

New records of the family Zerconidae (Acari: Mesostigmata) from the Transdanubian (Western- and Southern-Hungary)

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ABSTRACT: 3 *Prozercon* and 12 *Zercon* species are recorded from the Southern and Western part of Transdanubian. 3 of them (*Prozercon rafalskii*, *Zercon abaculus*, *Zercon tematinensis*) are new to the fauna of Hungary. With 4 figures.

Introduction

Zerconid mites are soil-inhabitant predators, constituting an important component of the edaphic fauna. The family is currently represented by 38 Holarctic genera, although in Hungary occur only 3 of them: *Parazercon* Trägårdh, 1931, *Prozercon* Sellnick, 1943 and *Zercon* C. L. Koch, 1836. The fauna of the country is poorly known, there are only a few investigations mentioning zerconid mites from the Transdanubian. The first records in Hungary have been published by SELLNICK (1958), then VINCZE (1965) mentioned 16 species (5 from Transdanubian) in her summarising work. KANDIL (1981) listed the fauna of the Hortobágyi National Park. Later KARG (1993) gave new Hungarian occurrences of the group in his monography. KONTSCHÁN (2004, 2006a) and SALMANE & KONTSCHÁN (2005, 2006) published several data of mesostigmatid mites (including Zerconidae) from many localities. KONTSCHÁN (2006b) gave the checklist of Hungarian zerconid mites. Latest papers by UJVÁRI & KONTSCHÁN (2007) report 8 species from a few localities of Transdanubian. So far 29 zerconid mites has been recorded from the country.

Materials and methods

The samples of Collection of Soil Zoology of the Hungarian Natural History Museum were examined. Specimens were cleared in lactic acid and were mounted in glycerin medium. Mites were identified using a light microscope, according to MAŠAN & FENĎA (2004), KARG (1993), BŁASZAK (1974) and BREGETOVA (1977). Drawings were made with camera lucida. Mites are stored in 75% ethanol and deposited in Collection of Soil Zoology of the Hungarian Natural History Museum.

Results

The following parts of Hungary have been studied: Villány Mts., Mecsek, Tolna Hills, Zala Hills, Alpokalja, Kisalföld (Fig. 1). Transdanubian Mountains are not investigated on this paper because of a parallel summarising work of the region's mesostigmata fauna (KONTSCHÁN & UJVÁRI 2009). 15 species are listed from 149 localities. Three species – *Prozercon rafalskii*

from Villány Mts. and Mecsek, *Zercon abaculus* found on Alpokalja, and *Zercon tematisensis* from Zala Hills and Alpokalja – are new to the fauna of Hungary.

Localities examined:

Villány Mts.

M-00011 – Vokány, Trinitás-woods, northern side, hornbeam-oak wood, from leaf-litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00012 – Vokány, Trinitás-woods, northern side, hornbeam-oak wood, from soil and leaf-litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00013 – Vokány, Trinitás-woods, northern side, hornbeam-oak wood, tree-moss from living trees, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00016 – Vokány, Gombás Mts., western side, hornbeam-oak wood, from leaf-litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00017 – Vokány, Gombás Mts., western side, hornbeam-oak wood, from leaf-litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00018 – Vokány, Gombás Mts., western side, hornbeam-oak wood, from moss, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00019 – Bisse, Tenkes, northeastern side, oak wood, soil and leaf litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0002 – Villány, Szársomlyó, TVT, statue-park, northern-side, moss from shady wood, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00021 – Bisse, Tenkes, northeastern side, oak wood, leaf litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0003 – Villány, Szársomlyó, TVT, rock-moss from sunlit rocks, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0004 – Villány, Szársomlyó, TVT, soil and litter from rock-rift, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0005 – Villány, Szársomlyó, TVT, near summit, litter from rare oak wood, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0008 – Villány, Szársomlyó, TVT, northern, woody side, lime wood, from dry-rotten tree, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-0009 – Villány, Szársomlyó, TVT, northern, woody side, lime wood, from leaf-litter, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

Mecsek

H-1333 – Aranyosgadány, from nest of *Hirundo rustica*, 09.10.1972., leg. Bajza, Zs., Papp, L.

H-2008 – Orfű, ant-nest, 30.06.1978., leg. Zombori, L.

M-00024 – Komló, Zobákpuszta, Köves-tető, hornbeam-beech wood, from leaf-litter (beech), 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00025 – Komló, Zobákpuszta, Köves-tető, hornbeam-beech wood, from leaf-litter (hornbeam), 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00026 – Komló, Zobákpuszta, Köves-tető, hornbeam-beech wood, from moss, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00027 – Mecsekjánosi, Vajda Mts., hornbeam wood, from leaf-litter (mixed), 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00028 – Mecsekjánosi, Vajda Mts., hornbeam wood, from moss, 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-00031 – Kisvaszar, Codolo, Téglaházi-forestry, oak wood, from leaf-litter (mixed), 02.06-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

M-002129 – Bábaapáti, hornbeam-lime-oak wood (*Allium*), from soil, 13.06.2002., leg. Horváth, E.

- M-007085 – Véménd, Hosszú-valley, hornbeam wood, from leaf-litter, 22.05.2007., leg. Sziráki, Gy.
 M-007086 – Bátaapáti, Hosszú-valley, from leaf-litter, 17.05.2007., leg. Sziráki, Gy.
 M-007087 – Bátaapáti, Hosszú-valley, hornbeam-oak wood, from leaf-litter, 17.05.2007., leg. Sziráki, Gy.
 M-007089 – Bátaapáti, Hosszú-valley, brookside, alder wood, from moss, 17.05.2007., leg. Sziráki, Gy.

Tolna Hills

- M-00033 – Gyulaj, 12 km-s north from the village, from moss, 02.06.-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.
 M-00036 – Tamási, Gyulaj-woods, 12 km-s south from the village, hornbeam wood, from mixed leaf-litter, 02.06.-27.05.2000., leg. Mahunka, S., Mahunka-Papp, L.

Zala Hills

- H-945 – Tormaöföde, floodplain-woods at Kerka-brook, moss from moist pit, 12.04.1967., leg. Mahunka, S.
 H-946 – Kányavár, Válicka-valley, meadow at floodplain, from moist moss, 12.04.1967., leg. Mahunka, S.
 H-948 – Kányavár, Válicka-valley, hornbeam-oak wood, *Anemona silvestris*, from soil and leaf-litter, 12.04.1967., leg. Mahunka, S.
 H-951 – Nova, serried birch wood, from soil and leaf-litter, 13.04.1967., leg. Mahunka, S.
 H-952 – Nova, serried wood, from mixed moss, 13.04.1967., leg. Mahunka, S.
 H-954 – Kálócfa, valley of watercourse, from moist soil and leaf-litter, 13.04.1967., leg. Mahunka, S.
 H-1344 – Nádasd, mixed oak-birch wood, 16.05.1973., leg. Mahunka, S.
 H-1346 – Nádasd, mixed oak-birch wood, from moist leaf-litter, 16.05.1973., leg. Mahunka, S.
 H-1363 – Szemenye, detritus of wet grass and reed, 18.05.1973., leg. Mahunka, S.
 H-1364 – Szemenye, from moss and leaf-litter, under pine tree, 18.05.1973., leg. Mahunka, S.
 H-1365 – Bögöte, leaf-litter (oak and pine), 18.05.1973., leg. Mahunka, S.
 H-2716 – Felsőjánosfa, lime-oak wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2717 – Felsőjánosfa, old pine wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2719 – Szőce, *Sphagnum*-tuft, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2720 – Szőce, alder wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2721 – Szőce, oak wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2722 – Szőce, oak wood, from moss, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2723 – Szőce, highland, oak wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 M-000112 – Csesztreg, Paraszai woods, from moss, 10.09.2000., leg. Csuzdi, Cs.
 M-000113 – Csesztreg, Paraszai woods, hornbeam-oak wood, from leaf-litter, 10.09.2000., leg. Csuzdi, Cs.
 M-000116 – Szentgyörgyvölgy, Cilinkómajor, hornbeam-beech wood, from leaf-litter, 10.09.2000., leg. Csuzdi, Cs.
 M-000117 – Szentgyörgyvölgy, Cilinkómajor, hornbeam-beech wood, from moss, 10.09.2000., leg. Csuzdi, Cs.
 M-000118 – Zalabaksa, mixed oak wood, from moss, 10.09.2000., leg. Csuzdi, Cs.
 M-002095 – Szőce, *Sphagnum*-moor, from mixed moss, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002096 – Szőce, *Sphagnum*-moor, from deep under *Sphagnum*, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002098 – Szőce, *Sphagnum*-moor, hillside, moss between roots, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002099 – Szőce, *Sphagnum*-moor, hillside, leaf-litter under *Oryopteris*, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002111 – Magyarszombatfa, strictly protected moor, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002113 – Magyarszombatfa, strictly protected moor, from tree-moss, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002115 – Szentgyörgyvölgy, Közbirtokos wood, from tree-moss, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002116 – Szentgyörgyvölgy, Közbirtokos wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002118 – Márokföld, hornbeam-oak wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
 M-002120 – Magyarföld, dry wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.

- M-007091 – Kányavár, hornbeam-oak wood, from leaf-litter, 17.08.2007., leg. Csuzdi, Cs.
 M-007093 – Csömödér, hornbeam-oak wood, from leaf-litter, 17.08.2007., leg. Csuzdi, Cs.
 M-007094 – Csömödér, hornbeam-oak wood, from soil and leaf-litter, 17.08.2007., leg. Csuzdi, Cs.
 M-007111 – Tormafölde, ancient beech wood of Vétyem, N46°32,607 E16°38,631', 141 m, from leaf-litter, 18.09.2007, leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007112 – Szentmargitfalva, Bikucsa wood, N46°30,135' E16°39,634', 183 m, from soil, 18.09.2007., leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007113 – Szentmargitfalva, Bikucsa wood, N46°30,135' E16°39,634', 183 m, from leaf-litter, 18.09.2007., leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007114 – Lovászi, Koldustemető Hill, 250 m, from leaf-litter, 18.09.2007., leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007115 – Velemér, near church, beech wood, N46°43,289' E16°32,338', 205 m, from leaf-litter, 18.09.2007., leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007116 – Lovászi, Koldustemető Hill, 250 m, from leaf-litter, 18.09.2007., leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.
 M-007119 – Tormafölde, ancient beech wood of Vétyem, N46°32,607 E16°38,631', 141 m, from leaf-litter, 18.09.2007, leg. Dányi, L., Kotschán, J., Murányi, D., Ujvári, Zs.

Alpokalja

- H-1335 – Vasszentmihály, mixed beech-oak wood, from leaf-litter, 15.05.1973., leg. Mahunka, S.
 H-1336 – Vasszentmihály, from moss, 15.05.1973., leg. Mahunka, S.
 H-1337 – Vasszentmihály, near woods, from dry grass-tuft, 15.05.1973., leg. Mahunka, S.
 H-1338 – Vasszentmihály, moor, from grass-tuft, 15.05.1973., leg. Mahunka, S.
 H-1339 – Vasszentmihály, tree-moss from woods, 15.05.1973., leg. Mahunka, S.
 H-1340 – Vasszentmihály, rotten cortex and moss, 15.05.1973., leg. Mahunka, S.
 H-1347 – Farkasfa, mixed oak-hornbeam-pine wood, from mixed moss, 16.05.1973., leg. Mahunka, S.
 H-1348 – Farkasfa, mixed oak-hornbeam-pine wood, from leaf-litter, 16.05.1973., leg. Mahunka, S.
 H-1349 – between Szentgotthárd and Farkasfa, from ant-nest under tree-bark, 16.05.1973., leg. Mahunka S.
 H-1350 – between Szentgotthárd and Farkasfa, from nest of black ants under tree-bark, 16.05.1973., leg. Mahunka S.
 H-1351 – between Szentgotthárd and Farkasfa, from nest of black ants under tree-bark, 16.05.1973., leg. Mahunka S.
 H-1352 – between Szentgotthárd and Farkasfa, from nest of red ants under tree-bark, 16.05.1973., leg. Mahunka S.
 H-1353 – between Szentgotthárd and Farkasfa, from mixed moss, 16.05.1973., leg. Mahunka S.
 H-1355 – between Szentgotthárd and Farkasfa, from moss, 16.05.1973., leg. Mahunka S.
 H-1356 – between Szentgotthárd and Farkasfa, from heath community, soil and leaf-litter, 16.05.1973., leg. Mahunka S.
 H-1357 – Pornóapáti, hornbeam-beech wood, from leaf-litter, 17.05.1973., leg. Mahunka S.
 H-1358 – Pornóapáti, from tree-moss, 17.05.1973., leg. Mahunka S.
 H-1359 – Pornóapáti, from moss, 17.05.1973., leg. Mahunka S.
 H-1360 – Velem, from moss, 17.05.1973., leg. Mahunka S.
 H-1361 – Velem, from mixed leaf-litter, 17.05.1973., leg. Mahunka S.
 H-2705 – Alsószőlnök, eastern side, birch-hornbeam wood, moss from rotten tree, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2706 – Alsószőlnök, eastern side, birch-hornbeam wood, from leaf-litter under briches, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2707 – Felsőszőlnök, moisty valley, beech wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2708 – Felsőszőlnök, beech wood, from mixed moss, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2709 – Felsőszőlnök, pine wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2711 – Máriaújfalu, beech wood, from leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2712 – Máriaújfalu, from moss, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2713 – Farkasfa, pine froest, from soil and leaf-litter, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
 H-2714 – Farkasfa, from moss, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.

H-2715 – Farkasfa, root of *Erica* sp. with much soil, 22-26.05.1989., leg. Mahunka, S., Mahunka-Papp, L.
M-000104 – Fertőrákos, hornbeam-beech wood, from moss, 30.08.2002., leg. Horváth, E.
M-000106 – Fertőrákos, hornbeam-beech wood, from soil and leaf-litter, 30.08.2002., leg. Horváth, E.
M-000107 – Rőjtökmuzsaj, oak wood, from leaf-litter, 09.09.2000., leg. Csuzdi, Cs.
M-001060 – Velem, Gyertyánkút, from moss, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001063 – Velem, Gyertyánkút, near source, from moist leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001065 – Velem, Hosszú-valley, from rock-moss, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001066 – Velem, Hosszú-valley, beech wood, from grass-tuft and leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001067 – Velem, Velem woods, near brook, from moist moss, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001068 – Velem, Velem woods, pine wood, from leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001069 – Velem, Velem woods, brook valley, alder wood, from leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001070 – Velem, Velem woods, old beech wood, from leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001071 – Velem, Velem woods, moss from rotten stump, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001073 – Kőszeg, Alsó wood, pine wood, from leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001074 – Kőszeg, Alsó wood, from moss, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001075 – Simaság, oak wood, from leaf-litter, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-001076 – Iván, mixed wood, from moss, 21-23.05.2001., leg. Mahunka, S., Mahunka-Papp, L.
M-002102 – Kétvölgy, brookside hornbeam wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002103 – Kétvölgy, brookside alder wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002104 – Kétvölgy, near brook, from moss, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002106 – Orfalu, beech wood, from mixed leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002108 – Farkasfa, forester estate, beech wood, from leaf-litter, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002110 – Farkasfa, forester estate, 23.05.2002., leg. Mahunka, S., Mahunka-Papp, L.

Kisalföld

H-1688 – Bábolna, fringe of wood, 14.05.1972., leg. Balogh, J., Mahunka, S.
H-1689 – Bábolna, fringe of wood, from leaf-litter, 14.05.1972., leg. Balogh, J., Mahunka, S.
M-000101 – Újrónafő, Öregerdő, moss from stump, 30.08.2002., leg. Horváth, E.
M-000102 – Újrónafő, Öregerdő, moss and soil from moist part of the wood, 30.08.2002., leg. Horváth, E.
M-000129 – Halászi, Derék-woods, pine wood, from leaf-litter, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000130 – Halászi, Derék-woods, pine wood, from moss and soil, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000131 – Halászi, Derék-woods, pine wood, opened side, from moss, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000133 – Halászi, Derék-woods, protected oak wood, from leaf-litter, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000134 – Halászi, Derék-woods, protected oak wood, from dry leaf-litter, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000135 – Halászi, Derék-woods, pine wood, from leaf-litter, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000136 – Halászi, Derék-woods, soil and leaf-litter from pit, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000137 – Dunakiliti, from leaf-litter (oak), 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-000139 – Dunakiliti, primordial lawn, 15.11.2000., leg. Mahunka, S., Mahunka-Papp, L.
M-001079 – Csorna, Csikos-éger, alder wood, from soil, 21.03.2002., leg. Horváth, E.
M-002084 – Dunasziget, floodplain-woods, from mixed leaf-litter, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002085 – Dunasziget, from moss, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002086 – Püski, Salamon, soil and leaf litter under old tree, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002088 – Püski, Salamon, leaf-litter under hazel, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002089 – Püski, Salamon, soil and leaf litter under ash tree, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002092 – Püski, Salamon, leaf litter under oak, 03.05.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002130 – Dunasziget, Cikola, oak wood, from leaf litter, moss and dry soil, 29.08.2002., leg. Mahunka, S., Mahunka-Papp, L.

M-002133 – Dunasziget, floodplain, pine wood, from leaf-litter, 29.08.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002134 – Püski, Salamon, from soil and leaf-litter, 29.08.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002135 – Püski, Salamon, scrubland, from leaf-litter, 29.08.2002., leg. Mahunka, S., Mahunka-Papp, L.
M-002136 – Püski, Salamon, from leaf-litter (*Corylus*), 29.08.2002., leg. Mahunka, S., Mahunka-Papp, L.

List of species:

Prozercon fimbriatus (C. L. Koch, 1839)

Previous data: Aggtelek, Bükk, Mátra, Buda Mts., Dunazug Mts., Mecsek, Bakony, Zala Hills (Vincze 1965), Aggtelek, Bükk, Mátra, Dunazug Mts., Bakony, Zala Hills (Karg 1993), Vértes (Kontschán 2006), Zemplén, Vértes, Kőszeg Mts., (Kontschán 2006), Zemplén, Aggtelek, Bükk, Mátra, Cserhát, Börzsöny, Bakony, Balaton Highlands, Somogy Hills (Ujvári & Kontschán 2007).

New data: **Villány Mts.:** M-00011, M-00013, M-00016, M-00017, M-00021; **Mecsek:** M-00024, M-00025, M-00028, M-007089; **Zala Hills:** H-945, H-951, H-952, H-954, H-1344, H-1346, H-1363, H-1364, H-2716, H-2717, H-2719, H-2720, H-2721, H-2722, H-2723, M-002111, M-002113, M-002116, M-002118, M-002120, M-007093, M-007115, M-007119; **Alpokalja:** H-1335, H-1337, H-1338, H-1340, H-1347, H-1348, H-1349, H-1350, H-1351, H-1352, H-1355, H-1356, H-1359, H-1360, H-1361, H-2705, H-2706, H-2707, H-2708, H-2709, H-2710, H-2711, H-2712, H-2713, H-2714, M-000107, M-001063, M-001067, M-001068, M-001069, M-001070, M-001073, M-001074, M-002102, M-002103, M-002106, M-002108, M-002110; **Kisalföld:** M-000101, M-000102; M-000129, M-000130, M-000131, M-000133, M-000134, M-000136, M-000137, M-002086.

Distribution: Europe and Turkey.

Prozercon rafalskii Blaszak, 1971 (Fig. 2.)

New data: **Villány Mts.:** M-0005, M-0008, M-0009, M-00017; **Mecsek:** H-1333.

Distribution: Poland, Slovakia, Turkey, Croatia.

Remarks: The species is new to the fauna of Hungary. The specimens collected in Hungary are similar to those found in Mts. Papuk (Croatia): setae S1 situated (postero)laterally to Z1; setae S3 and S4 equal in length (Ujvári, 2008).

Prozercon tragardi (Halbert, 1923)

Previous data: Buda Mts., Velence Mts., Bakony (Vincze 1965), Buda Mts., Velence Mts., Bakony (Karg 1993), Bakony, Vértes, Mecsek (Salmane & Kontschán 2006) Vértes (Kontschán 2006), Aggtelek, Bükk, Cserhát, Börzsöny, Bakony (Ujvári & Kontschán 2007).

New data: **Villány Mts.:** M-00012, M-00016, M-00017, M-00019, M-0002, M-00021; **Mecsek:** M-00024, M-00025, M-00026, M-00027, M-00028, M-00031; **Tolna Hills:** M-00036; **Zala Hills:** H-945, H-946, H-948, H-1365, H-2716, H-2721, H-2722, M-002099, M-007091, M-007111, M-007112, M-007113; **Alpokalja:** H-1361; H-2706, H-2707, M-002103.

Distribution: Iceland, British Isles, Sweden, Germany, Switzerland, Latvia, Poland, Czech Republic, Austria, Slovakia, Ukraine, Hungary, Romania, Russia, Turkey.

Zercon abaculus C. L. Koch, 1839 (Fig. 3.)

New data: **Alpokalja:** M-001070, M-001071.

Distribution: Central-Europe.

Remarks: The species is new to the fauna of Hungary.

Zercon athiasi Vincze, 1965

Previous data: Buda Mts. (Vincze 1965).

New data: **Villány Mts.:** M-0002, M-0003, M-0004, M-0005.

Distribution: Hungary, Slovakia.

Zercon berlesei Sellnick, 1958

Previous data: Aggtelek, Bükk, Mátra, Bakony (Vincze 1965), Pilis (Kontschán 2006), Aggtelek, Bükk, Mátra, Börzsöny (Ujvári & Kontschán 2007).

New data: **Villány Mts.:** M-0002.

Distribution: Europe.

Zercon gurensis Mihelèiè, 1972

Previous data: Vértes (Kontschán, 2006).

New data: **Zala Hills:** H-2716, M-002120; **Alpokalja:** H-1355, H-1356, H-1361, H-2706, H-2707, H-2709, H-2711, H-2712, H-2713, H-2716, M-001063, M-001067, M-001069, M-001070.

Distribution: Austria, Slovakia, Ukraine, Romania, Hungary.

Zercon hungaricus Sellnick, 1958

Previous data: Bükk, Mátra, Buda Mts., Visegrád Mts., Vértes, Velence Mts., Bakony, Keszthely Mts., Somogy Hills (Vincze 1965, Karg 1993), Bársonyos (Kontschán 2006), Vértes, Mecsek (Salmane & Kontschán 2006) Gerecse, Vértes, Bakony, Mecsek (Kontschán 2006), Aggtelek, Bükk, Mátra, Cserhát, Börzsöny, Gödöllő Hills, Buda Mts., Vértes, Bakony, Somogy Hills (Ujvári & Kontschán 2007).

New data: **Villány Mts.:** M-0009, M-00017, M-00018; **Mecsek:** M-002129; M-007086, M-007089; **Tolna Hills:** M-00033; **Zala Hills:** H-948, H-1344, H-1346, H-1364, H-2720, H-2721, H-2722, M-000116, M-002095, M-002116, M-002118, M-007114, M-007115; **Alpokalja:** H-1335, H-1347, H-1348, H-1352, H-1355, H-1359, H-1360, H-2712, H-2713, H-2714, H-2715, M-001066, M-001073, M-001076, M-002102, M-002103, M-002104, M-002108; **Kisalföld:** H-1688, H-1689.

Distribution: Central-Europe.

Zercon latissimus Sellnick, 1944

Previous data: Mecsek (Vincze 1965), Zala Hills, Mecsek (Karg 1993).

New data: **Mecsek:** M-00024, M-00026.

Distribution: Spain, France, Italy, Slovakia, Hungary, Romania.

Zercon montigenus Blaszak, 1972

Previous data: Alpokalja (Kontschán 2006).

New data: **Mecsek:** M-002129.

Distribution: Europe.

Zercon peltatus C. L. Koch, 1836

Previous data: Zemplén, Aggtelek, Bükk, South-Alföld, Dunazug Mts., Vértes (Vincze 1965, Karg 1993), Vértes (Kontschán 2006), Bakony, Balaton Highlands, Vértes, Mecsek (Salmane & Kontschán 2006), Mátra, Buda Mts., Vértes, Bakony (Kontschán 2006), Zemplén, Aggtelek, Bükk, Mátra, Cserhát, Börzsöny, Vértes, Bakony, Kisalföld (Ujvári & Kontschán 2007).

New data: **Villány Mts.:** M-00011, M-00012, M-00016, M-00017, M-00018, M-00019, M-00021, M-0008, M-0009; **Mecsek:** H-2008, M-00025, M-00026, M-00027, M-00031, M-007085, M-007086, M-007087; **Tolna Hills:** M-00033, M-00036; **Zala Hills:** M-002095, M-002096; **Alpokalja:** M-000104; **Kisalföld:** M-000130, M-000131, M-000133, M-000134, M-000135, M-000136, M-000137, M-000139, M-002084, M-002085, M-002086, M-002088, M-002089, M-002092, M-002130, M-002133, M-002134, M-002135, M-002136.

Distribution: Europe.

Zercon serenus Halašková, 1969

Previous data: Aggtelek, Börzsöny, Kisalföld (Ujvári & Kontschán 2007).

New data: **Zala Hills:** H-1364, M-002113, M-002118, M-2120, M-007115; **Alpokalja:** H-1335, H-1336, H-1337, H-1338, H-1339, H-1340, H-1349, H-1351, H-1353, H-1356, H-2705, M-001075, M-001076, M-002110; **Kisalföld:** H-1689, M-001079.

Distribution: Czech Republic, Slovakia, Hungary.

Zercon spatulatus Koch, 1839

Previous data: Mátra, Pilis, Buda Mts. (Karg 1993), Szigetköz (Salmane & Kontschán 2005), Pilis (Kontschán 2006), Szigetköz (Salmane & Kontschán 2005), Bakony, Balaton Highlands, Mecsek (Salmane & Kontschán 2006)

New data: **Alpokalja:** M-001065, M-001071.

Distribution: Europe.

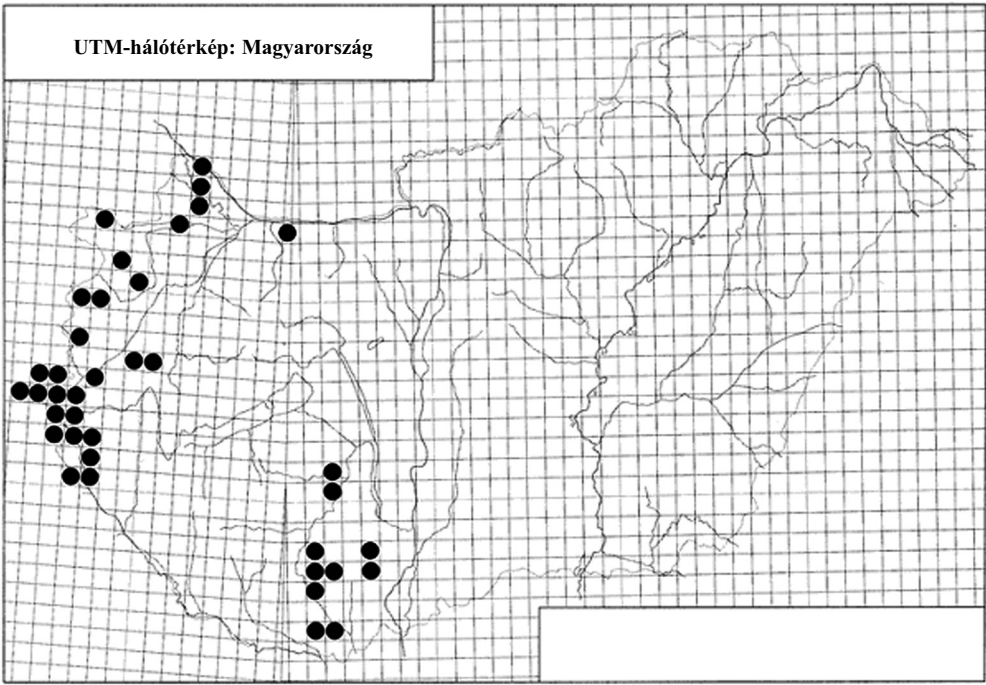
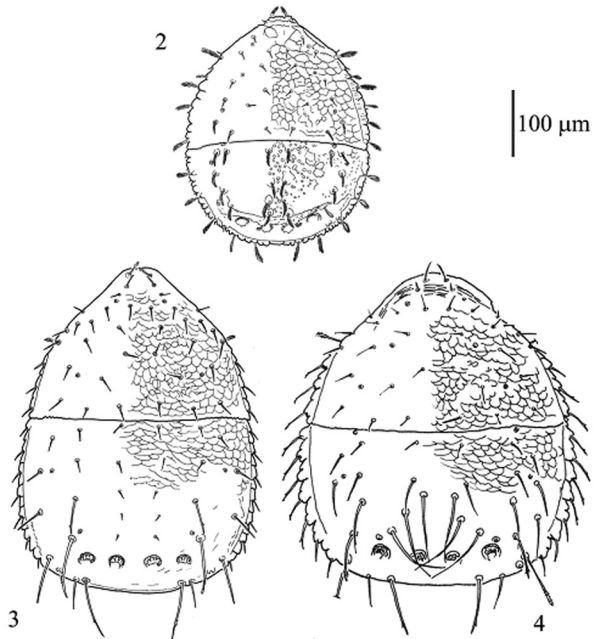


Fig. 1. New records of Zerconidae species from the Transdanubian.

S/N: S102HH005794



Figs 2–4. Zerconid species are new to the fauna of Hungary: 2: dorsal view of *Prozercon rafalskii* female; 3: dorsal view of *Zercon abaculus* female; 4: dorsal view of *Zercon tematinensis* female.

Zercon tematinensis Mašan & Fend'a, 2004 (Fig. 4.)

New data: Zala Hills: M-007113, M-007116; **Alpokalja:** H-2706, H-2709.

Distribution: Slovakia.

Remarks: The species is new to the fauna of Hungary.

Zercon triangularis C. L. Koch, 1836

Previous data: Zemplén, Keszthely Mts., Zala Hills (Vincze 1965, Karg 1993), Kőszeg Mts., Bakony (Kontschán 2006), Zemplén, Bakony, Kisalföld (Ujvári & Kontschán, 2007).

New data: **Mecsek:** M-00031, M-002129; **Zala Hills:** H-946, H-951, H-1346, H-2716, H-2720, M-000112, M-000113, M-000116, M-000117, M-007094; **Alpokalja:** H-1338, H-1340, H-1347, H-1348, H-1349, H-1350, H-1351, H-1352, H-1355, H-1356, H-1357, H-1358, H-1359, H-1360, H-1361, H-2705, H-2706, H-2711, H-2712, H-2713, H-2714, H-2715, M-001060, M-001063, M-001068, M-001073, M-001074, M-002102, M-002103, M-002106, M-002108, M-002111, M-002115, M-002116, M-002120, M-007111, M-007112, M-007113, M-007114, M-007115, M-007116, M-007119.

Distribution: Europe.

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