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**New reports of mayflies (Insecta: Ephemeroptera) from Tunisia**

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**New reports of mayflies (Insecta: Ephemeroptera) from Tunisia.** - Four species of Ephemeroptera are recorded for the first time from Tunisia: *Sparbarus kabyliensis* (Caenidae), *Habrophlebia consiglioi* (Leptophlebiidae), *Nigrobaetis rhithralis* and *Procloeon stagnicola* (Baetidae). The genus *Nigrobaetis* is mentioned for the first time from Tunisia; *H. consiglioi* is reported for the first time from North Africa and is not an endemic to Sardinia. All these species were collected in streams located in Northern Tunisia. The eggs of *Sparbarus kabyliensis* are described for the first time.

**Keywords:** Ephemeroptera - *Habrophlebia consiglioi* - *Sparbarus kabyliensis* - *Procloeon stagnicola* - *Nigrobaetis rhithralis* - eggs - Northern Tunisia.

***Pseudoblothrus infernus* sp. n. (Pseudoscorpiones, Syarinidae) from the Hölloch cave (Schwyz, Switzerland), with new records of *Pseudoblothrus strinatii* Vachon from Switzerland and France**

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***Pseudoblothrus infernus* sp. n. (Pseudoscorpiones, Syarinidae) from the Hölloch cave (Schwyz, Switzerland), with new records of *Pseudoblothrus strinatii* Vachon from Switzerland and France.** - The new species *Pseudoblothrus infernus* n. sp. is described from the Hölloch cave in the canton of Schwyz, Switzerland. It is the third species of this genus recorded from this country. New records are given for *Pseudoblothrus strinatii* Vachon, found in caves of the Jura Mountains of Switzerland (canton of Neuchâtel) and in France (Doubs department).

**Keywords:** Biospeleology - taxonomy.

**New records of pseudoscorpions from the Juan Fernandez Islands (Chile), with the description of a new genus and three new species of Chernetidae (Arachnida: Pseudoscorpiones).**

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**New records of pseudoscorpions from the Juan Fernandez Islands (Chile), with the description of a new genus and three new species of Chernetidae (Arachnida: Pseudoscorpiones).** - The new genus *Selachochernes* gen. n. with the type species *S. allodentatus* sp. n. (♂ only) is described from Masatierra. The new genus is characterized by a rallum of 4 setae, the absence of a tactile seta on tarsus of leg IV, the very unusual dentition of the chelal fingers and the presence of only 3 trichobothria on the movable chelal finger. *Chelanops gracilipes* sp. n. and *Chelanops gracilipalpus* sp. n. are described from Masatierra. *Neocheiridium tenuisetosum* Beier, 1959 is recorded from this archipelago for the first time, *Lechytia kuscheli* Beier, 1957 is briefly redescribed. Additional records are given for species previously recorded from the Juan Fernandez Islands.

**Keywords:** *Selachochernes* - *Chelanops* - *Neocheiridium* - taxonomy.

**A new *Eudorylas* Aczél, 1940 from Central Asia (Diptera: Pipunculidae)**

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**A new *Eudorylas* Aczél, 1940 from Central Asia (Diptera: Pipunculidae).** - *Eudorylas manasi* Kehlmaier sp. n. is described from a specimen collected in the eastern part of the Kyrgyz Republic. The male holotype and its genitalia are figured. The species is briefly compared to other members of the *Eudorylas fascipes* species group of the Palaearctic and incorporated in an existing identification key. The pipunculid species presently recorded from the Kyrgyz Republic are listed.

**Keywords:** Diptera - Pipunculidae - *Eudorylas* - new species - Kyrgyz Republic - Palaearctic.

**New *Platypalpus* Macquart from Hubei, China (Diptera, Empidoidea, Hybotidae, Tachydromiinae)**

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**New *Platypalpus* Macquart from Hubei, China (Diptera, Empidoidea, Hybotidae, Tachydromiinae).** - Two new species of the genus *Platypalpus* Macquart belonging to the *P. longicornis* species-group are described as new to science: *P. dalongtanus* sp. n. and *P. pingqianus* sp. n. A key to the species of the genus from Hubei is presented.

**Keywords:** Diptera - Empidoidea - Tachydromiinae - *Platypalpus* - new species - China - Hubei.

**A new *Agyreta* Hull, 1911 from Iran (Araneae, Linyphiidae, Micronetinae)**

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**A new *Agyreta* Hull, 1911 from Iran (Araneae, Linyphiidae, Micronetinae).** - A new species, *Agyreta iranica* sp. n., is described from Golestan, Iran, differing from congeners by the shape of the distal part of the lamella characteristica in the male, as well as by the much wider entrance ducts, which are well translucent through the proscape in the female. The correct data for the type locality of *Megalephyphantes kandahar* Tanasevitch, 2009 is given.

**Keywords:** Arachnida - spiders - new species.

**On linyphiid spiders (Araneae) from the Eastern and Central Mediterranean kept at the Muséum d'histoire naturelle, Geneva**

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**On linyphiid spiders (Araneae) from the Eastern and Central Mediterranean kept at the Muséum d'histoire naturelle, Geneva.** - Ten species are described as new: *Araeoncus cypriacus* sp. n., *A. rhodes* sp. n., *Archaraeoncus hebraeus* sp. n., *Improphantes cypriot* sp. n., *I. turok* sp. n., *Jacksonella bidens* sp. n., *Megalephyphantes globularis* sp. n., *Stemonyphantes serratus* sp. n., *Troxochrus apertus* sp. n., and *Typhochrestus ikarianus* sp. n. Three new synonyms are established: *Erigone simillima* Keyserling, 1886 syn. n., *E. zographica* Crosby & Bishop, 1928 syn. n. and *E. viabilis* Chamberlin & Ivie, 1933 syn.

n. = *E. cristatopalpus* Simon, 1884. A new combination is proposed: *Tapinocyba silvestris* Georgescu, 1973 = *Crosbyarachne silvestris* (Georgescu, 1973) comb. n. The previously unknown female of *Gongylidiellum orduense* Wunderlich, 1995 is described. Some misidentifications are corrected: some material from Austria labeled as *E. cristatopalpus* actually refers to *E. tenuimana* Simon, 1884; a male from Mongolia identified as *E. zographica/tirolensis* belongs to *E. whymperi* O. P.-Cambridge, 1877; a record of *Gonatium hilare* (Thorell, 1875) from Sakhalin, Russia actually refers to *G. nipponicum* Millidge, 1981, thus the known distribution of *G. hilare* is restricted to Europe. A distribution pattern is indicated for several species.

**Keywords:** Arachnida - Linyphiidae - new species - new synonyms - new combination - new records.

### **Two new species of *Hybos* Meigen from Oriental China (Diptera, Empidoidea, Hybotidae)**

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**Two new species of *Hybos* Meigen from Oriental China (Diptera, Empidoidea, Hybotidae).** - The following two closely related species of the genus *Hybos* from Oriental China are described as new to science: *Hybos biancistroides* sp. n. and *Hybos yinyuhensis* sp. n. Their relationships with the morphologically similar species are discussed.

**Keywords:** Diptera - Hybotidae - *Hybos* - China - Hubei - new species

### **New Uropodina records from Switzerland (Acari: Mesostigmata) with the description of *Discourella helvetica* n. sp.**

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**New Uropodina records from Switzerland (Acari: Mesostigmata) with the description of *Discourella helvetica* n. sp.** - 24 Uropodina species were collected in several part of Switzerland. Eleven species are new to the fauna and one species (*Discourella helvetica* n. sp.) is new to science. Localities for all species, and description, original drawings and scanning micrographs of the new species are given.

**Keywords:** Acarology - turtle mites - taxonomy - faunistics.

**Revision of the Neotropical types of *Megarthus* Curtis, 1829 and description of two new species from Costa Rica and Peru (Coleoptera, Staphylinidae, Proteininae)**

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**Revision of the Neotropical types of *Megarthus* Curtis, 1829 and description of two new species from Costa Rica and Peru (Coleoptera, Staphylinidae, Proteininae).** - The nine *Megarthus* taxa hitherto described from the Neotropics are revised, and two new species are described from Costa Rica (*M. bierigi* sp. n.) and Peru (*M. machu* sp. n.). *Megarthus solitarius adelphus* Bierig is raised to species level (*M. adelphus* Bierig stat. nov.). Lectotypes are designated for *M. inaequalis* Bierig, *M. mammiger* Bierig, *M. mastiger* Bierig, *M. solitarius* Sharp, *M. solitarius adelphus* Bierig and *M. zunilensis* Sharp. These eleven species are described, and their diagnostic characters are figured. The diversity of the genus in the Neotropics is briefly discussed.

**Keywords:** Taxonomy - Mexico - Central America – South America - diversity.

**Redescription and history of *Vombisidris jacobsoni* (Forel, 1915) (Hymenoptera, Formicidae)**

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**Redescription and history of *Vombisidris jacobsoni* (Forel, 1915) (Hymenoptera, Formicidae).** - *Vombisidris jacobsoni* (Forel, 1915) is redescribed and recognized as a member of the *V. australis* group, as defined by Bolton (1991). A lectotype is designated. In addition, the convoluted history of the two type specimens in the Forel Collection at the Muséum d'histoire naturelle, Genève, Switzerland is presented. An additional paralectotype specimen from the Museo Civico di Storia Naturale “Giacomo Doria”, Genova, Italy is included.

**Keywords:** Formicidae - Formicoxenini - redescription - lectotype

## **Note sur la systématique de quelques espèces du genre *Prosymna* Gray, 1849 en Afrique au nord de l'équateur (Serpentes, Prosymnidae)**

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**Note sur la systématique de quelques espèces du genre *Prosymna* Gray, 1849 en Afrique au nord de l'équateur (Serpentes, Prosymnidae).** - Les importantes variations de coloration et d'écaillure chez *Prosymna meleagris* ont conduit à la description de nouveaux taxons, qui ont ensuite été placés en synonymie. Des collectes intensives réalisées au Cameroun nous ont permis de mettre en évidence une corrélation entre ces variations et leur répartition géographique. Nous avons rassemblé le matériel disponible dans les musées et les nombreuses collectes nouvelles que nous avons effectuées en Afrique occidentale et centrale pour mener parallèlement une analyse de la coloration, de l'écaillure et une analyse ADN. Nous montrons ainsi l'existence, dans trois types de milieux clairement différenciés, de trois taxons distincts: deux de rang spécifique, un de rang subsppécifique.

**Mots-clés:** *Prosymna meleagris* - *Prosymna greigerti* - Prosymnidae - Afrique - savane.

## **Notes on *Walckenaeria* species (Araneae: Linyphiidae) from China**

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**Notes on *Walckenaeria* species (Araneae: Linyphiidae) from China.** - Results of a survey of the erigonine genus *Walckenaeria* in China are presented. The name *W. cylindrica* Xu, 1994 is placed in the synonymy of *Paikiniana mira* (Oi, 1960). *W. ferruginea* Seo, 1991 is removed from the synonymy of *W. orientalis* (Oligier, 1985) and its female is described for the first time. The type specimens of *W. yunnanensis* Xia *et al.*, 2001 are re-examined. Descriptions of *W. dahaituoensis* sp. n. and *W. asymmetrica* sp. n., and redescriptions of *W. karpinskii* (O. P.-Cambridge, 1873), *W. ferruginea* and *W. yunnanensis* are provided. A total of ten *Walckenaeria* species are currently known from China.

**Keywords:** Taxonomy - revalidation - type - new synonym - new species.

**The genus *Pronura* (Collembola: Neanuridae) in South America, with descriptions of two new species and a barcode sequence for one of them**

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**The genus *Pronura* (Collembola: Neanuridae) in South America, with descriptions of two new species and a barcode sequence for one of them.** - In this paper two new species of *Pronura* from South America are described and illustrated. *Pronura gaucheri* sp. n. from French Guyana has setae A, B, C and D of the antennofrontal setal group present; Ocp of the ocular group is absent; and a single ordinary microseta is present close to the sensilla on dorso-external tubercles of abdominal segments I-III. *Pronura paraguayana* sp. n. from Paraguay has setae A, B and D in the antennofrontal setal group (C absent); Ocp of the ocular group is present; and two ordinary setae (including one macroseta) are present in the dorso-external setal group of abdominal segments I-III. In addition to the morphological descriptions, the mitochondrial cytochrome c-oxidase subunit I COI sequence (barcode) of *Pronura gaucheri* sp. n. is provided. This the first time that a Collembola species is described along with its barcode sequence.

**Keywords:** French Guyana - Paraguay - Neanurinae - DNA barcoding - COI.