



## A new genus and species of larval Erythraeinae (Acari: Prostigmata: Erythraeidae) from Ukraine and the taxonomic state of *Zhangiella*

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### Abstract

*Makolia crimeaensis* Saboori, Khaustov & Hakimitabar **gen. et sp. nov.** (Acari: Erythraeidae) is described and illustrated from larvae ectoparasitic on *Lasius* sp. (Hymenoptera: Formicidae) from Ukraine. A key to world genera of Erythraeinae (larva) is presented and the genus *Zhangiella* Saboori, Cobanoglu & Bayram is synonymised with *Curteria* Southcott.

**Key words:** larva, ectoparasite, mite, *Lasius*, Formicidae, key

### Introduction

Four genera of larval Erythraeinae Robineau-Desvoidy, 1828 have been described from Europe hitherto: *Erythraeus* Latreille, 1806, *Forania* Southcott, 1961, *Proterythraeus* Vercammen-Grandjean, 1972 and *Curteria* Southcott, 1961 (see also Southcott 1988; Wohltmann *et al.* 2007). A few species of erythraeids are reported as ectoparasites of Hymenoptera including: *Leptus debeauforti* (Oudemans, 1905) ectoparasitic upon an unidentified ant in Irian Jaya, Indonesia; *Leptus* sp. upon an unidentified wasp in Papua New Guinea; *Leptus* sp. ectoparasitic on bees in Australia and central America; *Leptus clarki* Southcott, 1989a ectoparasitic on a North American ant, *Pogonomyrmex salinus* Olsen; *L. japonicus* Kawashima, 1958 on *Nomada japonica* Smith in Japan; *L. similis* Fain & Elsen, 1987 on *Chlorion ciliatum* var. *maxillae* in Zaire; *L. ariel* Southcott, 1989b on *Apis mellifera* L. in Guatemala; *L. monteithi* Southcott, 1993 on *Lepioproctis* (*Leiooproctis*) sp. in Tasmania; *Charletonia areolata* (Trägårdh, 1908) on an unidentified Agathidinae (Braconidae) from Kenya; *Erythraeus adrastus* Southcott, 1961 on *Lasius flavus* Fabricius and *Forania mentonensis* (André, 1929) upon the ants *Plagiolepis pygmaea* Latreille and *Pheidole pallidula* Ny. in France (see also André 1930; Southcott 1984, 1991).

In the present paper, we describe *Makolia crimeaensis* **gen. et sp. nov.** from Crimea, Ukraine and discuss the taxonomic state of the genus *Zhangiella* Saboori, Cobanoglu & Bayram, 2007.

#### Material and methods

Mites were collected from ants *Lasius* sp. and mounted in Berlese medium. Figures were drawn and measurements (given in micrometers) made using a BX-51 Olympus microscope equipped with a drawing tube. The terminology and abbreviations are followed from Robaux (1974) except for the following terms and abbreviations: