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Pterygosomatid mites of a new species group *ligare* (Acariformes: Pterygosomatidae: *Pterygosoma*) parasitizing tree iguanas (Squamata: Liolaemidae: *Liolaemus*)

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Abstract

Key words: Acari, ectoparasites, Liolaemidae, lizards, Pterygosomatidae

Introduction

Most representatives of the family Pterygosomatidae (Acariformes: Pterygosomatidae) are permanent and highly specified, mono- or oligoxenous ectoparasites of lizards (Reptilia: Squamata), only the genus *Pimeliaphilus* Trägårdh contains species that are parasites of arthropods. The subgenus *Pterygosoma* includes 48 species. Most of them are know from hosts of the family Agamidae (47 species) and only one species is known from hosts of the family Liolaemidae (Fajfer 2012).

In this work, we describe six new *Pterygosoma* spp. from the three iguanid lizards of the genus *Liolaemus* (Squamata: Liolaemidae) from Chile. These new species constitute a separate species group *ligare* which clearly differs from other known species of the subgenus. A key to females of the new species group is provided.

Material and methods

Mites used in the present study were preserved in 70% ethanol. Before mounting in Hoyer's medium, mites were cleared and softened in Nessbitt's solution at +60°C for 1–3 hours. Specimens were studied using the light microscope Olympus BH-2 with differential interference contrast (DIC) illumination and drawings were made using a camera lucida. Specimens destined for scanning electron micrographs (SEM) were dehydrated in ethanol, dried by using the critical point technique, covered with gold, and examined with a Carl Zeiss AG—EVO®40