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Descriptions of three new *Platypalpus* Macquart from Guangdong, China (Diptera, Hybotidae, Tachydromiinae)

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Descriptions of three new *Platypalpus* Macquart from Guangdong, China (Diptera, Hybotidae, Tachydromiinae). - *Platypalpus* Macquart is recorded for the first time from Guangdong province. Three new species are described as new to science: *P. convergens* sp. n., *P. guangdongensis* sp. n., *P. zhangae* sp. n. A key to the species of the genus from Guangdong is presented.

Keywords: Hybotidae - Tachydromiinae - *Platypalpus* - Guangdong - new species.

New species and records of the genus *Basanus* Lacordaire (Insecta: Coleoptera: Tenebrionidae)*

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New species and records of the genus *Basanus* Lacordaire (Insecta: Coleoptera: Tenebrionidae). - Newly collected specimens of the genus *Basanus* Lacordaire, 1859 from southeastern Asia are presented, including new distributional data and new species: *Basanus halmahericus* sp. n. (Moluccas: Halmahera), *Basanus luzonicus* sp. n. (Philippines: Luzon), *Basanus poringicus* sp. n. (Borneo: Sabah). For *Basanus philippinensis* Gebien, 1925 lectotype and paralectotypes are designated.

Keywords: Tenebrionidae - *Basanus* - new species - distribution - figures.

Further considerations regarding the status of *Grosphus madagascariensis* (Gervais) and *Grosphus hirtus* Kraepelin, and description of a new species (Scorpiones, Buthidae)

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Further considerations regarding the status of *Grosphus madagascariensis* (Gervais) and *Grosphus hirtus* Kraepelin, and description of a new species (Scorpiones, Buthidae). -

New considerations regarding the species *Grosphus madagascariensis* (Gervais, 1843), type species of the genus *Grosphus* Simon, 1880, and *Grosphus hirtus* Kraepelin, 1900 are proposed, and both species are redescribed. One new species, *Grosphus goudoti* sp. n., is described from the Province d'Antsiranana, Forêt de Bobankora, E of Daraina on the northern range of Madagascar. With this description the total number of known species in this endemic genus is now 15. Some details are presented on the ecological settings of the sites where the described specimens were collected. A revised key to the species of *Grosphus* is given.

Keywords: Scorpiones - Buthidae - *Grosphus* - new species - taxonomy - Madagascar.

***Vitronura mascula*, a new species of Neanurinae (Collembola: Neanuridae) from northern Vietnam, with a key to the species of the genus**

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***Vitronura mascula*, a new species of Neanurinae (Collembola: Neanuridae) from northern Vietnam, with a key to the species of the genus. -** A new species of the genus *Vitronura* Yosii, 1954 sensu Cassagnau, 1986 from northern Vietnam is described and illustrated. An identification key for all the known species of the genus is given.

Keywords: Collembola - Neanuridae - taxonomy - Vietnam.

The Palaearctic trioziids associated with Rubiaceae (Hemiptera, Psylloidea): a taxonomic re-evaluation of the *Trioza galii* Foerster complex

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The Palaearctic trioziids associated with Rubiaceae (Hemiptera, Psylloidea): a taxonomic re-evaluation of the *Trioza galii* Foerster complex. - The Palaearctic *Trioza galii* complex is revised to contain *T. cocquemoti* sp. n., *T. drosopouli* sp. n., *T. galii* Foerster and *T. velutina* Foerster stat. rev., with following new synonymies: *T. rubiae* Baeva and *T. rubicunda* Loginova = *T. galii* and *Trioza distincta* Flor = *T. velutina*, respectively. *T. galii* f. *spinogalii* Šulc and *T. galii* f. *aspinovelutina* Šulc are considered to be of infrasubspecific rank and thus unavailable. *Trioza velutina* var. *thoracica* Flor is an available name regarded as nomen dubium. Lectotypes are designated for *Trioza galii* and *T. velutina*. Adults and last instar larvae (except *T. velutina*) are diagnosed and illustrated. Identification keys are provided. All four species are associated with Rubiaceae on which they induce galls. Confirmed hosts of *T. galii* are *Galium* spp. and *Asperula cynanchica*, literature records also suggest *Sherardia arvensis* and *Rubia* spp. *T. cocquemoti* and *T. drosopouli* develop on *Rubia* spp. *T. velutina* is probably associated with *Galium* spp. but hard evidence is not available. The *T. galii* complex is diagnosed using adult and larval characters. The definition is similar to Conci's (1992) concept of *Spanioza* but excludes *S. tamaninii*. *S. tamaninii* is morphologically intermediate between the *T. galii* complex and the *T. centranthi* complex (associated with Valerianaceae) which may be sister groups. The synonymy of *Spanioza* with *Trioza* is confirmed, and the new combination *Trioza tamaninii* is proposed.

Keywords: Hemiptera - Psylloidea - Triozidae - taxonomy - new taxa - Rubiaceae - Palaearctic.

A new species of *Diathrausta* Lederer, 1863 from Africa (Lepidoptera, Pyraloidea, Crambidae, Spilomelinae)

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A new species of *Diathrausta* Lederer, 1863 from Africa (Lepidoptera, Pyraloidea, Crambidae, Spilomelinae). - *Diathrausta semilunalis* sp. n. is described from Southern Africa. The adult, genitalia, and tympanal organs are illustrated. Its placement in *Diathrausta* is discussed. *Cangetta fulviceps* (Hampson, 1917) comb. n. is excluded from the genus *Diathrausta*.

Keywords: *Diathrausta semilunalis* sp. n., Africa

Redescription of *Ceratophysella lawrencei* (Gisin, 1963) (Collembola: Hypogastruridae)

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Redescription of *Ceratophysella lawrencei* (Gisin, 1963) (Collembola: Hypogastruridae). - *Ceratophysella lawrencei* (Gisin, 1963) is redescribed based on material from Switzerland (types), Austria, Italy and Poland. A lectotype is designated. Notes on morphology of the closely related species *Ceratophysella neomeridionalis* (Nosek & Červek, 1970) are given.

Keywords: Collembola - Hypogastruridae - *Ceratophysella lawrencei* - *Ceratophysella neomeridionalis* - taxonomy - Europe.

Description of *Ceratophysella robustiseta* sp. n. from greenhouses in England, with notes on synonymy of *C. postantennalis* Yosii, 1966 and taxonomic status of *C. morula* Deharveng & Bourgeois, 1991 (Collembola: Hypogastruridae)

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Description of *Ceratophysella robustiseta* sp. n. from greenhouses in England, with notes on synonymy of *C. postantennalis* Yosii, 1966 and taxonomic status of *C. morula* Deharveng & Bourgeois, 1991 (Collembola: Hypogastruridae). - *Ceratophysella robustiseta* sp. n. from greenhouses in Kew Gardens (London, England) is described. Notes on morphology and taxonomic status of a related species *Ceratophysella morula* Deharveng & Bourgeois, 1991 are given. *Ceratophysella postantennalis* Yosii, 1966 is synonymized with *Hypogastrura nepalica* Yosii, 1966, syn. n.

Keywords: Collembola - Hypogastruridae - *Ceratophysella* - taxonomy.

Nomenclatural note on the genus *Nans* (Ostariophysi, Characidae)

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Nomenclatural note on the genus *Nans* (Ostariophysi, Characidae). - The generic name *Nans* Mirande, Aguilera & Azpelicueta, 2004 is preoccupied by an annelid. The monotypic fish genus *Nans* is therefore renamed to *Nantis*.

Keywords: Characiformes - *Nans* - *Nantis* - homonymy - new name.

***Taygete sphecophila* (Meyrick) (Lepidoptera; Autostichidae): redescription of the adult, description of the larva and pupa, and impact on *Polistes* wasps (Hymenoptera; Vespidae) nests in the Galapagos Islands**

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***Taygete sphecophila* (Meyrick) (Lepidoptera; Autostichidae): redescription of the adult, description of the larva and pupa, and impact on *Polistes* wasps (Hymenoptera; Vespidae) nests in the Galapagos Islands.** - *Taygete sphecophila* (Meyrick) (Lepidoptera; Autostichidae) is reported on the Galapagos Islands. The morphology of the moth, larva, and pupa are described and illustrated in details. Part of the mitochondrial DNA was sequenced and made available on GenBank. The incidence of predation by *T. sphecophila* on nests of *Polistes versicolor* Olivier (Hymenoptera; Vespidae) was measured in four different vegetation zones of Floreana and Santa Cruz Islands. The percentages of infested nests varied greatly (from 13.9% to 66.7% on Floreana and from 20.0 to 100% on Santa Cruz) and no clear ecological trends could be ascertained.

Keywords: Micro moths - Autostichidae - *Taygete* - *Polistes* - Galapagos Islands - mitochondrial DNA - larval predation - morphology - ecology.

The European athecate hydroids and their medusae (Hydrozoa, Cnidaria): Capitata Part 1

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The European athecate hydroids and their medusae (Hydrozoa, Cnidaria): Capitata Part

1. - This study reviews all European hydrozoan species belonging to the capitate families Acaulidae, Boreohydridae, Candelabridae, Cladocorynidae, Cladonematidae, Margelopsidae, Pennariidae, Protohydridae, and Tricyclusidae. Updated diagnoses for the families and genera are provided and existing taxonomic problems solved or at least outlined. *Candelabrum verrucosum* Bonnevie, 1898 is regarded as a valid species and redescribed based on a new record from Greenland. Although *Spadix purpurea* Gosse, 1853 may be a senior synonym of *Candelabrum cocksii* (Cocks, 1854), the latter is regarded as the valid name, this because the former name has not been used after 1899, while the latter has been widely used [ICZN article 23.9.1.1]. Likewise, two senior synonyms of *Eleutheria claparedii* Hartlaub, 1898 are declared as invalid as they have never been used since their original introduction by Haeckel.

Keywords: Marine invertebrates - Cnidaria - Hydrozoa - Anthoathecata - Capitata - descriptions - revision - taxonomy.

Identification biométrique des deux espèces sympatriques de souris

Mus musculus domesticus et *Mus spretus* en Kabylie du Djurdjura (Algérie)

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Biometrical identification of the sympatric mouse species *Mus musculus domesticus* and *Mus spretus* in Kabylie du Djurdjura (Algeria).

- This work aimed to validate biometric identification criteria (body and cranial measurements) for the two sympatric mouse species living in Algeria: the House mouse (*Mus musculus domesticus*) and the Algerian mouse (*M. spretus*). Trapped in three localities of Kabylie du Djurdjura, mice were first identified according to morphological criteria and second computing stepwise discriminant analyses and leave-one-out discriminant analyses on sets of the most relevant variables. Body measurements revealed more efficient than cranial measurements to discriminate the species. According to the original diagnosis of *M. spretus*, the Algerian mouse's tail was shorter than the House mouse's tail. The ratio 'tail length over head and body length' was highly discriminant (95% of correct classification); the score was still better (97%) when the diameter of the tail was included in the discriminant analysis. On the skull, the zygomatic ratio 'width of the dorsal ramus of the zygomatic arch over width of the zygomatic arch' was the only discriminant variable (90.4% of the correct classification). No identification was reliable with mandible measurements. Relevant discriminant values were then compared with values obtained from European samples.

Keywords: Algeria - biometrics - skull - discriminant analysis - *Mus spretus* - *Mus musculus domesticus*.

A review of *Capoeta tinca*, with descriptions of two new species from Turkey (Teleostei: Cyprinidae)

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A review of *Capoeta tinca*, with descriptions of two new species from Turkey (Teleostei: Cyprinidae). - Fishes previously referred to *Capoeta tinca* in Turkey and Georgia belong to three species: *C. tinca* in rivers draining to the Marmara Sea, *C. baliki*, new species, in rivers draining to the southwestern Black Sea, and *C. banarescui*, new species, in the Çoruh River drainage. *Capoeta banarescui* is distinguished by missing sexual dimorphism in the mouth shape (present in the two other species) and fewer and larger scales. *Capoeta baliki* is distinguished by its more slender body and caudal peduncle, and blunter head.

Keywords: New species - Cyprinidae - *Capoeta* - Çoruh River - Sakarya River - Kızılırmak River - Anatolia.