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A taxonomic catalogue of the Dyspnoi Hansen and Sørensen, 1904 (Arachnida: Opiliones)

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Abstract

An update of the systematics and determination key of the Opiliones suborder Dyspnoi is provided. The included catalogue represents the first comprehensive species and synonymy listing since Roewer (1923). It summarises all taxonomic changes to date and attempts to be a sound basis against the exponential growing number of online errors, for which examples are given. Species taxonomy features most obvious changes within the Nemastomatidae. The number of species in the collective genus *Nemastoma* is reduced from 96 (Hallan 2005) to its sensu stricto definition of 7, and the excluded names are transferred to other genera or considered as nomina dubia, predominantly in *Paranemastoma*. The systematics of the superfamily Ischyropsalidoidea is discussed and family-level diagnoses are renewed to support taxonomical changes: The morphological heterogeneity in the Sabaconidae is resolved by reverting the family to its original monogeneric state. *Taracus* and *Hesperonemastoma* are separated as Taracidae **fam. n.**, and *Crosbycus* is tentatively transferred to this assembly. The remaining genera of Ceratolasmatidae, *Acuclavella* and *Ceratolasma*, are included as subfamily Ceratolasmatinae in the Ischyropsalididae and *Ischyropsalis* is assigned subfamily status, respectively. Other nomenclatural acts are restricted to species-group level with the following synonymies established: *Sabacon jonesi* Goodnight & Goodnight, 1942 **syn. n.** (= *cavicolens* (Packard, 1884)), *Dicranolasma diomedea* Kulczyński, 1907 **syn. n.** (= *hirtum* Loman, 1894), *Mitostoma* (*Mitostoma*) *sketi* Hadži, 1973a **syn. n.** (= *chrysomelas* (Hermann, 1804)), *Mitostoma asturicum* Roewer, 1951 **syn. n.** (= *pyrenaicum* (Simon, 1879a)), *Nemastoma formosum* Roewer, 1951 **syn. n.** (= *Nemastomella bacillifera bacillifera* (Simon, 1879a)), *Nemastoma reimoseri* Roewer, 1951 **syn. n.** (= *Paranemastoma bicuspidatum* (C.L. Koch, 1835)), *Nemastoma tunetanum* Roewer, 1951 **syn. n.** (= *Paranemastoma bureschi* (Roewer, 1926)), *Phalangium flavimanum* C.L. Koch, 1835 **syn. n.** (= *Paranemastoma quadripunctatum* (Perty, 1833)), *Crosbycus graecus* Giltay, 1932 **syn. n.** (= *Paranemastoma simplex* (Giltay, 1932)), *Nemastoma bimaculosum* Roewer 1951 **syn. n.** (= *Paranemastoma titaniacum* (Roewer, 1914)), *Trogulocratus tunetanus* Roewer, 1950 **syn. n.** (= *Calathocratus africanus* (Lucas, 1849)), *Trogulus albicerus* Sørensen, 1873 **syn. n.** (= *Calathocratus sinuosus* (Sørensen, 1873)), *Metopoctea exarata* Simon, 1879a **syn. n.** (= *Trogulus aquaticus* Simon, 1879a), *Trogulus galasensis* Avram, 1971 **syn. n.** (= *Trogulus nepaeformis* (Scopoli, 1763)) and *Trogulus roeweri* Avram, 1971 **syn. n.** (= *Trogulus nepaeformis* (Scopoli, 1763)). *Paranemastoma wernerii* (Kulczyński, 1903) is elevated from subspecies to species. *Ischyropsalis luteipes* Simon, 1872b is proposed as **nomen protectum**, taking precedence over *Lhermia spinipes* Lucas 1866 **nomen oblitum**. The same accounts for *Anelasmacephalus cambridgei* (Westwood, 1874) **nomen protectum**, taking precedence over *Trogulus violaceus* Gervais, 1844 **nomen oblitum**, *Trogulus closanicus* Avram, 1971 **nomen protectum** over *Trogulus asperatus* C.L. Koch, 1839a **nomen oblitum**, as well as *Trogulus martensi* Chemini, 1983 **nomen protectum** over *Trogulus tuberculatus* Canestrini, 1874 **nomen oblitum**. New combinations, all from *Nemastoma*, are *Histicostoma anatolicum* (Roewer, 1962), *Mediostoma globuliferum* (L. Koch, 1867), *Nemastomella hankiewiczii* (Kulczyński, 1909), *Nemastomella maarebense* (Simon, 1913), *Nemastomella monchiquense* (Kraus, 1961) and *Paranemastoma simplex* (Giltay, 1932); from *Mitostoma*: *Nemastomella armatissima* (Roewer, 1962). Revived combinations are *Nemastomella cristinae* (Rambla, 1969) (from *Nemastoma*) and *Nemastomella sexmucronatum* (Simon, 1911) (from *Nemastoma*). The following *Nemastoma* are transferred to *Paranemastoma* but suggested as nomina dubia: *aeginum* (Roewer, 1951), *amuelleri* (Roewer, 1951), *bolei* (Hadži, 1973a), *caporiaccoi* (Roewer, 1951), *carneluttii* (Hadži, 1973a), *ferkeri* (Roewer, 1951), *gigas montenegrinum* (Nosek, 1904), *gostivarense* (Hadži, 1973a), *ikarium* (Roewer, 1951), *quadripunctatum ios* (Roewer, 1917), *kaestneri* (Roewer, 1951), *longipalpatum* (Roewer, 1951), *macedonicum* (Hadži, 1973a), *multisignatum* (Hadži, 1973a), *nigrum* (Hadži, 1973a), *perflugium* (Roewer, 1951), *santorinum* (Roewer, 1951), *senussium* (Roewer, 1951), *sketi* (Hadži, 1973a), *spinosulum* (L. Koch, 1869). Further suggested nomina dubia are *Trogulus coreiformis* C.L. Koch, 1839a, *Trogulus lygaeiformis* C.L. Koch, 1839a and *Trogulus templetonii* Westwood, 1833.

Key words: Troguloidea, Ischyropsalidoidea, Ceratolasmatinae, Ischyropsalidinae, Taracidae fam. n., cyber-taxonomy, cyber-plagiarism, systematics, taxonomy

Introduction

When searching for taxonomic-systematic online resources on Opiliones one quickly discovers an extensive list managed by Joel Hallan (2005; the 'Hallan list') providing taxonomic and systematic information on many groups of animals. Its contribution to Opiliones is comprehensive, and the Hallan list is presently the only available digital entity, which gives most taxon names together with relevant taxonomic and additional information. Even with errors introduced, additional taxa described and systematics partly changed, these issues are recognisable for taxonomic experts, to whom the Hallan list serves as a good template. The main issue are other internet sites featuring taxonomy and systematics, approaching Hallan list information uncritically, multiplying initial errors and preserving outdated synonymies. Locating and correcting these errors throughout the Internet has already become a rather futile effort.