

## Contribution to the Macrochelidae fauna of Hungary (Acari: Mesostigmata)

JENŐ KONTSCHÁN

ABSTRACT: Eight Macrochelid mites are listed from several part of Hungary. Four species are new the fauna of Hungary. Original draws, short descriptions and their occurrences are given. With 13 figures.

### Introduction

The Hungarian Macrochelidae fauna is poorly known. Up till now only few data were published about the Machorchelid fauna of Hungary. KANDILL (1981) found 14 species in Hortobágy National Park. AMBROS (1996) listed three species from Bükk National Park. SALMANE & KONTSCHÁN (2005a) published six Macrochelid species from several part of Hungary, and their other work (SALMANE & KONTSCHÁN 2005b) mentioned four Macrochelidae species from different part of Hungary.

### Material and methods

Several part of Hungary was collected soil, moss and litter materials, only some materials included Macrochelid specimens (Fig. 1.). The identified mites are stored in alcohol and deposited in Collections of Soil Zoology of Hungarian Natural History Museum. For the identifications and the name of species was used Masan's (2003) and Karg's (1993) books.

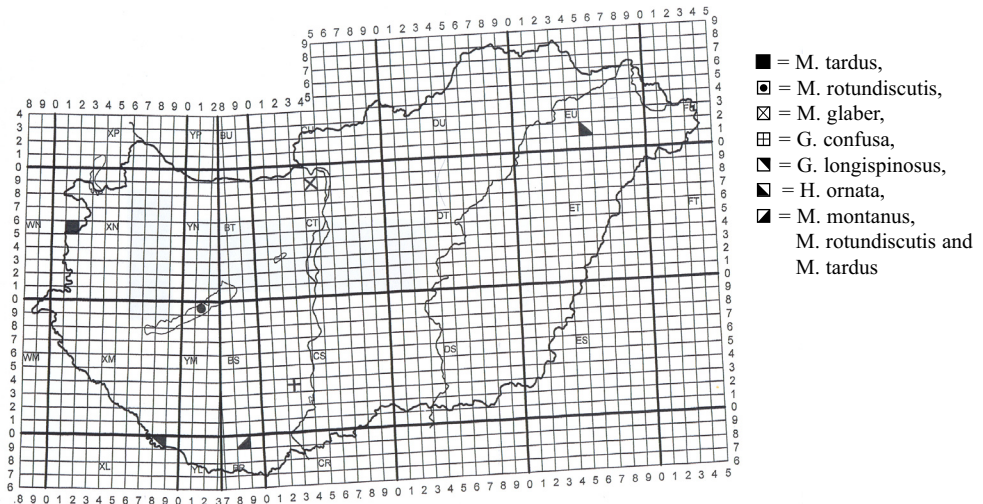


Fig. 1. New Macrochelid localities in Hungary.

## List of the species

***Macrocheles tardus*** (C. L. Koch, 1841)

*Macrocheles tardus*: Salmán & Kótschán, 2005a

**Previous data:** Oroszlány, Majk (Salmán & Kótschán, 2004a)

**New records:** Kószeg, from moss, 29.05.1980., leg. S. Mahunka - L. Mahunka-Papp, Villány, Szársomlyó NCA, from decomposed tree, 02.06.2000. leg. S. Mahunka - L. Mahunka-Papp,

**Distribution:** Europe

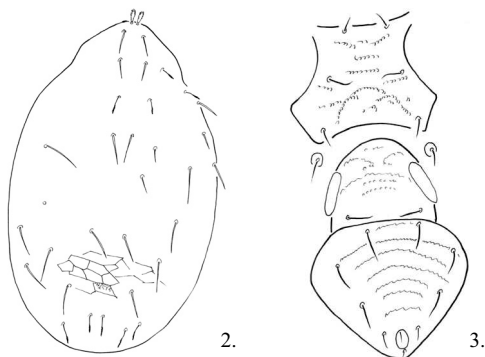
***Macrocheles rotundiscutis*** Bregetova & Koroleva, 1960 (Figs 2–3.).

*Macrocheles rotundiscutis*: Kandil, 1981

**Previous data:** Hortobágyi National Park (Kandil 1981)

**New records:** Tihany, from leaf litter, 05.06.1987., leg. S. Mahunka - L. Mahunka-Papp, Villány, Szársomlyó NCA, from decomposed tree, 02.06.2000. leg. S. Mahunka - L. Mahunka-Papp

**Distribution:** Europe and USA



Figs 2-3. *Macrocheles rotundiscutis* Bregetova & Koroleva, 1960: 2 = dorsal view, 3 = ventral view.

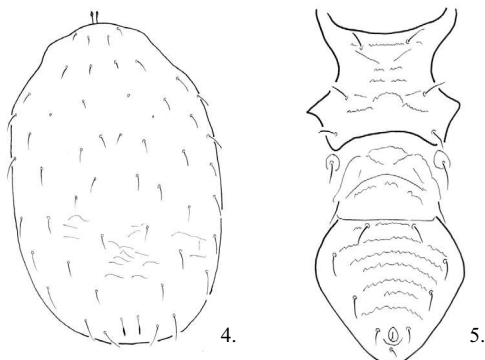
***Macrocheles glaber*** (J. Müller, 1860) (Figs 4–5.)

*Macrocheles glaber*: Ambros, 1996

**Previous data:** Bükk National Park

**New records:** Dömös, near Rám szakadék, from moss, 05.05.1983. leg. S. Mahunka, L. Mahunka-Papp - K. Sinn,

**Distribution:** Europe, North-America, Australia and Asia



Figs 4-5. *Macrocheles glaber* (J. Müller, 1860): 4 = dorsal view, 5 = ventral view.

***Macrocheles montanus*** Willmann, 1951

*Macrocheles montanus*: Kandil, 1981

*Macrocheles montanus*: Ambros, 1996

*Macrocheles montanus*: Salmann & Kotschán, 2005a

*Macrocheles montanus*: Salmann & Kotschán, 2005a

**Previous data:** Hortobágyi National Park (Kandil 1981), Bükk National Park (Ambros 1996), Zempléni Mts and Paks (Salmann & Kotschán 2005a), Bábaapáti (Salmann & Kotschán 2005b)

**New records:** Vokány, Trinitás forest, from mixed leaf litter, 02.06.2000. leg. S. Mahunka – L. Mahunka-Papp,

**Distribution:** Europe, and Asia

***Glyphothalaspis confusa*** (Foá, 1900) (Figs 6–7.)

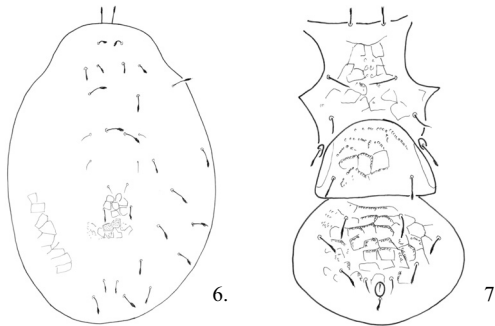
**Diagnosis:** Dorsal shield large and oval, with punctate-reticulate ornamentation. Most dorsal setae brush-shaped and densely plumosed. Setae j6, z5 smooth and short. One pair of sternal setae with plumosed apical part, other two pair's smooth. Metasternal, genital and ventrianal setae with plumosed apical part, adanal setae smooth. Preanal seta shorter than ventrianal setae.

**Previous data:** –

**New records:** Szekszárd, from dung, 08.05.1981. leg. S. Mahunka – L. Mahunka-Papp,

**Distribution:** Europe, Asia, Australia, New Zealand and Argentina

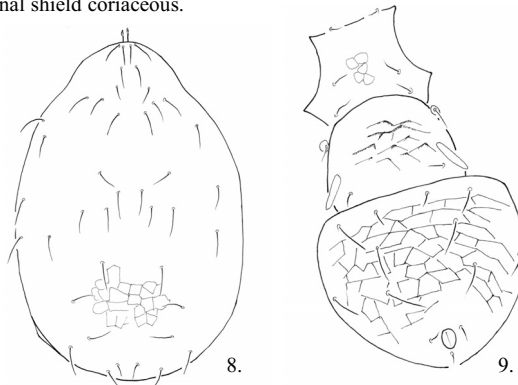
**Remarks:** This is the first record of this species in Hungary.



Figs 6–7. *Glyphothalaspis confusa* (Foá, 1900): 6 = dorsal view, 7 = ventral view.

***Geholaspis longispinosus*** (Kramer, 1876) (Figs 8–9.)

**Diagnosis:** Dorsal shield wide and rounded, with punctate-coriaceous ornamentation. Setae j2, j5 j6, J2, J5, z1, z5 and z6 smooth, apical part of other dorsal setae pilose. JV1 ventrianal setae shorter than the other ventrianal setae, ornamentation of ventrianal shield coriaceous.



Figs 8–9. *Geholaspis longispinosus* (Kramer, 1876): 8 = dorsal view, 9 = ventral view.

**Previous data:** –

**New records:** Barcs, (locatily, name of collector and data are unknown).

**Distribution:** Europe and New Zealand

**Remarks:** This is the first record of this species in Hungary.

*Geholaspis hortorum* (Berlese, 1904)

**Diagnosis:** Setae, j5 j6, J2, J5, and z6 mostly smooth, other dorsal setae plumose and brush-like. Ventrianal, sternal and metasternal setae short and needle-like, ornamentation of ventrianal shield reticulate.

**Previous data:** –

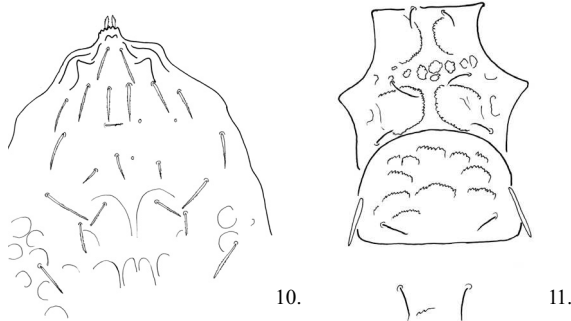
**New records:** Vokány, Gombás hegy, oak forest, from leaf litter, 02.06.2000. leg. S. Mahunka – L. Mahunka-Papp

**Distribution:** Europe

**Remarks:** This is the first record of this species in Hungary.

*Holostaspella ornata* Berlese, 1904 (Figs 10–11.)

**Diagnosis:** Shape of idiosoma oblong and wide. Dorsal and ventrianal shields strongly sculptured in punctate-areolate pattern. All dorsal setae pilosed. Sternal shield with characteristic ornamentation.



Figs 10–11. *Holostaspella ornata* Berlese, 1904: 10 = apical part of dorsal view, 11 = sternal shield.

**Previous data:** –

**New records:** Nyíregyháza, Sóstói forest, from decomposed tree, 24.09.1977. leg. M. Ősz

**Distribution:** Europe and Asia

**Remarks:** This is the first record of this species in Hungary.

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Jenő KONTSCHÁN

Systematic Zoology Research Group of Hungarian Academy of Sciences and Eötvös Loránd University & Department of Zoology of Hungarian Natural History Museum

H-1088 BUDAPEST, Baross u. 13.

kontscha@zoo.zoo.nhmu.hu