced to a subspecies of *A. lividigaster* (**stat. nov.**). All the species are described, illustrated, and keyed. Biological information is provided if available.



Key words.— Coleoptera, Coccinellidae, *Scymnodes*, *Apolinus*, revision, Australia, New Guinea, new species

REVISION OF THE GENUS *ORCUS* MULSANT (COLEOPTERA: COCCINELLIDAE: CHILOCORINI)

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Abstract.— Species of the genus *Orcus* Mulsant, 1850 are revised, keyed and illustrated. *Orcus biroi* var. *ruficollis* Weise, 1902 is regarded as a synonym of *Orcus biroi* Weise, 1902 **new synonym**. Lectotypes are designated for *Orcus biroi* Weise, *Orcus biroi* var. *ruficollis* Weise, *Orcus cinctus* Weise and *Orcus nigricollis* Weise. Three **new species**, all from New Guinea, are described: *Orcus cordiformis*, *O. tetrafasciatus*, *O. viridulus*. *Orcus carinicus* Gorham, *O. bipunctatus* Gorham and *O. quadriguttatus* Gorham are removed from Chilacorini and transferred to the genus *Sticholotis* Crotch (Sticholotidini) (**new combinations**). Distribution, nomenclatural history and diagnoses are provided for each species.



Key words.— Entomology, taxonomy, revision, Coleoptera, Cucujoidea, Chilacorini, *Orcus*.

***CYCLOTOMA KERINTJI* SP. NOV. OF ENDOMYCHIDAE
FROM SUMATRA (COLEOPTERA: CUCUJOIDEA)**

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Abstract.— *Cyclotoma kerintji* sp. nov. from Sumatra is described and illustrated. An updated key to the world species of *Cyclotoma* is presented.



Key words.— Entomology, taxonomy, new species, Cucujoidea, Endomychinae, *Cyclotoma*.

**A NEW SPECIES OF THE GENUS *MEGALOCOLASPOIDES*
L. MEDVEDEV, 2005 (CHRYSOMELIDAE: EUMOLPINAE)
FROM BORNEO**

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Abstract.— *Megalocolaspoides borneoensis* sp. nov. is described. A revised key for the genera of *Colaspoides*-group is given. An unusual structure of the spermatheca, namely the ductus in this genus is discussed.



Key words.— *Chrysomelidae*, *Eumolpinae*, new species, Borneo.

BRACHYCYPHON FAIRMAIRE, 1896, A NEGLECTED GENUS OF AFROTROPICAL SCIRTIDAE (COLEOPTERA)

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Abstract.— *Brachycyphon anthracinus* Fairmaire, the type species of *Brachycyphon* Fairmaire is redescribed, its lectotype is designated. The genus *Brachycyphon* Fairmaire is compared with other *Cyphon*-like scirtid genera, a differential diagnosis and an identification key is provided. The following afrotropical taxa are transferred to *Brachycyphon*: *Cyphon alberti* Pic, *Cyphon alexandri* Pic, *Cyphon atriceps* Pic, *Cyphon atricolor* Pic, *Cyphon atrofasciatus* Pic, *Cyphon atrovittatus* Pic, *Cyphon aymerichi* Pic, *Cyphon aymerichi tananarivanus* Pic, *Cyphon fairmairei* Pic, *Cyphon fasciatusin-uatus* Pic, *Cyphon fuscopictus* Fairmaire, *Cyphon gerardi* Pic, *Cyphon gerardi basilewskyi* Pic, *Cyphon gerardi insuturalifer* Pic, *Cyphon grandenotatus* Pic, *Cyphon humerosus* Fairmaire, *Cyphon jeanneli* Pic, *Cyphon jeanneli innotaticollis* Pic, *Cyphon kijabensis* Pic, *Cyphon luteosignatus* Pic, *Cyphon oblongulus* Fairmaire, *Cyphon ovatulus* Fairmaire, *Cyphon plurisignatum* Pic, *Cyphon uwiranus* Pic, *Cyphon villiersi* Pic, *Cyphon villiersi insignatus* Pic, *Elodes clemenceaui* Pic, *Elodes lloydi* Pic, *Elodes petaini* Pic, *Scirtes lippensi* Pic, *Scirtes seminiger* Pic. *Cyphon mimodiversicolor rutovuensis* Pic and *Cyphon mimodiversicolor semimarginatum* Pic are elevated to species level and transferred to *Brachycyphon*. *Brachycyphon afrosuturalis* nom. nov. is proposed for *Cyphon suturalis* Pic, 1952 (nec *Cyphon suturalis* Tournier, 1868). *Cyphon leoni* Klausnitzer, 1974 is a new objective synonym of *Cyphon fairmairei* Pic, 1913. A catalogue of *Brachycyphon* is included.



Key words.— Coleoptera, Scirtidae, *Brachycyphon*, *Calvarium*, *Cyphon*, *Dermestocyphon*, *Herthania*, *Hydrocyphon*, *Memorocyphon*, *Oreocyphon*, *Ypsilonocyphon*, new combinations.

NEW SPECIES OF THE TRIBE MEGAPENTHINI GURJEVA, 1973 (COLEOPTERA, ELATERIDAE) FROM ASIA

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Abstract.— **Abstract.**— Eight new species of the Tribe Megapenthini Gurjeva, 1973 from China, Laos, and from the Philippines are described and illustrated: *Cateanus kucerai* **sp. nov.**, *Friedrichiellus luzonensis* **sp. nov.**, *Gamepenthis kresli* **sp. nov.**, *G. phoupanensis* **sp. nov.**, *G. shinuishanensis* **sp. nov.**, *G. turnai* **sp. nov.**, *Megapenthis jintangensis* **sp. nov.**, *Procrærus kresli* **sp. nov.** A key to the species of the genus *Gamepenthis* Fleutiaux, 1928 from China, and one from Laos and Vietnam is provided, zoogeographical and taxonomical remarks as well as a discussion on the phylogenetic importance of some characters of the species and their ecobiotic life are given.



Key words.— Coleoptera, Elateridae, Megapenthini, new species, China, Laos, Philippines.

REVISION OF THE AUSTRALIAN COCCINELLIDAE (COLEOPTERA). GENUS *DIOMUS* MULSANT. PART 1

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Abstract.— The first paper dealing with revision of the Australian members of cosmopolitan genus *Diomus* Mulsant treats 30 species, mostly with distinct colour pattern, that can be identified using external characters. Nomenclatural history, diagnoses, illustrations and distribution are provided for each species. Fifteen new species are described: *Diomus ancorus* sp. nov., *D. bimaculatus* sp. nov., *D. brookfieldi* sp. nov., *D. capital* sp. nov., *D. kuranda* sp. nov., *D. kosciuszko* sp. nov., *D. millaamillae* sp. nov., *D. marmorosus* sp. nov., *D. ningning* sp. nov., *D. reidi* sp. nov., *D. storeyi* sp. nov., *D. tinaroo* sp. nov., *D. torres* sp. nov., *D. weiri* sp. nov., *D. zborowskii* sp. nov.. The following new synonyms are proposed: *Diomus sphragitis* (Weise, 1885) = *Scymnus trilobus* Lea, 1902 = *Scymnus indistinctus* Lea, 1902; *Diomus sydneyensis* (Blackburn, 1892) = *Scymnus mimicus* Lea, 1902 = *Scymnus pectoralis* Lea, 1902 (**new synonyms**). *Scymnus australis* Blackburn, 1889 is transferred to *Diomus* (**new combination**). Lectotypes are designated for the following taxa: *Diomus rusticus* Weise, 1859; *Scymnus australis* Blackburn, 1889; *S. corticalis* Lea, 1908; *S. cucullifer* Blackburn, 1892; *S. ementitor* Blackburn, 1895; *S. flavifrons* Blackburn, 1892; *S. flavolaterus* Lea, 1926; *S. indistinctus* Lea, 1902; *S. jocosus* Blackburn, 1892; *S. kamerungensis* Blackburn, 1895; *S. meyricki* Blackburn, 1889; *S. mimicus* Lea, 1902; *S. notescens* Blackburn, 1889; *S. pectoralis* Lea, 1902; *S. (D.) pumilio* Weise, 1885; *S. (D.) scapularis* Weise, 1885; *S. striatus* Lea, 1902; *S. sydneyensis* Blackburn, 1892; *S. tenebricosus* Boheman, 1859 and *S. trilobus* Lea, 1902.



Key words.— Taxonomy, Cucujoidea, Coccinellidae, Diomini, *Diomus*, Australia.