**The First Host Record for Zeuxia zejana Kolomiets, 1971 (Diptera: Tachinidae) from Turkey**

Göksel TOZLU1*, Kenan KARA2

1 Atatürk University, Faculty of Agriculture, Department of Plant Protection, Erzurum - TURKEY
2 Gaziosmanpaşa University, Faculty of Agriculture, Department of Plant Protection, Tokat - TURKEY

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**Abstract:** Zeuxia zejana Kolomiets (Diptera: Tachinidae) specimens were reared from the larvae of Agapanthia osmanlis Reiche et Saulcy (Col.: Cerambycidae) in Bayburt province (Kop Mountain Pass). Agapanthia osmanlis is the first known host for Zeuxia zejana in Turkey.

**Key Words:** Parasitoid, Tachinidae, Zeuxia zejana Kolomiets, Turkey

**Zeuxia zejana Kolomiets, 1971 (Diptera: Tachinidae) İçin Türkiye’den Yeni Bir Konukçu**

Özet: Bayburt İl’inde (Kop Dağı Geçidi) Agapanthia osmanlis Reiche et Saulcy (Col.: Cerambycidae) larvasından Zeuxia zejana Kolomiets tachinid parasitoit elde edildi. Agapanthia osmanlis, Zeuxia zejana’nın konukçusu olarak ilk kez kaydedildi.

Anahtar Sözcükler: Parazitoit, Tachinidae, Zeuxia zejana Kolomiets, Türkiye

**Introduction**

Tachinidae is the largest family of Diptera among the suborder Brachycera. Their larvae live as endoparasites in insects, primarily of the orders Lepidoptera, Hymenoptera, Coleoptera, Heteroptera, and Orthoptera (Tschorsnig and Barták, 2001). General information on host data can be obtained from Herting (1960), and Tschorsnig and Herting (1994), and the most recent data about the hosts of Turkish Tachinidae are given by Kara and Tschorsnig (2003). This is the first record of a tachinid reared from a cerambycid host in Turkey.

Agapanthia osmanlis (Coleoptera: Cerambycidae) is distributed in Bulgaria, Hungary, Romania, Syria, and Turkey (Hoskovec and Rejzek, 2005). It has been recorded in various localities from Turkey (Artvin, Bayburt, Bilecik, Erzincan, Erzurum, Gümüşhane, Hatay, and Kars) (Rejzek et al., 2001; Tozlu et al., 2003). Information on the biology and host plants of this species is very limited. Danilevsky and Miroshnikov (1985) did not mention any host plants of this species. According to Bense (1995) its lifecycle is unknown. Known host plants are Dipsacus laciniatus L. (Dipsacaceae) in Hungary (Kovacs, 1998); Cephalaria sp., C. procera (Dipsacaceae), and Serratula cf. procrea (Waldst. et Kit.) M. B. (Asteraceae) in Turkey; and Dipsacus fullonum L. (= D. sylvester Hudson) (Dipsacaceae) in Bulgaria (Rejzek et al., 2001).

**Materials and Methods**

Biological observations were carried out from the beginning of May to mid October 2003 on the slopes located 30 km south of Bayburt province (Kop Mountain Pass) at an altitude of 1750-2000 m. In all, 100 plants (Cephalaria procera Fisch. and Lall., 1840 (Dipsacaceae)) were infested by mature larvae of cerambycids. Plant stems were taken to the laboratory (100 larvae), placed in cages, kept at 25 ± 2 °C and 60%-70% relative humidity, and checked daily.

* E-mail: gtozlu@atauni.edu.tr
The last instar tachinid larva left the host larva and pupariated next to the remains of its host. Host pupae and tachinid puparia were placed in separate boxes containing moistened cotton until the adult beetle and flies emerged. Tachinid identifications were made by Dr. H.-P. Tschorsnig (Staatliches Museum für Naturkunde, Rosenstein 1, D-70 191 Stuttgart, Germany), and Dr. Gökşel Tozlu (Atatürk University, Faculty of Agriculture, Department of Plant Protection, Erzurum, Turkey) identified the host.

**Results**

**Subfamily: Dexiinae**

**Tribe: Dexiini**

**Zeuxia zejana** Kolomiets, 1971

**Reared material:** Bayburt, Kop Mountain Pass, emergence of fly, 20.06.2003, 19. *Agapanthia osmanlis* is a new host record for *Zeuxia zejana* and it is the first tachinid reared from Cerambycidae in Turkey.

**Distribution:** East Siberia, Far East, and Turkey (Kars) (Herting and Dely-Draskovits, 1993), and Italy (Cerretti, 2001).

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**References**

Bense, U. 1995. Longhorn Beetles, Illustrated Key to the Cerambycidae and Vesperidae of Europe. Margraf Verlag, Weikersheim, Germany (in German and English).


