

A review of the tribe Halyini in Turkey (Hemiptera: Heteroptera: Pentatomidae) with two new records: *Apodiphus integriceps* and *Mustha vicina*

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ABSTRACT

The tribe Halyini Amyot & Serville, 1843 (Hemiptera: Heteroptera: Pentatomidae) which has been represented in Turkey so far by 6 species from 3 genera is reviewed and identification keys, morphological figures and the distributional patterns in Turkey and Palaearctic region of the formerly determined species (*Carenoplistus acutus* (Signoret, 1880), *Apodiphus amygdali* (Germar, 1817), *Mustha spinosula* (Lefebvre, 1831), *M. longispinis* Reuter, 1890, *M. izmirensis* Memon & Ahmad, 2008) as well as of two new records (*Apodiphus integriceps* Horváth, 1888 and *Mustha vicina* Hoberlandt, 1997) are given. The possibility of introduction of *A. integriceps* to Turkey with plant saplings and thus its alien status is discussed. Previously recorded *M. incana* Stål, 1876 in Turkish Heteroptera fauna is proved to be actually *M. vicina* and therefore *M. incana* is excluded from the faunal list of the Turkish Heteroptera. Furthermore, the distribution of the tribe Halyini in Turkey was presented by ascertaining the exact identification of some species given with wrong information in previous studies.

Key words: Halyini, Pentatomidae, fauna, Turkey, new records, identification keys, morphology, distribution.

INTRODUCTION

Tribe Halyini Amyot & Serville 1843 is distributed widely in the subtropical and tropical regions of the Old World, less abundantly in the Nearctic region. In the Palaearctic region there are 51 species-group taxa belonging to 19 genera (Rider, 2006).

Up to now, *Apodiphus amygdali* (Germar, 1817) belonging to the genus *Apodiphus* Spinola, 1837, *Mustha spinosula* (Lefebvre, 1831), *M. longispinis* Reuter, 1890, *M. incana* Stål, 1876 and *M. izmirensis* Memon & Ahmad, 2008 of the genus *Mustha* Amyot & Serville, 1843, and *Carenoplistus acutus* (Signoret, 1880) of the genus *Carenoplistus* Jakovlev, 1882 have been reported from Turkey as representatives of Halyini (Önder *et al.*, 2006).

Fahringer (1922), Hoberlandt (1955), Linnavuori (1965), Wagner (1966), Lodos *et al.* (1978, 1998), Önder *et al.* (1983), Kıyak (1990), Fent & Aktaş (1999), and