



On the Dermestidae (Insecta: Coleoptera) from Rey's collection. Part 2. Designation of neotype of *Anthrenus pimpinellae* var. *incertus* Mulsant et Rey, 1868 and recognition of a new synonymy within Palearctic *Anthrenus* Geoffroy, 1762

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Abstract

A neotype of *Anthrenus pimpinellae* var. *incertus* Mulsant et Rey, 1868 is designated, and a **new synonym** in Palearctic *Anthrenus* Geoffroy, 1762 is recognized.

Key words: taxonomy, neotype designation, new synonym, Coleoptera, Dermestidae, Megatominae, *Anthrenus*, Turkey

Introduction

Anthrenus is one of the most diverse as well as variable genera in the family Dermestidae. Currently it includes more than 200 species worldwide, with new taxa still being discovered and described (Kadej 2011; Kadej & Háva 2012). Currently, it is divided into 10 subgenera—*Anthrenodes* Chobaut, *Anthrenops* Reitter, *Anthrenus* s. str., *Helocerus* Mulsant and Rey, *Florilinus* Mulsant and Rey, *Nathrenus* Casey, *Peacockia* Menier and Villemant, *Ranthenus* Mroczkowski, *Setapeacockia* Háva, and *Solskinus* Mroczkowski (Háva 2003; Háva 2008; Kadej 2011; Kadej & Háva 2013). Of those, the subgenera *Anthrenus* and *Nathrenus* (Kadej & Háva 2012) contain the most number of species. Three informal groups of species have been recognized within the subgenus *Anthrenus* based on dorsal habitus (Beal 1998; Kadej *et al.* 2007a): the *lepidus*-group, *pimpinellae*-group and *scrophulariae*-group. Among these, the *pimpinellae*-group is the most diverse and highly variable. Descriptions of new species within the *pimpinellae*-group and a diagnostic key for identification was provided by Kadej *et al.* (2007a). Despite this detailed work, there remains considerable confusion regarding taxonomic status of many taxa and their forms (abbreviations, aberrations, varieties) (Kadej & Herrmann 2011).

This paper is a continuation of previous studies of Dermestidae from Rey's collection and follows (see Háva & Kalík 2011 for earlier study). Harold Labriques (the curator of Coleoptera, Musée d'Histoire Naturelle de Lyon, Lyon, France) informed us that the type specimen of *Anthrenus pimpinellae* var. *incertus* described by Mulsant et Rey (1868) from Constantinople (= Istanbul) had been destroyed. Based on the original description by Mulsant and Rey, we designate herein a neotype of *Anthrenus pimpinellae* var. *incertus* Mulsant et Rey, 1868, in accordance with Article 75.3 and 75.4 of the Code of Zoological Nomenclature (ICZN 1999).

Materials and methods

Morphological structures (antennae, male genitalia, ninth abdominal segment) were boiled for 3–10 minutes in 10% KOH, rinsed with distilled water, and placed in distilled water for ~1 hour to clean and soften. All structures were placed on glycerin mounts (antenna, genitalia, abdominal segment IX, abdominal segment X in two parts) and examined with a Nikon Eclipse E 600® phase contrast microscope and a Nikon SMZ-800® binocular microscope. After microscopic examination of disarticulated specimens, all samples were placed in labeled plastic micro vials filled with glycerin. All

important and necessary for species with wide spectrum of variability of the dorsal patterns. A good example is *A. delicatus* which can be covered by light-brown and white scales (former recognized as *A. armstrongi*), as well as by brown, white and dark-brown (typical colour form).

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