

**Catalog of the entomologic collections of the Faculty of
Public Health of the University of Sao Paulo - (2nd series ii):
Triatominae (Hemiptera, Reduviidae)**

**Daniel Pagotto Vendrami¹, Mauro Toledo Marrelli², Marcos Takashi Obara³,
José Maria Soares Barata[†], Walter Ceretti-Junior²**

ABSTRACT

This article reports a list with 912 specimens of the subfamily Triatominae deposited in the Entomological Collection of the Faculty of Public Health of the University of Sao Paulo. The collection is composed of 1 holotype, 3 allotypes, 15 paralectotypes, 77 paratypes, distributed in 5 tribes and 12 genera: Tribus Alberprosenini: genus *Alberprosenia* Martinez & Carcavallo, 1977; Tribus Bolboderini: genus *Microtriatoma* Prosen & Martinez, 1952; Tribus Cavernicolini: genus *Cavernicola* Barber, 1937; Tribus Rhodnini: genus *Psammostes* Bergroth, 1941; genus *Rhodnius* Stal, 1859; Tribus Triatomini: genus *Dipetalogaster* Usinger 1939; genus *Eratyrus* Stal 1859; genus *Hermanlenticia* Jurberg & Galvão, 1997; genus *Linshcosteus* Distant, 1904; 1944; genus *Panstrongylus* Berg 1879; genus *Paratriatoma* Barber 1938; genus *Triatoma* Laporte 1833.

KEYWORDS: Hemiptera. Reduviidae. Triatominae. Types. Entomological collection.

INTRODUCTION

Carlos Chagas, in 1909, working in the city of Lassance, Minas Gerais, Brazil, identified the vector of Chagas disease, which until then was known as *Conorhinus megistus*. Since that time, the number of described species of triatomines has been composed by 15 genera and 152 valid species, being two fossils (*Triatoma dominicana* Poinar, 2005 and *Panstrongylus hispaniolae* Poinar, 2013)¹⁻⁵.

Collections of triatomine specimens have been reported by several researchers⁶⁻⁹. The recommendation 72G4 of the International Code of Zoological Nomenclature (ICZN) emphasizes that any Institution should publish a list of the specimens it owns. The Entomological Collection of the Faculty of Public Health of the University of Sao Paulo was established on 16 July 1937 by John Lane and Paulo Cesar de Azevedo Antunes. Since then, the collection has been receiving a large number of insects of medical and sanitary importance, particularly from the families *Culicidae* and *Psychodidae* in *Diptera* and of the subfamily *Triatominae*, family Reduviidae in Hemiptera. Currently, this collection is under the curatorship of Prof. Dr. Maria Anice Murab Sallum. To get access to the collection, researchers must contact Dr. Sallum at Faculty of Public Health of the University of Sao Paulo.

The collection is known as *John Lane Collection*. At the beginning, specimens were registered only with a number of 3, 4 or 5 digits and no letters. The first list of specimens in the entomological collection was published in two parts as the first series. The first part refers to the *Culicidae* family¹⁰ and the second part is devoted

¹Universidade de São Paulo, Instituto de Medicina Tropical de São Paulo, São Paulo, São Paulo, Brazil

²Universidade de São Paulo, Faculdade de Saúde Pública, Departamento de Epidemiologia, São Paulo. São Paulo, Brazil

³Universidade de Brasília, Faculdade de Ceilândia, Brasília, Brazil

Correspondence to: Mauro Toledo Marrelli
Universidade de São Paulo, Faculdade de Saúde Pública, Departamento de Epidemiologia, Av. Dr. Arnaldo, 715, CEP 01246-904, São Paulo, SP, Brazil
Tel: +55 11 30617922

E-mail: mmarelli@usp.br

Received: 23 January 2018

Accepted: 23 April 2018

to *Ceratopogonidae*, *Pshychodidae* and *Simuliidae*¹¹ families. The second series of this collection began to be published on 6 March 1969, in the newly created Department of Epidemiology, Faculty of Public Health of the University of Sao Paulo, under the guidance of Professor Oswaldo Paulo Forattini. Records of specimens of this collection received a new numbering sequence, preceded by the letter E (for Epidemiology), and it is scheduled to continue without interruption. Of this second series, an article was published reporting the *Culicidae* records of the then newly created collection¹². The present paper resumes the publication these catalogues listing the specimens of Triatominae (Hemiptera, Reduvidae) deposited in *John Lane Collection*.

MATERIALS AND METHODS

The inventory of specimens of the subfamily Triatominae belonging to the Entomological collection of the Faculty of Public Health of the University of Sao Paulo, was prepared by checking the records of registrations, the data sheets and the observation of the deposited specimens. The regulations followed in this catalog are practically the same as those recommended in the previous series¹⁰⁻¹²:

- 1) Specimens are listed in alphabetical order of genera and within these, by the same system in relation to species according to Justi and Galvão⁵. In this way, species of the genera *Meccus* Stål, 1859, *Mepraia* Mazza, Gajardo, & Jörg, 1940 and *Nesotriatoma* Usinger, 1944 were included in the genus *Triatoma* Laporte, 1833;
- 2) The names of the specimens, for the most part, are the same as those corresponding to the last identification to which they were submitted;
- 3) In case there have been changes in the specific status such as, synonymization or revalidation of species and genera, the information was included between keys the original label of the registry;
- 4) After the name, the corresponding registration number in the collection is registered - sometimes more than one. To do this, the identification of the nature of the material, information on the origin and the person in charge of the identification (Ident.) are registered;
- 5) The acronyms and symbols to indicate the nature of the material are as follows:
G - Genitalia; E - The egg; Nn - nymph; ♂ - male adult; ♀ - female adult.
- 6) The identification of the origin is registered in the following order: country or continent, locality, municipality, State. For this, as a rule in Brazil, the acronyms used with two capital letters. Following is

the name responsible for identifying and year;

- 7) When dealing with typical material, the indication was made in full, such as holotype, allotype, paratype, etc. Just as parts of the arthropod body are indicated, such as wing, genitalia, etc.;
- 8) For several specimens, complete data were missing and in these circumstances they were presented to the extent that it was possible, by compiling the information contained in the respective sheet.

RESULTS

The Entomological Collection of the Faculty of Public Health of the University of Sao Paulo lists 912 specimens of the subfamily Triatominae. Although not very numerous, it is composed of examples of taxonomic importance listed below: 1 holotype (*T. sherloki*, ♂); 3 allotypes (*T. sherloki*, ♀; *P. lenti*, ♂; *T. baratai*, ♀), 1 lectotype (*A. malheroi* ♂); 15 paralectotype (*A. malheroi* ♂♂, ♀♀, Nns); 77 paratypes (*A. malheiroi*, Nns; *T. bolivari* ♂; *T. brailovskyi* ♂; *T. garciabesi* ♂ e ♀♀; *T. lenti*, ♂♂, ♀♀; *T. infestans melanosoma*, ♂; *T. pessoai*, ♂♂, ♀♀, Nns; *T. pseudomaculata*, ♂; *T. sherloki*; ♂♂, ♀♀, Nns). In addition, the following material distributes these species in 5 tribes and 12 genera: Tribe Alberprosenini: genus *Alberprosenia* Martinez & Carcavallo, 1977. Tribe Bolboderini: genus *Microtriatoma* Prosen & Martinez, 1952. Tribe Cavernicolini: genus *Cavernicola* Barber, 1937. Tribe Rhodnini: genus *Psammolestes Bergkoth*, 1941; genus *Rhodnius Stal*, 1859; Tribe Triatomini: genus *Linshcosteus Distant*, 1904. genus *Dipetalogaster* Usinger 1939; genus *Eratyrus Stal* 1859; genus *Hermanlenticia* Jurberg & Galvão, 1997; genus *Panstrongylus* Berg 1879; genus *Paratriatoma* Barber 1938; genus *Triatoma* Laporte 1833.

The collection also includes representatives of the triatomine fauna of 21 Brazilian States, nine South American countries, three countries in Central America, the United States and India. And by the following material these specimens are distributed in 93 species according to [Table 1](#).

TRIBE ALBERPROSENIINI

GENUS ALBERPROSENIA Martinez & Carcavallo, 1977
malheroi Serra, Atzingen & Serra, 1980

E10501 (♂ lectotype), E10502 to E10504 (♂♂ paralectotype) and E10505 to E10506 (♀♀ paralectotype) Brazil, Jacunda, PA. Ident. Serra 1987.
E10507 to 10516 (Nn paralectotype) Brazil, Jacunda, PA. Ident. Serra 1987.

E12035 to E12045 (Nn paratype) Brazil, Jacunda, PA. Ident. Serra, Atzingen & Serra/87.

Table 1 - Tribes and genera of Triatominae according to the number of specimens deposited in the collection and species currently described

Tribe	Genus	Number of species in the collection	Species described
ALBERPROSENIINI	<i>Alberprosenia</i>	1	2
BOLBODERINI	<i>Microtriatoma</i>	1	2
	<i>Belminus</i>	0	8
	<i>Bolboderia</i>	0	1
	<i>Parabelminus</i>	0	2
CAVERNICOLINI	<i>Cavernicola</i>	2	2
RHODNIINI	<i>Psammolestes</i>	3	3
	<i>Rhodnius</i>	16	21
TRIATOMINI	<i>Dipetalogaster</i>	1	1
	<i>Eratyrus</i>	2	2
	<i>Hermankentia</i>	0	1
	<i>Linshcosteus</i>	2	6
	<i>Panstrongylus</i>	10	15
	<i>Paratriatoma</i>	1	1
	<i>Triatoma</i>	53*	85
Total		93	152**

*Including the subspecies *Triatoma infestans melanosoma*; **Considering synonymy of *Triatoma flavida* with *Triatoma bruneri*

TRIBE BOLBODERINI

GENUS MICROTRIATOMA Prosen & Martinez, 1952

trinidadensis (Lent, 1951) Prosen & Martinez, 1952
 E5618 to E5620 (♂Nn) Brazil, Utinga, Belem, PA. Ident. Miles/78.
 E12548 to E12550 (♂♀♀) Brazil, Paranagua, PR. Ident. Celina/79.

TRIBE CAVERNICOLINI

GENUS CAVERNICOLA Barber, 1937

lenti Barret & Arias, 1985
 E12530 (♀) Brazil, Manaus-AM. Ind. Serra/Atzingen/Serra/87.
pilosa Barber, 1937
 E5523 (♀) Brazil, Paiquere-Londrina-PR. Ident. Gomes/77.
 E5625 (♀) Venezuela, Tierra Buena, Portuguesa. Ident. Espinola/75.
 E9708 and E9709 (♂♀) Colombia, Cundina-Marca. Ident. Ozorno/52.
 E12531 and E12532 (♂♀) Panama, Rep. do Panama. Ident. Souza.

TRIBE RHODNIINI

GENUS PSAMMOLESTES Bergroth, 1911

arthuri (Pinto, 1926) Pinto & Lent, 1935

E965 to E969 (♂♂♀Nn) Venezuela. Ident. Forattini/51.

E5621 and E5622 (♂♂) Venezuela, Cojedes. Ident. Espínola/76.

coreodes Bergroth, 1911

E881 to E884 (♂♂♀♀) Brazil, Caitite, BA. Ident. Sherlock/66.

E3727 to E3729 (♂♀Nn) Brazil, Souza-PB. Ident. Forattini/70.

E4109 and E4110 (♂♀) Brazil, Jaboticatubas, MG. Ident. Lent/40.

tertius Lent & Juberg, 1965

E991 to E993 and E1054 to E1055 (♂♂♀♀Nn) Brazil, Cassia dos Coqueiros, SP. Ident. Forattini/68 - 69.

E12591 and E12592 (♂♀) Brazil, Frutal, MG. Ident. Rabello.

E12593 and E12594 (♂♀) Brazil, Sacramento, MG. Ident. Rabello.

E12595 and E12596 (♂♀) Brazil, Altinópolis, SP. Ident. Rabello.

GENUS RHODNIUS Stal, 1859

brethesi Matta, 1919

E6790 to E6797; E12051 and E12052 (♂♂♀♀Nn) Brazil, Barcelos, AM. Ident. Mascarenhas/81.

colombiensis Mejia, Galvao & Jurberg, 1999.

- E12597 (♂) Colombia, Mun. Coyma, Tolina. Ident. Wanda/91.
 E12855 to E12856 (♂♀) Colombia, Coyama, Tolina. Ident. Wanda/91.
- domesticus* Neiva & Pinto, 1923
 E12053 to E12056 (♂♂♀♀) Brazil, Iguape, Cananeia, Pariquera-Açu, SP. Ident. Barata/79 and Rabello/74.
- ecuadoriensis* Lent & Leon, 1958
 E925 (♂) Ecuador. Ident. Arzube/62.
 E4942 to E4956 (♂♂♀♀Nn) Peru, Cajamarca. Ident. Cuba/72.
- milesi* Carcavallo, Rocha, Galvao, Jurberg, 2001
 E12598 and E12599 (♂♀) Brazil, Belem, PA. Ident. Valente/99.
- nasutus* Stål, 1859
 E12057 and E12060 (♂♀) Brazil, Patu, RN. Ident. SUCAM/80.
- neglectus* Lent, 1954
 E1029 to E1051 (♂♂♀♀Nn) Brazil, Guaira, SP. Ident. Forattini/69.
 E1056, E1490, E2710, E12587 and E12588 (♂♂♀♀) Brazil, Ipora, Pitangueiras and Bebedouro, SP. Ident. Forattini/69.
 E12589 and E12590 (♂♀) Brazil, Frutal-MG.
- neivai* Lent, 1953
 E5629 to E5632 (♂♂♀♀) Venezuela, Camacaro. Ident. Espinola.
- pallescens* Barber, 1932
 E4714 to E4716 (♀♀) Costa Rica, Guanacaste. Ident. Zeledon/72.
 E4933 and E4934 (♀♀) Brazil, IOC, RJ/73.
 E12600 and E12601 (♂♂) Panama.
- pictipes* Stål, 1872
 E3696 (♀) Brazil, Serra do Navio, AP. Ident. Forattini/70.
 E3778 (♂) Brazil, P.Santana, Macapa, AP. Ident. Forattini/71.
 E5616 and E5617 (♂♀) Brazil, Utinga, Belem, PA. Ident. Miles/78.
 E5626 to E5628 (♂♀♀) Venezuela, Cojedes. Ident. Espinola/76.
- prolixus* Stål, 1859
 E876 to E923 (♂♂♀♀) Laboratory (Medicine School, USP). Ident. Sherlock/67.
 E987 and E989 (♀♀Nn) Colombia, Partrejo. Ident. Lane/36.
 E990 (♀) Venezuela. Ident. Torrealba/49.
 E3585 (♀) Argentina, Tucuman. Ident. Vazquez/68.
 E4717 to E4720 (♀♀) Costa Rica, Guanacaste. Ident. Zeledon/72.
 E15901 to E15906 (♂♂♀♀Nn) Colombia.
- robustus* Larrousse, 1927
 E12061 to E12067 (♂♂♀♀) Peru, Lima, Madre de Dios. *stali* Lent, Jurberg & Galvao, 1993
 E12602 to E12604 (♂♂) Bolivia, Alto Beni. Ident. Wanda/99.
 E12857 to E12859 (♂♀♀) Bolivia, Alto Beni. Ident. Wanda/99.
- TRIBE TRIATOMINI**
GENUS DIPETALOGASTER Usinger, 1939
maxima (Uhler, 1894) Usinger, 1939
 E12533 to E12540 (♂♂♀♀) Mexico.
- GENUS ERATYRUS** Stål, 1859
cuspidatus Stål, 1859
 E927 and E928 (♂♀) Mexico, Culimanarca. Ident. Ozorno/62.
mucronatus Stål, 1859
 E947 (♀) Brazil, Serra do Navio, AP. Ident. Forattini/59.
 E5613 (♂) Brazil, Utinga, Belem-PA. Ident. Miles/78.
 E5623 (♀) Venezuela, Cojedes. Ident. Espinola/76.
 E5624 (♂) Peru, Pachiza, M. Caceres. Ident. Calderon/78.
 E12541 and E12542 (Nn) Peru, San Martin.
- GENUS LINSHCOSTEUS** Distant, 1904
carnifex Distant, 1904
 E12108 to E12110 (♂♂♀) India, CIBC-Bargalove. Ident. Carcavallo/93.
costalis Ghauri, 1976.
 E12105 to E12107 (♂♀♀) India, CIBC-Bargalove. Ident. Carcavallo/93.
- GENUS PANSTRONGYLUS** Berg, 1879
chinai (Del Ponte, 1929) Pinto, 1931
 E929 (♀) Peru, Lima. Ident. Hidalgo/57.
 E930 and E931 (♂♂) Ecuador. Ident. Arzube/64.
 E5636 (♂) Peru, Piura, District Tambog. Ident. Napan/75.
 E12555 (♂) Peru, Chancay, Lima.
 E12557 (♂) Peru, Marropon, Chulucanas. Ident. Napan/76.
 E12551 and E12552 (♂♂) Peru, Pucara, Jaen. Ident. Napan/75.
 E12553 and E12554 (♀♀) Peru, Contum, Magdal. Ident. Napan/75.
 E12556 (♂) Peru, Chancay, Sayan.
- diasi* Pinto & Lent, 1946
 E1261 (♀) Brazil, Rifaina, SP. Ident. Forattini/69.
 E6240 and E6241 (♂♀) Brazil, Itobi and S.J.R.Pardo, SP. Ident. Rocha/Silva/80.
 E12860 (♀) Brazil, Rio Verde, MS. Ident. Gonçalves/2005
- geniculatus* (Latreille, 1811) Pinto, 1931

- E896, E897 and E898 (♂♂) Brazil, Tucano, BA. Ident. Sherlock/68.
 E1500 (♀) Brazil, Teodoro Sampaio, SP. Ident. DCV/69.
 E3692 to E3695 (♂♂) Brazil, Serra do Navio, AP. Ident. Forattini/70.
 E4432 (♂) Brazil, Ilha Bela, SP. Ident. Cotrim/72.
 E5003 (♀) Brazil, Indaiatuba, SP. Ident. Rocha/73.
 E5637 (♂) Peru, Oxapampa, Andahuaylas. Ident. Calderon/76.
 E12558 (♂) Peru, Huliaga.
 E12561 (♂) Peru, Pucara, Jaen. Ident. Napan/75.
 E12559 (♀) Peru, Hualiaga.
 E12560 (♂) Peru, Jaen, Pucara. Ident. Napan/75.
- guentheri* Berg, 1879
 E12861 (♀) Brazil, Bodoquena, MS. Ident. Benetes/2002.
- humeralis* (Usinger, 1939) Lent & Pifano, 1940
 E12049 (♂) Panama, Panama City, Barra do Colorado.
- lenti* Galvao & Palma, 1968
 E12046 (♂ allotype) Brazil, Faina/GO. Ident. Galvao/Palma/Barata/Carcavallo/84.
- lignarius* (Walker, 1873) Pinto, 1931
 E935 and E936 (♂♀) Peru, INSP, Lima. {Label: *Panstrongylus herreri*. Ident. Morales/64}.
 E3822 to E3825 (♂♂♀♀) Brazil, Belem, PA. Ident. Fraiha/70.
 E4837, E4851 to E4860 (♂♂♀♀Nn) Peru, Lima. {Label: *Panstrongylus herreri* Ident. Tejada/72}
 E4846 to E4848 (Nn) Brazil, Belem, PA. Ident. Damasceno/44.
 E4932 (♀) Brazil, Mogi-Guaçu, SP.
 E5635 (♂) Peru, Jaen, Cajamarca. {Label: *Panstrongylus herreri* Ident. Napan/76}.
 E5638 and E5639 (♂♀) Peru, Juanjui, Caceres. Ident. Calderon/76.
 E5614 and E5615 (♂♀) Brazil, Utinga, Belem, PA. Ident. Meireles/78.
 E12562 (♀) Peru, Cerezal-Los Lonas, Piura. Ident. Calderon/76.
 E12563 (♀) Peru, Chirimoyoc, Cutervo. Ident. Calderon/75.
- lutzi* (Neiva & Pinto, 1923) Pinto, 1931
 E957 to E960 (♂♂) Brazil, Ituassu, BA. Ident. Serafim/59.
 E3722 (♀) Brazil, Sta. Lucia, PB. Ident. Forattini/70.
 E6166 (♂) Brazil, S.J.do Monte, PE. Ident. Barata/81.
 E12564 to E12566 (♂♀♀) Brazil, Quixada, CE; Caruaru, PE; St. Trincheira, RN. Ident. Forattini.
- megistus* (Burmeister, 1835) Pinto, 1931
 E865 and E866 (♀♀) Brazil, Sao Felipe, BA. Ident. Celia/68.
- E970, E976 to E984 (♂♂♀♀Nn) Brazil, Ituassu, Itaparica, Miguel Calmon, BA. Ident. Serafim/59.
 E1026 to E1028 (♂♀♀) Brazil, Curitiba, PR. Ident. Enio/Borba/68.
 E1038 (♀) Brazil, Cassia dos Coqueiros, SP. Ident. Forattini/69.
 E1039 and E1040 (Nn) Brazil, Cassia dos Coqueiros, SP. Ident. Forattini/69.
 E2062 (♀) Brazil, km.13 Via Anchieta, SP. Ident. Forattini/70.
 E4912; E233 a E235 (♂♂♀♀) Brazil, IOC, RJ.
 E12571 to E12576 (♂♂♀♀) Brazil, São Joao da Boa Vista, Lupo-Araraquara, Guaira, SP.
 E12567 to E12570 (♂♂♀♀) Brazil, Formiga, Carmo do Paraiba, MG.
 E12579 to E12582 (♂♂♀♀) Brazil, Ortiqueira, Morretes, PR.
 E12583 and E12584 (♂♀) Brazil, Itaporanga, SE.
 E12585 and E12586 (♂♀) Brazil, Gurjao, PB.
 E12577 and E12578 (♀♀) Brazil, Sta. Maria do Cumbuca, PE.
- rufotuberculatus* (Champion, 1899) Pinto, 1931
 E4861 to E4874 (♂♂♀♀Nn) Peru, Cuzco. Ident. Tejada/71.
 E5633, E5634 and E12094 (♂♂♀) Peru, La Convencion; J. del Oro, Sandia; Ocrobamba. Ident. Calderon/76.
 E14977 (♂) Costa Rica, San José, P.N. Braulio Carrillo. Col. Chacón, A.M. 23/III/1986. Donated by Zeledon, R. /2012.
- GENUS *PARATRIATOMA*** Barber, 1938
hirsuta Barber, 1938
 E5026 and E5027 (♂♀) USA, California. Ident. Rickman/52.
- GENUS *TRIATOMA*** Laporte, 1833
arthurneivai Lent & Martins, 1940
 E997 to E1020 (♂♂♀♀Nn) Brazil, Ituparanga, SP. Ident. Forattini/67.
 E1685, E1686; E1753; E2061; E2290 to E2292; E2378 and E2379 (♂♂♀♀Nn) Brazil, Sto. Pirapora, SP. Ident. Rabello/Pattoli/70.
 E12815 a E12821 (♂♀) Brazil, Vargem Grande do Sul, SP. Ident. Barata/Obara/2003.
- baratai* Carcavallo & Jurberg, 2000
 E12822 (♂) Brazil, Nioaque, Assentamento Uirapuru, MS. Ident. Ceretti/05.
 E12823 (♀) Brazil, Nioaque, Assentamento Uirapuru, MS. Ident. Ceretti/2005.
 E12824 (allotype ♀) Brazil, Nioaque, Assentamento Uirapuru, Faz. Sao Miguel, MS. Ident. Ceretti/Obara/2003.

- E12825 (♀) Brazil, Nioaque, MS. Ident. Ceretti/05.
 E12826 (♀) Brazil, Tupã Bae, Miranda, MS Ident. Obara/Ceretti/2003.
 E12827 (♀) Brazil, Bodoquena, MS. Ident. Ceretti/Obara/2003.
 E13126 (♀) Brazil, Bonito, Faz. Santa Maria da Floresta, MS. Ident. Gonçalves/2009.
 E13127 (♀) Brazil, Miranda, MS. Ident. Portes/2008
 E13128 (♀) Brazil, Bonito, MS. Ident. Gonçalves/2009.
 E13129 (♂) Brazil, Bonito, MS. Ident. Queiroz/2007.
 E13130 (♂) Brazil, Bela Vista, MS. Ident. Larson/2002.
 E13131 (♂) Brazil, Corumba, MS, Ident. Lima/2007.
- barberi* Usinger, 1939
 E4923 (♂) Mexico, Totlan, Taliso. Ident. Guedes/73.
 E6238 and E6239 (♂♀) Mexico, Miahuatlan, Oaxaca. Ident. Salazar/81.
 E12605 to E12608 (♂♀♀Nn) Mexico, El Capulin, Tuxpan. Ident. Biagi/63.
- bolivari* Carcavallo, Martinez & Pelaez, 1987
 E7492 (♂) (paratype) Mexico, Colima, Rio San Jose. Ident. Carcavallo/1981
- braziliensis* Neiva, 1911
 E887 to E891 (♀♀) Brazil, Paulo Afonso, BA. Ident. Sherlock/68.
 E926 (♀) Brazil, Araraquara, SP. Ident. Galvao/41.
 E950 to E952 (♂♀♀) FIOCRUZ/RJ. Ident. Lent/39.
 E995 and E1024 (♂♀) Brazil, PE.
 E3724 to E3726 (♂♀Nn) Brazil, Souza, PB. Ident. Forattini/70.
 E12617 and E12618 (♂♀) Brazil, Aracoiba, Umari, CE.
 E12609 to E12612 (♂♀♀Nn) Brazil, Itaicaba, CE.
 E12613 to E12616 (♂♂♀♀) Brazil, Maceio, AL.
 E4106 and E4108 (♂♀♀) Brazil, Espinosa, MG. Ident. Lent/40.
- brailovskyi* Martinez, Carcavallo & Pelaez, 1984
 E7633 (♂) (paratype) Mexico, Nayarit. Col. Carcavallo/69
 E7494 (♂) México, Colima, Rio San Jose Col. Carcavallo/81
- breyeri* Del Ponte, 1929
 E12068 to E12073 (♂♂♀♀) Argentina, Cordoba.
- flavida* (Neiva 1911) (Paez-Rondon et al., 2017)
 E14976(♂) Costa Rica, Alajuela, Donated by Zeledon, R./2012.
 {Label *bruneri* Usinger, 1944, ident. Zeledon, R./2012}.
- carcavalloii* Jurberg et al, 1998
 E12619 e E12620 (♀♀) Brazil, Faxinal, Canguçu, RS.
- carrioni* Larrousse, 1926
 E934 and E12621 (♂♂) Peru, Cajamarca e Lima. Ident. Hidalgo/56.
- costalimai* Verano & Galvao, 1958
 E12828 and E12829 (♂♀) Brazil, Luis Veloso, GO. Ident. Wanda/96.
 E12830 and E12831 (♂♀) Brazil, Mambai, GO. Ident. Ionizete/04
- circummaculata* (Stal, 1859)
 E12074 (♂) Brazil, Dom Pedrito, RS. Ident. Carcavallo/93.
 E12104 (♂) Brazil, Cachoeira do Sul, RS. Ident. Carcavallo/93.
 E12622 and E12623 (♂♂) Brazil, Caçapava do Sul, RS.
delpontei Romaña & Abalos, 1947
 E4930 and E4931 (♂♂) Argentina, San Justo, Cordoba. Ident. Bejarano/73.
 E6237 (♀) Argentina, Cordoba. Ident. Carpintero/67.
- dimidiata* (Latreille, 1811) Usinger, 1944
 E938 and E941 (♂♀) Colombia, Santander del Sur, Cauca. Ident. Ozorno/56.
 E939 (♂) Peru, Tumbes. Ident. Hidalgo/57.
 E940 (♀) Equador. Ident. Lent/40.
 E4712 and E4713 (♀♀) Costa Rica, Guanacaste. Ident. Zeledon/72.
- E4913 (♂) Colombia, Santander. {Label: *Triatoma dimidiata capitata* Ident. Osorno/73}
 E7044 and E7045 (♂♂) Guatemala. Ident. Coutinho/47.
 E12626 and E12627 (♂♀) Panama.
 E12628 to E12631 (♂♂♀♀) Mexico, Yucatan. {Label: *Triatoma maculipennis* (Stål, 1859)}
- díspar* Lent, 1950
 E14976 (♂) Costa Rica, Alajuela, San Mavron, Rio San Lorencito Col. A. Sollis B. 24/V/1986 – Doação Zeledon R./2012.
- eratyrisiformis* Del Ponte, 1929 *Lent & Wygodzinsky, 1979
 E4937 and E4938; E12075, E12632 and E12633 (♂♂♀♀) Argentina, San Juan e Cordoba. Ident. Bejarano/73.
 E12725 (♂) Argentina, Cordoba. {Label: *Triatoma niñoi* Carcavallo, Martinez, Prosen & Cichero, 1964 Ident. Martinez/73}.
- garciabesi* Carcavallo et al., 1967
 E12048 (♀ paratype) Argentina, Salto. Ident. Carcavallo/63.
 E12634 (♀) Argentina, Cordoba. Ident. Martinez/73.
 E12835 and E12836 (♂♀ Paratype) Argentina, Salto.
- gerstaeckeri* (Stål, 1859) Neiva, 1914
 E12097 and E12098 (♀♀) Mexico, Nueva Leon.
 E12635 to E12638 (♂♂♀♀) Mexico, Tamaulipas. Ident. Biagi.
- guasayana* Wygodzinsky & Abalos, 1949.
 E12076 (♀) Argentina, Cordoba.
- infestans infestans* (Klug, 1834) n. ssp Galvao et al, 2003

- E863 and E864 (♂♀) Brazil, BA. {Label: *Triatoma infestans* Ident. Sherlock/68}.
- E971 (♀) Brazil, Lab. Amorim Cardoso, SP. {Label: *Triatoma infestans* Ident. Milton/61}.
- E972 and E973 (♀♀) Brazil, Teodoro Sampaio, SP. {Label: *Triatoma infestans* Ident. Forattini/58}.
- E974 and E975; E3581 to E3589; E3793 to E3798 (♂♂♀♀Nn) Argentina, Tucuman. {Label: *Triatoma infestans* Ident. Ozorno; Vazquez/68; Canzonieri/70}.
- E976; E4828 to E4831; E4902 and E4903 (♂♂Nn) Brazil, Lab. FSP/USP, SP. {Label: *Triatoma infestans*. Ident. Miguel/49; Juarez/73}.
- E1015 and E4721 (♂♀) Brazil, Ilha Bela, SP. {Label: *Triatoma infestans*. Ident. Forattini/64; Rocha/72}.
- E4904 (♂) Paraguay, Lorenzo. {Label: *Triatoma infestans*. Ident. Forattini/73}
- E4905 and E4906; E12657 to E12660 (♂♂♀♀) Brazil, Cumaru, PE. {Label: *Triatoma infestans* Ident. Juarez/73}.
- E4907 (♂) Brazil, Campo Grande, MT. {Label: *Triatoma infestans* Ident. Absoli/73}.
- E12641 and E12642 (♂♀) Brazil, Buenopolis, MG. {Label: *Triatoma infestans*}
- E12643 and E12644 (♂♀) Brazil, Frutal, MG. {Label: *Triatoma infestans*}
- E12645 and E12646 (♂♀) Brazil, Colorado, RS. {Label: *Triatoma infestans*}
- E12647 and E12648 (♂♀) Brazil, Espumoso, RS. {Label: *Triatoma infestans*}
- E12649 to E12652 (♂♂♀♀) Brazil, Gloria Dourados, MT. {Label: *Triatoma infestans*}
- E12653 to E12656 (♂♂♀♀) Brazil, Mombai, GO. {Label: *Triatoma infestans*}
- E12661 and E12662 (♂♀) Brazil, Dourados, MS. {Label: *Triatoma infestans*}
- E12663 to E12665 (♂♀♀) Paraguay, Puerto {Label: *Triatoma infestans*}
- E12666 to E12668 (♂♀♀) Bolivia, Cochabamba. {Label: *Triatoma infestans*}
- E12669 and E12670 (♂♀) Peru {Label: *atoma infestans*}
- E12671 and E12672 (♂♀) Uruguai. {Label: *Triatoma infestans*}
- infestans melanosoma* Martinez, Olmedo & Carcavallo, 1987
- E12047 (♂ paratype) Argentina, Misiones. {Label: *Triatoma melanosoma* Ident. Carcavallo/87}.
- E12722 and E12723 (♂♀) Argentina, Misiones. {Label: *Triatoma melanosoma*}
- jurbergi* Carcavallo et al. 1998
- E12676 to E12680 (♂♂♀♀Nn) Brazil, Rondonopolis, MT.
- klugi* Carcavallo et al., 2001
- E12681 and E12682 (♂♀) Brazil, Santa Maria, RS.
- lecticularia* (Stål, 1859) Usinger, 1944
- E12683 to E12690 (♂♂♀♀) USA, Walrika, Oklahoma.
- lenti* Sherlock & Serafim, 1967
- E868 and E869; E15899 and E15900 (♂♂♀♀ paratype) Brazil, Macaubas, BA. Ident. Sherlock/Serafim/67
- E15897 and E15898; E994; E1022 and E1023; E2493 and E2494; E861; E867 (♂♂♀♀Nn paratype) Brazil, Macaubas and Ipujiara, BA. {Label: *Triatoma pessoai*; Ident. Sherlock/Serafim/67}.
- E12691 and E12692 (♂♀) Brazil, Londrina, PR.
- E12732 and E12733 (♂♀) Brazil, Ceara, BA {Label: *Triatoma pessoai*}
- longipennis* (Usinger, 1939) Carcavallo et al, 2000.
- E12673 to E12675 (♂♀Nn) Mexico, Tepechillon/ Zacatecas, Portales Calvillo, Estanzula. {Label: *Triatoma intermedia*; Ident. Tay/Biagi}.
- maculata* (Erichson, 1848) Neiva, 1914
- E899 to E901 (♂♀♀) Brazil, Ipira, BA. Ident. Sherlock/68.
- E953 to E955 (♂♀♀) Venezuela. Ident. Lent/39.
- E985 (♀) Brazil, Senhor Bonfim, BA. Ident. Serafim/59.
- E986 (♀) Colômbia, Dep. Magdalena. Ident. Reichel/55.
- E3590 and E3591 (♂♀) Brazil, GO. Ident. Galvao/69.
- E6164 (♂) Brazil, Boa Vista, RO. Ident. Forattini/81.
- E12707 and E12708 (♂♀) Venezuela, Caracas.
- E12693 and E12694 (♂♀) Brazil, Gurjao, PB.
- E12695 and E12696 (♂♀) Brazil, Macambira, SE.
- E12701 to E12704 (♂♂♀♀) Colombia, Bogota.
- E12697 and E12698 (♂♀) Brazil, Oros, CE.
- E12699 and E12670 (♂♀) Brazil, Ceabra, BA.
- E12705 and E12706 (♂♀) Venezuela, El Paoedo Cojedes.
- matogrossensis* Leite & Barbosa, 1953
- E12609 to E12714 (♂♂♀♀Nn) Brazil, Salvador, BA. Ident. Wanda/86.
- E12715 to E12718 (♂♂♀♀) Brazil, Aquidauana, MT.
- mazotti* (Usinger, 1941) Carcavallo et al, 2000
- E12719 to E12721 (♂♂♀) Mexico, Carranza, Tetitlangro, Yosandurtiatiaco, Oaxaca. Ident. Tay/Biagi.
- melanocephala* Neiva & Pinto, 1923
- E893 to E895 (♂♂) Brazil, Lameirao, BA. Ident. Sherlock/68.
- E932 and E933 (♂♂) Brazil, Conceição do Coite, BA. Ident. Serafim/59.
- E6165 (♂) Brazil, S.J.do Monte, PE. Ident. Barata/81.
- E6167 (♀) Brazil, Caruaru, PE. Ident. Barata/81.
- E12077 (♀) Brazil, Condeuba, BA.
- neotomae* Neiva, 1911
- E5025 (♂) USA, Texas. Ident. Ryckman/52.

- nigromaculata* (Stål, 1872)
E6283 (♀) Peru, Los Aguanos. Ident. Calderon/81.
E12078 to E12082 (♀♀Nn) Peru, S. Martin de Alao.
- nitida* Usinger, 1939
E7042 and E7043 (♀♀) Guatemala. Ident. Lent/49.
E12726 and E12727 (♂♀) Costa Rica, San Jose. Ident. Gutierrez/68.
E7042 to E7044 (♂♀♀) Guatemala. Ident. Lent/49.
- oliveirai* (Neiva, Pinto & Lent, 1939) Lima, 1940
E12095 and E12096 (♂♀) Brazil, Sapucaia do Sul, RS. Ident. Grazia/86.
- pallidipennis* (Stål, 1872) Carcavallo et al, 2000
E943 (♂) Mexico. Ident. Lent/37.
E1021; E1025; E1035 to E1037; E5038 and E5039;
E12728 and E12729 (♂♂♀♀Nn) Mexico.
- patagonica* Del Ponte, 1929
E4920; E4929; E4939; E12730 and E12731 (♂♂♀)
Argentina, Chubut, San Juan, Cordoba. Ident. Martinez/73; Bejarano/73.
- peninsularis* Usinger, 1940
E5036 and E5037 (♂♀) Mexico, Baja Cali. Ident. Ryckman/57.
- petrochii* Pinto & Barreto, 1925
E885 and E886; E3811 and E3812 (♂♂♀) Brazil, Paulo Afonso, BA. Ident. Sherlock/62.
- phyllosomus* (Burmeister, 1835) Carcavallo et al, 2000.
E12734 to E12737 (♂♂♀♀) Mexico, Compostela, Nayarit.
{Label: *Triatoma phyllosoma*}.
- picturatus* (Usinger, 1939) Carcavallo et al, 2000.
E12738 to E12740 (♂♀Nn) Mexico, Pacific Coast.
{Label: *Meccus picturata*}
- platensis* Neiva, 1913
E12742 to E12749 (♂♂♀♀) Argentina, Cordoba.
- protracta* (Uhler, 1894) Neiva, 1914
E948 and E949 (♂♀) USA, California. Ident. Galvao/49
E4922; E5034 and E5035 (♂♀♀) USA, Monte Diablo/California; Colorado/Arizona {Label: *Triatoma p. protracta* Ryckman, 1962; Ident. Ryckman/57}
E5028 and E5029 (♂♀) USA, Colorado/Arizona. {Label: *Triatoma p. woodi* Usinger, 1939; Ident. Ryckman/53}
E5032 and E5033 (♂♀) Mexico, San Luis, Potosi. {Label: *Triatoma p. zacatecensis* Ryckman, 1962; Ident. Ryckman/62}
- pseudomaculata* Correa & Espínola, 1964
E15824 (♂ paratype) Brazil, Sobral, CE. Ident. Correa/Spinola/64.
E874 and E875 (♂♂) Brazil, Tucano, BA. Ident. Sherlock/67.
E3723 (♀) Brazil, Souza, PB. Ident. Forattini/70.
- E4917 to E4919 (♂♂♀) Brazil, Eng. Paraiso, PE. Ident. Juarez/73.
E4926 to E4928 (♂♂) Brazil, Vicencia, PE. Ident. Juarez/73.
- recurva* (Stål, 1868) Neiva, 1914
E5040 (♂) USA, Santa Rita. Ident. Ryckman/55.
E12724 (♂) Mexico, Guazapares. Ident. Tay/Biagi. {Label: *Triatoma longipes nigricolis*}
- rubida* (Uhler, 1894) Neiva, 1914
E12753 to E12756 (♂♂♀♀) Mexico, Guaymas; Guasave; Huasabas; Sinaloa. {Label: *Triatoma rubida sonoriana*; Ident. Tay/64}.
- rubrofasciata* (De Geer, 1773) Breddin, 1905
E902 to E910; E944 to E946 (♂♂♀♀Nn) Brazil, Salvador, BA. Ident. Sherlock/62.
E12083 to E12092 (♂♂♀♀) Brazil, Morro da Providencia, RJ.
E12099 to E12102 (♂♂♀♀) India, CIBC-IS, Bargalove.
E12752 (♀) Brazil, Quipapa, PE.
E12750 and E12751 (♂♀) Brazil, Belem, PA.
- rubrovaria* (Blanchard, 1843) Neiva, 1913
E4924 and E4925 (♂♀) Uruguai, Montevideo.
E4935 and E4936 (♀♀) Argentina, Entre Rios. Ident. Bejarano/73.
E12093 (♂) Brazil, Santana do Livramento, RS.
- rychmani* Zeledon & Ponce, 1972
E14974 and E14975 (♂♀) Guatemala, Laboratory (2002). Donated by Zeledon, R./2012.
- sherlocki* Papa, Jurberg, Carcavallo, Cerqueira, & Barata (2002)
E11988 (holotype ♂) Brazil, Bahia, Santo Inácio. Col Cerqueira/75, Ident. Papa/2001
E11989 to E12034 (paratypes ♂♂♀♀nfs) Brazil, Bahia, Santo Inacio. Col Cerqueira/75, Ident. Papa/2001.
E12848 (♂) Brazil, Bahia, Santo Inácio. Col Aristeu/2003. Ident. Papa/03.
E12849 (allotype ♀) Brazil, Bahia, Santo Inacio. Col Aristeu/2003. Ident. Papa/03.
- sinaloensis* Ryckman, 1962
E5030 and E5031 (♂♀) Mexico, Sonora. Ident. Ryckman/62.
- sordida* (Stål, 1859) Chagas, 1912
E870 to E873 (♂♂♀♀) Brazil, Sao Francisco do Conde, BA. Ident. Sherlock/67
E961 to E963 (♀♀) Brazil, Palmeiras, BA. Ident. Serafim/59.
E996 and E1016; E1052 and E1053; E3580 (♂♂♀♀Nn) Brazil, Sertaozinho, SP. Ident. Forattini/69.
E1017; E1033 and E1034; E1041 to E1047 (♂♂♀♀Nn) Brazil, Guaira, SP. Ident. Forattini/69
E4875 (♂) Brazil, Gavião Peixoto, SP. Ident. Rabello/72.

E4921 (♂) Brazil, Fac.Med., USP, SP. Ident. Forattini/72.
 E12757 to E12759 (♂♀) Brazil, GO.
 E12760 to E12763 (♂♂♀♀) Brazil, Brazilandia, MS.
 E12764 and E12765 (♂♀) Brazil, Rochedo, MS.
 E12766 to E12769 (♂♂♀♀) Brazil, São João do Piauí, PI.
 E12770 and E12771 (♂♀) Brazil, Cornelio Procopio, PR.
 E12772 to E12775 (♂♂♀♀) Brazil, Conceição das
 Alagoas, MG.
 E12776 and E12777 (♂♀) Brazil, Frutal, MG.
 E12778 and E12779 (♂♀) Brazil, Tanhaçu, BA.
 E12782 and E12783 (♂♀) Argentina, Cordoba.
 E12780 and E12781 (♀♀) Brazil, Cuiaba, MT. Ident.
 Forattini/67.

spinolai (Porter, 1934) Lent et al, 1994

E12543 to E12547 (♂♂♀♀) No Information
 E12103 (♀) Chile, Santiago del Chile. Ident.
 Schimone/80.

tibiamaculata (Pinto, 1926) Del Ponte, 1930

E892 (♀) Brazil, M.R. Real, BA. Ident. Sherlock/68.
 E964 (♀) Brazil, Pariqueira-Açu, SP. Ident. Correa/61.
 E1430 (♀) Brazil, Ribeira, SP. Ident. Paladino/69.
 E4911 (♀) Brazil, IOC/RJ/73.

venosa (Stål, 1872) Neiva, 1914

E4914 to E4916 (♂♂♀♀) Colombia, Guapeque, Bayla.
 Ident. Atzingen/73.

vitticeps (Stål, 1859) Neiva, 1914

E862 (♀) Brazil, Rio de Janeiro, RJ. Ident. Sherlock/68.
 E956; E4908 to E4910 (♀♀) Brazil, MG. Ident. Lent/73.

williami Galvão, Souza & Lima, 1965

E12784 to E12786 (♂♀♀) Brazil, Barra do Garça, MT.
 Ident. Ceretti/05.

CONFLICT OF INTERESTS

No competing financial or conflict of interests exist.

ACKNOWLEDGMENTS

To the late Professor Jose Maria Soares Barata, a senior lecturer at the Faculty of Public Health of the University of Sao Paulo (FSP/USP) who created this catalog and unfortunately cannot see it finished. For years, he dedicated his time to the study of triatomines, and, more than a mentor, he was a friend and often adviser of so many undergraduate and graduate students of FSP/USP. To Prof. Dr. Maria Anice Murab Sallum, curator of the Entomological Collection of FSP/USP who promptly gave access to all the information and species listed in this catalog. To the biologist Denise Cristina Sant'Ana and to the technician Caio Cesar Moreira for the attention and prompt service without which this work could not be elaborated.

REFERENCES

1. da Rosa JA, Justino HH, Nascimento JD, Mendonça VJ, Rocha CS, de Carvalho DB, et al. A new species of *Rhodnius* from Brazil (Hemiptera, Reduviidae, Triatominae). *Zookeys*. 2017;675:1-25.
2. de Almeida MD, Rodrigues JM, Moreira FF, Jurberg J. Lista dos exemplares-tipo de Heteroptera (Insecta) da Coleção Costa Lima, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil. *EntomoBrasilis*, 2014;7:151-8.
3. Páez-Rondón O, Otálora-Luna F, Aldana E. Revalidation of synonymy between *Nesotriatoma flavida* and *N. bruneri* (Hemiptera, Reduviidae, Triatominae). *J Arthropod Borne Dis*. 2017;11:446-52.
4. Oliveira JD, Alevi KC. Taxonomic status of *Panstrongylus herreri* Wygodzinsky, 1948 and the number of Chagas disease vectors. *Rev Soc Bras Med Trop*. 2017;50:434-5.
5. Justi SA, Galvão C. The evolutionary origin of diversity in Chagas disease vectors. *Trends Parasitol*. 2017;33:42-52.
6. Gonçalves TC, Almeida MD, Jurberg J, Lent H. Lista dos exemplares tipos de triatomíneos depositados na coleção entomológica do Instituto Oswaldo Cruz, Rio de Janeiro (Hemiptera, Reduviidae). *Mem Inst Oswaldo Cruz*. 1993;88:327-33.
7. Rocha DS, Galvão C, Borgerth SP, Jurberg J. Lista dos espécimes tipos e de variações genéticas de triatomíneos (Hemiptera, Reduviidae), da coleção Rodolfo Carcavallo depositados na coleção entomológica do Instituto Oswaldo Cruz, Rio de Janeiro, Brasil. *Entomol Vectores*. 1998;5:267-78.
8. Marassá AM, Barata JM. Nota sobre tipos e espécimes de triatomíneos depositados na Coleção Entomológica do Instituto Butantan, São Paulo (Hemiptera, Reduviidae). *Rev Soc Bras Med Trop*. 2000;33:227-30.
9. Souza RC, Brito RN, Barbosa AB, Diotaiuti L. Species of the subfamily Triatominae Jeannel, 1919 (Hemiptera: Reduviidae) present in the Collection of Chagas Disease Vectors (FIOCRUZ-COLVEC), State of Minas Gerais. *Rev Soc Bras Med Trop*. 2014;47:728-38.
10. Forattini OP, Rabello EX, Cotrim MD. Catálogo das coleções entomológicas da Faculdade de Saúde Pública da Universidade de São Paulo (1ª série) - Culicidae. *Rev Saude Publica*. 1970;4 N° Esp:1-100.
11. Forattini OP, Rabello EX, Cotrim MD. Catálogo das coleções entomológicas da Faculdade de Saúde Pública da Universidade de São Paulo (1ª série) - Ceratopogonidae, Psychodidae, Simuliidae. *Rev Saude Publica*. 1971;5:301-66.
12. Forattini OP, Rabello EX, Cotrim MD. Catálogo das coleções entomológicas da Faculdade de Saúde Pública da Universidade de São Paulo (2ª série I) - Culicidae. *Rev Saude Publica*. 1973;7:453-79.