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On *Agelena labyrinthica* (Clerck, 1757) and some allied species, with descriptions of two new species of the genus *Agelena* from China (Araneae: Agelenidae)

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Abstract

Seven allied species of the funnel-weaver spider genus *Agelena* Walckenaer, 1805, including the type species *Agelena labyrinthica* (Clerck, 1757), known to occur in Asia and Europe, are reviewed on the basis of the similarity of genital structures. Two new species are described: *Agelena chayu* sp. nov. and *Agelena cuspidata* sp. nov. The specific name *A. silvatica* Oliger, 1983 is revalidated. The female is newly described for *A. injuria* Fox, 1936. Two specific names are newly synonymized: *Agelena daoxianensis* Peng, Gong *et* Kim, 1996 with *A. silvatica* Oliger, 1983, and *A. sublimbata* Wang, 1991 with *A. limbata* Thorell, 1897. Some names are proposed for these species to represent some particular genital structures: conductor ventral apophysis, conductor median apophysis, conductor distal apophysis and conductor dorsal apophysis for male palp and spermathecal head, spermathecal stalk, spermathecal base and spermathecal apophysis for female epigynum.

Key words: genital structure, revalidation, synonym, review, taxonomy

Introduction

The funnel-weaver spider genus *Agelena* was erected by Walckenaer (1805) with the type species *Araneus labyrinthicus* Clerck, 1757. The genus has been studied for more than two hundred years; however, it might still be polyphyletic now. Lehtinen (1967) suggested that only a few Palearctic species should be included in this genus, the other species should be transferred to other genera of Ageleninae C.L. Koch, 1837. Levy (1996) stated that the obvious heterogeneity of the genital characters of *Agelena* inevitably led to the formation of a number of separate genera. On studying Israeli agelenids, Levy erected a new genus *Agelescape* Levy, 1996 to accommodate the species *Agelena affinis* Kulczynski, 1911 and

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