

# Otopheidomenidae (Acari: Mesostigmata) – a new mite family for the fauna of Bulgaria and the Balkan Peninsula

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**Abstract:** A record of *Hemipteroseius adleri* Costa, 1968: the first member of family Otopheidomenidae (Acari) in Bulgaria, on *Pyrrhocoris apterus* (Hemiptera).

**Key words:** Acari, Otopheidomenidae, Hemiptera, *Pyrrhocoris apterus*, Bulgaria

Mites – ectoparasites on insects of the family Otopheidomenidae live as haemolymph sucking on Lepidoptera (Otopheidomeninae), Hemiptera Heteroptera (Treatiinae), Orthoptera (Katydidinae) and Isoptera (the genus *Eickworthius* Zhang, 1995) (PRASAD, 2011). Recently the specialist in Heteroptera Dr N. Simov found on the red firebug *Pyrrhocoris apterus* L. (Pyrrhocoridae), a very common species in Bulgaria, several mites belonging to Otopheidomenidae. The mites were found under the hemielytrae of the bugs and were identified as the species *Hemipteroseius adleri* Costa, described from Israel on the same bug species and on another one (*Scantius aegyptius* L.) by COSTA (1968). Later the species of Costa has been found in Europe (Poland, LEWANDOWSKI & SZAFRANEK, 2005), than also from Lithuania (CHMIELEWSKI, 2006a, 2006b), Hungary (KONTSCHAN & GYURIS, 2010) and Slovakia (FEND'A, 2011) – mostly in northern and central Europe. Other species of genus *Hemipteroseius* Evans, 1963 have been found on Pyrrhocoridae and Lygaeidae in Nigeria, India, Congo, Mexico, Jamaica, Cuba, Haiti, Puerto Rico, other Caribbean islands, and Panama – all of them in tropical countries (ZHANG, 1995).

*Hemipteroseius adleri* Costa, 1968 – many, Sofia, October 15<sup>th</sup>, 2013, N. Simov leg., P. Beron det.

The family is new for the fauna of Bulgaria and the Balkan Peninsula.

## References

- CHMIELEWSKI W. 2006a. New places to occurrence of *Hemipteroseius adleri* parasitic on *Pyrrhocoris apterus* in Europe. In: Bruin, J. (Ed.): Abstract Book. 12<sup>th</sup> Intern. Congress of Acarology. 21-26 August 2006, Amsterdam, The Neth., p.43.
- CHMIELEWSKI W. 2006b. Occurrence of *Hemipteroseius adleri* (Acari: Mesostigmata: Otopheidomenidae) infesting *Pyrrhocoris apterus* (Insecta: Heteroptera: Pyrrhocoridae) in Pulawy and other localities in Poland and Lithuania. – Biological Letters, **43**(2): 157-161.
- COSTA M. 1968. Notes on the genus *Hemipteroseius* Evans (Acari: Mesostigmata) with description of a new species from Israel. – Journal of Natural History, **2**: 1-15.
- FEND'A P. 2011. The first record of the family Otopheidomenidae (Acari, Mesostigmata) in Slovakia. – Folia faunistica Slovaca, **16**(2): 115-117.
- KONTSCHÁN J., GYURIS E. 2010. HEMIPTEROSEIUS ADLERI COSTA, 1968 COLLECTED ON RED FIREBUG: THE FIRST RECORD OF THE FAMILY Otopheidomenidae Treat, 1955 (Acari: Mesostigmata) in Hungary. – Opuscula Zoologica Budapestinensis, **41**(2): 241-243.
- LEWANDOWSKI M., SZAFRANEK P. 2005. Ectoparasitic mite *Hemipteroseius adleri* (Acari: Otopheidomenidae) on firebug *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae). – Experimental and Applied Acarology, **35**: 251-257.
- PRASAD V. 2011. Phytoseiidae and Otopheidomenidae (Acari: Mesostigmata) of the World: a Self Study Guide. Indira Publishing House, Michigan, 208 p.
- ZHANG Z.-Q. 1995. Review of the systematics and biology of the Otopheidomenidae (Acari: Mesostigmata) with a description of *Eickworthius* gen.n. from termite (Isoptera: Termitidae). – Systematic Entomology, **20**: 239-246.

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## **Otopheidomenidae (Acari: Mesostigmata) – ново семейство акари за фауната на България и Балканския полуостров**

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(Резюме)

Съобщава се за пръв път в България *Hemipteroseius adleri* по *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae) – представител на новото за Балканския полуостров семейство акари Otopheidomenidae (Acari: Mesostigmata).