



Six new eriophyoid mites (Acari: Eriophyoidea) associated with *Ficus* spp. (Moraceae) from China

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Abstract

Six new species of the family Eriophyidae associated with the plant genus *Ficus* (Moraceae) from southern China are described and illustrated in this paper: *Colopodacus variegatae* **sp. nov.** infesting *F. variegata* Bl. var. *chlorocarpa* (Benth.) King; *C. yunnanensis* **sp. nov.** infesting *F. benjamina* Linn., *F. tinctoria* Forst. f. var. *gibbosa* and *F. virens* Ait. var. *sublanceolata* (Miq.) Corner; *Gammaphytoptus ficus* **sp. nov.** infesting *F. variegata* Bl. var. *chlorocarpa* (Benth.) King; *Glyptacus microcarpa* **sp. nov.** infesting *F. microcarpa* Linn., *F. hispida* Linn., *F. benjamina* Linn., and *F. altissima* Bl.; *Shevtchenkella hainanensis* **sp. nov.** infesting *F. variegata* Bl. and *Tegonotus hispidae* **sp. nov.** infesting *F. hispida* Linn.

Key words: eriophyid mites, plant host, new species, Moraceae, taxonomy

Introduction

The eriophyoid mites are known as highly host-specific and strictly parasitic fauna on overground plant parts. Over 3,690 species have been described worldwide (Amrine *et al.*, 2003). The figs, *Ficus* spp. (Moraceae: Ficeae), are widely distributed in tropical and subtropical areas, and approximately 750 species are described and about 98 species are known from China (Berg 1989; Zhang *et al.* 1998). To date, 53 eriophyoid species occurring on *Ficus* spp. were described worldwide, of which 12 species are known from China (Amrine & Stasny 1994; Huang 1992, 2001a; Huang & Wang 2003, 2004; Kuang 1995, Kuang *et al.* 2005; Ou *et al.* 2008; Wei *et al.* 2004; Zhao & Kuang 1998, 2000).

Based on eriophyoid mites collected from *Ficus* in Guangxi, Hainan and Yunnan from 2007 to 2008, six new species are described and illustrated herein. A key to the species associated with *Ficus* spp. from China is provided.

Material and methods

Specimens were located with the aid of a magnifying glass and preserved in sucrose-ethanol solution (75%). The mites were cleared in Nesbitt's solution and mounted in Heinze medium on glass slides at room temperature according to Kuang (1986). The morphological terminology and the generic classification follows Amrine *et al.* (2003).

Type specimens are deposited in the Department of Plant Protection, Guangxi University, Nanning. All measurement units are given in micrometers (μm) and rounded off to the nearest full number, and are lengths