

## A review of the Pomerantziidae (Acari: Prostigmata: Pomerantzioidea), with the description of a new genus

QING-HAI FAN<sup>1</sup> & YAN CHEN<sup>2</sup>

<sup>1</sup> Key Lab of Biopesticide and Chemical Biology, Ministry of Education; College of Plant Protection, Fujian Agricultural and Forestry University, Fuzhou 350002, China; Current address: Landcare Research, Private Bag 92 170, Auckland, New Zealand; fanqh@acarology.org

<sup>2</sup> Fujian Entry-exit Inspection and Quarantine Bureau of China, 312 Hudong Road, Fuzhou 350001, China

### Abstract

The family Pomerantziidae is reviewed and the genus *Pomerantzia* Baker is redefined. A new genus *Apomerantzia* is established for two described species, *A. kethleyi* (Price, 1975) **comb. n.** and *A. prolata* (Price, 1971) **comb. n.**, formerly placed in *Pomerantzia*. Keys to stages and species of the family are provided. An Oriental species, *P. subterranea* **sp. n.** collected from deep soil in Fuzhou, China is described and illustrated. The family is recorded in China for the first time.

**Key words:** Pomerantziidae, review, new genus, new species

### Introduction

Pomerantziidae was proposed by Baker (1949) for a single species of mite from peach orchard soil in the Southern United States. Presently, it comprises only four valid species in one genus, *Pomerantzia charlesi* Baker, 1949, *P. prolata* Price, 1971, *P. benhami* Price, 1974, and *P. kethleyi* Price, 1975. All were collected from deep soil or humus in the United States (the undescribed species from Malaysia mentioned by Kethley 1990 is not discussed here). A further species described here, *P. subterranea* **sp. n.**, collected from 20 to 40 cm deep soil in Fuzhou, China, is added to the family.

Price (1975) presented an identification key to adult females of the four species that showed they could be divided into two groups. *Pomerantzia kethleyi* and *P. prolata* are clearly distinct from the other two species, and are here placed in a new genus, *Apomerantzia*.