

**A PROPOSAL ON A NEW TAXONOMICAL ARRANGEMENT  
OF *AROMIA MOSCHATA* (LINNAEUS) SPECIES GROUP  
(COLEOPTERA: CERAMBYCIDAE)**

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**ABSTRACT:** The paper presents a proposal on a new taxonomical arrangement of *Aromia moschata* (Linnaeus) species group. The specific and subspecific compositions are discussed and arranged in the text. As a result of this, *Aromia ambrosiaca* (Steven) is upgraded species rank. And in accordance with the status novum, three taxa as *A. moschata cruenta* Bogatchev, *A. moschata jankovskiji* Danilevsky and *A. moschata vetusta* Bogatchev are transferred to species *Aromia ambrosiaca* (Steven).

**KEY WORDS:** *Aromia moschata* species group, Cerambycidae, Cerambycinae, Turkey.

The Palaearctic genus *Aromia* Audinet-Serville, 1834 includes only 4 species as *Aromia bungii* Faldermann, 1835 (Korea and China, newly introduced to Germany), *Aromia japonica* Podany, 1971 (Endemic to Japan), *Aromia moschata* (Linnaeus, 1758) (Europe, Siberia, Central Asia, Caucasus, Turkey, Iran, Middle East (Syria, Lebanon, Jordan, Iraq), North Africa (Algeria, Morocco, Tunisia)), *Aromia orientalis* Plavilstshikov, 1932 (Eastern Siberia, Far East Russia, Mongolia, Korea, Japan, China). Only the species, *Aromia moschata*, is represented in Turkey (Özdikmen, 2014).

According to Löbl & Smetana (2010), the species *Aromia moschata* consist of 6 subspecies. So, accepted taxonomical composition of *A. moschata* species group can present as follows:

**Genus *Aromia* Audinet-Serville, 1834: 559**

**Species *Aromia moschata* (Linnaeus, 1758)**

- *A. moschata moschata* (Linnaeus, 1758) (Europe, European Turkey, Caucasus, Transcaucasia (Georgia), Kazakhstan, Siberia, Mongolia),  
*odorata* DeGeer, 1775 (*Cerambyx*)  
*chlorophana* Fischer von Waldheim, 1823 (*Cerambyx*)  
*alata* A. Costa, 1855  
*auctumnalis* Westhoff, 1882  
*thea* Reitter, 1894  
*cupricollis* Pic, 1941  
*perroudi* Pic, 1941
- *A. moschata ambrosiaca* (Steven, 1809) (South Europe, Caucasus, Transcaucasia (Armenia, Azerbaijan, Georgia), Turkey, Iran, Middle East (Syria, Lebanon, Jordan, Iraq), North Africa (Algeria, Morocco, Tunisia)),  
*thoracica* Fischer von Waldheim, 1823 (*Cerambyx*)  
*rosara* P. H. Lucas, 1847  
*rosara* A. Costa, 1855  
*melancholica* Reitter, 1895  
*notaticollis* Pic, 1928
- *A. moschata cruenta* Bogatchev, 1962 (Kirgizia and Tadjikistan),

- *A. moschata jankovskyi* Danilevsky, 2007 (only Kirgizia),
- *A. moschata sumbarensis* Danilevsky, 2007 (only Turkmenistan),
- *A. moschata vetusta* Bogatchev, 1962 (only Kazakhstan).

Özdikmen (2014) proved that “*Aromia moschata* is represented by two subspecies in Turkey. The nominate *Aromia moschata moschata* and *Aromia moschata ambrosiaca*”. He gave known Turkish records and distribution maps of the subspecies. He also stated that “known distribution patterns of these subspecies are not available the rule of nonoverlapping ranges theoretically in North Anatolia especially. The same status exists at least in Spain and Italy”.

For each country (Spain, Italy, Turkey), *Aromia moschata ambrosiaca* is regarded predominant. And it commonly accepted that the nominative subspecies is distributed only in Northern parts of the countries, while *Aromia moschata ambrosiaca* is distributed in other parts of the countries.

Known distribution patterns of the subspecies, however, are overlapped at least in Turkey. The records of *A. moschata ambrosiaca* from Northern provinces as Bilecik, Artvin, Çanakkale, Yozgat, Düzce and Balıkesir are the evidences (Map 1) for this case. The evidences do not regard as hybridization areas. The detailed information on distributional data and maps in Turkey of the subspecies gave in Özdikmen (2014).

From this point of view, we propose that both taxa should be accepted as separate species.

Moreover, the *moschata* species group has two different subgroups chiefly. These are:

Group I. Pronotum totally blue, green or blue-green colored (including two taxa).

- *A. moschata moschata* (Linnaeus, 1758)
- *A. moschata sumbarensis* Danilevsky, 2007

Group II. Pronotum more or less red colored (including four taxa).

- *A. moschata ambrosiaca* (Steven, 1809)
- *A. moschata cruenta* Bogatchev, 1962
- *A. moschata jankovskyi* Danilevsky, 2007
- *A. moschata vetusta* Bogatchev, 1962

Accordingly, the *moschata* species group should be separated into two species as *A. moschata moschata* (Linnaeus, 1758) and *A. ambrosiaca* (Steven, 1809). Furthermore, three taxa should be transferred to *Aromia ambrosiaca*. In this case, new taxonomical arrangement of the *moschata* species group can be presented as follows:

## **Genus *Aromia* Audinet-Serville, 1834: 559**

### **Species *Aromia moschata* (Linnaeus, 1758)**

- *A. moschata moschata* (Linnaeus, 1758)  
*odorata* DeGeer, 1775 (*Cerambyx*)  
*chlorophana* Fischer von Waldheim, 1823 (*Cerambyx*)  
*alata* A. Costa, 1855  
*auctummalis* Westhoff, 1882  
*thea* Reitter, 1894

*cupricollis* Pic, 1941

*perroudi* Pic, 1941

- *A. moschata sumbarensis* Danilevsky, 2007

**Species *Aromia ambrosiaca* (Steven, 1809) stat. nov.**

- *A. ambrosiaca ambrosiaca* (Steven, 1809)  
*thoracica* Fischer von Waldheim, 1823 (*Cerambyx*)  
*rosara* P. H. Lucas, 1847  
*rosara* A. Costa, 1855  
*melancholica* Reitter, 1895  
*notaticollis* Pic, 1928
- *A. ambrosiaca cruenta* (Bogatchev, 1962) **comb. nov.**
- *A. ambrosiaca jankovskyi* (Danilevsky, 2007) **comb. nov.**
- *A. ambrosiaca vetusta* (Bogatchev, 1962) **comb. nov.**

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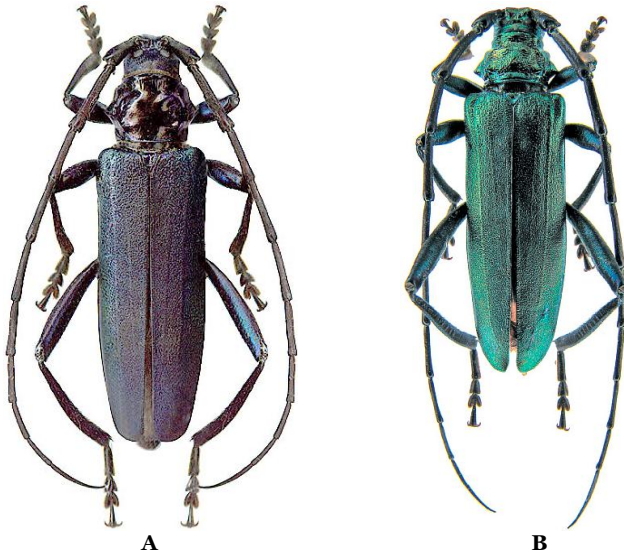


Figure 1. A. *Aromia moschata moschata* (from Szczepan Ziarko in <http://www.zin.ru/animalia/coleoptera/rus/aromoszi.htm>), B. *Aromia moschata sumbarensis* (from Danilevsky, 2007).



A



B



C



D

Figure 2. A. *Aromia amrosiaca ambrosiaca* (from D. G. Kasatkin in <http://www.zin.ru/animalia/coleoptera/rus/aromoadk.htm>), B. *Aromia ambrosiaca cruenta* (from <http://insecterra.forumactif.com/t12158-aromia-moschata-de-georgie>), C. *Aromia ambrosiaca jankovskyi* (from Danilevsky, 2007), D. *Aromia ambrosiaca vetusta* (from Danilevsky, 2000).