



## ***Gracilentulus sarmaticus* sp. nov. from Southeast Ukraine (Protura: Acerentomidae, Berberentulinae)**

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### **Abstract**

A new species, *Gracilentulus sarmaticus* sp. nov. is described from southeast Ukraine. The new species differs from all *Gracilentulus* species in large foretarsal sensillum *t3*. It is the most similar to *Gracilentulus aoki* IMADATÉ 1982 and *G. chichibuensis* Nakamura 1995 from Japan, but differs from these species in having sensillum *b'* present.

**Key words:** Protura, Acerentomidae, Berberentulinae, *Gracilentulus*, new species, Ukraine

### **Introduction**

The genus *Gracilentulus* (Protura: Acerentomidae: Berberentulinae) was established by Tuxen (1963) and is characterized by the reduction of the labial palp to three separate setae and a small elongated sensillum, the well-developed striate band, the heart-shaped calyx of the maxillary gland, and the small knob-like sensillum *t3* on the foretarsus (Tuxen 1964; Szeptycki 1993; Yin 1999). Eighteen species of *Gracilentulus* are recognized (Szeptycki 2007). Of these, ten are distributed in Europe and five occur in Asia. Only one species of the genus, *G. fjellbergi* Szeptycki 1993, is distributed both in Europe and Asia. Currently, the Ukrainian berberentuline fauna is known to have fourteen species belonging to four genera (Shrubovych 2006). Within *Gracilentulus*, only *G. catulus* Szeptycki 1993 and *G. fjellbergi* have been recorded in Ukraine. A new species of *Gracilentulus* collected by Dr Igor Kaprus in South Ukraine is described below. The type materials are deposited in the State Natural History Museum of the Nation Academy of Sciences of Ukraine, Lviv (SNHM) and the Institute of Systematics and Evolution of Animals of the Polish Academy of Sciences, Kraków, Poland (ISEA).

### ***Gracilentulus sarmaticus* sp. nov.**

**Material examined.** Type material. Holotype, female (nr 16.1a), litter and soil in bushes on the western bank of the river Ingul, Mykolajivski district, Ukraine, 5. V. 2006, leg. I. Kaprus. Paratypes: 16 females and 1 male, the same data as holotype. Other materials: 1 matus junior and 2 larvae II, the same data as holotype, 2 females and 1 matus junior, soil on steppe meadow in valley of river Velyka Korabelna, near Blagodatne, Mykolajivski district, Ukraine, 3. V. 2006, leg. I. Kaprus.

Holotype, 13 females and 1 male (slides nr 16.1–16.9) and other materials are deposited in the collection of SNHM; 3 females (slides nr 16.10 and 16.11) in the collection of ISEA.