



## A revision of the *rugulosus* group of *Otostigmus* subgenus *Otostigmus* Porat, 1876 (Chilopoda: Scolopendromorpha: Scolopendridae)

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### Abstract

To facilitate a revision of *Otostigmus* (*Otostigmus*) which currently comprises 61 species, the subgenus is here subdivided into nine species groups based on Attems' (1930a) monograph. The largest, the *rugulosus* group, is the subject of this paper. In most cases, the type material is redescribed and variation discussed.

The following species are valid: *Otostigmus rugulosus* Porat, 1876, *O. spinosus* Porat, 1876, *O. astenus* (Kohlrausch, 1881), *O. punctiventer* (Tömösváry, 1885) (lectotype designated), *O. olivaceus* Attems, 1934, *O. noduliger* Verhoeff, 1937 (lectotype designated), *O. angusticeps schindleri* Würmli, 1972, *O. martensi* Lewis, 1992, and *O. beroni* Lewis, 2001. *O. feae* Pocock, 1891, *O. fossuliger* Verhoeff, 1937 and *O. rugulosus striaturatus* Verhoeff, 1937 are retained as valid but more data are required to establish their true status.

Reasons for previous confusion between *O. rugulosus* and *O. scaber* Porat, 1876 are discussed as are reasons for specimens of *O. astenus* being identified as *O. punctiventer* and some *O. punctiventer* as *O. spinosus*.

A lectotype is designated for *Otostigmus armatus* Attems, 1958 which is a junior subjective synonym of *O. multidentis* Haase, 1887. *Otostigmus owenii* Pocock, 1892, is a junior subjective synonym of *O. rugulosus* and *O. lewisi* Song *et al.*, 2005 a junior subjective synonym of *O. beroni*. *Otostigmus rugulosus* var. *mertoni* Ribaut, 1912, *O. celebensis* Attems, 1934, and *O. dammermani* Chamberlin, 1944, are nomina dubia.

A key to the species is provided.

**Key words:** synonymy, nomina dubia, keys

### Introduction

Attems' (1930a) key to *Otostigmus* (subgenus *Otostigmus*), members of which are found from the Canary Islands through Africa and Asia to Australia and New Zealand and the islands of the Pacific, contains 40 species several of which have been synonymised. Subsequently a further 35 species have been described and one species (*O. angusticeps* Pocock, 1898) reinstated (Lewis, 2001). Minelli (2006) lists 60 species. In addition there are *O. feae* Pocock, 1891 and *O. lewisi* Song *et al.*, 2005.

In order to facilitate the revision of this comparatively large subgenus I have divided it into nine species groups based on Attems (1930a) key as follows.

### Key to species groups of *Otostigmus* (*Otostigmus*)

- 1 Only tergite 21 marginate ..... *spinicaudus* group
- Marginate at least from tergite 17 ..... 2
- 2 Three antennomeres glabrous dorsally ..... 3
- 2–2.5 antennomeres glabrous dorsally..... 5
- 3 Ultimate leg prefemur with two rows of ventrolateral spines ..... *aculeatus* group