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## A new genus for a Chilean species of Acanthosomatidae (Hemiptera: Heteroptera)

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### Abstract

*Sinopla canaliculus* Reed, 1898 is revalidated and illustrated for first time. *Pseudosinopla* n. gen. (Blaudusinae: Lanopini) is erected to place *S. canaliculus* Reed, 1898. A key to Chilean Lanopini genera is included.

**Key words:** Heteroptera, Acanthosomatidae, new genus, Chile

### Introduction

The Acanthosomatidae is a small family of Pentatomoids, which currently contains nearly 200 species, classified in 54 genera (Kment 2005). In Chile this family is represented by 13 species (Carvajal & Faúndez 2013), and many of these are quite unknown.

*Sinopla canaliculus* Reed, 1898 is one of the most complicated species among the Chilean Acanthosomatidae. After its description, based on one female, it had never been collected again, and the type was lost for a long time. Prado (2008) placed this species without any justification as a junior synonym of *Cylindrocnema plana* Mayr, 1864. However several descriptive notes of Reed (1898) make very improbable that synonymy. Faúndez & Osorio (2010) removed this species from the synonymy of *C. plana*, and placed it as nomen dubium because of the lack of type material and the descriptive notes of Reed (1898). The type of *S. canaliculus* finally was found in the Smithsonian Institution (Washington DC, USA); it was confused because Reed's collection passed to Carl Drake's Collection, and only later to the Smithsonian collection itself (Faúndez 2010). The objective of this work is to clarify the status of this species and its placement within the Acanthosomatidae.

### Material and methods

On morphology and descriptions format we follow Kumar (1974); on terminology of metapleuron structures we follow Kment & Vilimová (2010). The photos were taken and edited with Syncroscopy®.

### Results

The examination of the type specimen of *Sinopla canaliculus* shows that it is a valid species, and does not match with any of the known *Sinopla* species (*S. perpunctatus* Signoret, 1864 and *S. humeralis* Signoret, 1864). I can confirm the rejection of the synonymy proposed by Prado (2008). The type specimen of *S. canaliculus* lacks the thick antennae characteristic of the genus *Cylindrocnema*; *S. canaliculus* has a different pronotum shape (i.e., without projected humeral angles) (see Figs. 1 and 3); it has a different efferent system (see figs. 6 and 9) and female genitalia; and finally *S. canaliculus* has an abdominal spine (which places it currently in a different subfamily) (Fig. 5). Additionally, *S. canaliculus* cannot be placed in any of the current described Acanthosomatidae genera; therefore a new genus must be erected to host it.

## References

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