

Revision of the genus *Ocnera* Fischer von Waldheim, 1822 (Coleoptera: Tenebrionidae: Pimeliini) from China

Ревизия рода *Ocnera* Fischer von Waldheim, 1822 (Coleoptera: Tenebrionidae: Pimeliini) Китая

G.-D. Ren¹, Y.-B. Ba²
Г.-Д. Рен¹, Й.-Б. Ба²

¹College of Life Sciences, Hebei University, Baoding, Hebei 071002 China. E-mail: gdren@hbu.edu.cn

²Museum of Hebei University, Baoding, Hebei 071002 China. E-mail: ybba@hbu.edu.cn

¹Колледж Наук о жизни, Хебейский университет, Баодинг, Хебей 071002 Китай

²Музей Хебейского университета, Баодинг, Хебей 071002 Китай

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Ключевые слова: Coleoptera, Tenebrionidae, *Ocnera*, новый вид, ревизия, Китай.

Abstract. The genus *Ocnera* Fischer von Waldheim, 1822 of China is revised. A new species *O. medvedevi* sp. n. is described from Xinjiang (China). The subspecies *O. sublaevigata przewalskyi* Reitter, 1887 (sensu Löbl et al. [2008]) is raised to a species level, *O. przewalskyi* Reitter, 1887, **stat. resurr.** Key to species of the genus *Ocnera* is included. Figures of diagnostic characters and photographs of imago are provided.

Резюме. Ревизован род *Ocnera* Fischer von Waldheim, 1822 Китая. Описан новый вид *O. medvedevi* sp. n. из провинции Хинган (Китай). Ранг подвида *O. sublaevigata przewalskyi* Reitter, 1887 (sensu Löbl et al. [2008]) возвращен до ранга вида: *O. przewalskyi* Reitter, 1887, **stat. resurr.** В статью включена определительная таблица рода *Ocnera* Китая. Приведены рисунки диагностических признаков и фотографии имаго.

Introduction

The genus *Ocnera* was erected by Fischer von Waldheim [1822], with *Pimelia imbricata* Fischer von Waldheim, 1820 as the type species; it was assigned to Pimeliini. The genus *Ocnera* includes only 7 species, all of them distributed in Central Asia. The distribution range of the genus includes Kirghizia, Uzbekistan, Tajikistan, Turkmenistan, Kazakhstan, Afghanistan, Syria, Iran, India, Gansu and Xinjiang of China.

While examining tenebrionid specimens deposited in the Museum of Hebei University, we found that the species *O. przewalskyi* Reitter, 1887 is distinctly different from *O. sublaevigata* Bates, 1879 in the form of pronotum, elytral granulation (see the key) and aedeagus; and distributions of both species are partly overlapping. All these indicate that *O. przewalskyi* is a good species, and its status must be upgraded. As a result, 3 species of *Ocnera* are known from China now: *O. przewalskyi*, **stat. resurr.**, *O. sublaevigata* and *O. medvedevi* sp. n.

The types and other material are deposited in the Museum of Hebei University (MHBHU), Baoding, China.

Taxonomy

Ocnera Fischer von Waldheim, 1822

Ocnera Fischer von Waldheim, 1822: 169.

Trachyderma Latreille, 1828: 576.

Type species: *Pimelia imbricata* Fischer von Waldheim, 1820.

Diagnosis. Body elongate-oval. Genae expanded above base of antennae, antennae slender and long. Pronotum wider than long, lateral margins round, anterior and posterior margins approximately straight. Elytra elongately-oval, at base broader than pronotum; humeri round, with one marginal ridge or one marginal row of granulae. Legs gracile, section of protibiae cylindrical; outer margin without ridge and apical angles; metatibiae approximately cylindrical; metatarsi without long hairs but with thin setae on inner margin, 1st segment as long as 4th segment.

Key to the species of *Ocnera* in China

1. Pronotum rather glossy with sparse granulae; elytra sparsely granuliferous on granular lines and between them; prosternal process folding down after coxae and produced posteriad 2
- Pronotum densely granuliferous; elytra with strong lines of granulae, surface between lines densely granuliferous; prosternal process backward slant out; length 19–22 mm ***O. medvedevi* sp. n.**
2. Elytra slippery, with 3 faint lines of granulae, each interval with 1 more feeble lines of granulae disappearing basally; length 19–20 mm ***O. przewalskyi* Reitter, 1887, stat. resurr.**
- Elytra slightly coarse, with 3 obvious lines of granulae; each interval with 4 more feeble lines of granulae; marginal ridges serrated; length 19–21 mm. ***O. sublaevigata* Bates, 1879**

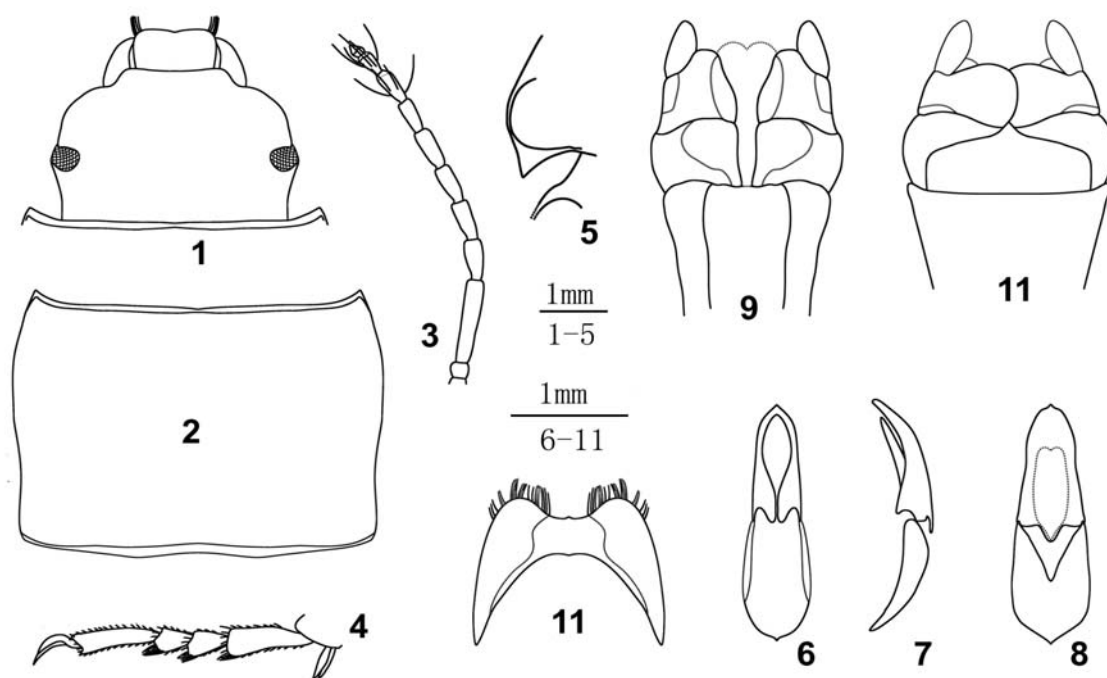


Fig. 1–11. *Ocnera medvedevi* sp. n.

1 – head; 2 – pronotum; 3 – antenna; 4 – metatarsus; 5 – prosternal process, lateral view; 6–8 – aedeagus, accordingly in ventral, lateral and dorsal view; 9–10 – ovipositor, accordingly in dorsal and ventral view; 11 – VIII inner sternite of male.

Рис. 1–11. *Ocnera medvedevi* sp. n.

1 – голова; 2 – переднеспинка; 3 – усик; 4 – задняя лапка; 5 – отросток переднегруды, вид сбоку; 6–8 – эдеагус, соответственно снизу, сбоку и сверху; 9–10 – яйцеклад самки, соответственно снизу и сверху; 11 – VIII скрытый стернит самца.

Ocnera medvedevi sp. n.

(Fig. 1–11, 36)

Type material. Holotype ♂, Huayuan, Hami City, Xinjiang Province, 2.08.2008, collected by Zhang Cheng-Li. Paratypes: 3♂, 1♀, same data as holotype; 1♂, Hami City, Xinjiang Province, 24.07.2006, collected by Zhang Feng.

Description. Body oblongely-oval, black and slightly shining; each granula of body with hair. Head broad, faintly shagreened; clypeus approximately slippery, anterior margin slightly concave, angles of side round, lateral margins straight; genae broadly arcuate, wider than eyes; eyes transversely nephroid, without pleat; frons flat, granulerous sparsely on middle, and somewhat densely so on sides. Antennae slender, reaching base of pronotum; 3rd segment 4 times as long as wide, 9th and 10th segments approximately conversely trapeziform, terminal segment broadly oval; relative length ratio of the 2nd to 11th segments as follows: 1.1, 5.8, 9, 2.9, 2.8, 2.9, 2.3, 2.6, 1.7, 1. Mentum with sparse long setae; anterior margin arcuate, deeply concave medially.

Pronotum square, 1.3 times as wide as long; anterior margin straight and bordered; lateral margins arcuate on apical 2/3, and straight on basal 1/3, fine border invisible in dorsal view; basal margin straight, slightly triangularly concave medially, widely bordered, border slightly thin medially; anterior angles acute and produced, posterior ones roundly obtuse; disc somewhat convex, evenly and densely granulated, granulae as wide as interval between them, interval of granulae coarse, longitudinal middle line obvious.

Elytra oval, 1.4 times as long as broad, and 2.4 times as long as pronotum; basal margin straight, humeri round, granulae of humeral lines wider than intervals of them; lateral margins arcuate, widest at middle; dorsum flat, with two abnormal lines of granulae, and granulae wider than interval of them on lines,

and became fine and sparse backwards; granulae finer and sparser on intervals than ones in lines, size disorder, interval of them 2–3 times as broad as themselves. Pseudopleuron flat, and with sparse punctures, ones with hair.

Propleura approximately glossy, with sparse punctures, ones becoming thicker and sparser outwards. Prosternum rough, punctures dense and with hairs; prosternal process strong and tongue-sharped produced posteriad. Mesosternum evenly arched longitudinally; metasternum slightly sparsely punctated. 3 basal segments of abdomen densely and deeply punctate on sides, and with dense granulae; lateral sides of 1–2 segments with dense granulae, some of which with hair.

Feet long, femora and tibiae with dense granulae, the latter with setae. 1st to 3rd segments of metatarsi with yellow hair mat on inner marginal apex in male. The ratio of relative length of metatarsi 1st to 4th segments as follows: 8.5, 4, 3.9, 8.9.

Male. Paramera of aedeagus approximately as long as phallobase, lateral margins concave medially, apex arcuate, base depressed in middle (dorsal view); lateral margins of pallobase approximately straight, widest at near base.

Female. Ovipositor stubby, valvula shortly fingerlike.

Measurements. Body length: 19–22 mm; width: 9–11 mm.

Diagnosis. The new species is similar to *O. przewalskyi* stat. resurr. and *O. sublaevigata*, but differs from the later as follows: pronotum densely and thickly granulerous; interval of elytra with dense and thick granulae; prosternal process aslant-straightly produced posteriad, not fold down. Differences from *O. przewalskyi* stat. resurr. are in the key.

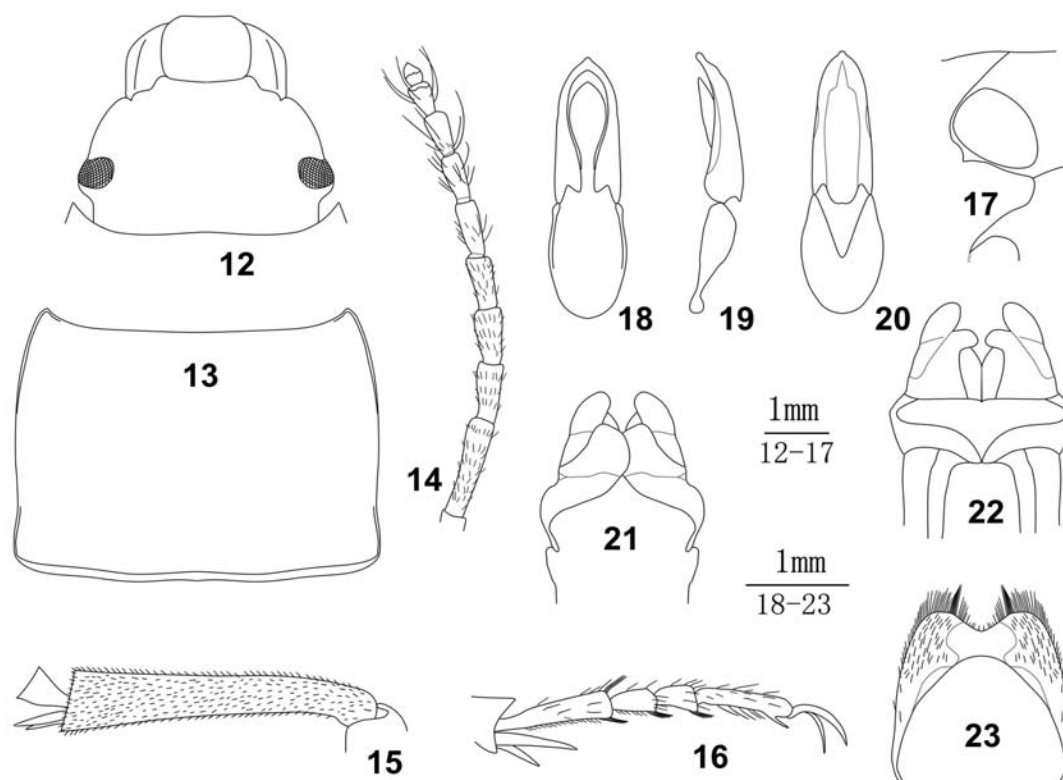


Fig. 12–23. *Ocnera przewalskyi* Reitter, 1887, **stat. resurr.**

12 – head; 13 – pronotum; 14 – antenna; 15 – protibia; 16 – metatarsus; 17 – prosternal process, lateral view; 18–20 – aedeagus in ventral, lateral and dorsal views; 21–22 – ovipositor in dorsal and ventral views; 23 – VIII inner sternite of male.

Рис. 12–23. *Ocnera przewalskyi* Reitter, 1887, **stat. resurr.**

12 – голова; 13 – переднеспинка; 14 – усик; 15 – передняя голень; 16 – задняя лапка; 17 – отросток переднегруди, вид сбоку; 18–20 – эдеагус, соответственно снизу, сбоку и сверху; 21–22 – яйцеклад самки, соответственно снизу и сверху; 23 – VIII скрытый стернит самца.

Etymology. The new species is named in honour of Prov. G.S. Medvedev, entomologist of Russia.

Ocnera przewalskyi Reitter, 1887, **stat. resurr.**

(Fig. 12–23, 37)

Ocnera przewalskyi Reitter, 1887: 380–381; Reitter, 1893: 216; Zhao, 1963: 23, Tab. IV: 32; Ren et Yu, 1999: 81, fig. 34.

Ocnera sublaevigata przewalskyi Reitter, 1887: Gridelli 1954: 210; Löbl et al., 2008: 154.

Material. 2♂, 2♀ North of Moyu county, Xinjiang Province, 8.07.1993, collected by Ren Guo-Dong.

Distribution. China (Xinjiang); Kirghizia.

Ocnera sublaevigata Bates, 1879

(Fig. 24–35, 38)

Ocnera sublaevigata Bates, 1879: 477; Zhao, 1963: 23; Ren et Yu, 1999: 82.

Ocnera sublaevigata sublaevigata Bates, 1879: Gridelli, 1954: 210; Löbl et al., 2008: 154.

Material. 2♂, 3♀, North of Moyu County, Xinjiang Province, 8.07.1993, collected by Ren Guo-Dong; 4♂, 4♀, Qiemo County, Xinjiang Province, 8.07.1993, collected by Ren Guo-Dong; 1♂, 1♀, Xinhe County, Xinjiang Province, 30.07.2006, collected by Ren Guo-Dong and Ba Yi-Bin; 1♂, 2♀, Aheqi County, Xinjiang Province, 31.07.2006, collected by Ren Guo-

Dong and Ba Yi-Bin; 1♂, 1♀, Kashi, County, Xinjiang Province, 7.08.2006, collected by Zhang Feng; 1♀, Kramayi City, Xinjiang Province, 21.08.2006, collected by Zhang Feng; 1♀, Kuerle City, Xinjiang Province, 14.07.1993, collected by Ren Guo-Dong; 1♀, Ruoqiang County, Xinjiang Province, 5.07.1993, collected by Ren Guo-Dong; 1♂, 1♀, Dunhuang City, Gansu Province, 8.08.2006, collected by Ren Guo-Dong and Ba Yi-Bin.

Distribution. China (Gansu, Xinjiang).

Acknowledgments

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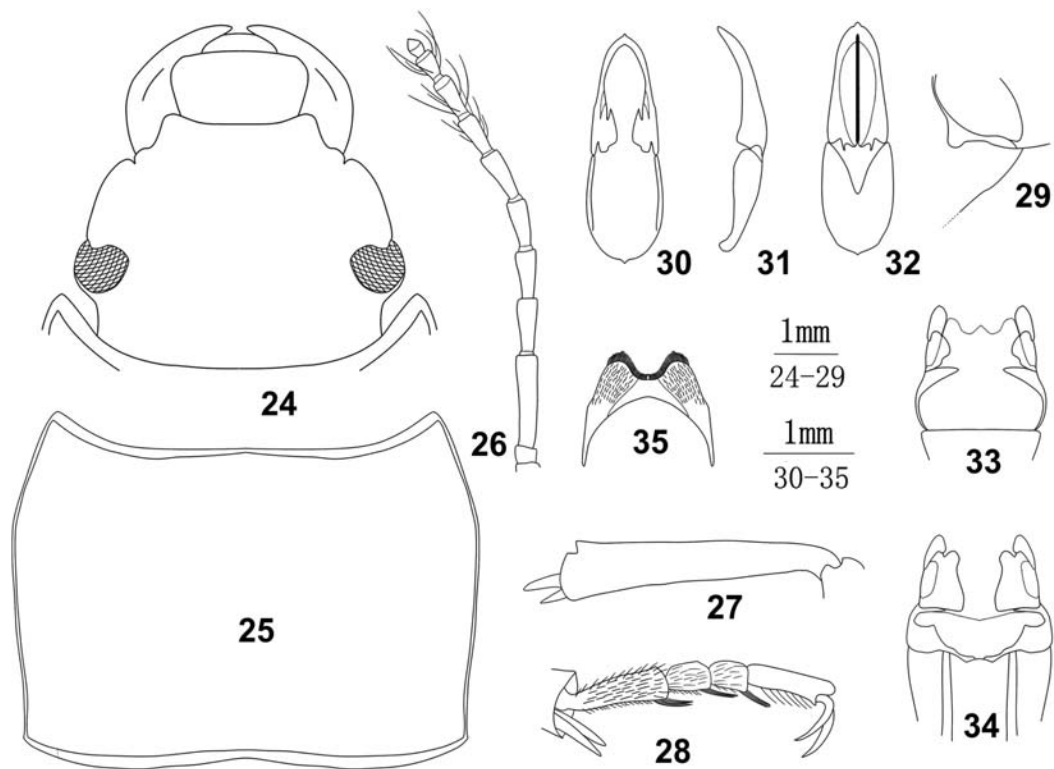


Fig. 24–35. *Ocnera sublaevigata* Bates, 1879.

24 – head; 25 – pronotum; 26 – antenna; 27 – protibia; 28 – metatarsus; 29 – prosternal process, lateral view; 30–32 – aedeagus in ventral, lateral and dorsal views; 33–34 – ovipositor in dorsal and ventral views; 35 – VIII inner sternite of male.

Рис. 24–35. *Ocnera sublaevigata* Bates, 1879.

24 – голова; 25 – переднеспинка; 26 – усик; 27 – передняя голень; 28 – задняя лапка; 29 – отросток переднегруди, вид сбоку; 30–32 – эдеагус, соответственно снизу, сбоку и сверху; 33–34 – яйцеклад самки, соответственно снизу и сверху; 35 – VIII скрытый стернит самца.

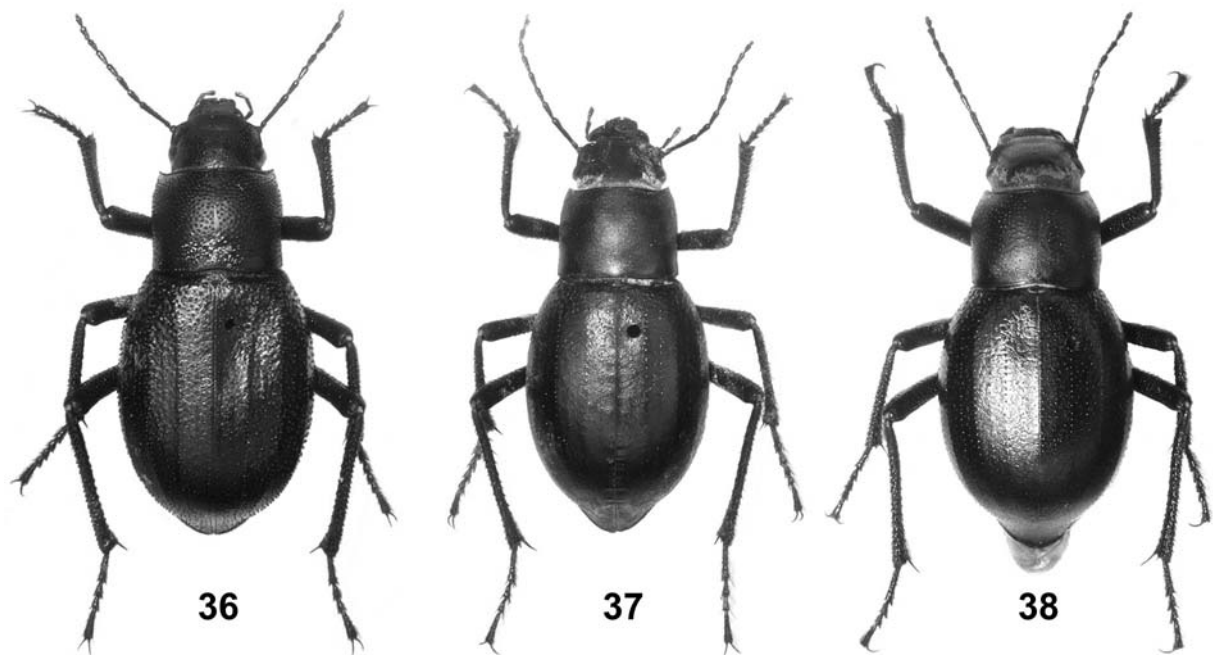


Fig. 36–38. *Ocnera* spp., common view.

36 – *Ocnera medvedevi* sp. n.; 37 – *O. przewalskyi* Reitter, 1887, stat. resurr.; 38 – *O. sublaevigata* Bates, 1879.

Рис. 36–38. *Ocnera* spp., общий вид.

36 – *Ocnera medvedevi* sp. n.; 37 – *O. przewalskyi* Reitter, 1887, stat. resurr.; 38 – *O. sublaevigata* Bates, 1879.

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