

**The Second Report of *Stigmaeus livschitzi* Kuznetsov (Acari: Stigmaeidae) in Turkey**Salih DOĞAN<sup>1</sup>, Sibel DOĞAN<sup>1</sup>, Meryem BİNGÜL<sup>1</sup>, Orhan ERMAN<sup>2</sup><sup>1</sup>Department of Biology, Faculty of Arts and Sciences, Erzincan University, Erzincan, Turkey<sup>2</sup>Department of Biology, Faculty of Sciences, Firat University, Elazığ, Turkey

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**Aim of the study:** *Stigmaeus* Koch is one of the mite genera in the family Stigmaeidae with 135 species. Up to now, 38 species in this genus were recorded from Turkey. *Stigmaeus livschitzi* Kuznetsov was given before from Harşit Valley in Turkey. Five female specimens of the species were found among the mite specimens collected from Erzurum, Kırklareli and Trabzon. In the present study, we aimed to contribute to the knowledge on mite diversity in Turkey.

**Material and Methods:** Mite specimens were collected from Erzurum, Kırklareli and Trabzon. Under conditions of laboratory; five female specimens of *Stigmaeus livschitzi* were extracted by using Berlese funnels, cleared in 60% lactic acid and mounted on microscopic slides in Hoyer's medium under stereo microscope. Measurements were taken in micrometers (µm) with the aid of the Leica Application Suite (LAS) Software Version 3.8. and drawings for some parts of the body were made under a Leica DM 4000 microscope.

**Results:** *Stigmaeus livschitzi* Kuznetsov was known from Russia and Ukraine. It was also recently described from Harşit Valley in Turkey from litter under *Populus* sp. and *Rhododendron* sp. This species resembles to *S. kamili* Doğan and Ayyıldız but can be distinguished from it by having different shape of lateral and marginal zonal shields. This species is also similar to *S. scaber* Summers but differs from the latter by having dorsal idiosomal setae with hyaline sheaths. In this study, five female specimens of *S. livschitzi* were found in moss, a tree bark and litter under *Quercus* sp. from Erzurum, Kırklareli and Trabzon provinces. Drawings and measurements for some body parts of the species were made. The morphological characters of this species were reviewed. This is the second report of the species in Turkey.

**Keywords:** Biodiversity, Mite, *Stigmaeus*, Locality, Turkey.