

## A new species of *Eupalopsellus* Sellnick, 1950 (Acari: Eupalopsellidae) from the south of Iran

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### Abstract

A new species of *Eupalopsellus* (Acari: Trombidiformes: Eupalopsellidae), namely *E. kermaniensis* sp. nov. ex *Artemisia* sp. L. (Asteraceae) from Kerman province, Iran, is described. A key to the known species of the world is provided.

**Key words:** Trombidiformes, Raphignathoidea, taxonomy, description, new species, fauna, Kerman

### Introduction

The cosmopolitan eupalopsellids are commonly encountered on twigs and bark (Krantz & Walter, 2009) and occur on a wide range of plants in association with phytophagous mites and insect pests. Of the 18 described species, 3 were recorded from Iran, 10 from South Africa (Meyer & Ryke, 1960; Meyer & Ueckermann, 1984; Van Dis & Ueckermann, 1993), one from each of the following countries, Scotland and USA (Summers, 1960), Egypt (Zaher & Gomma, 1978), Sweden (Sellnick, 1949) and China (Fan, 2004), respectively. In this paper we describe one more new species from Iran and increase the known species up to 19. A key to the known species of the world is provided.

### Material and Methods

Leaves and twigs infested with mites were collected, placed into plastic bags and transferred to a laboratory. Samples were washed in a solution of commercial detergent (5%). This solution was filtered by overlapping two sieves with different mesh sizes (16 Mesh; 400 Mesh), respectively. Mites retained in the smaller sieve were washed with 70% ethanol into a Petri dish. Mites were collected under a stereomicroscope, cleared with lactic acid (at 45°C in an oven) and mounted in Hoyer's medium.

The terminology of the dorsal idiosomal setae follows Lindquist (1985) and that of palp and leg setae follows Fan (2004), Evans (1992) and Harreis (1979). Measurements were performed using a Dino-Eye® soft imaging system and are given in micrometers (µm). The drawings were made using a drawing tube attached to an Olympus® Research Microscope. Figures were cleaned and edited in Corel draw x5 2010 and Photoshop CS5, respectively.

### Abbreviations

PPRIC—National Collection of Acari, ARC-Plant Protection Research Institute, Pretoria, South Africa

SBUC—Collection of the Acarology Laboratory, Shahid Bahonar University of Kerman, Kerman, Iran