Reinholdina deelemanorum gen. n., sp. n. from Bosnia and Herzegovina
(Coleoptera: Cholevidae: Leptodirinae)

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Abstract. Reinholdina deelemanorum gen. n., sp. n., a new genus and species from Bosnia and Herzegovina is described, illustrated and compared with apparently related genera.

INTRODUCTION

A large collection of the subterranean cholevids (Leptodirinae) collected by P. Robert, Boudewijn and Christa L. Deeleman-Reinhold (The Netherlands) in the Balkans and kept in SMNS, provided for study by the senior author, includes numerous outstanding species with several previously undescribed among them. In the present paper, the description of Reinholdina deelemanorum gen. n., sp. n. is given.

MATERIAL AND METHODS

Acronyms used in the following text:
ACSC collection Achille Casale, Torino, Italy;
JLAC collection Ján Lakota, Ružomberok, Slovak Republic;
JMOC collection Josef Moravec, Vrdy, Czech Republic;
PMGC collection Pier Mauro Giachino, Torino, Italy;
SMNS Staatliches Museum für Naturkunde, Stuttgart, Germany.

Explanations of morphological measurements and ratios:
TL total length (measured from the extroflexed head capsule to the apex of elytra);
AL/L antennal elongation index (antennal length/pronotum length plus elytral length ratio);
PW/L pronotum width/pronotum length ratio;
EW/L elytral width/elytral length ratio.

Locality labels of the examined material are quoted in the original version. The term “antennal elongation index” is used according to Casale et al. (2004) and Giachino & Vailati

**TAXONOMY**

*Reinholdina gen. n.*

**Type species:** *Reinholdina deelemanorum* sp. n., by monotypy.

**Description.** Body leptodiroid-shaped, eyeless, apterous and weakly pigmented. Head with tempora constricted posteriorly. Occipital carina absent. Terminal segment of maxillary palp elongate, fusiform in males. Labrum transverse, not bilobed. Mandibles with simple apex and one subapical tooth at inner edge. Insertion of antennae situated about at the middle third of head. Pronotal sides protracted, rather narrowly subexplanate, slightly arcuately emarginate before posterior angles. Elytra longer than their combined width, broadly separately rounded at tips. Surface of elytra without distinct transversal strigae. Protibiae without lateral external row of spines; protarsomeres undilated in males. Male genitalia comparatively robust, more or less rounded apically. Female urosternite VIII with well-developed apophysis.

**Differential diagnosis.** The new genus differs from closely related genera *Nonveilleriella* Perreau et Pavičević, 2008, *Rozajella* S. B. Ćurčić, Brajković et B. P. M. Ćurčić, 2007 and *Parapropus* Ganglbauer, 1899 by the following morphological features:

<table>
<thead>
<tr>
<th>Character</th>
<th>Reinholdina gen. n.</th>
<th>Nonveilleriella</th>
<th>Rozajella</th>
<th>Parapropus sericeus-group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate maxillary palpmomers in male</td>
<td>Elongate (Fig. 11)</td>
<td>Not elongate (Fig. 13)</td>
<td>Not elongate</td>
<td>Elongate (Fig. 12)</td>
</tr>
<tr>
<td>Length of the first antennomere</td>
<td>1/2 of the antennomere II (Fig. 7)</td>
<td>2/3 of the antennomere II (Fig. 2)</td>
<td>2/3 of the antennomere II</td>
<td>2/3 of the antennomere II</td>
</tr>
<tr>
<td>Elytral sculpture</td>
<td>Without transversal strigae</td>
<td>With transversal strigae</td>
<td>With transversal strigae</td>
<td>Without transversal strigae</td>
</tr>
<tr>
<td>Elytral pubescence</td>
<td>Less close (Fig. 8)</td>
<td>More close (Fig. 1)</td>
<td>More close</td>
<td>More close</td>
</tr>
<tr>
<td>Male protarsi</td>
<td>Undilated</td>
<td>Undilated</td>
<td>Undilated</td>
<td>More or less dilated</td>
</tr>
<tr>
<td>Length of basal protarsomere in male</td>
<td>About 1.5 times longer than the 2nd</td>
<td>About 2.0 times longer than the 2nd</td>
<td>About 1.5 times longer than the 2nd</td>
<td>About 2.0 times longer than the 2nd</td>
</tr>
<tr>
<td>Inner sac of median lobe of aedeagus</td>
<td>Without dorsal plana in basal part (Figs 9-10)</td>
<td>Without dorsal plana in basal part (Figs 3-4)</td>
<td>Without dorsal plana in basal part</td>
<td>With a typical dorsal plana in basal part</td>
</tr>
<tr>
<td>Apical setae of parameres (size and disposition)</td>
<td>One bulky apical seta, one long preapical (external) seta, one short preapical (internal) seta (Figs 15-16)</td>
<td>One bulky apical seta, one long preapical (ventral) seta, one long preapical (internal) seta (Figs 5-6)</td>
<td>One bulky apical seta, one long preapical (dorsal) seta, one long preapical (internal) seta</td>
<td>One bulky apical seta, one long preapical (external) seta, one short preapical (internal) seta</td>
</tr>
<tr>
<td>Apical shape of parameres</td>
<td>Tapered (Figs 15-16)</td>
<td>Not tapered (Figs 5-6)</td>
<td>Not tapered</td>
<td>Tapered</td>
</tr>
</tbody>
</table>

**Etymology.** Named after Mrs. Christa L. Deeleman-Reinhold (Ossendrecht, The Netherlands), the excellent specialist in cavernicolous spiders of the Balkans. Gender: feminine.
Remarks. Perreau & Pavićević (2008a) described a new leptodiroid genus Nonveilleriella and two species, *N. ognjenovici* and *Rozajella deelemani*. They provided in addition to complement the descriptions of *Rozajella* S. B. Ćurčić, Brajković & B. P. M. Ćurčić, 2007, *Leptostagus* Z. Karaman, 1954 and *Petkovskiella* Guéorguiev, 1976 by the male and female genitalia and suggested their close relationships to the genus *Parapropus* Ganglbauer, 1899 (now under taxonomic revision by Giachino et al., in prep.) currently placed in the subtribe Leptodirina (sensu Perreau 2004). The new genus is also characterized by its general similarity in the shape of aedeagus and by
the absence of lateral external row of spines of protibiae (Perreau & Pavićević 2008b) as in the latter genera. At the same time, the geographic distribution of Reinholdina gen. n. is closely related to the Northern Montenegrian genera Nonveilleriella and Rozajella (see Perreau & Pavićević 2008a, Fig. 20) seem now to be to confirm the relevance of these hypotheses.

Reinholdina deelemanorum sp. n.
(Figs 7-11, 14-16)

Type locality: Golubnjača Pećina Cave, Avtovac, Gacko, Herzegovina.

Type material. Holotype (♂) labelled: Golubnjaca pecina, Caternja, 21.vii.1968, leg. Deeleman, Sammlung C.+P. Deeleman, SMNS 1987, (SMNS); Paratypes: (2 ♂♂ 10 ♀♀): same data as holotype (SMNS); (2 ♂♂ 3 ♀♀): same data, (PMGC); (1 ♂ 1 ♀): same data, (JMOC); (1 ♀): same data, (JLAC); (1 ♂): same data, (ACSC).

Description. Broadly oval (Fig. 8). Head, antennae, pronotum, elytra and legs reddish testaceous, palpi flavous. Ventral portion of body dark brown. Pubescence short, fine and relatively sparse, whitish yellow, microsculpture evident. TL 5.00-5.75 mm in males and 5.87-6.27 mm in females.

Head microsculpture fine, with shallowly impressed punctures. Antenna (Fig. 7) slightly longer than the body, AL/L 1.44-1.46 in males, 1.09-1.13 in females. The lengths of antennomeres are the following (reported to the length of the first one) in males: 1.00: 2.07: 2.35: 2.71: 3.00: 2.92: 3.57: 2.85: 3.57: 3.28: 3.85; in females: 1.00: 1.92: 2.07: 2.30: 2.46: 2.07: 2.46: 1.84: 2.30: 1.79: 2.53.

Pronotum widest before its midlength, PW/L 0.75-0.76 in males, 0.73-0.79 in females, slightly rounded anteriorly. Sides very shallowly emarginate, posterior angles prominent. Base slightly wider than anterior margin. Puncturation of pronotum very sparse, flat and shallow, spaces between punctures moderately shining. Surface of pronotum with fine and sparse pubescence.

Elytra widest at about their midlength, EW/L 0.59-0.60 in males, 0.62-0.64 in females, explanate, broadly separately rounded at apex. Humeral angles slightly prominent. Disc of elytra in the middle convex, moderately shining, with pair of narrow basal impressions. Punctures distinctly impressed, somewhat larger and denser than those of pronotum. Surface bearing rather short and erect setae, without distinct transversal striae.

Legs very long and slender, with femora not thickened at base. First protarsomere in males undilated and about 1.5 times longer than the 2nd (Fig. 14).

Male genitalia (Figs 9-10, 15-16). Median lobe of aedeagus comparatively large, 1.13 mm long, parallel-sided, rounded apically. Parameres shorter than median lobe, with three apical setae: one apical, bulky and two preapical (one external, long and one internal, short, respectively). Inner sac of median lobe without Y-shaped copulatory piece, as well as dorsal phanera in the basal part.

Female urosternite as above.
Figs 7-16. Reinholdina deelemanorum gen. n., sp. n. Holotype, male (Figs 7-11, 14-16), Parapropus sericeus (F. J. Schmidt, 1852), male (Fig. 12) and Nonveilleriella ognjenovici Perreau & Pavićević, 2008, male (Fig. 13): 7- antenna; 8- habitus, dorsal view; 9- aedeagus, lateral view; 10- ditto, dorsal view; 11-13- left maxillary palp, dorsal view; 14- left protarsomere, dorsal view; 15- apical portion of left paramere, lateral view; 16- apical portion of right paramere, dorsal view. Scale bars: 1.0 mm (Figs 7, 8), 0.5 mm (Figs 11-14) and 0.1 mm (Figs 9, 10, 15, 16).
**Differential diagnosis.** The new species differs from other related taxa by the morphological features given as in the description of the genus.

**Etymology.** Dedicated to married couple P. Robert and Christa L. Deeleman-Reinhold (The Netherlands).

**Distribution.** The new species is known only from the Golubnjača Pećina Cave situated near the village Lipnik, E of town Avtovac in Gacko municipality (Foča Region), on the Montenegrin boundary, Herzegovina (Bosnia and Herzegovina). In the unpublished Deeleman’s travelling diary (Deeleman 1968) further mentioned this locality as “Caternja Umgebung” with the same collecting date.

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**REFERENCES**


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