



## Nomenclature changes in the mite families Neopygmephoridae and Pygmephoridae (Acari: Heterostigmata: Pygmephoroidea) with redescription of two little known species

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### Abstract

The type materials of Neopygmephoridae and Pygmephoridae deposited in the Zoological Institute of Russian Academy of Sciences, St. Petersburg, Russia and the Museum of Zoology, I. Mechnikov Odessa National University, Ukraine were examined. Two genera and several species were synonymized. In the family Neopygmephoridae, the genus *Heteropygmephorus* Kurosa, 2002 **syn. nov.** is a junior synonym of *Aegiptophorus* Sevastianov and Abo-Korah, 1984 and *Heteropygmephorus onthophagi* Kurosa, 2002 **syn. nov.** is a junior synonym of *Aegiptophorus shibinensis* Sevastianov and Abo-Korah, 1984; *Bakerdania uniseta* Khaustov and Hajiqanbar, 2004 **syn. nov.** is a junior synonym of *Bakerdania tenuispina* Sevastianov, 1974; *Bakerdania nouri* Sevastianov and Zahida Al Douri, 1989 **syn. nov.** is a junior synonym of *Bakerdania urbanensis* Sevastianov, 1974; *Bakerdania ptilophora* Savulkina, 1978 **syn. nov.** is a junior synonym of *Bakerdania montana* (Willmann, 1956). In the family Pygmephoridae, the genus *Asiapygmephorus* Khaustov and Chydyrov, 2003 **syn. nov.** is a junior synonym of *Mesopotamiophorus* Sevastianov and Zahida Al Douri, 1991, and *Asiapygmephorus paucisetosus* (Sevastianov and Chydyrov, 1991) **syn. nov.** is a junior synonym of *Mesopotamiophorus babylonicus* Sevastianov and Zahida Al Douri, 1991; *Pygmephorus scrobiculatus* Sevastianov, 1975 **syn. nov.** is a junior synonym of *Pygmephorus stammeri* Krczal, 1959; *Pediculaster petrovanikitinae* Sevastianov, Chydyrov and Marroch, 1994 **syn. nov.** is a junior synonym of *Pediculaster athiasae* (Wicht, 1970); *Pediculaster crassipedis* Sevastianov and Chydyrov, 1994 **syn. nov.** is a junior synonym of *Pediculaster amerahae* Sevastianov and Abo-Korah, 1984; *Pediculaster monoufiensis* Sevastianov and Abo Korah, 1985 **syn. nov.** is a junior synonym of *Pediculaster kneeboni* (Wicht, 1970); *Siteroptes dionusii* Sevastianov and Abo-Korah, 1984 **syn. nov.** is a junior synonym of *Siteroptes rosae* Sevastianov and Abo-Korah, 1984; *Siteroptes tameri* Sevastianov and Abo-Korah, 1984 **syn. nov.** is a junior synonym of *Siteroptes graminicola* Mitrofanov, Shabanova and Sevastianov, 1984. *Bakerdania urbanensis* Sevastianov, 1974 and *Neositeroptes rosae* (Sevastianov and Abo-Korah, 1984) **comb. nov.** (transferred from *Siteroptes*) are redescribed.

**Key words:** Pygmephoridae, Neopygmephoridae, mites, new synonyms, systematics

### Introduction

The mite superfamily Pygmephoroidea (order Acariformes, parvorder Eleutherengona, section Heterostigmata—see Mironov & Bochkov [2009]) is a large and poorly studied group of mites which includes four families: Pygmephoridae, Neopygmephoridae, Scutacaridae, and Microdispidae (Khaustov 2008). One of the problems in study of these mites is incomplete description of many species. As a result, descriptions of new species based on comparison with such fragmentary descriptions cause many synonymies. I examined the type materials belonging to the families Neopygmephoridae and Pygmephoridae deposited in the Zoological Institute of Russian Academy of Sciences, St. Petersburg, Russia, the Museum of Zoology I. Mechnikov Odessa National University, Ukraine, and the Nikita Botanical Gardens, Yalta, Ukraine. Two genera and several species were synonymized as a result of this examination. The purpose of this paper is to publish these new synonymies and redescribe two incompletely described species.