

SUPPLEMENTARY CHECKLIST OF ORIBATID MITES (ACARI) FROM TURKEY

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ABSTRACT: In the present paper, a supplementary checklist of oribatid mites recorded between the years 2008-2016 is provided (the closing date for publications included in this list was 15 May 2016). The oribatid mite species described from Turkey as new to science have been highlighted.

KEY WORDS: Supplementary checklist, Oribatid mites, Acari, Turkey

Oribatids are the characteristic mites of the soil. About 11,000 species are known in about 1,300 genera and approximately 175 families (Subías, 2004, updated February 2016). A list of the acari fauna of Turkey was given by Özkan et al. (1988), which was updated by Özkan et al. (1994) and Erman et al. (2007). In those studies, 143 species and 1 subspecies included in 75 genera and 43 families belonging to oribatid mites were listed. Between the years 2008-2016, more studies have been done on the oribatid mite fauna of Turkey. In the present paper, a supplementary checklist of oribatid mites recorded between the years 2008-2016 is provided (the closing date for publications included in this list was 15 May 2016). The oribatid mite species described from Turkey as new to science have been highlighted.

Supplementary checklist of oribatid mites

Lohmanniidae Berlese, 1916

Papillacarus Kunst, 1959

Papillacarus ondriasi Mahunka, 1974; Baran, 2015

Perlohmanniidae Grandjean, 1954

Perlohmannia Berlese, 1916

Perlohmannia (Perlohmannia) Berlese, 1916

Perlohmannia (Perlohmannia) turcica Ayyıldız et al., 2016; Ayyıldız et al., 2016

Epilohmanniidae Oudemans, 1923

Epilohmannia Berlese, 1910

Epilohmannia imreorum Bayoumi & Mahunka, 1976; Baran et al., 2015

Euphthiracaridae Jacot, 1930

Acrotritia Jacot, 1923

Acrotritia duplicata (Grandjean, 1953); Ayyıldız et al., 2011a

Phthiracaridae Perty, 1841

Phthiracarus Perty, 1841

Phthiracarus (Phthiracarus) Perty, 1841

Phthiracarus (Phthiracarus) lentulus (C. L. Koch, 1841); Bayram & Çobanoğlu, 2009

Malaconothridae Berlese, 1916***Tyrphonothrus*** Knülle, 1957***Tyrphonothrus (Tyrphonothrus)*** Knülle, 1957*Tyrphonothrus (Tyrphonothrus) glaber* (Michael, 1888); Toluk & Ayyıldız, 2008a**Nothridae** Berlese, 1896***Nothrus*** Koch, 1836*Nothrus silvestris* Nicolet, 1855; Ayyıldız & Toluk, 2016**Crotoniidae** Thorell, 1876***Heminothrus*** Berlese, 1913***Heminothrus (Platynothrus)*** Berlese, 1913*Heminothrus (Platynothrus) peltifer* (C. L. Koch, 1839); Bayram & Çobanoğlu, 2009**Nanhermanniidae** Sellnick, 1928***Nanhermannia*** Berlese, 1913***Nanhermannia (Nanhermannia)*** Berlese, 1913*Nanhermannia (Nanhermannia) nana* (Nicolet, 1855); Sarıal & Baran, 2013**Hermannidae** Sellnick, 1928***Hermannia*** Nicolet, 1855***Hermannia (Hermannia)*** Nicolet, 1855*Hermannia (Hermannia) gibba* (Koch, 1839); Yalçın et al., 2013**Hermannellidae** Grandjean, 1934***Hermannella*** Berlese, 1908*Hermannella multipora* Sitnikova, 1973; Ayyıldız & Toluk, 2016**Neoliodidae** Sellnick, 1928***Neoliodes*** Berlese, 1888*Neoliodes theleproctus* (Hermann, 1804); Per et al., 2015***Poroliodes*** Grandjean, 1934*Poroliodes farinosus* (Koch, 1839); Yalçın et al., 2013**Plateremaeidae** Trägårdh, 1926***Paralopheremaeus*** Paschoal, 1987*Paralopheremaeus hispanicus arifi* Baran, 2010; Baran, 2010a**Licnodamaeidae** Grandjean, 1954***Licnobelba*** Grandjean, 1931*Licnobelba caesarea* (Berlese, 1910); Ayyıldız & Toluk, 2016**Gymnodamaeidae** Grandjean, 1954***Gymnodamaeus*** Kulczynski, 1902*Gymnodamaeus barbarossa* Weigmann, 2006; Toluk & Ayyıldız, 2014*Gymnodamaeus bicostatus* (Koch, 1835); Yalçın et al., 2013***Jacotella*** Banks, 1947*Jacotella frondeus* (Kulijev, 1979); Ayyıldız & Toluk, 2016**Compactozetidae** Luxton, 1988***Cepheus*** Koch, 1835*Cepheus dentatus* (Michael, 1888); Ayyıldız et al., 2011b**Ceratoppiidae** Kunst, 1971***Parapyroppia*** Pérez-Íñigo & Subías, 1979*Parapyroppia cornuta* (Berlese, 1910); Toluk & Ayyıldız, 2009a

Liacaridae Sellnick, 1928**Adoristes** Hull, 1916**Adoristes (Gordeeviella)** Shtanchaeva, Subías & Arillo, 2010*Adoristes (Gordeeviella) krivolutskiyi* Shtanchaeva, Subías & Arillo, 2010; Ayyıldız & Toluk, 2016**Zetorchestidae** Michael, 1898**Zetorchestes** Berlese, 1888*Zetorchestes grandjeani* Krisper, 1987; Baran & Kılıç, 2013; Toluk & Ayyıldız, 2013**Ctenobelbidae** Grandjean, 1965**Ctenobelba** Balogh, 1943**Ctenobelba (Ctenobelba)** Balogh, 1943*Ctenobelba (Ctenobelba) ayyıldızı* Baran, 2012; Baran, 2012**Ctenobelba (Caucasiobelba)** Subías & Shtanchaeva, 2010*Ctenobelba (Caucasiobelba) urhani* Baran, 2015; Baran, 2015**Amerobelbidae** Grandjean, 1961**Amerobelba** Berlese, 1908*Amerobelba decedens* Berlese, 1908; Şimşek and Baran, 2012**Damaeolidae** Grandjean, 1965**Damaeolus** Paoli, 1908*Damaeolus asperatus* (Berlese, 1904); Baran et al., 2010*Damaeolus ornatissimus* Csiszár, 1962; Baran et al., 2010**Eremobelbidae** Balogh, 1961**Eremobelba** Berlese, 1908*Eremobelba geographica* Berlese, 1908; Toluk et al., 2015**Ameridae** Bulanova-Zachvatkina, 1957**Amerus** Berlese, 1896*Amerus (Amerus) polonicus* Kulczynski, 1902; Baran & Kılıç, 2013**Caleremaeidae** Grandjean, 1965**Caleremaeus** Berlese, 1910*Caleremaeus monilipes* (Michael, 1882); Ayyıldız et al., 2011b**Autognetidae** Grandjean, 1960**Autogneta** Hull, 1916**Autogneta (Autogneta)** Hull, 1916*Autogneta (Autogneta) parva* Forsslund, 1947; Toluk & Ayyıldız, 2008b**Autogneta (Rhaphigneta)** Grandjean, 1960*Autogneta (Rhaphigneta) flagellata* (Mahunka, 1977); Ayyıldız & Toluk 2016*Autogneta (Rhaphigneta) numidiana* (Grandjean, 1960); Toluk & Ayyıldız, 2009b**Conchogneta** Grandjean, 1963*Conchogneta dalecarlica* (Forsslund, 1947); Toluk & Ayyıldız, 2009b**Thyrisomidae** Grandjean, 1953**Banksinoma** Oudemans, 1930*Banksinoma lanceolata* (Michael, 1885); Toluk & Ayyıldız, 2011**Oppiidae** Sellnick, 1937**Lasiobelba** Aoki, 1959**Lasiobelba (Lasiobelba)** Aoki, 1959*Lasiobelba (Lasiobelba) kuehneli* (Csiszár, 1961); Yaşa et al., 2015**Multioppia** Hammer, 1961**Multioppia (Multioppia)** Hammer, 1961*Multioppia (Multioppia) turcica* Toluk et al., 2009; Toluk et al., 2009a

Ramusella Hammer, 1962**Ramusella (Ramusella)** Hammer, 1962*Ramusella (Ramusella) sengbuschi* Hammer, 1968; Toluk & Ayyıldız, 2008b**Ramusella (Insculptoppia)** Subías, 1980*Ramusella (Insculptoppia) ermani* Baran, 2010; Baran, 2010b*Ramusella (Insculptoppia) golbasiensis* Baran, 2010; Baran, 2010b*Ramusella (Insculptoppia) neonominata* Subías, 2004; Toluk & Ayyıldız, 2008c*Ramusella (Insculptoppia) pinarbasiensis* Ayyıldız et al., 2010; Ayyıldız et al., 2010*Ramusella (Insculptoppia) salmani* Toluk & Ayyıldız, 2008; Toluk & Ayyıldız, 2008b**Microppia** Balogh, 1983*Microppia arcuata* Gordeeva & Tarba, 1990; Toluk & Ayyıldız, 2008b**Rhinoppia** Balogh, 1983**Rhinoppia (Rhinoppia)** Balogh, 1983*Rhinoppia (Rhinoppia) artvinensis* Toluk & Ayyıldız, 2008; Toluk & Ayyıldız, 2008d*Rhinoppia (Rhinoppia) elifae* Toluk et al., 2009; Toluk et al., 2009*Rhinoppia (Rhinoppia) exobothridialis* Toluk & Ayyıldız, 2009; Toluk & Ayyıldız, 2009c*Rhinoppia (Rhinoppia) hygrophila* (Mahunka, 1987); Yalçın et al., 2013*Rhinoppia (Rhinoppia) loksai* (Schalk, 1966); Toluk & Ayyıldız, 2008c*Rhinoppia (Rhinoppia) mahunkai* Toluk et al., 2009; Toluk et al., 2009*Rhinoppia (Rhinoppia) nasuta* (Moritz, 1965); Toluk et al., 2010*Rhinoppia (Rhinoppia) parapectinata* (Ryabinin, 1987); Toluk et al., 2010*Rhinoppia (Rhinoppia) trilobata* (Khanbekjan & Gordeeva, 1991); Toluk & Ayyıldız, 2008b*Rhinoppia (Rhinoppia) alidagiensis* Toluk, 2016; Toluk, 2016**Rhinoppia (Bipectinoppia)** Subías and Shtanchaeva, 2011*Rhinoppia (Bipectinoppia) emarginata* Toluk & Ayyıldız, 2009; Toluk & Ayyıldız, 2009c*Rhinoppia (Bipectinoppia) tasdemiri* Toluk & Ayyıldız, 2008; Toluk & Ayyıldız, 2008d*Rhinoppia (Bipectinoppia) variopectinata* Toluk & Ayyıldız, 2010; Toluk & Ayyıldız, 2010a**Berniniella** Balogh, 1983**Berniniella (Berniniella)** Balogh, 1983*Berniniella (Berniniella) parasigma* Iturrondobeitia, 1987; Toluk & Ayyıldız, 2009b*Berniniella (Berniniella) serratiostris hauseri* (Mahunka, 1974); Toluk & Ayyıldız, 2008b**Dissorhina** Hull, 1916*Dissorhina uludagensis* Ayyıldız et al., 2010; Ayyıldız et al., 2010a**Lauroppia** Subías & Mínguez, 1986*Lauroppia maritima acuminata* (Strenzke, 1951); Toluk & Ayyıldız, 2011*Lauroppia tenuipectinata* Subías & Rodríguez, 1988; Toluk & Ayyıldız, 2009b*Lauroppia tridentata* (Forsslund, 1942); Toluk & Ayyıldız, 2011**Moritzoppia** Subías & Rodríguez, 1988*Moritzoppia acuta* Toluk & Ayyıldız, 2010; Toluk & Ayyıldız, 2010a*Moritzoppia escotata* (Subías & Rodríguez, 1986); Toluk & Ayyıldız, 2008b*Moritzoppia keilbachi* (Moritz, 1969); Toluk & Ayyıldız, 2008b*Moritzoppia problematica* Mahunka & Mahunka-Papp, 2002; Toluk & Ayyıldız, 2008b*Moritzoppia turcica* Toluk & Ayyıldız, 2010; Toluk & Ayyıldız, 2010a**Oppiella** Jacot, 1937**Oppiella (Perspicuoppia)** Pérez-Íñigo, 1971*Oppiella (Perspicuoppia) ozkani* Baran et al., 2012; Baran et al., 2012*Oppiella (Perspicuoppia) turcica* Toluk & Ayyıldız, 2009; Toluk & Ayyıldız, 2009c**Oxyoppia** Balogh & Mahunka, 1969**Oxyoppia (Dzarogneta)** Kulijev, 1978*Oxyoppia (Dzarogneta) baranae* Toluk & Ayyıldız, 2008; Toluk & Ayyıldız, 2008b

Subiasella Balogh, 1983**Subiasella (Dividoppia)** Mahunka, 1987*Subiasella (Dividoppia) aperta* (Mahunka, 1987); Baran et al., 2012**Corynoppia** Balogh, 1983*Corynoppia andulau sakaryaensis* Mahunka, 2001; Baran & Gökyeşil, 2015*Corynoppia kosarovi* (Jeleva, 1962); Baran et al., 2011**Epimerellidae** Ayyıldız and Luxton, 1989**Epimerella** Kulijev, 1967*Epimerella ankaraensis* Baran et al., 2012; Baran et al., 2012*Epimerella luxtoni* Toluk et al., 2008; Toluk et al., 2008*Epimerella marasensis* Toluk & Ayyıldız, 2013; Toluk & Ayyıldız, 2013*Epimerella subiasi* Toluk et al., 2008; Toluk et al., 2008**Quadroppiidae** Balogh, 1983**Quadroppia** Jacot, 1939**Quadroppia (Quadroppia)** Jacot, 1939*Quadroppia (Quadroppia) squarrosa* Toluk & Ayyıldız, 2009; Toluk & Ayyıldız, 2009d*Quadroppia (Quadroppia) maritalis* Lions, 1982; Baran et al., 2009**Quadroppia (Coronoquadroppia)** Ohkubo, 1995*Quadroppia (Coronoquadroppia) foveolata* Toluk & Ayyıldız, 2009; Toluk & Ayyıldız, 2009d*Quadroppia (Coronoquadroppia) micheali turcica* Baran et al., 2009; Baran et al., 2009*Quadroppia (Coronoquadroppia) nasalis* Gordeeva, 1983; Baran et al., 2009*Quadroppia (Coronoquadroppia) paolii* (Woas, 1986); Baran & Ayyıldız, 2008*Quadroppia (Coronoquadroppia) sezeki* Baran & Ayyıldız, 2009; Baran & Ayyıldız, 2009**Suctobelbidae** Jacot, 1938**Rhynchobelba** Willmann, 1953**Rhynchobelba ozkani** Sarıal & Baran, 2013: Sarıal & Baran, 2013**Suctobelba** Paoli, 1908**Suctobelba (Suctobelba)** Paoli, 1908*Suctobelba (Suctobelba) atomaria* Moritz, 1970: Toluk & Ayyıldız, 2010b*Suctobelba (Suctobelba) beringiana* Krivolutsky, 1974: Toluk & Ayyıldız, 2010b**Suctobelbella** Jacot, 1937**Suctobelbella (Suctobelbella)** Jacot, 1937*Suctobelbella (Suctobelbella) acutidens* (Forsslund, 1941): Toluk et al., 2010**Suctobelbella (Flagrosuctobelba)** Hammer, 1979*Suctobelbella (Flagrosuctobelba) subtrigona* (Oudemans, 1900): Yalçın et al., 2013**Carabodidae** Koch, 1837**Carabodes** Koch, 1835**Carabodes (Flexa)** Kulijev, 1977*Carabodes (Flexa) intermedius* Willman, 1951: Yalçın et al., 2013**Tectocephidae** Grandjean, 1954**Tectocephus** Berlese, 1896*Tectocephus alatus* Berlese, 1913: Per et al., 2015**Licneremaeidae** Grandjean, 1931**Licneremaeus** Paoli, 1908*Licneremaeus licnophorus* (Michael, 1882): Toluk & Ayyıldız, 2011**Scutoverticidae** Grandjean, 1954**Provertex** Mihelčič, 1959*Provertex forsslundi* Krivolutsky, 1969: Ayyıldız et al., 2013

Achipteriidae Thor, 1929**Campachipteria** Aoki, 1995*Campachipteria fanzagoi* (Jacot, 1929): Per & Ercan, 2015**Oribatellidae** Jacot, 1925**Ophidiotrichus** Grandjean, 1953*Ophidiotrichus tectus* (Michael, 1884): Ayyıldız et al., 2013**Ceratozetidae** Jacot, 1925**Lepidozetes** Berlese, 1910*Lepidozetes singularis* Berlese, 1910: Ayyıldız et al., 2011c**Oribatulidae** Thor, 1929**Oribatula** Berlese, 1896*Oribatula (Oribatula)* Berlese, 1896*Oribatula (Oribatula) interrupta* (Willmann, 1939): Yalçın et al., 2013**Phauloppia** Berlese, 1908*Phauloppia lucorum* (Koch, 1841): Ayyıldız & Toluk, 2016**Liebstadiidae** J. and P. Balogh, 1984**Liebstadia** Oudemans, 1906*Liebstadia (Liebstadia)* Oudemans, 1906*Liebstadia (Liebstadia) humerata* Sellnick, 1928: Yalçın et al., 2013**Schelorbitidae** Grandjean, 1933**Schelorbitates** Berlese, 1908*Schelorbitates (Schelorbitates)* Berlese, 1908*Schelorbitates (Schelorbitates) xylobatoides* Mahunka, 1977: Toluk & Ayyıldız, 2009a

Between 1 January 2008 and 15 May 2016, totally 5 subspecies and 96 species, 45 genera and 17 families added to the Turkish oribatid fauna. 30 species and 3 subspecies of these have been described from Turkey as new to science and the rest of 66 species and 2 subspecies have been recorded as new records for the Turkish fauna. Up to 15 May 2016, the total number of families has increased to 60, genera has increased to 120, species has reached to 239 and subspecies has raised to 6.

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