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Types of true bugs (Insecta, Hemiptera, Heteroptera) deposited in the Museo de La Plata, Argentina

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Abstract

A checklist of Heteroptera type specimens deposited in the collection of División Entomología, Museo de La Plata. It harbours type material of 1153 species belonging to 37 families (Enicocephalidae, Schizopteridae, Gerridae, Veliidae, Hydrometridae, Naucoridae, Belostomatidae, Nepidae, Corixidae, Notonectidae, Pleidae, Saldidae, Cimicidae, Polyctenidae, Nabidae, Miridae, Tingidae, Vianaididae, Thaumastocoridae, Reduviidae, Aradidae, Alydidae, Coreidae, Rhopalidae, Berytidae, Blissidae, Lygaeidae, Oxycarenidae, Rhyparochromidae, Idiostolidae, Largidae, Pyrrhocoridae, Anthocoridae, Cydnidae, Pentatomidae, Scutelleridae, Thyreocoridae), represented by 207 holotypes, 26 allotypes, 578 paratypes, 1 lectotype, 1 paralectotype and 340 syntypes. For each taxon providing update information on valid names, categories of types, and locality.

Key words: True bugs, catalogue, type material, Museo de La Plata Collection

Introduction

The Heteroptera, commonly called true bugs, are one of four suborders in the order Hemiptera. They are one of the most diverse groups of hemimetabolous insects with 89 families (Henry 2009). The suborder is divided into seven infraorders (Štys & Kerzhner 1975), one of which is aquatic (Nepomorpha), one semiaquatic (Gerromorpha), one riparian (Leptopodomorpha), and the remaining four terrestrial (Enicocephalomorpha, Dipsocoromorpha, Cimicomorpha, and Pentatomomorpha) Slater 1982; Schuh & Slater 1995).

True bugs fall in three feedings regimes: plant feeders, predators and few groups that feed on vertebrate blood may transmit disease-causing pathogens, and certain aquatic species are known for their importance as water-quality indicators.

The purpose of this paper is to present all the type material of Heteroptera at the Museo de La Plata (MLP) according to the recommendation of the International Code of Zoological Nomenclature (ICZN, 1999, article 72 F.4).

Materials and methods

The article was generated from the website (<http://heteroptera.myspecies.info>), The entomological collection of the MLP houses 1159 species of Heteroptera from 37 families, represented by 207 holotypes, 26 allotypes, 584 paratypes, 1 lectotype, 1 Paralectotype and 340 syntypes. Information of the specimens was taken from labels and compared to original descriptions.

The following information is provided for each type specimen: species names, corresponding to the original publication; bibliographic reference of original publication (author/s, year, periodical, and first page number); type material (category (holotype, allotype, paratype, lectotype, paralectotype, or syntype), number and sex of specimens, locality, collecting date, collector and collection number); and nomenclatural modifications (valid name, bibliographic reference).

All specimens of the same series have been assigned the same collection number, each one separated by a bar with an order number.

The studied material is pinned or mounted on microscope slides. This catalogue includes all specific names published up to 2013 organized alphabetically by infraorders, families, and species. The classification follows that of Schuh & Slater (1995) and Henry (1997) for the Lygaeoidea.

We took photographs using a SONY Cyber-Shot (5.1 megapixels) camera and a magnifying Wild M-Stereomicroscope