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## ***Neophyllobius lorestanicus* sp. nov. and *N. ostovani* sp. nov. (Acari: Camerobiidae) from Iran**

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### **Abstract**

Two new species of the genus *Neophyllobius* Berlese, 1886 are described: *Neophyllobius lorestanicus* sp. nov. collected from soil under *Prunus domestica* L. (Rosaceae) in Markazi province and *Neophyllobius ostovani* sp. nov. from soil and rotten leaves of oak trees in Fars province, Iran. A key to all known Iranian and Turkish species of *Neophyllobius* is provided.

**Key words:** Predator, soil habitat, mite, leaf litter, species

### **Introduction**

The Camerobiidae (stilt-legged mites) is the second largest family in the superfamily Raphignathoidea after the Stigmaeidae. They are generally predaceous, feeding on phytophagous mites, unarmored scale insects and the first instar nymphs of armored scale insects. Camerobiid mites are usually found in grass, moss, leaf litter and various soil habitats (Bolland 1986; Richards 1962; Gerson *et al.* 1990; Du Toit *et al.* 1998; Khanjani *et al.* 2010, 2011, 2012, 2013; Khanjani & Ahmad-Hoseini 2013). Up to present, two genera and 17 species of this family are recorded from Iran, with *Neophyllobius* (12 species) and *Tycherobius* (five species) all described within the last 12 years. In this paper two new species of the genus *Neophyllobius* are described and illustrated.

### **Materials and methods**

Stilt-legged mites were collected by hand sorting, using a small aspirator containing ethanol as a preservative and by desiccation of the litter, soil and rhizosphere samples in a Tullgren apparatus. The mites were separated under a stereomicroscope and mounted on the glass slides in Hoyer's medium. The slides were dried in an oven at about 50°C for a week, ringed with nail polish and examined under a phase contrast microscope (Olympus BX 51) equipped with a drawing tube. Body chaetotaxy follows Kethley (1990) and Khanjani *et al.* (2012); chaetotaxy of leg setae follows Fan & Walter (2011). All measurements are given in micrometers.

### **Genus *Neophyllobius* Berlese**

Type species: *Neophyllobius elegans* Berlese, 1886: 19.

**Genus diagnosis.** Stylophore with 1–2 pairs of peritremes. Counts of setae and solenidia from palptrochanter to palptarsus: 0, 2, 1, 3 + 1 claw, 2 setae+1–2 eupathidia+1 solenidion. Idiosoma with 14 or 15 (*pdx* when present usually paired, sometimes medial and single) pairs of long, stout, serrated setae; two pairs of eyes. Ventral surface with two pairs of setae, *4a*, *ag*; anogenital valves with two pairs of genital setae (*g*<sub>1–2</sub>) and three pairs of pseudanal

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