

A Review of the Tribe Auletini (Coleoptera, Rhynchitidae) from the Russian Fauna: 1. Subtribe Auletobiina

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Abstract—The genus *Auletobius* in the Russian fauna is revised. Five species (*A. egorovi*, *A. irkutensis*, *A. puberulus*, *A. sanguisorbae*, and *A. submaculatus*) belonging to two subgenera are revealed. The distribution of these species in Russia is given. The data on the trophic associations of the species are summarized. Keys to the subtribes of the tribe Auletini, subgenera of the genus *Auletobius*, and species of the subgenus *Auletobius* s. str. are given. All the taxa are redescribed.

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The tribe Auletini is a worldwide distributed monophyletic rhynchitid group, the most primitive one in the supertribe Rhynchititae (Legalov, 2002a, 2004a). Representatives of this group develop in the buds of various plants. This species-rich (over 300 species) tribe has been insufficiently studied.

The first revision of the tribe Auletini was carried out by Voss (1922, 1933, 1934, 1935). In the recent publications of the present author (Legalov, 2001, 2002a, 2003, 2004a, 2006a, 2007c), the taxonomic position of this group was specified, a new classification was proposed, and new taxa were also described, new synonyms were established, and the distribution was clarified.

The fauna of Auletini in Russia and adjacent territories was investigated by Ter-Minassian (1950), Egorov (1996), and Legalov (2001, 2002b, 2003, 2006a, 2006e, 2007c). However, there was no summarizing publication on Auletini of the Russian fauna. The present communication continues the cycle of the author's publications (Legalov, 2009a, 2009b, 2009c) on the rhynchitid fauna of Russia.

The material used in this study is deposited in the Zoological Institute, the Russian Academy of Sciences, St. Petersburg (ZIN), the Siberian Zoological Museum, the Institute of Animal Systematics and Ecology, the Siberian Branch of the Russian Academy of Science, Novosibirsk (SZMN), the Institute for Biology and Soil Science, the Far Eastern Branch of the Russian Academy of Sciences (IBS), the Zoologi-

cal Museum of Moscow State University (ZMUM), at the Department of Entomology of Moscow State University (MUM), in Deutsches Entomologisches Institut, Müncheberg, Germany (DEI), Hungarian Natural History Museum, Budapest, Hungary (HNHM), Lund University, Lund, Sweden (MZLU), Museum für Naturkunde der Humboldt-Universität, Berlin, Germany (ZMHB); the National Museum of Natural History, Prague, Czech Republic (NMPC); Staatliches Museum für Tierkunde, Dresden, Germany (SMTD), the Zoological Museum, University of Copenhagen, Copenhagen, Denmark (ZMUC), and also in the collections by A.V. Kazantsev, Moscow (AKM), D.A. Efimov, Kemerovo (DEK), R.V. Filimonov, St. Petersburg (RFS), Radek Dunda, Prague, Czech Republic (RDP), and A. Podlussány, Budapest, Hungary (APB).

FAMILY RHYNCHITIDAE GISTEL, 1848

Supertribe RHYNCHITITAE Gistel, 1848

Tribe AULETINI Desbrochers des Loges, 1908

Description. Body dark to pale, with or without metallic sheen, covered with recumbent, semi-recumbent, or erect hairs occasionally forming pattern on elytra. Body length 1.5–7.6 mm. Rostrum straight or curved, slender to rather thick. Antennae attached in 1st or 2nd third of rostrum. Eyes usually strongly convex, occasionally weakly convex. Frons usually wide. Funicular segments trapeziform, occasionally elongate. Club narrow to wide. Pronotum rounded to subcylindrical. Ely-

Notes. The species was recorded for Primorskii Territory and Sakhalin by Egorov (1996). *A. submaculatus* is distributed in the Honshu, Shikoku, and Kyushu islands but does not occur in Hokkaido (Sawada, 1993). Since I have failed to examine the Japanese specimens of *A. submaculatus*, I give no description of this species here. The description and diagnosis are given by Sawada (1993); for the image, see the site http://www.dl.di-on.ne.jp/~k_izawa/rhyn/dep.htm. The endophallus armament is shown in fig. 7-G in Sawada's (1993) paper.

*A Key to the Subtribes of the Tribe Auletini
of the Russian Fauna*

1. Fore coxa in males without hair tuft. Antennae attached at base of rostrum. 2nd funicular segment longer than 1st one *Auletobiina*.
- Fore coxa in males with hair tuft. Antennae attached in 2nd third of rostrum, but not at base. Elytral apices in males with hair spots *Pseudomesauletina*.

*A Key to the Subgenera of the Genus Auletobius
of the Russian Fauna*

1. Pronotum and elytra punctate. Elytra without hairy spots or bands *Auletobius* s. str.
- Pronotum and elytra finely granulate. Elytra with hairy spots or bands *Pseudometopum*.

*A Key to the Species of the Subgenus
Auletobius s. str.*

1. Body entirely black 2.
- Antennae and fore legs partly yellow 3.
2. Body larger (2.1–3.6 mm). Rostrum longer (Figs. 1g, 1h). Elytra narrower. Armament of endophallus as in Fig. 2d *A. sanguisorbae*.
- Body smaller (1.7–2.2 mm). Rostrum shorter (Figs. 1a, 1b). Elytra wider. Armament of endophallus as in Fig. 2a *A. puberulus*.
3. Eyes large, strongly convex (Figs. 1b, 1d). Pronotum more elongate, more strongly convex (Figs. 1c, 1d). Frons narrower (Figs. 1c, 1d). Fore legs and 1st–6th funicular segments yellow. Armament of endophallus as in Fig. 2b *A. egorovi*.
- Eyes smaller, less strongly convex (Figs. 1e, 1f). Pronotum more or less transverse (Figs. 1e, 1f). Frons wider (Figs. 1e, 1f). Legs dark. Antennal fu-

nicle usually yellow. Armament of endophallus as in Fig. 2c *A. irkutensis*

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