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First record of the genus *Abrhexosa* Freeman from Mexico, with the description a new species, and two new species and new records of the genus *Swammerdamella* Enderlein (Diptera: Scatopsidae)

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Abstract

The genus *Abrhexosa* Freeman is reported for the first time from Mexico, with the description of a new species, *A. patriciae* **sp. nov.**, very close to *A. panamensis* (Cook, 1956). Two new species of the genus *Swammerdamella* Enderlein, 1912 from Mexico are described and illustrated: *Swammerdamella amorimi* **sp. nov.** and *S. amacuzacae* **sp. nov.** *Swammerdamella mojingae* Cook, 1956 is reported for the first time for Mexico, and new records are included for *S. marginata* Cook, 1956. A key for the species of *Swammerdamella* of Mexico is provided.

Keys words: Scatopsidae, *Abrhexosa*, *Swammerdamella*, Mexico, new species, key

Resumen

El género *Abrhexosa* Freeman es registrado por primera vez en México, con la descripción de una nueva especie, *A. patriciae* **sp. nov.**, la cual es muy cercana a *A. panamensis* (Cook, 1956). Dos nuevas especies del género *Swammerdamella* Enderlein, 1912 de México son descritas e ilustradas: *Swammerdamella amorimi* **sp. nov.** y *S. amacuzacae* **sp. nov.** *Swammerdamella mojingae* Cook, 1956 es registrada por primera vez en México, y nuevos registros para *S. marginata* Cook, 1956 son incluidos. Una clave para las especies de *Swammerdamella* de México es provista.

Introduction

The Scatopsidae presently include 33 genera in the world (Amorim 2009a) and contain about 350 named species worldwide (Haenni 1997). The Mexican fauna comprises at present 11 genera and 31 species. One species previously described by Duda (1928), *Scatopse maritima*, requires re-examination of the type material because its taxonomic position is uncertain (unplaced in the catalogue of Neotropical scatopsid species (Amorim 2009a)). It must be stressed, nevertheless, that a large number of undescribed species are known from different parts of the Neotropical Region and require study (Amorim 2009b).

Within the subfamily Scatopsinae, the tribe Swammerdamellini includes a number of the genera of species of smaller size, and with tropical distribution. This includes the genera *Swammerdamella* Enderlein, 1912, *Coboldia* Melander, 1916, *Rhexoza* Enderlein, 1936, *Hawomersleya* Cook, 1971b, *Quateiella* Cook, 1975, *Akorhexoza* Cook, 1978, *Abrhexosa* Freeman, 1990, *Pararhexosa* Freeman, 1990, *Cooka* Amorim, 2007, and *Brahemyia* Amorim, 2007 (for a discussion of the tribe, see Amorim 2007).

According to Amorim (2007) the genus *Abrhexosa* Freeman, 1990 is distributed in the Nearctic, Neotropical and Oriental regions. In the Neotropical region, only *A. panamensis* (Cook, 1956) is known, from Panama (Amorim 2009a).

The genus *Swammerdamella* Enderlein, 1912 is worldwide in distribution and in the Neotropical Region is known by seven described species (Cook 1967, 1971; Amorim 2009a). However, Amorim (2009b) mentions eight