

Two new species of *Entomelas* (Nematoda: Rhabdiasidae), parasites of *Barisia* spp. and *Mesaspis* spp. (Reptilia: Sauria) in Mexico

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Abstract

Entomelas campbelli n. sp. (Rhabdiasidae) from the lungs of *Barisia imbricata* and *Mesaspis gadovii* (Sauria) and *Entomelas floresvillelai* n. sp. from *B. imbricata*, *B. herrerae* and *M. viridiflava* (Sauria) are described and illustrated. Both species are similar to *E. duellmani* in the equatorial location of vulva; *E. campbelli* resembles *E. duellmani* in measurements of the buccal capsule, but differs in the shape of the tail, body length, egg size, esophagus length and tail length/body length ratio; *E. floresvillelai* resembles *E. duellmani* by possessing a blunt tail, but differs in the body length, egg size, depth of the buccal capsule, length of the esophagus and tail length/body length ratio. *Entomelas campbelli* differs from *E. floresvillelai* in the shape of the anterior end and the tail, width of the body and buccal capsule, width of the esophageal bulb, egg size and esophagus length/body length ratio. These are the second and third species assigned to New World *Entomelas* and the second record of the genus from Mexico.

Key words: *Entomelas campbelli* n. sp., *Entomelas floresvillelai* n. sp., Rhabdiasidae, morphology, Nematoda, Sauria, Mexico

Introduction

Although 353 amphibian species and 785 reptilian species have been reported from Mexico (Flores-Villela and Goyenechea, 2003), less than one fourth of these have been examined for helminths (Pérez-Ponce de León et al., 2002). Species of *Mesaspis* and *Barisia* (Anguillidae) are endemic to Mexico (Flores-Villela, 1993). *Mesaspis gadovii* Boulenger, 1913 and *M. viridiflava* Bocourt, 1873 occur in the Sierra Madre del Sur and the highlands of North Oaxaca (Flores-Villela, 1993; Karges and Wrigth, 1987). To our knowledge, there are no previous helminth records of this genus in Mexico. *Barisia imbricata* Wiegmann, 1828 is found in central Mexico (Karges and Wrigth, 1987; Smith et al., 2002); there are