A new species of the genus **Adamystis** (Acari: Anystina: Adamystidae) from western Iran

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Abstract

A new mite species, *Adamystis alvandicus* sp. nov., is described and illustrated from female specimens collected from soil under Spiny Hawthorn trees, *Crataegus aronia* (L.) (Rosaceae), near Alvand Mountain in Hamedan province, Iran. The new species is distinguished by lacking lens like structures, having one pair of eyes, a smooth dorsal shield and coxae I–IV 2-3-3-2. All other *Adamystis* have three setae on coxisterna IV.

Key words: Mite, predator, adamystid, Rosaceae, Alvand, Hamedan, Iran

Introduction

Adamystid mites are reddish, medium-sized, free-living predators (Krantz & Walter 2009). Cunliffe (1957) proposed the genus *Adamystis* and subfamily *Adamystinae* in the family *Anystidae*, yet suspected that it may belong to another new family. This subfamily was subsequently recognized as a new family, *Adamystidae*, by Coineau (1974b), accommodating *Adamystis* Cunliffe, 1957 and *Saxidromus* Coineau, 1974a in the subfamilies *Adamystinae* and *Saxidrominae*, respectively. Coineau et al. (2006) added two genera, *Bovidromus* and *Rhinodromus*, to the subfamily *Saxidrominae*. *Adamystis* is a large genus in the family *Adamystidae* with 15 species recorded from all over the world, namely: *Adamystis donnae* Cunliffe, 1957; *A. sarae* Hunter & Crossley, 1968; *A. fonsi* Coineau, 1974; *A. doumengei* Coineau, 1974; *A. coineaui* Rafalski, 1982; *A. beckyanneae* McDaniel & Bolen, 1983; *A. sartorum* Barilo, 1987; *A. monomaculata* Ueckermann, 1989; *A. buchelis* Ueckermann, 1989; *A. nudis* Ueckermann, 1989; *A. oculeusis* Ueckermann, 1989; *A. trimaculata* Ueckermann, 1989; *A. yvesi* Ueckermann, 1989; *A. thailandensis* Vanguarworn & Lekprayoon, 2010; and *A. iranoturanianensis* Beyzavi, Ueckermann & Ostovan, 2012. In this paper *A. alvandicus* sp. nov. collected from soil under *Crataegus aronia* (L.) (Rosaceae) bushes, near Alvand Mountain in Hamedan province, Iran is described and illustrated. Along with the record of Beyzavi et al. (2012), this is the first record of this family and genus from Iran.

Material and methods

Mites were mounted in Hoyer’s medium directly and examined under a 1000X magnification of an Olympus BX51 phase contrast microscope. All drawings were made using a camera Lucida. Body