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## **An annotated list of the type specimens of Tortricidae (Lepidoptera) in the collection of Zoological Institute, St. Petersburg, Russia. 1. Types of species described by O. Bremer, A. M. Djakonov, N. G. Erschoff, and A. M. Gerasimov**

SVETLANA V. NEDOSHIVINA

*Department of Zoology, Ulyanovsk State Pedagogical University, Ulyanovsk, Russia. E-mail: svetlana.ned@gmail.com*

### **Abstract**

The primary types of 15 tortricid species described by O. Bremer, A. M. Djakonov, N. G. Erschoff, and A. M. Gerasimov deposited in the collection of Zoological Institute in St. Petersburg, Russia (ZISP) are listed and discussed. Lectotypes are designated for eight of these: *Lazotaenia* [sic.] *aurichalcana* Bremer, 1864; *Ptycholoma plumbeolana* Bremer, 1864; *Tortrix euxina* Djakonov, 1929; *Diceratura rhodograptia* Djakonov, 1929; *Penthina enervana* Erschoff, 1877; *Tortrix (Idioglyphis) excentricana* Erschoff, 1877; *Conchylis nomadana* Erschoff, 1874; *Cochylis pistrinana* Erschoff, 1877. Descriptions of the labels and photographs of adults are given for each species. Type specimens of two other species presumed to be deposited in ZISP, *Bactra griseana* Djakonov, 1929 and *Lazotaenia* [sic.] *quinquemaculana* Bremer, 1864, were not found in the collection and presumably are lost.

**Key words:** tortricid, primary types, ZISP

### **Introduction**

The Lepidoptera collection in the Zoological Institute, St. Petersburg, Russia (ZISP), contains more than 80,000 specimens of Tortricidae representing approximately 2,570 species, including primary types for nearly 600 species names. The vast majority of type specimens deposited in ZISP were collected from the territory of the former USSR and adjacent regions; a few specimens originated from the Oriental Region.

Historically, Primary types have been integrated within the main collection, usually placed at the beginning of the series with their conspecifics. Almost all of the types of species described after 1950 bear original red labels indicating “holotype” or “paratype.” Several types of species described before 1950 also bear red type labels that were placed on specimens by previous curators of the Tortricidae, V. I. Kuznetzov in particular. Although some of these specimens are labeled as “lectotypes,” designations for the vast majority of species remain unpublished. As a result, a degree of ambiguity exists regarding which species have formally designated lectotypes and which are merely labeled as such. Many of the types in ZISP were reported as “lost” or the deposition “unknown” by Brown (2005) and Gilligan *et al.* (2012).

The purpose of this contribution is to provide a list of the type specimens of species described by O. Bremer, A. M. Djakonov, N. G. Erschoff, and A. M. Gerasimov deposited in the ZISP to document their existence in that collection and clarify their status as holotype or lectotype.

### **Material and methods**

This study is based on the examination of the primary type specimens of 15 tortricid species described by O. Bremer (1864), A. M. Djakonov (1929), N. G. Erschoff (1874, 1877), and A. M. Gerasimov (1929). All primary types are separated from the main collection in a special cabinet. In the type collection, all specimens are arranged first by author and secondarily in alphabetical sequence by species name.