



Revision of *Molopsis* Schatzmayr (Coleoptera: Carabidae: Pterostichini), with descriptions of four new species

ROMAN LOHAJ¹, BORISLAV GUÉORGUIEV², GÉRARD DUBAULT³ & BERNARD LASSALLE⁴

¹Institute of Forensic Sciences, Kuzmányho 8, SK-041 02 Košice, Slovakia. E-mail: roman.lohaj@minv.sk, rlohaj@gmail.com

²Natural Museum of Natural History, 1 blvd. Tzar Osvooboditel, 1000 Sofia, Bulgaria. E-mail: gueorguiev@nmnhs.com, bobivg@yahoo.com

³29, rue A.-Dumas, F-91600, Savigny sur Orge, France. E-mail: g.dubault@wanadoo.fr

⁴8 rue Lefebure, F-28340, Boissy lès Perche, France. E-mail: nov.las0705@wanadoo.fr

Table of contents

Abstract	1
Introduction	2
Material and methods	2
Systematic part	5
<i>Molopsis</i> Schatzmayr, 1943	5
<i>Tapinopterus (Molopsis) molopiformis</i> (Lutshnik, 1922)	6
<i>Tapinopterus (Molopsis) aenigmaticus</i> sp.nov.	7
<i>Tapinopterus (Molopsis) phrygius</i> G. Müller, 1932	9
<i>Tapinopterus (Molopsis) machardi</i> (Jeanne, 2005)	11
<i>Tapinopterus (Molopsis) oyukluensis</i> sp.nov.	13
<i>Tapinopterus (Molopsis) molopinus</i> (Chaudoir, 1868)	14
<i>Tapinopterus (Molopsis) chaudiiri</i> sp.nov.	19
<i>Tapinopterus (Molopsis) relegatus</i> sp.nov.	24
<i>Tapinopterus (Molopsis) wiedemanni</i> (Chaudoir, 1850)	26
<i>Tapinopterus (Pseudomolopsis) rebellis</i> (Reiche & Saulcy, 1855) s.l.	27
Ovipositor morphology, seasonal activity and possible parental care in <i>Molopsis</i>	28
Conclusions	30
Key to the identification of <i>Tapinopterus</i> subg. <i>Molopsis</i> and <i>Pseudomolopsis</i> (in press)	31
Checklist of the species of <i>Tapinopterus</i> subgenus <i>Molopsis</i>	32
Acknowledgements	33
References	33

Abstract

The species belonging to the subgenus *Molopsis* Schatzmayr, 1943 of genus *Tapinopterus* Schaum, 1858 are revised. The study is based on 372 specimens and includes, for each taxon, diagnosis, description (only for the new species), references, new distributional records and illustrations. Morphological characters of the male and female genitalia are widely used to delimit the separate species, the significance of some non-gonapophyseal genital structures of the females for the systematics of *Molopsis* is explicitly emphasized. For the first time, the male genitalia of *T. molopiformis*, *T. molopinus*, *T. wiedemanni*, and *T. rebellis*, including also newly described species, as well as female genitalia of *Molopsis* are described and illustrated. All available type material is listed and represented by habitus photographs.

As a result, 9 monotypic species of *Molopsis* are recognized. *Tapinopterus rebellis* (Chaudoir, 1868) and *T. rebellis kumanensis* (Reitter, 1884), formerly assigned to *Molopsis* are recognized as outgroup-taxa. The following new species are described: *T. (Molopsis) aenigmaticus* **sp.nov.** (Asian Turkey, „Armenia“ imprecise locality), *T. (Molopsis) chaudiiri* **sp.nov.** (Asian Turkey, Bursa Villayet, Uludağ Mt., Sakarya (Adapazari) Villayet, Gökdağ Mt.), *T. (Molopsis) oyukluensis* **sp.nov.** (Asian Turkey, Konya Villayet, Fasihhan Pass), and *T. (Molopsis) relegatus* **sp.nov.** (Asian Turkey, Bolu Villayet, Mengen env., Dorukhan Pass). The following nomenclatural acts are also proposed: *Tapinopterus (Molopsis) molopinus* (Chaudoir, 1868) = *Tapinopterus (Molopsis) dipojranus brussanus* Straneo, 1984, **syn.nov.**; *Tapinopterus (Molopsis)*