



## Three new species of mites of the genus *Bakerdania* Sasa, 1961 (Acari: Heterostigmata: Neopygmephoridae) from “Cape Martyan” Nature Reserve, Crimea

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### Abstract

Three new species of mites: *Bakerdania latissimosetosa* sp. nov., *B. undulata* sp. nov., and *B. martyaniensis* sp. nov. collected from soil in “Cape Martyan” Nature Reserve, Crimea, Ukraine are described.

**Key words:** Pygmephoroida, *Bakerdania*, new species, Crimea

### Introduction

The genus *Bakerdania* Sasa, 1961 (Acari: Neopygmephoridae) includes about 100 species (Khaustov 2008a; Kurosa 1999) and is the largest in the family Neopygmephoridae Cross, 1965. Ten species of this genus have been described or recorded previously from Crimea: *Bakerdania cultrata* (Berlese, 1904), *B. dryophilus* Sevastianov, 1975, *B. autumnalis* Sevastianov, 1975, *B. graciloides* Sevastianov, 1974, *B. gracilis* (Krczal, 1958), *B. bavarica* (Krczal, 1959), *B. cavernicola* Khaustov, 2008, *B. taurica* Khaustov, 2008, *B. brevicauda* Khaustov, 2008, *B. yaltaensis* Khaustov, 2008 (Khaustov 2008c, Sosnina & Sevastianov 1975). In this paper I describe three new species of this genus collected from soil in “Cape Martyan” Nature Reserve, Crimea, Ukraine.

### Material and methods

In the description, the terminology follows Lindquist (1986). All measurements are given in micrometers ( $\mu\text{m}$ ) for holotype. The system of Pygmephoroida follows Khaustov (2004, 2008b). Type specimens are deposited in the collection of Nikita Botanical Gardens – National Scientific Center, Yalta, Ukraine.

### Systematics

#### Family Neopygmephoridae Cross, 1965

#### Genus *Bakerdania* Sasa, 1961

#### *Bakerdania latissimosetosa* Khaustov sp. nov.

Figs. 1–5.

**Description.** FEMALE: Idiosomal length 242, maximum width 138. Gnathosoma (Figs. 1–2) dorsally with 2 pairs of simple setae,  $ch_1$  distinctly longer than  $ch_2$ . Dorsal medial apodeme well developed. Idiosomal dorsum (Fig. 1). All tergites smooth. Setae  $v_2$  and  $h_2$  smooth, setae  $e$  smooth, thick and flattened, sabre-like, other