

# Filling gaps: pentatomids (Hemiptera: Heteroptera) from Boraceia Biological Station (São Paulo, Brazil) with a preliminary checklist for the Atlantic Rain Forest

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**Abstract.** The Boraceia Biological Station (BBS) is located in the Salesópolis municipality, State of São Paulo, and represents an important natural protected area of the Atlantic Rain Forest in one of Brazil's most urbanized states. In this work, an inventory for the BBS was compiled, using specimens deposited in the Zoology Museum of the University of São Paulo and through consultation of bibliography. We list 36 species of stink bugs (Hemiptera: Pentatomidae) collected over 80 years. Six species were recorded for the first time in the State of São Paulo. The inventory represents the first one comparing the diversity of species from BBS with the recorded diversity of the Atlantic Rain Forest. We also present a preliminary checklist of pentatomids of the Atlantic Rain Forest and highlight the importance of preserving natural areas in the Atlantic Rain Forest.

**Keywords.** Brazil; Geographic distribution; Pentatomidae; São Paulo; Stink bugs.

## INTRODUCTION

The Atlantic Rain Forest is South America's second-largest tropical forest, one of Earth's most biodiverse regions, considered a biodiversity hotspot (Myers *et al.*, 2000; Marques *et al.*, 2021). It includes high richness along its distribution, with several endemic species, but it is also one of the most degraded and threatened tropical forests in the world, with a current coverage of only 28% of native vegetation (Rezende *et al.*, 2018).

The Serra do Mar is an important region within the Atlantic Rain Forest, including high species richness and areas of endemism for different groups of organisms (*i.e.*, Murray-Smith *et al.*, 2009; DaSilva *et al.*, 2015; Oliveira *et al.*, 2015; Hoffmeister & Ferrari, 2016; Barbo *et al.*, 2021; Lago-Barcia *et al.*, 2020), and also part of forest stable refuge areas (*i.e.*, Carnaval *et al.*, 2009; Porto *et al.*, 2013). The Boraceia Biological Station (BBS) represents a natural protected area of the Serra do Mar in one of Brazil's most urbanized states and part of the huge São Paulo Macrometropolis area, an extensive degraded landscape region of Brazil's natural heritage

(Travassos *et al.*, 2020). Located in the Salesópolis municipality (23°39'16"S and 45°53'30"W), the BBS is characterized as a dense rainforest, with high vegetation cover forming humid environments and some stretches of forest edge, natural (along watercourses) or formed by human actions (opening of roads) (Fig. 1). Furthermore, the BBS is explored for research, conservation, and environmental education, administered by the Zoology Museum of the University of São Paulo, representing one of the most well sampled and monitored protected areas of the Atlantic Rain Forest (Dixo & Verdade, 2006; Duarte *et al.*, 2024).

Biodiversity inventories are valuable sources for conservation (Bungartz *et al.*, 2012) and management practices (*e.g.*, Kenis *et al.*, 2007), as well as tools for tracking environmental changes over time (Hernández *et al.*, 2014). They also serve as a basis for ecological (Cadotte *et al.*, 2006), evolutionary and biogeographical studies (Mora *et al.*, 2007), and the identification of knowledge gaps on biodiversity assessments (Araújo *et al.*, 2019). In the BBS, several biological inventories were performed over the last 70 years, many of them resulting in

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**Figure 1.** Boraceia Biological Station: common phytophysiognomies where recent specimens were collected.

significant descriptions and lists of local biodiversity (*e.g.*, Travassos & Kloss, 1958; Custodio-Filho, 1989; Heyer *et al.*, 1990; Ferro & Diniz, 2007; Cavarzere *et al.*, 2010; Froehlich, 2010; Wilms *et al.*, 2010; Viviani & Santos, 2012; Albertoni *et al.*, 2018; Lopes *et al.*, 2020). However, to date, no inventory has specifically focused on the diversity of stink bugs.

Pentatomidae is a family of stink bugs with worldwide distribution (Grazia *et al.*, 2015) and well-established limits (Grazia *et al.*, 2024b). Its classification is under revision, and currently it is organized into up to ten subfamilies: Aphyllinae, Asopinae, Cyrtocorinae, Discocephalinae, Edessinae, Pentatominae, Phyllocephalinae, Podopinae, Serbaninae and Strotarsinae (Grazia *et al.*, 2008a; 2024b). Asopinae is the only subfamily with predatory habits. The remaining pentatomids are phytophagous, feeding mainly on herbaceous vegetation at the forest edge. Many phytophagous species are found in agricultural landscapes, feeding on various crops, and presenting a significant economic impact (Grazia *et al.*, 2015).

Pentatomids are commonly found in all Brazilian's biomes and ecoregions, with more than 940 known species recorded in the country, including several endemic species (Grazia *et al.*, 2024a). Considered a well-known group, new or rare species are still discovered every year (*e.g.*, Garbelotto *et al.*, 2014; Roell *et al.*, 2021; López *et al.*, 2023). It is estimated that more than 400 species inhabit the Atlantic Rain Forest (Maggio, 2014), with several species exclusively found in the region. Areas of high species richness and endemism based on stink bugs fauna at different scales were established for the Atlantic Rain

Forest (Ferrari *et al.*, 2010; Poester-Carvalho *et al.*, 2023). While a positive sampling bias towards densely populated areas has been observed (Poester-Carvalho *et al.*, 2023), complementary sampling within these regions remains important for enhancing our understanding of stink bug biodiversity within the Atlantic Rain Forest. This work represents the first list of pentatomids occurring in the Boraceia Biological Station. We also present a preliminary list of the pentatomids with confirmed records in the Atlantic Forest region and discuss the results in light of the stink bug diversity and collection data.

## MATERIAL AND METHODS

We studied the pentatomids deposited in the Hemiptera collection of the Museu de Zoologia, of the University of São Paulo (MZSP) identifying the specimens collected in the Boraceia Biological Station over the years. The species identifications were determined through comparisons with photos of type specimens, identification keys, or other taxonomic treatments provided in the literature containing descriptions and redescription of each species. We also included information recorded in the BBS in the literature.

The information of the specimens from Boraceia Biological Station is listed in Table 1 as follows: Subfamily, tribe, species name, specimens (mentioning the quantity and sex; ♀ for female and ♂ for male), collector (data provided in the labels or literature), date (date of collection

**Table 1.** Pentatomids from Boraceia Biological Station. For explanation of the data contained in each column, refer to 'Materials and Methods'.

| Subfamily    | Tribe           | Species                                              | Sex    | Collector                                  | Date           | Museum<br>depositories | References                                                                                             | Records in Brazilian regions                                  | Data origin<br>(Material<br>examined) |
|--------------|-----------------|------------------------------------------------------|--------|--------------------------------------------|----------------|------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------|
| Asopinae     |                 | <i>Alcaeorhynchus grandis</i> (Dallas, 1851)         | 2♀     | K. Lenko                                   | 18.x.1960      | MZSP                   | Thomas, 1992 – for the species identification                                                          | Amazonia, Atlantic forest, Caatinga, Cerrado, Pampa           | this work                             |
|              |                 | <i>Podisus distinctus</i> (Stål, 1860)               | 1♂     | Exc. DZUSP                                 | 21-22.x.1989   | MZSP                   | Brugnera <i>et al.</i> , 2020 – consulted to obtain collection data in the BBS                         | Atlantic forest                                               | literature                            |
|              |                 |                                                      | 1♀     | Expedição MZUSP                            | 19-22.x.2012   | MZSP                   | Brugnera <i>et al.</i> , 2020 – for the species identification                                         |                                                               | this work                             |
|              | Discocephalinae | <i>Janeirana bergi</i> (Kornilev, 1956)              | 1♀     | B. Genevicius, R. Carrenho, F. Lanza       | 19-21.xi.2012  | MZSP                   | Sampaio <i>et al.</i> , 2024 – for the species identification and to obtain collection data in the BBS | Atlantic forest                                               | this work                             |
|              |                 |                                                      | 1♀, 1♂ | F. Lane                                    | 05.ix.1963     | MZSP                   |                                                                                                        |                                                               | literature                            |
|              |                 | <i>Janeirana insignis</i> Distant, 1911              | 1♂     | Rabello                                    | 24.iii.1961    | UFRG                   | Sampaio <i>et al.</i> , 2024 – consulted to obtain collection data in the BBS                          | Atlantic forest                                               | literature                            |
|              |                 |                                                      | 1♂     | Reichardt                                  | 25.iii.1961    | UFRG                   |                                                                                                        |                                                               | literature                            |
|              | Edessinae       |                                                      | 1♀     | Rabello                                    | 21.x.1964      | MZSP                   |                                                                                                        |                                                               | literature                            |
|              |                 |                                                      | 1♀     | L.R. Silva                                 | 21.i.1966      | UFRG                   |                                                                                                        |                                                               | literature                            |
|              |                 |                                                      | 1♀     | Vanin & Leme                               | 03-08.i.1974   | MZSP                   |                                                                                                        |                                                               | literature                            |
|              |                 |                                                      | 1♂     | Travassos                                  | xii.1946       | UFRG                   |                                                                                                        |                                                               | literature                            |
|              |                 |                                                      | 4♂     | F. Lane                                    | 05.ix.1963     | MZSP                   |                                                                                                        |                                                               | literature                            |
| Pentatominae | Carpocorini     |                                                      | 2♂     | F. Lane                                    | 05.ix.1963     | MZSP                   | Sampaio <i>et al.</i> , 2024 – for the species identification                                          |                                                               | this work                             |
|              |                 | <i>Janeirana roellae</i> Sampaio & Campos, 2024      | 1♀     | Rabello                                    | viii.1962      | DZUP (paratype)        | Sampaio <i>et al.</i> , 2024 – consulted to obtain collection data in the BBS                          | Atlantic forest                                               | literature                            |
|              |                 | <i>Janeirana stenosa</i> Sampaio & Campos, 2024      | 1♀     | Rabello & Medeiros                         | 15.viii.1963   | UFRG (paratype)        | Sampaio <i>et al.</i> , 2024 – consulted to obtain collection data in the BBS                          | Atlantic forest                                               | literature                            |
|              |                 | <i>Schaefferella incisa</i> (Herrich-Schäffer, 1839) | 1♂     | Lenko & Reichardt                          | 03-08.iii.1962 | MZSP                   | Rolston, 1992 – for the species identification                                                         | Atlantic forest                                               | this work                             |
|              |                 | <i>Edessa herrichi</i> Berg, 1892                    | 1♂     | P. Biasi                                   | 28.ii.1967     | MZSP                   | Herrich-Schäffer, 1844; Berg, 1892 – for the species identification                                    | Atlantic forest                                               | this work                             |
|              |                 | <i>Edessa loxdalii</i> Westwood, 1837                | 1♂     | Exc. DZ – IBUSP                            | 24-25.iv.1999  | MZSP                   | Westwood, 1837; Lucini & Panizzi, 2016; Silva <i>et al.</i> , 2018 – for the species identification    | Amazonia, Cerrado, Atlantic forest                            | this work                             |
|              |                 |                                                      | 1♂     | Lenko & Reichardt                          | 03-08.iii.1962 |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 1♀, 1♂ | S. Casari, T. Roell, T. Silva & T. Polizei | 16-17.ii.2024  | MZSP                   |                                                                                                        |                                                               | this work                             |
|              |                 | <i>Edessa rufomarginata</i> (De Geer, 1773)          | 2♂     | Exc. DZUSP                                 | x.1983         | MZSP                   | Silva <i>et al.</i> , 2004; 2006 – for the species identification                                      | Amazonia, Atlantic forest, Caatinga, Cerrado, Pampa, Pantanal | this work                             |
|              |                 |                                                      | 1♂     | Exc. DZUSP                                 | 08-09.x.1983   |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 2♀     | Exc. DZUSP                                 | 15-16.x.1983   |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 6♀, 1♂ | Lenko & Reichardt                          | 03-08.iii.1962 |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 1♀     | F. Gomes                                   | 15.vi.1982     |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 3♀, 1♂ | Exc. DZ – IBUSP                            | 24-25.iv.1999  |                        |                                                                                                        |                                                               | this work                             |
|              |                 |                                                      | 1♀     | Exc. BIZ430 DZUSP                          | 11-12.v.2013   |                        |                                                                                                        |                                                               | this work                             |
|              |                 | <i>Pygoda polita</i> (Lepelletier & Serville, 1825)  | 1♂     | F. Werner & H. Reichardt                   | 25.ii.1963     | MZSP                   | Fernandes <i>et al.</i> , 2018 – for the species identification                                        | Amazonia, Atlantic forest, Cerrado, Pampa                     | this work                             |
|              |                 |                                                      | 1♂     | H.M. Canter                                | 11.v.1961      |                        |                                                                                                        |                                                               | this work                             |
|              |                 | <i>Adustanotus grandis</i> (Rolston, 1978)           | 1♀     | Exc. DZUSP                                 | 15-16.x.1983   | MZSP                   | Bianchi <i>et al.</i> , 2016a; Bianchi, 2021 – for the species identification                          | Atlantic forest                                               | this work                             |
|              |                 | <i>Caonabo pseudoscylax</i> (Bergroth, 1891)         | 1♀, 2♂ | Exc. DZ – IBUSP                            | 29-30.iii.2003 | MZSP                   | Rolston, 1974 – for the species identification                                                         | Atlantic forest, Pampa                                        | this work                             |
|              |                 |                                                      |        |                                            |                |                        |                                                                                                        |                                                               |                                       |

| Subfamily    | Tribe        | Species                                                           | Sex     | Collector                                 | Date           | Museum<br>depositories | References                                                                                      | Records in Brazilian regions                        | Data origin<br>(Material<br>examined) |
|--------------|--------------|-------------------------------------------------------------------|---------|-------------------------------------------|----------------|------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|
| Diceranoeini | Diceranoeini | <i>Dicranops furcatus</i> (Fabricius, 1775)                       | 1♀, 1♂  | S. Casari, T. Roel, T. Silva & T. Polizei | 16-17.ii.2024  | MZSP                   | Pook-da-Silva <i>et al.</i> , 2013; Barão <i>et al.</i> , 2020 – for the species identification | Atlantic forest, Pampa                              | this work                             |
|              |              |                                                                   | 2♀      | Genevicius & Schwertner                   | 28-29.i.2011   | MZSP                   | Grazia, 1978 – for the species identification                                                   | Atlantic forest                                     | this work                             |
|              |              | <i>Dicranops (Dicranops) punctatus</i> Spinola, 1837              | 2♀, 1♂  | Genevicius & Schwertner                   | 28-29.i.2011   | MZSP                   |                                                                                                 | Atlantic forest                                     | this work                             |
|              |              |                                                                   | 1♀      | B. Genevicius, R. Carrenho, F. Lanza      | 19-21.xi.2012  | MZSP                   |                                                                                                 |                                                     | this work                             |
|              |              | <i>Euschistus (Lycipta) picticornis</i> Stål., 1872               | 1♀      | S. Casari, T. Roel, T. Silva & T. Polizei | 16-17.ii.2024  | MZSP                   |                                                                                                 | Atlantic forest, Pampa                              | this work                             |
|              |              |                                                                   | 1♀      | L. Silva & H. Reichardt                   | 12.ii.1963     | MZSP                   | Bunde <i>et al.</i> , 2010; Weiler <i>et al.</i> , 2016 – for the species identification        | Atlantic forest, Pampa                              | this work                             |
|              |              | <i>Euschistus (Lycipta) triangulator</i> (Herrich-Schäffer, 1842) | 1♀      | Exc. DZUSP                                | 15-16.x.1983   |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♂      | L. Silva & H. Reichardt                   | 12.ii.1963     | MZSP                   | Bunde <i>et al.</i> , 2010; Weiler <i>et al.</i> , 2016 – for the species identification        | Atlantic forest, Cerrado                            | this work                             |
|              |              |                                                                   | 1♂      | F. Gomes                                  | 15.vi.1982     |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | K. Lenko                                  | 11.xi.1960     |                        |                                                                                                 |                                                     | this work                             |
| Mormideaini  | Mormideaini  | <i>Galedanta compastoides</i> Breddin, 1906                       | 2♀      | F. Lane                                   | 05.ii.1960     | MZSP                   | Grazia, 1967; 1981 – for the species identification                                             | Amazonia, Atlantic forest                           | this work                             |
|              |              |                                                                   | 1♂      | P. Biasi                                  | 27.ii.1967     |                        |                                                                                                 |                                                     | this work                             |
|              |              | <i>Mormidea cornicollis</i> Stål., 1860                           | 1♂      | Lenko & Reichardt                         | 03-08.iii.1962 |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♂      | Reichardt                                 | 28.iv.1961     | MZSP                   | Rolston, 1978c – for the species identification                                                 | Atlantic forest, Pampa                              | this work                             |
|              |              |                                                                   | 1♂      | Exc. DZ – IBUSP                           | iv.1997        |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 3♀, 3♂  | Genevicius & Schwertner                   | 28-29.i.2011   |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀, 4♂  | B. Genevicius, R. Carrenho, F. Lanza      | 19-21.xi.2012  |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 12♀, 7♂ | S. Casari, T. Roel, T. Silva & T. Polizei | 16-17.ii.2024  |                        |                                                                                                 |                                                     | this work                             |
|              |              | <i>Mormidea v-luteum</i> (Lichtenstein, 1796)                     | 5♀, 5♂  | L. Silva & H. Reichardt                   | 12.ii.1963     | MZSP                   | Rolston, 1978c – for the species identification                                                 | Amazonia, Atlantic forest, Pampa                    | this work                             |
|              |              |                                                                   | 1♀      | K. Lenko                                  | 18.x.1960      |                        |                                                                                                 |                                                     | this work                             |
| Oebalusini   | Oebalusini   |                                                                   | 3♀, 1♂  | K. Lenko                                  | 01-06.iii.1962 |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | Reichardt                                 | 04.i.1962      |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 3♀, 4♂  | Exp. Mus. Zool.                           | 14-18.xi.1973  |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 7♀, 2♂  | Genevicius & Schwertner                   | 28-29.i.2011   |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 4♀, 2♂  | Exc. DZ – IBUSP                           | 29-30.iii.2003 |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 6♀, 3♂  | B. Genevicius, R. Carrenho, F. Lanza      | 19-21.xi.2012  |                        |                                                                                                 |                                                     | this work                             |
|              |              | <i>Mormidea ypsilon</i> (Linnaeus, 1758)                          | 10♀, 2♂ | S. Casari, T. Roel, T. Silva & T. Polizei | 16-17.ii.2024  |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 2♀, 3♂  | Genevicius & Schwertner                   | 28-29.i.2011   | MZSP                   | Rolston, 1978c – for the species identification                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | Exc. DZ – IBUSP                           | iv.1997        |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 5♀, 2♂  | S. Casari, T. Roel, T. Silva & T. Polizei | 16-17.ii.2024  |                        |                                                                                                 |                                                     | this work                             |
| Pentatominae | Pentatominae | <i>Oebalus ypsilon</i> (Linnaeus, 1758)                           | 1♀      | Exc. DZ – IBUSP                           | 29-30.iii.2003 | MZSP                   | Sailer, 1944 – for the species identification                                                   | Amazonia, Atlantic forest, Caatinga, Cerrado, Pampa | this work                             |
|              |              |                                                                   | 1♂      | Genevicius & Schwertner                   | 28-29.i.2011   |                        |                                                                                                 |                                                     | this work                             |
|              |              | <i>Pentatomina beckeri</i> (Grazia & Barcellos, 2004)             | 1♀      | Genevicius & Schwertner                   | 28-29.i.2011   | MZSP                   | Grazia & Barcellos, 2004 – for the species identification                                       | Atlantic forest                                     | this work                             |
|              |              |                                                                   | 1♂      | Exc. DZUSP                                | x.1985         |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | Exc. DZ – IBUSP                           | 29-30.iii.2003 | MZSP                   | Sailer, 1944 – for the species identification                                                   | Amazonia, Atlantic forest, Caatinga, Cerrado, Pampa | this work                             |
|              |              |                                                                   | 1♂      | Genevicius & Schwertner                   | 28-29.i.2011   |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | Genevicius & Schwertner                   | 28-29.i.2011   | MZSP                   | Grazia & Barcellos, 2004 – for the species identification                                       | Atlantic forest                                     | this work                             |
|              |              |                                                                   | 1♂      | Exc. DZUSP                                | x.1985         |                        |                                                                                                 |                                                     | this work                             |
|              |              |                                                                   | 1♀      | Exc. DZ – IBUSP                           | 29-30.iii.2003 | MZSP                   | Sailer, 1944 – for the species identification                                                   | Amazonia, Atlantic forest, Caatinga, Cerrado, Pampa | this work                             |
|              |              |                                                                   | 1♂      | Genevicius & Schwertner                   | 28-29.i.2011   |                        |                                                                                                 |                                                     | this work                             |

| Subfamily     | Tribe                                                            | Species | Sex    | Collector                                | Date               | Museum<br>depositories  | References                                                                                                                       | Records in Brazilian regions              | Data origin<br>(Material<br>examined) |
|---------------|------------------------------------------------------------------|---------|--------|------------------------------------------|--------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|
| Catacanthini  | <i>Aroera</i> ( <i>Euopta</i> ) <i>spectabilis</i> (Drury, 1782) |         | 1♀     | W.D. Edmonds                             | 28. ix-08. x. 1965 | MZSP                    | Rider, 1992 – for the species identification                                                                                     | Atlantic forest                           | this work                             |
|               |                                                                  |         | 2♂     | Reichardt                                | 13-18. iv. 1961    |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♂     | K. Lenko                                 | 18. x. 1960        |                         |                                                                                                                                  |                                           | this work                             |
| Chlorocorini  | <i>Chloropepla</i> <i>vigens</i> (Stål, 1860)                    |         | 1♀     | Expedição "Fora Temer" MZSP              | 16-20. xi. 2017    | MZSP                    | Greve <i>et al.</i> , 2013 – for the species identification                                                                      | Atlantic forest, Pampa                    | this work                             |
|               |                                                                  |         | 2♀     | K. Lenko                                 | 18. x. 1960        |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Exc. DZ – IBUSP                          | iv. 1997           |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Exc. DZ – IBUSP                          | 24-25. iv. 1999    |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Exc. DZ – IBUSP                          | 29-30. iii. 2003   |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 3♀, 2♂ | B. Genevicius, R. Carrenho, F. Lanza     | 19-21. xi. 2012    |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Reichardt                                | 13-18. iv. 1961    | MZSP                    | Grazia-Vieira, 1972 – for the species identification                                                                             | Atlantic forest, Pampa                    | this work                             |
| Nezarini      | <i>Mayrinia</i> <i>curvidens</i> (Mayr, 1864)                    |         | 1♂     | EX. Rabello                              | i. 1950            |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♂     | K. Lenko                                 | 11. xi. 1960       | MZSP                    | Grazia-Vieira, 1972 – for the species identification                                                                             | Amazonia, Cerrado, Atlantic forest        | this work                             |
|               |                                                                  |         | 1♀     | Exc. BIZ430 DZUSP                        | 11-12. v. 2013     | MZSP                    | Schwertner & Grazia, 2007; Servino & Schwertner, 2020 – for the species identification                                           | Amazonia, Atlantic forest, Cerrado, Pampa | this work                             |
|               |                                                                  |         | 1♂     | K. Lenko                                 | 11. xi. 1960       | MZSP                    | Thomas & Yonke, 1990 – for the species identification                                                                            | Atlantic forest                           | this work                             |
|               |                                                                  |         | 1♀, 1♂ | Lenko & Reichardt                        | 03-08. iii. 1962   |                         |                                                                                                                                  |                                           | this work                             |
| Pentatomini   | <i>Banasa</i> <i>derivata</i> (Walker, 1867)                     |         | 1♂     | W.J. Knight                              | 23. ii. 1969       | NHMUK (holotype)        | Thomas & Yonke, 1990; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014 – consulted to obtain collection data in the BBS | Atlantic forest                           | literature                            |
|               |                                                                  |         | 3♀, 3♂ | W.J. Knight                              | 23. ii. 1969       | NHMUK (paratypes)       |                                                                                                                                  |                                           | literature                            |
|               |                                                                  |         | 1♂     | L. & E. Buckup, M. Carrera & L. Trav. F. | 17-19. i. 1957     | MZSP                    |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Zunti                                    | 15. ii. 1962       |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | H.M. Canter                              | 11. v. 1961        |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀, 2♂ | K. Lenko                                 | 01-06. iii. 1962   |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 3♀, 1♂ | K. Lenko                                 | 11. v. 1961        |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 3♀, 1♂ | Lenko & Reichardt                        | 03-08. iii. 1962   |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 2♀, 2♂ | E.X. Rabello                             | 12. ii. 1964       |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 6♀, 5♂ | Rabello                                  | 12. ii. 1964       |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 2♂     | F. Gomes                                 | 08. vii. 1982      | MZSP                    | Thomas & Yonke, 1990; Bianchi <i>et al.</i> , 2014 – for the species identification                                              | Atlantic forest                           | this work                             |
|               |                                                                  |         | 1♀, 1♂ | W.J. Knight                              | 23. ii. 1969       | DBTC, NHMUK (paratypes) | Thomas & Yonke, 1990 – for the species identification                                                                            | Atlantic forest, Pampa                    | this work                             |
|               |                                                                  |         | 1♀, 1♂ | Lenko & Reichardt                        | 03-08. iii. 1962   | MZSP                    | Garbelotto & Campos, 2014 – for the species identification                                                                       | Atlantic forest, Pampa                    | this work                             |
|               |                                                                  |         | 1♀     | L. Silva & H. Reichardt                  | 12. ii. 1963       |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | Reichardt                                | 13-18. iv. 1961    |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | L. & E. Buckup, M. Carrera & L. Trav. F. | 17-19. i. 1957     |                         |                                                                                                                                  |                                           | this work                             |
| <i>Serdia</i> | <i>Serdia</i> <i>concolor</i> Ruckes, 1958                       |         | 1♂     | Genevicius & Schwertner                  | 28-29. i. 2011     |                         |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♂     | Exp. Mus. Zool.                          | 14-18. xi. 1973    | MZSP                    | Fortes & Grazia, 2005 – for the species identification                                                                           | Atlantic forest, Pampa                    | this work                             |
|               |                                                                  |         | 1♀     | Travassos                                | xii. 1946          | FIOC                    | Fortes & Grazia, 2005 – for the species identification                                                                           | Atlantic forest, Pampa                    | this work                             |
|               |                                                                  |         | 1♀     | F. Werner & H. Reichardt                 | 25. ii. 1963       | MZSP                    |                                                                                                                                  |                                           | this work                             |
|               |                                                                  |         | 1♀     | L. Silva & H. Reichardt                  | 12. ii. 1963       | MZSP (paratype)         | Fortes & Grazia, 2005 – for the species identification                                                                           | Atlantic forest                           | this work                             |

of each specimen; standardized as *collection day.month in Roman numerals.year of the collection*), museum depositories (most of them are deposited in MZSP, but some records found in the literature mention other museums also as depositories), references (the references consulted for species identification and/or record at BBS), and distribution (other regions whenever the case). The references for distribution are listed in the distribution list for each species in the results section. It is also indicated when distribution records represent new information.

#### Acronyms of the collections mentioned in this work:

**DBTC** = Donald B. Thomas Collection, Weslaco, Texas, USA; **DZUP** = Museu de Entomologia Pe. Jesus Santiago Moure, Universidade Federal do Paraná, Curitiba, Brazil; **FIOC** = Fundação Instituto Oswaldo Cruz, Rio de Janeiro, Brazil; **MZSP** = Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil; **NHMUK** = Natural History Museum, London, United Kingdom; **UFRG** = Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.

The Brazilian states and other countries were listed in a North-to-South and West-to-East sequence. High-definition photographs of each species are provided (Figs. 2-5). A limitation of the list is the lack of data on the methodologies applied to field collections, that is, whether the collections were made actively or passively, which tools were used, and which time of the day. This information was not available on the specimens' labels.

For the exploratory comparison, we also compiled a preliminary checklist of Pentatomidae species that occur in the Atlantic Rain Forest. This list is based on the literature records, indicated separately for each species (Table 2). The search was accomplished based on preliminary list of species obtained from on-line catalogues (Grazia et al., 2024a; Dellapé et al., 2024), cross-referenced with recent published papers regarding stink bug fauna of the Atlantic Forest (Schmidt & Barcellos, 2007; Campos et al., 2009; Weiler et al., 2012; Bianchi et al., 2014; Garbelotto & Campos, 2014; Dellapé et al., 2015a; Dellapé et al., 2015b; Firmino et al., 2017; Carrenho et al., 2018; Poester-Carvalho et al., 2023). All taxonomic papers published for each taxon cited in the on-line catalogues were assessed (up to May 2024), including the original descriptions of each species whenever available (see Table 2). In a few cases, we used information labels from other collections as sources to confirm the record of the species in the Atlantic Forest (Table 2). As indicated in our objectives, the list is not exhaustive and some species occurring in the region may be missing; nonetheless, all species in our list have at least one referenced record in the Atlantic Forest and will serve for comparative purposes and a basis for future studies in this important natural area.

## RESULTS

### Stink Bug species in the Boraceia Biological Station

We list 36 species of Pentatomidae collected in the Boraceia Biological Station between 1946 and 2024.

The most speciose subfamily in the region was Pentatominae, with 25 species, followed by Discocephalinae (five species), Edessinae (four species), and Asopinae (two species) (Table 1). Six species are recorded for the first time in the State of São Paulo: *Banasa derivata* (Walker, 1867), *Banasa induta* Stål, 1860, *Caonabo pseudoscylax* (Bergroth, 1891), *Edessa herrichi* Berg, 1892, *Mayrinia variegata* (Distant, 1880), and *Mormidea (Mormidea) cornicollis* Stål, 1860. More than 80% of the species listed are new locality records for the BBS (Table 1).

#### Subfamily Asopinae

##### *Alcaeorrhynchus grandis* (Dallas, 1851) (Fig. 2A)

**Distribution: Brazil:** Amazonas, Pará, Maranhão, Piauí, Minas Gerais, Espírito Santo, Mato Grosso, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul (Silva et al., 2018; Grazia et al., 2024a). **USA, Mexico, Cuba, Honduras, Jamaica, Trinidad and Tobago, Colombia, French Guiana, Ecuador, Peru, Bolivia, Paraguay, Argentina, Uruguay** (Castro-Huertas et al., 2022).

##### *Podisus distinctus* (Stål, 1860) (Fig. 2B)

**Distribution: Brazil:** Espírito Santo, Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Brugnera et al., 2020).

**Comments:** Brugnera et al. (2020) synonymized *Arma submarginata* Walker, 1867 with *P. distinctus*, explaining that Thomas (1992) considered *Arma submarginata* a synonym of *Arma ventralis* Dallas, 1851 (currently *Podisus ventralis* (Dallas)). For this reason, identifying these species was confusing for a long time, causing many locality points for both *P. distinctus* and *P. ventralis* to be confused in the literature.

#### Subfamily Discocephalinae

##### Ochlerini

##### *Janeirona bergi* (Kormilev, 1956) (Fig. 2C)

**Distribution: Brazil:** Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul. **Argentina** (Sampaio et al., 2024).

##### *Janeirona insignis* Distant, 1911 (Fig. 2D)

**Distribution: Brazil:** Rio de Janeiro, São Paulo, Santa Catarina (Sampaio et al., 2024).

Table 2. Preliminary checklist of Pentatomid species from the Atlantic Rainforest.

| Subfamily    | Tribe                | Genus                                                          | Species                                                                                                                                             | References |
|--------------|----------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Asopinae     | Alcaeorrhynchus      | <i>Alcaeorrhynchus grandis</i> (Dallas, 1851)                  | Grazia & Schwertner, 2011; Bianchi et al., 2014                                                                                                     |            |
|              |                      | <i>Brontocoris nigrolimbatus</i> (Spinola, 1852)               | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Brontocoris tabidus</i> (Signoret, 1863)                    | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              | <i>Coryzorhaphis</i> | <i>Coryzorhaphis leuacephala</i> Spinola, 1837                 | Gapon & Konstantinov, 2006                                                                                                                          |            |
|              |                      | <i>Disocera</i>                                                | unpublished data from MZSP collection                                                                                                               |            |
|              | <i>Heteroscelis</i>  | <i>Heteroscelis cocinea</i> (Fabricius, 1798)                  | Sampaio et al., 2023                                                                                                                                |            |
|              |                      | <i>Heteroscelis bimaculata</i> (Walker, 1867)                  | Grazia & Schwertner, 2011; Sampaio et al., 2023                                                                                                     |            |
|              |                      | <i>Heteroscelis robustus</i> Thomas, 1992                      | Grazia & Schwertner, 2011; Sampaio et al., 2023; Dellapé et al., 2024 – BiodAR                                                                      |            |
|              | <i>Mammessulus</i>   | <i>Heteroscelis servillii</i> Laporte, 1833                    | Grazia & Schwertner, 2011; Sampaio et al., 2023; Dellapé et al., 2024 – BiodAR                                                                      |            |
|              |                      | <i>Mammessulus nigricornis</i> (Stål, 1864)                    | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              | <i>Opomus</i>        | <i>Opomus catena</i> (Drury, 1782)                             | Dellapé et al., 2003; Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011                                                                          |            |
|              |                      | <i>Opomus cruentus</i> (Burmeister, 1835)                      | unpublished data from DZUP collection                                                                                                               |            |
|              |                      | <i>Opomus festivus</i> (Dallas, 1851)                          | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Opomus salamandra</i> (Burmeister, 1835)                    | Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                                                                                            |            |
|              |                      | <i>Ornithosoma</i>                                             | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              | <i>Podisus</i>       | <i>Ornithosoma rivierei</i> Kormilev, 1957                     | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Podisus aenescens</i> (Stål, 1860)                          | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Podisus australis</i> Berg, 1879                            | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Podisus crassimargo</i> (Stål, 1860)                        | Schmidt & Barcellos, 2007; Campos et al., 2009; Weiler et al., 2012; Bianchi et al., 2014                                                           |            |
|              |                      | <i>Podisus distinctus</i> (Stål, 1860)                         | Schmidt & Barcellos, 2007; Campos et al., 2009; Grazia & Schwertner, 2011; Weiler et al., 2012; Bianchi et al., 2014; Poester-Carvalho et al., 2023 |            |
|              |                      | <i>Podisus fuscus</i> (Dallas, 1851)                           | Poester-Carvalho et al., 2023                                                                                                                       |            |
|              |                      | <i>Podisus nigripinus</i> (Dallas, 1851)                       | Schmidt & Barcellos, 2007; Campos et al., 2009; Grazia & Schwertner, 2011; Bianchi et al., 2014; Dellapé et al., 2015a; Dellapé et al., 2015b       |            |
|              |                      | <i>Podisus pallipes</i> (Dallas, 1851)                         | Schmidt & Barcellos, 2007; Weiler et al., 2012; Dellapé et al., 2015b                                                                               |            |
|              |                      | <i>Podisus ventralis</i> (Dallas, 1851)                        | Campos et al., 2009                                                                                                                                 |            |
|              |                      | <i>Podisus volxemi</i> Distant, 1887                           | Roell et al., 2023                                                                                                                                  |            |
| Cyrtocorinae | <i>Stiretrus</i>     | <i>Stiretrus decastigmus</i> (Herrich-Schäffer, 1838)          | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Stiretrus deeniguttatus</i> (Lepeletier & Serville, 1828)   | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                                                                 |            |
|              |                      | <i>Stiretrus erythrocephalus</i> (Lepeletier & Serville, 1828) | Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                                                                                            |            |
|              |                      | <i>Stiretrus loratus</i> Germar, 1839                          | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Supputius cincticeps</i> (Stål, 1858)                       | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                                          |            |
|              | <i>Tylospilus</i>    | <i>Supputius typicus</i> Distant, 1889                         | Grazia & Schwertner, 2011                                                                                                                           |            |
|              |                      | <i>Tylospilus cloelia</i> (Stål, 1862)                         | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              | <i>Tynacantha</i>    | <i>Tylospilus nigrobinotatus</i> (Berg, 1879)                  | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              |                      | <i>Tynacantha marginata</i> Dallas, 1851                       | Campos et al., 2009; Grazia & Schwertner, 2011; Dellapé et al., 2015a; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                 |            |
|              |                      | <i>Tynnacoris</i>                                              | Dellapé et al., 2024 – BiodAR                                                                                                                       |            |
|              | <i>Cyrtocoris</i>    | <i>Tynnacoris nigricipes</i> Thomas, 1992                      | Grazia & Schwertner, 2011                                                                                                                           |            |
|              |                      | <i>Tynnacoris rex</i> Thomas, 1982                             | Packauskas & Schaefer, 1998; Perger et al., 2021                                                                                                    |            |
|              |                      | <i>Ceratozygum horridum</i> (Germar, 1839)                     | Packauskas & Schaefer, 1998; Dellapé et al., 2024 – BiodAR                                                                                          |            |
|              |                      | <i>Cyrtocoris andicola</i> Horváth, 1923                       | Packauskas & Schaefer, 1998; Dellapé et al., 2024 – BiodAR                                                                                          |            |
|              |                      | <i>Cyrtocoris egeris</i> Packauskas & Schaefer, 1998           | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Bianchi et al., 2014; Firmino et al., 2017; Dellapé et al., 2024 – BiodAR                     |            |
|              | <i>Cyrtocoris</i>    | <i>Cyrtocoris gibbus</i> (Fabricius, 1803)                     | Packauskas & Schaefer, 1998; Schmidt & Barcellos, 2007; Dellapé et al., 2024 – BiodAR                                                               |            |
|              |                      | <i>Cyrtocoris obtusus</i> Horváth, 1916                        | Packauskas & Schaefer, 1998; Dellapé et al., 2024 – BiodAR                                                                                          |            |
|              |                      | <i>Cyrtocoris simplex</i> Horváth, 1916                        | Packauskas & Schaefer, 1998                                                                                                                         |            |
|              |                      |                                                                |                                                                                                                                                     |            |
|              |                      |                                                                |                                                                                                                                                     |            |

| Subfamily       | Tribe          | Genus            | Species                                                                    | References                                                                                                |
|-----------------|----------------|------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Discorephalinae | Discorephalini | Pseudocyrtonotus | <i>Cyrtonotus trigonus</i> (Germar, 1839)                                  | Packauskas & Schaefer, 1998; Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                     |
|                 |                |                  | <i>Pseudocyrtonotus laceratus</i> (Herrich-Schäffer, 1836)                 | Packauskas & Schaefer, 1998                                                                               |
|                 |                | Achvilamma       | <i>Achvilamma vicina</i> Signoret, 1851                                    | Ruckes, 1966b                                                                                             |
|                 |                |                  | <i>Agacitius australis</i> Becker & Grazia, 1992                           | Becker & Grazia, 1992b                                                                                    |
|                 |                | Alveostethus     | <i>Alveostethus latifrons</i> Dallas, 1851                                 | Schmidt & Barcellos, 2007; Dellapé et al., 2015a                                                          |
|                 |                |                  | <i>Alveostethus politus</i> (Signoret, 1851)                               | Schmidt & Barcellos, 2007; Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR                           |
|                 |                | Antiteuchus      | <i>Alveostethus pseudopolitus</i> (Ruckes, 1957)                           | Schmidt & Barcellos, 2007; Dellapé et al., 2024 – BiodAR                                                  |
|                 |                |                  | <i>Antiteuchus amplius</i> (Walker, 1867)                                  | Poester-Carvalho et al., 2023                                                                             |
|                 |                |                  | <i>Antiteuchus macropsis</i> (Perty, 1834)                                 | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                  |
|                 |                |                  | <i>Antiteuchus melanoleucus</i> Ruckes, 1961                               | Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                              |
|                 |                |                  | <i>Antiteuchus mixtus</i> (Fabricius, 1787)                                | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                  |
|                 |                |                  | <i>Antiteuchus nebulosus</i> Ruckes, 1964                                  | Poester-Carvalho et al., 2023                                                                             |
|                 |                |                  | <i>Antiteuchus radians</i> Ruckes, 1964                                    | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                  |
|                 |                |                  | <i>Antiteuchus sepulcralis</i> (Fabricius, 1803)                           | Dellapé et al., 2015a; Firmino et al., 2017; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR |
|                 |                |                  | <i>Antiteuchus tessellatus</i> (Westwood, 1837)                            | Firmino et al., 2017; Poester-Carvalho et al., 2023                                                       |
|                 |                |                  | <i>Antiteuchus tripterus</i> (Fabricius, 1787)                             | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                   |
|                 |                | Cataulax         | <i>Cataulax eximius</i> (Stål, 1860)                                       | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                  |
|                 |                | Colpocarena      | <i>Cataulax froeschneri</i> Grazia, Campos & Becker, 2000                  | Grazia et al., 2000; Dellapé et al., 2024 – BiodAR                                                        |
|                 |                |                  | <i>Colpocarena</i> sp.                                                     | Grazia & Schwertner, 2011                                                                                 |
|                 |                | Coriplatus       | <i>Coriplatus depressus</i> White, 1842                                    | Ruckes & Becker, 1970                                                                                     |
|                 |                |                  | <i>Dinocoris (Dinocoris) antennatus</i> (Dallas, 1851)                     | Becker & Grazia, 1985                                                                                     |
|                 |                | Dinocoris        | <i>Dinocoris (Dinocoris) corrosus</i> (Herrich-Schäffer, 1844)             | Becker & Grazia, 1985; Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                           |
|                 |                |                  | <i>Dinocoris (Dinocoris) gibbosus</i> (Fallou, 1889)                       | Grazia & Schwertner, 2011; Firmino et al., 2017                                                           |
|                 |                |                  | <i>Dinocoris (Dinocoris) gibbus</i> (Dallas, 1852)                         | Becker & Grazia, 1985; Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                           |
|                 |                |                  | <i>Dinocoris (Dinocoris) maculatus</i> Laporte, 1832                       | Becker & Grazia, 1985; Grazia & Schwertner, 2011                                                          |
|                 |                |                  | <i>Dinocoris (Dinocoris) reticulatus</i> Becker & Grazia-Vieira, 1985      | Becker & Grazia, 1985; Grazia & Schwertner, 2011                                                          |
|                 |                |                  | <i>Dinocoris (Dinocoris) rufitarsus</i> Ruckes, 1958                       | Becker & Grazia, 1985                                                                                     |
|                 |                |                  | <i>Dinocoris (Dinocoris) lineatus</i> (Dallas, 1852)                       | Becker & Grazia, 1985; Grazia & Schwertner, 2011                                                          |
|                 |                |                  | <i>Dinocoris (Praediniocoris) prolineatus</i> Becker & Grazia-Vieira, 1985 | Becker & Grazia, 1985                                                                                     |
|                 |                |                  | <i>Disceophala</i>                                                         | Becker & Grazia, 1992a; Grazia & Schwertner, 2011                                                         |
|                 |                |                  | <i>Dryptocephala</i>                                                       | Ruckes, 1966c                                                                                             |
|                 |                | Dryptocephala    | <i>Dryptocephala brullei</i> Laporte, 1832                                 | Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                                                      |
|                 |                |                  | <i>Dryptocephala integra</i> Walker, 1867                                  | Ruckes, 1966c                                                                                             |
|                 |                |                  | <i>Dryptocephala latiloba</i> Stål, 1872                                   | Weiler et al., 2012; Bianchi et al., 2014                                                                 |
|                 |                |                  | <i>Dryptocephala lipoloba</i> Ruckes, 1966                                 | Schmidt & Barcellos, 2007; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                           |
|                 |                |                  | <i>Dryptocephala lurida</i> Erichson, 1848                                 | Ruckes, 1966c                                                                                             |
|                 |                |                  | <i>Dryptocephala maculosa</i> Ruckes, 1966                                 | Grazia & Schwertner, 2011; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                           |
|                 |                |                  | <i>Dryptocephala punctata</i> Amyot & Serville, 1843                       | Carrenho et al., 2018                                                                                     |
|                 |                |                  | <i>Dryptocephala spinosa</i> Mayr, 1864                                    | Becker, 1966; Grazia & Schwertner, 2011                                                                   |
|                 |                |                  | <i>Eurystethus (Eurystethus) goianensis</i> Becker, 1966                   | Ruckes, 1966a; Grazia & Schwertner, 2011                                                                  |
|                 |                |                  | <i>Eurystethus (Eurystethus) ornatus</i> Ruckes, 1966                      | Becker, 1966; Grazia & Schwertner, 2011                                                                   |
| Eurystethinae   | Eurystethini   | Eurystethus      | <i>Eurystethus (Hispidisoma) deplanatus</i> Becker, 1966                   | Ruckes, 1966a                                                                                             |
|                 |                |                  | <i>Eurystethus (Hispidisoma) fulvescens</i> Ruckes, 1966                   | Ruckes, 1966a                                                                                             |
|                 |                |                  | <i>Eurystethus (Hispidisoma) variegatus</i> Ruckes, 1966                   | Ruckes, 1966a; Grazia & Schwertner, 2011                                                                  |

| Subfamily  | Tribe | Genus                   | Species                                                                 | References                                                                                     |
|------------|-------|-------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Ochletrini |       | <i>Glyphuchus</i>       | <i>Glyphuchus sculpturatus</i> Stål, 1860                               | López et al., 2023                                                                             |
|            |       | <i>Harpagogaster</i>    | <i>Harpagogaster willneri</i> Kormilev, 1957                            | Kormilev, 1957; Ruckes, 1960; Dellapé et al., 2024 – BiodAR                                    |
|            |       | <i>Ischnopelta</i>      | <i>Ischnopelta aldonga</i> Rosso & Campos, 2021                         | Rosso & Campos, 2021; Poester-Carvalho et al., 2023                                            |
|            |       |                         | <i>Ischnopelta bechyneorum</i> Rosso & Campos, 2021                     | Poester-Carvalho et al., 2023                                                                  |
|            |       |                         | <i>Ischnopelta confusa</i> Rosso & Campos, 2021                         | Rosso & Campos, 2021; Poester-Carvalho et al., 2023                                            |
|            |       |                         | <i>Ischnopelta crassula</i> Rosso & Campos, 2021                        | Rosso & Campos, 2021; Poester-Carvalho et al., 2023                                            |
|            |       |                         | <i>Ischnopelta cylindrata</i> Rosso & Campos, 2021                      | Poester-Carvalho et al., 2023                                                                  |
|            |       |                         | <i>Ischnopelta montana</i> Rosso & Campos, 2021                         | Rosso & Campos, 2021; Poester-Carvalho et al., 2023                                            |
|            |       |                         | <i>Ischnopelta ruckesi</i> Rosso & Campos, 2021                         | Rosso & Campos, 2021; Poester-Carvalho et al., 2023                                            |
|            |       |                         | <i>Ischnopelta scutellata</i> (Signoret, 1851)                          | Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                   |
|            |       | <i>Oncodochilus</i>     | <i>Oncodochilus (Oncodochilus) aradiformis</i> (Herrich-Schäffer, 1844) | Dellapé et al., 2024 – BiodAR                                                                  |
|            |       | <i>Pandonotum</i>       | <i>Pandonotum bergrothi</i> Becker, 1967                                | Becker, 1967                                                                                   |
|            |       | <i>Phoeacia</i>         | <i>Phoeacia lineaticeps</i> Stål, 1860                                  | Carrenho et al., 2018                                                                          |
|            |       | <i>Placidocoris</i>     | <i>Placidocoris bivitatus</i> Ruckes, 1965                              | Ruckes, 1965; Dellapé et al., 2024 – BiodAR                                                    |
|            |       | <i>Platycarenum</i>     | <i>Platycarenum umbraculatus</i> (Fabricius, 1803)                      | Schmidt & Barcellos, 2007; Dellapé et al., 2024 – BiodAR                                       |
|            |       | <i>Sympiezorhynchus</i> | <i>Sympiezorhynchus tristis</i> Spinola, 1837                           | Becker & Ruckes, 1969; Grazia & Schwertner, 2011                                               |
|            |       | <i>Uncircus</i>         | <i>Uncircus kollari</i> (Fieber, 1851)                                  | Ruckes, 1966b                                                                                  |
|            |       | <i>Uncinula</i>         | <i>Uncinula tau</i> Ruckes, 1965                                        | Poester-Carvalho et al., 2023                                                                  |
|            |       | <i>Adoxoplatus</i>      | <i>Adoxoplatus brasiliensis</i> Kormilev, 1951                          | Kormilev, 1951                                                                                 |
|            |       |                         | <i>Adoxoplatus gallardoi</i> Kormilev, 1951                             | Dellapé & Dellapé, 2016; Carrenho et al., 2018; Dellapé et al., 2024 – BiodAR                  |
|            |       |                         | <i>Adoxoplatus gjaai</i> Kormilev, 1950                                 | Dellapé & Dellapé, 2016; Dellapé et al., 2024 – BiodAR                                         |
|            |       |                         | <i>Adoxoplatus singularis</i> Dellapé & Dellapé, 2016                   | Dellapé & Dellapé, 2016; Dellapé et al., 2024 – BiodAR                                         |
|            |       | <i>Brachelytron</i>     | <i>Brachelytron angelicus</i> Ruckes, 1958                              | Ruckes, 1958                                                                                   |
|            |       | <i>Catulona</i>         | <i>Catulona apaga</i> Rolston, 1992                                     | Campos et al., 2004                                                                            |
|            |       |                         | <i>Catulona lucida</i> Campos & Grazia, 2004                            | Campos et al., 2004; Grazia & Schwertner, 2011                                                 |
|            |       |                         | <i>Catulona pensa</i> Rolston, 1992                                     | Campos et al., 2004; Grazia & Schwertner, 2011                                                 |
|            |       | <i>Cromata</i>          | <i>Cromata ornata</i> Rolston, 1992                                     | Campos, 2005; Grazia & Schwertner, 2011; Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR  |
|            |       | <i>Janeirona</i>        | <i>Janeirona aurea</i> Sampaio & Campos, 2024                           | Sampaio et al., 2024                                                                           |
|            |       |                         | <i>Janeirona bergi</i> (Kormilev, 1956)                                 | Kormilev, 1956; Schmidt & Barcellos, 2007; Dellapé et al., 2024 – BiodAR; Sampaio et al., 2024 |
|            |       |                         | <i>Janeirona flavipes</i> Sampaio & Campos, 2024                        | Sampaio et al., 2024                                                                           |
|            |       |                         | <i>Janeirona insignis</i> Distant, 1911                                 | Sampaio et al., 2024                                                                           |
|            |       |                         | <i>Janeirona roellae</i> Sampaio & Campos, 2024                         | Sampaio et al., 2024                                                                           |
|            |       |                         | <i>Janeirona stenosa</i> Sampaio & Campos, 2024                         | Sampaio et al., 2024                                                                           |
|            |       |                         | <i>Janeirona vianai</i> (Kormilev, 1956)                                | Sampaio et al., 2024                                                                           |
|            |       | <i>Lincus</i>           | <i>Lincus lobuliger</i> Breddin, 1908                                   | Kormilev, 1956; Dellapé et al., 2024 – BiodAR; Sampaio et al., 2024                            |
|            |       |                         | <i>Lincus securiger</i> Breddin, 1904                                   | Roell et al., 2017                                                                             |
|            |       | <i>Macropygium</i>      | <i>Macropygium graziae</i> Silva & Campos, 2021                         | Roell et al., 2017                                                                             |
|            |       |                         | <i>Macropygium reticulare</i> (Fabricius, 1803)                         | Silva & Campos, 2021                                                                           |
|            |       |                         | <i>Macropygium spinolae</i> Stål, 1860                                  | Silva & Campos, 2021                                                                           |
|            |       | <i>Miopygium</i>        | <i>Miopygium cyclopeltoides</i> Breddin, 1904                           | Grazia & Schwertner, 2011                                                                      |
|            |       |                         | <i>Miopygium grossa</i> Ruckes, 1958                                    | Ruckes, 1958                                                                                   |
|            |       | <i>Neodoxoplatus</i>    | <i>Neodoxoplatus haywardi</i> Kormilev, 1956                            | Kormilev, 1956; Dellapé et al., 2024 – BiodAR                                                  |
|            |       | <i>Ocellatoris</i>      | <i>Ocellatoris darsys</i> Campos & Grazia, 2001                         | Campos & Grazia, 2001                                                                          |

| Subfamily | Tribe         | Genus      | Species                                                   | References                                                                                                                                                   |
|-----------|---------------|------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | Ochleus       |            | <i>Ocellatacaris longirostris</i> Campos & Roell, 2017    | Campos & Roell, 2017                                                                                                                                         |
|           |               |            | <i>Ochleus cinctus</i> Spinola, 1837                      | Stål, 1860                                                                                                                                                   |
|           |               |            | <i>Ochleus circummaculatus</i> Stål, 1860                 | Stål, 1860                                                                                                                                                   |
|           |               |            | <i>Ochleus rusticus</i> Breddin, 1910                     | Simões & Campos, 2015                                                                                                                                        |
|           | Paropsocalis  | Placacaris | <i>Paropsocalis convergens</i> Sampaio & Campos, 2023     | Sampaio & Campos, 2023                                                                                                                                       |
|           |               |            | <i>Placacaris alborenotus</i> Kornilev, 1949              | Kornilev, 1949; Dellapé et al., 2024 – BiodAR                                                                                                                |
|           | Schaefferella | Uvaldus    | <i>Placacaris viridis</i> (Mayr, 1864)                    | Schmidt & Barcellos, 2007; Thomas, 2021; Dellapé et al., 2024 – BiodAR                                                                                       |
|           |               |            | <i>Schaefferella incisa</i> (Heirich-Schäffer, 1839)      | Campos & Grazia, 2006; Grazia & Schwertner, 2011                                                                                                             |
|           | Xynocaris     |            | <i>Uvaldus concolor</i> Rolston, 1992                     | Rolston, 1992                                                                                                                                                |
|           |               |            | <i>Xynocaris cupreus</i> Garbelotto & Campos, 2014        | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Xynocaris egeri</i> Garbelotto & Campos, 2014          | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Xynocaris lucidus</i> Garbelotto & Campos, 2014        | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Xynocaris meridionalis</i> Garbelotto & Campos, 2014   | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Xynocaris recavius</i> Garbelotto & Campos, 2014       | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Xynocaris tuberculatus</i> Garbelotto & Campos, 2014   | Garbelotto et al., 2014; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Brachystethus cribrius</i> (Fabricius, 1781)           | Poester-Carvalho et al., 2023                                                                                                                                |
|           |               |            | <i>Brachystethus geniculatus</i> (Fabricius, 1787)        | Barcellos & Grazia, 2003; Campos et al., 2009; Grazia & Schwertner, 2011; Bianchi et al., 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR |
|           |               |            | <i>Brachystethus vicinus</i> Signoret, 1851               | Barcellos & Grazia, 2003; Grazia & Schwertner, 2011; Firmino et al., 2017                                                                                    |
| Edessa    | Calcatredessa | Edessa     | <i>Calcatredessa germana</i> Silva & Fernandes, 2021      | Silva & Fernandes, 2021                                                                                                                                      |
|           |               |            | <i>Edessa abdominalis</i> Erichson, 1848                  | Firmino et al., 2017                                                                                                                                         |
|           |               |            | <i>Edessa accola</i> Mendonça et al., 2023                | Mendonça et al., 2023                                                                                                                                        |
|           |               |            | <i>Edessa albomarginata</i> (Stål, 1855)                  | Elye Silva et al., 2004; Grazia & Schwertner, 2011                                                                                                           |
|           |               |            | <i>Edessa aulacosterna</i> Stål, 1872                     | Elye Silva et al., 2006                                                                                                                                      |
|           |               |            | <i>Edessa bilunulata</i> Breddin, 1901                    | Dellapé et al., 2024 – BiodAR                                                                                                                                |
|           |               |            | <i>Edessa capra</i> Dallas, 1851                          | Weiler et al., 2012; Bianchi et al., 2014                                                                                                                    |
|           |               |            | <i>Edessa carmosa</i> Westwood, 1837                      | Dellapé et al., 2024 – BiodAR                                                                                                                                |
|           |               |            | <i>Edessa cerradensis</i> Silva, Fernandes & Grazia, 2006 | Elye Silva et al., 2006; Grazia & Schwertner, 2011                                                                                                           |
|           |               |            | <i>Edessa collaris</i> Dallas, 1851                       | Fernandes et al., 2001; Grazia & Schwertner, 2011                                                                                                            |
|           |               |            | <i>Edessa corallipes</i> Erichson, 1848                   | Elye Silva et al., 2006; Grazia & Schwertner, 2011; Dellapé et al., 2024 – BiodAR                                                                            |
|           |               |            | <i>Edessa dallasi</i> Distant, 1881                       | Dellapé et al., 2024 – BiodAR                                                                                                                                |
|           |               |            | <i>Edessa davidi</i> Fallou, 1887                         | Bianchi et al., 2014                                                                                                                                         |
|           |               |            | <i>Edessa decolorata</i> Mendonça et al., 2023            | Mendonça et al., 2023                                                                                                                                        |
|           |               |            | <i>Edessa elaphus</i> Breddin, 1905                       | Mendonça et al., 2023                                                                                                                                        |
|           |               |            | <i>Edessa eucnema</i> Nascimento et al., 2017             | Fernandes & van Doesburg, 2000; Grazia & Schwertner, 2011                                                                                                    |
|           |               |            | <i>Edessa exigusternata</i> Nascimento et al., 2017       | Nascimento et al., 2017; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Edessa flavida</i> (Westwood, 1837)                    | Nascimento et al., 2017; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Edessa fulvicornis</i> Fabricius, 1803                 | Dellapé et al., 2024 – BiodAR                                                                                                                                |
|           |               |            | <i>Edessa grandispina</i> (Perty, 1833)                   | Weiler et al., 2012; Dellapé et al., 2024 – BiodAR                                                                                                           |
|           |               |            | <i>Edessa graziae</i> Fernandes & Silva, 2021             | Fernandes & Silva, 2021; Poester-Carvalho et al., 2023                                                                                                       |
|           |               |            | <i>Edessa herrichi</i> Berg, 1892                         | Dellapé et al., 2024 – BiodAR                                                                                                                                |
|           |               |            | <i>Edessa hilaris</i> Walker, 1868                        | Weiler et al., 2012                                                                                                                                          |
|           |               |            | <i>Edessa impura</i> Bergroth, 1891                       | Campos et al., 2009; Fernandes & Silva, 2021; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                   |

| Subfamily    | Tribe                                       | Genus                                              | Species                                                                                                                          | References                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                                                 |
|--------------|---------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Pentatominae | Carpocorini                                 | <i>Edessa</i>                                      | <i>Edessa jugata</i> Westwood, 1837                                                                                              | Silva, 2017                                                                                                                                                                 |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa lineata</i> Westwood, 1837                                                                                             | Campos <i>et al.</i> , 2009                                                                                                                                                 |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa loadalii</i> Westwood, 1837                                                                                            | Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2014; Firmino <i>et al.</i> , 2017                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa marginalis</i> (Dallas, 1851)                                                                                          | Elye Silva <i>et al.</i> , 2004                                                                                                                                             |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa mediatubunda</i> (Fabricius, 1794)                                                                                     | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Dellapé <i>et al.</i> , 2015a |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa nigropunctata</i> Berg, 1884                                                                                           | Elye Silva <i>et al.</i> , 2006; Grazia & Schwertner, 2011                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa ovalis</i> Stål, 1872                                                                                                  | Elye Silva <i>et al.</i> , 2006; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                      |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa pallida</i> Dallas, 1851                                                                                               | Firmino <i>et al.</i> , 2017                                                                                                                                                |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa pantherina</i> Bergroth, 1891                                                                                          | Silva & Fernandes, 2012                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa parvula</i> Dallas, 1851                                                                                               | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa peronea</i> Dallas, 1851                                                                                               | Stål, 1872                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa pipertitia</i> Westwood, 1837                                                                                          | Siqueira, 2013                                                                                                                                                              |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa ruficornis</i> (Herrich-Schäffer, 1853)                                                                                | Stål, 1872                                                                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa rufodorsata</i> Silva, Fernandes & Grazia, 2006                                                                        | Elye Silva <i>et al.</i> , 2006; Grazia & Schwertner, 2011                                                                                                                  |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa rufomarginata</i> (DeGeer, 1773)                                                                                       | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Firmino <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR                                               |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa sahlbergii</i> Stål, 1872                                                                                              | Fernandes & Silva, 2021; Poester-Carvalho <i>et al.</i> , 2023                                                                                                              |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa scabriventris</i> Stål, 1859                                                                                           | Lima <i>et al.</i> , 2010                                                                                                                                                   |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa submarginata</i> Walker, 1868                                                                                          | Campos <i>et al.</i> , 2009                                                                                                                                                 |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa ventrocarinata</i> Mendonça <i>et al.</i> , 2023                                                                       | Mendonça <i>et al.</i> , 2023                                                                                                                                               |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa versicolor</i> Herrich-Schäffer, 1853                                                                                  | unpublished data from DZUP collection                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa virididorsata</i> Silva, Fernandes & Grazia, 2006                                                                      | Elye Silva <i>et al.</i> , 2006; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                           |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Edessa viridula</i> Nascimento <i>et al.</i> , 2017                                                                           | Nascimento <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023                                                                                                      |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             | <i>Grammedessa</i>                                 | <i>Grammedessa braziliana</i> Correia & Fernandes, 2016                                                                          | Correia & Fernandes, 2016; Poester-Carvalho <i>et al.</i> , 2023                                                                                                            |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Hypoxys</i>                                                                                                                   | <i>Hypoxys aspilogaster</i> Mendonça <i>et al.</i> , 2021                                                                                                                   | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                              |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys capito</i> (Breddin, 1904)                                                                                                                                       | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                              |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys gaucha</i> Mendonça <i>et al.</i> , 2021                                                                                                                         | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                              |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys oxyacanthus</i> (Breddin, 1904)                                                                                                                                  | Campos <i>et al.</i> , 2009; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys quadridens</i> (Fabricius, 1803)                                                                                                                                 | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                              |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys substriatus</i> (Bergroth, 1891)                                                                                                                                 | Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Poester-Carvalho <i>et al.</i> , 2023                                                                                                   |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Hypoxys triangularis</i> (Dallas, 1851)                                                                                                                                  | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                              |                                                                                                                                                 |
|              |                                             |                                                    |                                                                                                                                  | <i>Lopadusa</i>                                                                                                                                                             | <i>Lopadusa (Bothrocoris) quinqueidentata</i> (Spinola, 1837)                                                                                                                                      | Becker & Grazia, 1970; Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR |
|              |                                             |                                                    |                                                                                                                                  | <i>Lopadusa (Lopadusa) augur</i> Stål, 1860                                                                                                                                 | Becker & Grazia, 1970; Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2014                                                                                                                     |                                                                                                                                                 |
|              |                                             | <i>Odara</i>                                       | <i>Odara ori</i> Campos & Fernandes, 2022                                                                                        | Campos & Fernandes, 2022                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             | <i>Olbia</i>                                       | <i>Olbia caprina</i> Stål, 1862                                                                                                  | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Peromatus</i>                                                                                                                 | <i>Peromatus nodifer</i> (Westwood, 1837)                                                                                                                                   | Firmino <i>et al.</i> , 2017                                                                                                                                                                       |                                                                                                                                                 |
|              | <i>Peromatus notatus</i> (Burmeister, 1835) |                                                    |                                                                                                                                  | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                               |                                                                                                                                                                                                    |                                                                                                                                                 |
|              | <i>Peromatus sulcifur</i> Berg, 1892        |                                                    |                                                                                                                                  | Melo <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                            |                                                                                                                                                                                                    |                                                                                                                                                 |
|              | <i>Pygoda</i>                               | <i>Pygoda polita</i> (Lepeletier & Serville, 1825) | Campos <i>et al.</i> , 2009; Bianchi <i>et al.</i> , 2014; Fernandes <i>et al.</i> , 2018; Dellapé <i>et al.</i> , 2024 – BiodAR |                                                                                                                                                                             |                                                                                                                                                                                                    |                                                                                                                                                 |
|              | <i>Acletra</i>                              | Carpocorini                                        | <i>Acletra bonariensis</i> (Stål, 1859)                                                                                          | Barros <i>et al.</i> , 2021c                                                                                                                                                |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Acletra fraterna</i> (Stål, 1859)                                                                                             | Garbelotto & Campos, 2014; Barros <i>et al.</i> , 2021c                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Acletra gregalis</i> (Berg, 1878)                                                                                             | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Acletra kinbergi</i> (Stål, 1859)                                                                                             | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |
|              |                                             |                                                    | <i>Adustanotus anticus</i> (Stål, 1860)                                                                                          | Roiston, 1978b; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                                                 |

| Subfamily        | Tribe                                           | Genus                                                             | Species                                                                                                                                                                                      | References                                                                                                                                                           |                                                                                                                                                                     |
|------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                 |                                                                   | <i>Adustonotus grandis</i> (Rolston, 1978)                                                                                                                                                   | Rolston, 1978b; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014                                                                                            |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus graziae</i> Bianchi, 2021                                                                                                                                                     | Bianchi, 2021; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                 |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus hansi</i> (Grazia, 1987)                                                                                                                                                      | Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014                                                      |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus innotatus</i> (Bunde, Grazia & Mendonça, 2006)                                                                                                                                | Bunde <i>et al.</i> , 2006; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                    |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus latus</i> (Dallas, 1852)                                                                                                                                                      | Rolston, 1978b                                                                                                                                                       |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus pananticus</i> (Grazia, 1987)                                                                                                                                                 | Schmidt & Barcellos, 2007; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                      |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Adustonotus saramagoi</i> (Bianchi, Cioato & Grazia, 2015)                                                                                                                                | Cioato <i>et al.</i> , 2015                                                                                                                                          |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Agroecus brevicornis</i> Buckup, 1957                                                                                                                                                     | Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                     |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Agroecus griseus</i> Dallas, 1851                                                                                                                                                         | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Agroecus lizerianus</i> (Pennington, 1922)                                                                                                                                                | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Agroecus scabricornis</i> (Herrich-Schäffer, 1844)                                                                                                                                        | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho <i>et al.</i> , 2023                                             |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Berecynthus</i>                                                                                                                                                                           | <i>Berecynthus hastator</i> (Fabricius, 1798)                                                                                                                        | Grazia & Schwertner, 2011                                                                                                                                           |
|                  |                                                 |                                                                   | <i>Caonabo</i>                                                                                                                                                                               | <i>Caonabo casicus</i> Rolston, 1974                                                                                                                                 | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                               |
|                  |                                                 |                                                                   |                                                                                                                                                                                              | <i>Caonabo pseudoscyllax</i> (Bergroth, 1891)                                                                                                                        | Weiler <i>et al.</i> , 2012; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |
|                  |                                                 |                                                                   | <i>Chimeroacris</i>                                                                                                                                                                          | <i>Chimeroacris luridus</i> Barros <i>et al.</i> , 2020                                                                                                              | Barros <i>et al.</i> , 2020a; Poester-Carvalho <i>et al.</i> , 2023                                                                                                 |
| <i>Copeacris</i> | <i>Copeacris truncaticornis</i> (Stål, 1865)    | Barcellos & Grazia, 1998; Dellapé <i>et al.</i> , 2024 – BiodAR   |                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |
| <i>Curatia</i>   | <i>Curatia cornuta</i> Barcellos & Grazia, 1998 | Barcellos & Grazia, 1998; Schmidt & Barcellos, 2007               |                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |
|                  | <i>Curatia denticornis</i> Stål, 1864           | Barcellos & Grazia, 1998; Grazia & Schwertner, 2011               |                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |
|                  | <i>Curatia parva</i> Barcellos & Grazia, 1998   | Barcellos & Grazia, 1998                                          |                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |
| <i>Diceraeus</i> |                                                 | <i>Diceraeus furcatus</i> (Fabricius, 1775)                       | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Diceraeus melacanthus</i> (Dallas, 1851)                       | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                         |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Diceraeus phoenix</i> Grazia, 1978                             | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Garbelotto & Campos, 2014; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |                                                                                                                                                                      |                                                                                                                                                                     |
| <i>Dichelops</i> |                                                 | <i>Dichelops (Dichelops) australis</i> Grazia & Klein, 2012       | Klein <i>et al.</i> , 2012; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                            |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) avilapiresi</i> Grazia, 1978             | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023                                                                   |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) leucostigmus</i> (Dallas, 1851)          | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) mirimae</i> Grazia, 1978                 | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                        |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) nigrum</i> Bergroth, 1914                | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho <i>et al.</i> , 2023                                                                                                  |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) peruanus</i> Grazia, 1978                | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) pradoi</i> Grazia, 1978                  | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Dichelops (Dichelops) punctatus</i> Spinola, 1837              | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                     |
|                  | <i>Epipedus</i>                                 | <i>Epipedus histrio</i> Spinola, 1837                             | Lupoli, 2016                                                                                                                                                                                 |                                                                                                                                                                      |                                                                                                                                                                     |
|                  | <i>Euschistus</i>                               |                                                                   | <i>Euschistus (Euschistus) backhauseni</i> Berg, 1891                                                                                                                                        | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Euschistus (Euschistus) carbonerus</i> Rolston, 1984                                                                                                                                      | Rolston, 1984                                                                                                                                                        |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Euschistus (Euschistus) arenator</i> (Fabricius, 1794)                                                                                                                                    | Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023                                                                                                  |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Euschistus (Euschistus) heros</i> (Fabricius, 1798)                                                                                                                                       | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Firmino <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR             |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Euschistus (Euschistus) quadripunctatus</i> Stål, 1860                                                                                                                                    | Stål, 1860                                                                                                                                                           |                                                                                                                                                                     |
|                  |                                                 |                                                                   | <i>Euschistus (Euschistus) taurulus</i> Berg, 1878                                                                                                                                           | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) aceratos</i> (Berg, 1894)                 | Campos <i>et al.</i> , 2009; Garbelotto & Campos, 2014; Weiler <i>et al.</i> , 2016; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                   |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) circumfusus</i> Berg, 1883                | Weiler <i>et al.</i> , 2012; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                           |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) cornutus</i> Dallas, 1851                 | Schmidt & Barcellos, 2007; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) cribarius</i> Stål, 1872                  | Dellapé <i>et al.</i> , 2015b; Firmino <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                           |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) illotus</i> Stål, 1860                    | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Weiler <i>et al.</i> , 2016; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                 |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 | <i>Euschistus (Lycipta) longicornis</i> Grazia & Hildebrand, 1983 | Weiler <i>et al.</i> , 2016                                                                                                                                                                  |                                                                                                                                                                      |                                                                                                                                                                     |
|                  |                                                 |                                                                   |                                                                                                                                                                                              |                                                                                                                                                                      |                                                                                                                                                                     |

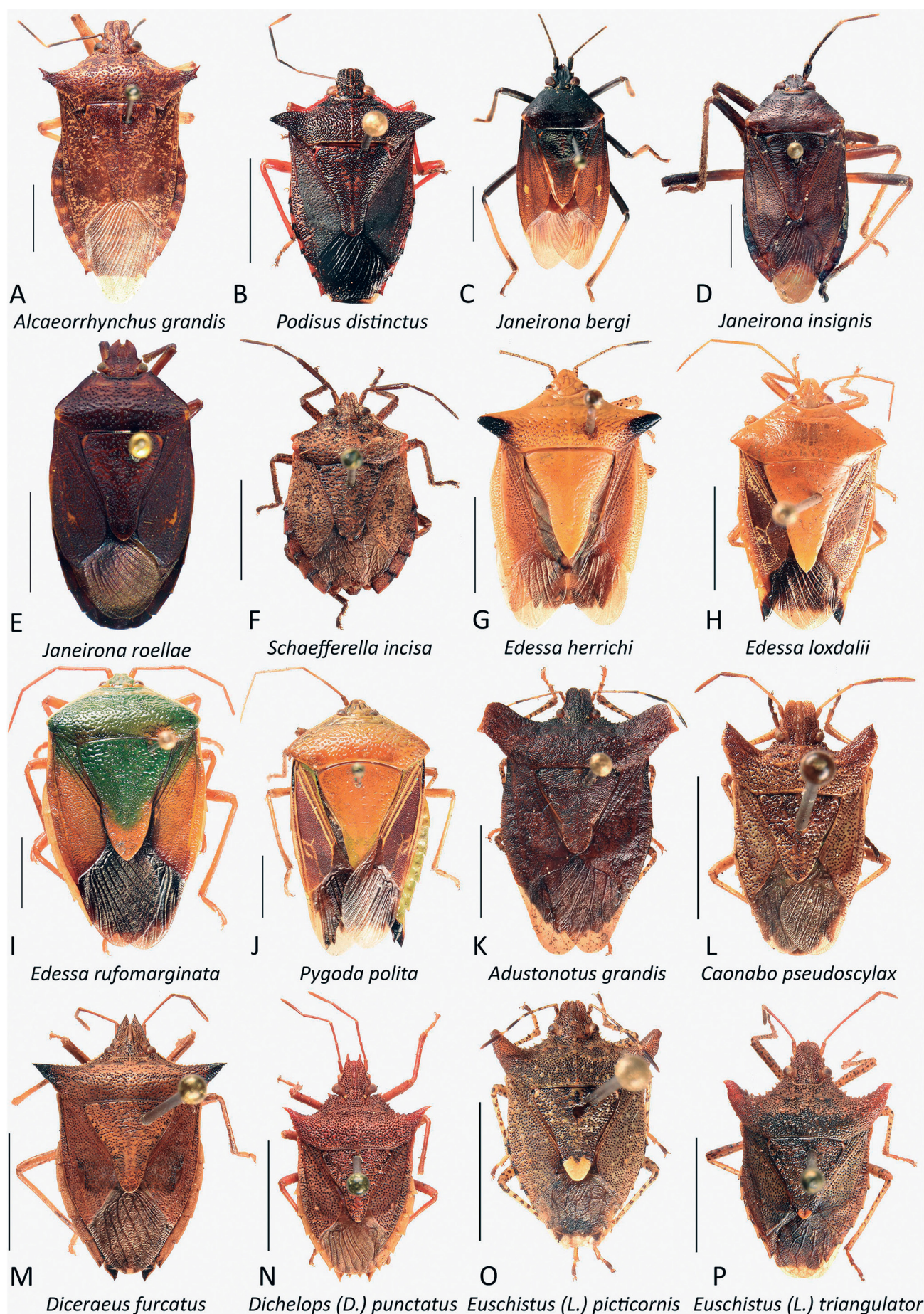
| Subfamily            | Tribe | Genus | Species                                                             | References                                                                                                                                                                                                                                                                   |
|----------------------|-------|-------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |       |       | <i>Euschistus (Lycipta) machadus</i> Rolston, 1982                  | Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2016                                                                                                                                                                                                                       |
|                      |       |       | <i>Euschistus (Lycipta) picticornis</i> Stål, 1872                  | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                        |
|                      |       |       | <i>Euschistus (Lycipta) riograndensis</i> Weiler & Grazia, 2011     | Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014                                                                                                                                                                                                                    |
|                      |       |       | <i>Euschistus (Lycipta) sharpi</i> Bergroth, 1891                   | Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2016; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                |
|                      |       |       | <i>Euschistus (Lycipta) triangulator</i> (Herrich-Schäffer, 1842)   | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014                                                                                                                                 |
| <i>Galedanta</i>     |       |       | <i>Galedanta bituberculata</i> Amyot & Serville, 1843               | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014                                                                                                                                                                                                                         |
|                      |       |       | <i>Galedanta compastoides</i> Bredini, 1906                         | Grazia, 1967; Grazia & Schwertner, 2011                                                                                                                                                                                                                                      |
|                      |       |       | <i>Galedanta rotundicornis</i> Grazia, 1981                         | Grazia, 1981; Grazia & Schwertner, 2011                                                                                                                                                                                                                                      |
|                      |       |       | <i>Galedanta truncata</i> Distant, 1899                             | Bianchi <i>et al.</i> , 2014                                                                                                                                                                                                                                                 |
|                      |       |       | <i>Glyphepomis adroguensis</i> Berg, 1891                           | Campos & Grazia, 1998; Garbelotto & Campos, 2014; Bianchi <i>et al.</i> , 2016b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                       |
| <i>Glyphepomis</i>   |       |       | <i>Glyphepomis magnacephala</i> Bianchi & Campos, 2016              | Bianchi <i>et al.</i> , 2016b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                         |
|                      |       |       | <i>Glyphepomis pelotensis</i> Campos & Grazia, 1998                 | Campos & Grazia, 1998; Bianchi <i>et al.</i> , 2016b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                  |
|                      |       |       | <i>Glyphepomis setigera</i> Kormilev & Pirán, 1952                  | Bianchi <i>et al.</i> , 2016b; Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                           |
|                      |       |       | <i>Glyphepomis spinosa</i> Campos & Grazia, 1998                    | Campos & Grazia, 1998; Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2016b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                       |
|                      |       |       | <i>Hypanthracos meridionalis</i> Grazia & Campos, 1996              | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                                                        |
| <i>Hypanthracos</i>  |       |       | <i>Hypanthracos australis</i> Fernandes & Grazia, 1996              | Grazia & Schwertner, 2011; Barros <i>et al.</i> , 2021a                                                                                                                                                                                                                      |
|                      |       |       | <i>Hypanthracos inermis</i> (Stål, 1872)                            | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Barros <i>et al.</i> , 2021a                                                                                                                                                                                           |
|                      |       |       | <i>Hypanthracos sternalis</i> (Stål, 1869)                          | Barros <i>et al.</i> , 2021a                                                                                                                                                                                                                                                 |
|                      |       |       | <i>Ladeaschistus armipes</i> (Stål, 1872)                           | Rolston, 1973; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                                         |
|                      |       |       | <i>Ladeaschistus bilobus</i> (Stål, 1872)                           | Rolston, 1973; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                                         |
| <i>Ladeaschistus</i> |       |       | <i>Ladeaschistus boghesi</i> Bianchi, Cioato & Grazia, 2015         | Cioato <i>et al.</i> , 2015                                                                                                                                                                                                                                                  |
|                      |       |       | <i>Ladeaschistus trilobus</i> (Stål, 1872)                          | Rolston, 1973                                                                                                                                                                                                                                                                |
|                      |       |       | <i>Luridocimex wygodzinski</i> Grazia, Fernandes & Schwertner, 1998 | Grazia <i>et al.</i> , 1998; Barros <i>et al.</i> , 2021a                                                                                                                                                                                                                    |
|                      |       |       | <i>Mecacephala bonariensis</i> Schwertner, Fernandes & Grazia, 2002 | Barros <i>et al.</i> , 2021b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                          |
|                      |       |       | <i>Mecacephala curculionoides</i> Pirán, 1959                       | Barros <i>et al.</i> , 2021b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                   |
| <i>Mitripus</i>      |       |       | <i>Mecacephala zikani</i> Schwertner, Fernandes & Grazia, 2002      | Barros <i>et al.</i> , 2021b; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                          |
|                      |       |       | <i>Mitripus acutus</i> (Dallas, 1851)                               | Silva <i>et al.</i> , 2018                                                                                                                                                                                                                                                   |
|                      |       |       | <i>Mitripus convergens</i> (Herrich-Schäffer, 1842)                 | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2014                                                                                                                                                              |
|                      |       |       | <i>Mormidea (Mormidea) bovilla</i> (Distant, 1887)                  | Rolston, 1978c                                                                                                                                                                                                                                                               |
|                      |       |       | <i>Mormidea (Mormidea) cornicollis</i> Stål, 1860                   | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                       |
| <i>Mormidea</i>      |       |       | <i>Mormidea (Mormidea) hamulata</i> Stål, 1860                      | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Garbelotto & Campos, 2014; Firmino <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR                                                               |
|                      |       |       | <i>Mormidea (Mormidea) maculata</i> Dallas, 1851                    | Rolston, 1978c; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                              |
|                      |       |       | <i>Mormidea (Mormidea) notulifera</i> Stål, 1860                    | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2024 – BiodAR                                |
|                      |       |       | <i>Mormidea (Mormidea) paupercula</i> Berg, 1879                    | Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                              |
|                      |       |       | <i>Mormidea (Mormidea) rugosa</i> Rolston, 1978                     | Campos <i>et al.</i> , 2009; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014                                                                                                                                                                                       |
| <i>Oebolus</i>       |       |       | <i>Mormidea (Mormidea) v-luteum</i> (Lichtenstein, 1796)            | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR |
|                      |       |       | <i>Mormidea (Mormidea) ypsilon</i> (Linnaeus, 1758)                 | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Firmino <i>et al.</i> , 2017; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                     |
|                      |       |       | <i>Oebolus poecilus</i> (Dallas, 1851)                              | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                     |
|                      |       |       | <i>Oebolus ypsilangriscus</i> (DeGeer, 1773)                        | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                      |
|                      |       |       | <i>Onopiella flonensis</i> Fernández-Aldea, 2014                    | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                                                        |
| <i>Onopiella</i>     |       |       | <i>Onopiella punctaria</i> Stål, 1859                               | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                                                        |

| Subfamily           | Tribe | Genus                                                           | Species                                                               | References                                                                                                                                                                                             |
|---------------------|-------|-----------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ogmocerini          |       | <i>Ogmocoris</i>                                                | <i>Ogmocoris hypomelas</i> (Burneister, 1835)                         | Barros et al., 2020a; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       |                                                                 | <i>Ogmocoris paranaensis</i> Frey-da-Silva, Grazia & Fernandes, 2002  | Barros et al., 2020a; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       | <i>Parahypatropis</i>                                           | <i>Parahypatropis occultata</i> Barros et al., 2020                   | Barros et al., 2020b; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       |                                                                 | <i>Parahypatropis sinuata</i> Grazia & Fernandes, 1996                | Grazia & Schwertner, 2011; Barros et al., 2020b; Poester-Carvalho et al., 2023                                                                                                                         |
| Paramacroccephalini |       | <i>Paramacroccephala</i>                                        | <i>Paramacroccephala australis</i> Frey-da-Silva & Grazia, 2002       | Garbelotto & Campos, 2014; Barros et al., 2021b; Poester-Carvalho et al., 2023                                                                                                                         |
|                     |       |                                                                 | <i>Paramacroccephala bergrothi</i> Frey-da-Silva & Grazia, 2002       | Barros et al., 2021b; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       |                                                                 | <i>Paramacroccephala foveata</i> Benvegnú, 1968                       | Barros et al., 2021b; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       |                                                                 | <i>Paramacroccephala helenae</i> Barros et al., 2021                  | Barros et al., 2021b                                                                                                                                                                                   |
|                     |       |                                                                 | <i>Paramacroccephala subsolana</i> Frey-da-Silva & Grazia, 2002       | Grazia & Schwertner, 2011; Barros et al., 2021b; Poester-Carvalho et al., 2023                                                                                                                         |
|                     |       |                                                                 | <i>Paramacroccephala unguayensis</i> (Piñán, 1970)                    | Poester-Carvalho et al., 2023                                                                                                                                                                          |
|                     |       | <i>Paratibiraca</i>                                             | <i>Paratibiraca infusata</i> Campos & Grazia, 1995                    | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                                                                                                               |
|                     |       | <i>Parentheca</i>                                               | <i>Parentheca aelionompha</i> Berg, 1891                              | Campos & Grazia, 1999                                                                                                                                                                                  |
|                     |       |                                                                 | <i>Parentheca subfucata</i> Berg, 1891                                | Campos & Grazia, 1999                                                                                                                                                                                  |
|                     |       | <i>Pedinonotus</i>                                              | <i>Pedinonotus catarinensis</i> Fernandes & Grazia, 2002              | Barros et al., 2021a; Poester-Carvalho et al., 2023                                                                                                                                                    |
| Proxysini           |       | <i>Pentatomiana</i>                                             | <i>Pentatomiana beckeriae</i> Grazia & Barcellos, 2004                | Carrenho et al., 2018; Poester-Carvalho et al., 2023                                                                                                                                                   |
|                     |       | <i>Poriptus</i>                                                 | <i>Poriptus luctans</i> Stål, 1861                                    | Poester-Carvalho et al., 2023                                                                                                                                                                          |
|                     |       | <i>Prolatucoris</i>                                             | <i>Prolatucoris mandibulatus</i> Barros et al., 2020                  | Barros et al., 2020b; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       |                                                                 | <i>Proxys albopunctulatus</i> (Palisot de Beauvois, 1805)             | Schmidt & Barcellos, 2007; Campos et al., 2009; Grazia & Schwertner, 2011; Bianchi et al., 2014; Garbelotto & Campos, 2014; Dellapé et al., 2015b; Firmino et al., 2017; Dellapé et al., 2024 – BiodAR |
|                     |       |                                                                 | <i>Proxys victor</i> (Fabricius, 1775)                                | Grazia & Schwertner, 2011                                                                                                                                                                              |
|                     |       | <i>Sibaria</i>                                                  | <i>Sibaria armata</i> (Dallas, 1851)                                  | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                          |
|                     |       | <i>Spinalanx</i>                                                | <i>Spinalanx rolstoni</i> Thomas, 1995                                | Weiler et al., 2012; Bianchi et al., 2014; Poester-Carvalho et al., 2023                                                                                                                               |
|                     |       | <i>Stysiana</i>                                                 | <i>Stysiana acarinatis</i> Grazia, Fernandes & Schwertner, 1999       | Barros et al., 2021a; Dellapé et al., 2024 – BiodAR                                                                                                                                                    |
|                     |       |                                                                 | <i>Stysiana meridionalis</i> Grazia, Fernandes & Schwertner, 1999     | Grazia et al., 1999; Barros et al., 2021a                                                                                                                                                              |
|                     |       |                                                                 | <i>Stysiana pardidens</i> Grazia, Fernandes & Schwertner, 1999        | Grazia et al., 1999; Barros et al., 2021a                                                                                                                                                              |
| Triumfusi           |       | <i>Stysiana tropicalis</i> Grazia, Fernandes & Schwertner, 1999 | Firmino et al., 2017; Barros et al., 2021a                            |                                                                                                                                                                                                        |
|                     |       | <i>Tibiraca</i>                                                 | <i>Tibiraca exigua</i> Fernandes & Grazia, 1998                       | Weiler et al., 2012; Garbelotto & Campos, 2014                                                                                                                                                         |
|                     |       |                                                                 | <i>Tibiraca limbiventris</i> Stål, 1860                               | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2024 – BiodAR                                                                                                                    |
|                     |       | <i>Triumfus</i>                                                 | <i>Triumfus canvalhoi</i> Barros et al., 2020                         | Barros et al., 2020a; Poester-Carvalho et al., 2023                                                                                                                                                    |
|                     |       | <i>Arocera</i>                                                  | <i>Arocera (Arocera) acroleuca</i> (Perty, 1833)                      | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                                                                                                               |
|                     |       |                                                                 | <i>Arocera (Euopta) apta</i> (Walker, 1867)                           | Poester-Carvalho et al., 2023                                                                                                                                                                          |
|                     |       |                                                                 | <i>Arocera (Euopta) nigrorubra</i> (Dallas, 1851)                     | Grazia & Schwertner, 2011; Silva et al., 2018                                                                                                                                                          |
|                     |       |                                                                 | <i>Arocera (Euopta) placens</i> (Walker, 1867)                        | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                                                                                                               |
|                     |       |                                                                 | <i>Arocera (Euopta) rufifrons</i> (Dallas, 1851)                      | Poester-Carvalho et al., 2023                                                                                                                                                                          |
|                     |       |                                                                 | <i>Arocera (Euopta) spectabilis</i> (Drury, 1782)                     | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023                                                                                                                    |
| Vulsireini          |       | <i>Boea</i>                                                     | <i>Boea decorata</i> Normilev, 1950                                   | Dellapé et al., 2024 – BiodAR                                                                                                                                                                          |
|                     |       | <i>Rhysocephala</i>                                             | <i>Rhysocephala rufilimbata</i> (Stål, 1872)                          | Grazia & Schwertner, 2011; Weiler et al., 2012; Bianchi et al., 2014; Poester-Carvalho et al., 2023                                                                                                    |
|                     |       | <i>Rumbia</i>                                                   | <i>Rumbia decorata</i> (Dallas, 1851)                                 | Zwetsch & Grazia, 2001; Grazia & Schwertner, 2011                                                                                                                                                      |
|                     |       |                                                                 | <i>Rumbia perspicua</i> (Fabricius, 1798)                             | Zwetsch & Grazia, 2001; Grazia & Schwertner, 2011                                                                                                                                                      |
|                     |       | <i>Vulsirea</i>                                                 | <i>Vulsirea violacea</i> (Fabricius, 1803)                            | Grazia & Schwertner, 2011; Firmino et al., 2017; Dellapé et al., 2024 – BiodAR                                                                                                                         |
|                     |       | <i>Chlorocoris</i>                                              | <i>Chlorocoris (Chlorocoris) complanatus</i> (Guérin-Mèneville, 1831) | Grazia & Schwertner, 2011; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                                                                                                                        |
|                     |       |                                                                 | <i>Chlorocoris (Chlorocoris) deplanatus</i> (Herrich-Schäffer, 1842)  | Thomas, 1985                                                                                                                                                                                           |
|                     |       |                                                                 | <i>Chlorocoris (Chlorocoris) fabulosus</i> Thomas, 1985               | Thomas, 1985                                                                                                                                                                                           |
|                     |       |                                                                 |                                                                       |                                                                                                                                                                                                        |
|                     |       |                                                                 |                                                                       |                                                                                                                                                                                                        |

| Subfamily     | Tribe | Genus | Species                                                        | References                                                                                                                                                                      |
|---------------|-------|-------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chlorocephala |       |       | <i>Chlorocoris (Chlorocoris) tau</i> Spinola, 1837             | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                              |
|               |       |       | <i>Chlorocephala luteipennis</i> (Westwood, 1837)              | Greve et al., 2013                                                                                                                                                              |
|               |       |       | <i>Chlorocephala pavell</i> Grazia, Schwertner & Greve, 2008   | Grazia et al., 2008b                                                                                                                                                            |
|               |       |       | <i>Chlorocephala rideri</i> Greve, Schwertner & Grazia, 2013   | Greve et al., 2013                                                                                                                                                              |
|               |       |       | <i>Chlorocephala vicens</i> (Stål, 1860)                       | Campos et al., 2009; Garbelotto & Campos, 2014                                                                                                                                  |
| Loxa          |       |       | <i>Loxa deducta</i> Walker, 1867                               | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Firmino et al., 2017; Dellapé et al., 2024 – BiodAR                                            |
|               |       |       | <i>Loxa virescens</i> Amyot & Serville, 1843                   | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2024 – BiodAR                                                                  |
|               |       |       | <i>Loxa viridis</i> (Palisot de Beauvois, 1805)                | Campos et al., 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2024 – BiodAR                                                                        |
|               |       |       | <i>Mayrinia curvidens</i> (Mayr, 1864)                         | Schmidt & Barcellos, 2007; Campos et al., 2009; Grazia & Schwertner, 2011; Weiler et al., 2012; Garbelotto & Campos, 2014; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR |
| Mayrinia      |       |       | <i>Mayrinia variegata</i> (Distant, 1880)                      | Grazia-Vieira, 1972                                                                                                                                                             |
|               |       |       | <i>Erthesina fullo</i> (Thunberg, 1783)                        | Brugnera et al., 2022                                                                                                                                                           |
|               |       |       | <i>Mecidea pampeana</i> Sailer, 1952                           | Dellapé et al., 2024 – BiodAR                                                                                                                                                   |
|               |       |       | <i>Rio acervatus</i> Fortes & Grazia, 2000                     | Grazia & Schwertner, 2011; Silva et al., 2018                                                                                                                                   |
|               |       |       | <i>Rio australis</i> Fortes & Grazia, 2000                     | Fortes & Grazia, 2000; Dellapé et al., 2024 – BiodAR                                                                                                                            |
|               |       |       | <i>Rio indistinctus</i> Fortes & Grazia, 2000                  | Schmidt & Barcellos, 2007; Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR                                                                                                 |
|               |       |       | <i>Rio pectoralis</i> (Stål, 1860)                             | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia armigera</i> (Stål, 1859)                          | Dellapé et al., 2024 – BiodAR                                                                                                                                                   |
|               |       |       | <i>Chinavia aseada</i> Rolston, 1983                           | Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                                                    |
|               |       |       | <i>Chinavia bipunctula</i> (Stål, 1872)                        | Poester-Carvalho et al., 2023                                                                                                                                                   |
| Chinavia      |       |       | <i>Chinavia brasiliola</i> Rolston, 1983                       | Grazia & Schwertner, 2011; Weiler et al., 2012; Bianchi et al., 2014; Poester-Carvalho et al., 2023                                                                             |
|               |       |       | <i>Chinavia difficilis</i> (Stål, 1860)                        | Campos et al., 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023                                                                        |
|               |       |       | <i>Chinavia erythronemis</i> (Berg, 1879)                      | Campos et al., 2009; Grazia & Schwertner, 2011; Dellapé et al., 2015b; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                             |
|               |       |       | <i>Chinavia esmeralda</i> Rolston, 1983                        | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia fuscopunctata</i> (Bredlin, 1901)                  | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia geniculata</i> (Dallas, 1851)                      | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia herbida</i> (Stål, 1859)                           | Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR                                                                                                                            |
|               |       |       | <i>Chinavia immaculata</i> (Frey-da-Silva & Grazia, 2000)      | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia impicticornis</i> (Stål, 1872)                     | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé et al., 2015a; Dellapé et al., 2015b; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                |
|               |       |       | <i>Chinavia longianalis</i> (Bredlin, 1901)                    | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                                                                                        |
|               |       |       | <i>Chinavia napaea</i> (Stål, 1872)                            | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia nigridorsata</i> (Bredlin, 1901)                   | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023                                                                                             |
|               |       |       | <i>Chinavia obstinata</i> (Stål, 1860)                         | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                              |
|               |       |       | <i>Chinavia perque</i> Rolston, 1983                           | Weiler et al., 2012; Bianchi et al., 2014; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                              |
|               |       |       | <i>Chinavia portagrossensis</i> (Frey-da-Silva & Grazia, 2000) | Grazia & Schwertner, 2011; Poester-Carvalho et al., 2023                                                                                                                        |
|               |       |       | <i>Chinavia rideri</i> (Frey-da-Silva & Grazia, 2000)          | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia rogenhoferi</i> (Stål, 1872)                       | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia rufithibia</i> Schwertner & Grazia, 2006           | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia runaspis</i> (Dallas, 1851)                        | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                   |
|               |       |       | <i>Chinavia simplicis</i> (Rolston, 1983)                      | Poester-Carvalho et al., 2023                                                                                                                                                   |
| Cyrtoccephala |       |       | <i>Chinavia tuicauna</i> Schwertner & Grazia, 2006             | Poester-Carvalho et al., 2023                                                                                                                                                   |
|               |       |       | <i>Chinavia ubica</i> Rolston, 1983                            | Grazia & Schwertner, 2011; Firmino et al., 2017; Poester-Carvalho et al., 2023                                                                                                  |
|               |       |       | <i>Cyrtoccephala alvarengai</i> Rolston, 1986                  | Rolston, 1986                                                                                                                                                                   |
|               |       |       | <i>Nezara viridula</i> (Linnaeus, 1758)                        | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2015a; Dellapé et al., 2024 – BiodAR                                                                      |

| Subfamily   | Tribe   | Genus             | Species                                                    | References                                                                                                                                                                                                                                                  |
|-------------|---------|-------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Roletia     | Thyanta | <i>Roletia</i>    | <i>Roletia marginalis</i> (Herrich-Schäffer, 1836)         | Grazia & Schwertner, 2011; Firmino <i>et al.</i> , 2017                                                                                                                                                                                                     |
|             |         | <i>Thyanta</i>    | <i>Thyanta (Argosoma) acuminata</i> Ruckes, 1956           | Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                                                       |
| Pentatomini |         |                   | <i>Thyanta (Argosoma) brasiliensis</i> Jensen-Haarup, 1928 | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                           |
|             |         |                   | <i>Thyanta (Argosoma) humilis</i> (Stål, 1859)             | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Firmino <i>et al.</i> , 2017; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR     |
|             |         |                   | <i>Thyanta (Argosoma) patruelis</i> (Stål, 1859)           | Schmidt & Barcellos, 2007; Dellapé <i>et al.</i> , 2015a; Silva <i>et al.</i> , 2018                                                                                                                                                                        |
|             |         |                   | <i>Thyanta (Phacidium) acuta</i> Ruckes, 1952              | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                      |
|             |         |                   | <i>Thyanta (Phacidium) limbrata</i> Rider, 1991            | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                            |
|             |         |                   | <i>Thyanta (Phacidium) robusta</i> Rider, 1991             | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                            |
|             |         |                   | <i>Thyanta (Thyanta) perditor</i> (Fabricius, 1794)        | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR |
|             |         | <i>Arvelius</i>   | <i>Arvelius acutispinus</i> Breddin, 1909                  | Brailovsky, 1981                                                                                                                                                                                                                                            |
|             |         |                   | <i>Arvelius albopunctatus</i> (DeGeer, 1773)               | Schmidt & Barcellos, 2007; Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Bianchi <i>et al.</i> , 2014; Garbelotto & Campos, 2014; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR             |
|             |         |                   | <i>Arvelius confusus</i> Brailovsky, 1981                  | Brailovsky, 1981                                                                                                                                                                                                                                            |
| Banasa      |         |                   | <i>Arvelius diluticornis</i> Breddin, 1909                 | Brailovsky, 1981; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                          |
|             |         |                   | <i>Arvelius intermedius</i> Brailovsky, 1981               | Brailovsky, 1981; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                     |
|             |         |                   | <i>Arvelius latus</i> Breddin, 1909                        | Garbelotto & Campos, 2014                                                                                                                                                                                                                                   |
|             |         |                   | <i>Arvelius paralongirostris</i> Brailovsky, 1981          | Brailovsky, 1981; Grazia & Schwertner, 2011                                                                                                                                                                                                                 |
|             |         |                   | <i>Arvelius parrectispinus</i> Breddin, 1909               | Firmino <i>et al.</i> , 2017                                                                                                                                                                                                                                |
|             |         |                   | <i>Banasa alboapicata</i> (Stål, 1860)                     | Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015a; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                  |
|             |         |                   | <i>Banasa angulobata</i> Thomas, 1990                      | Thomas & Yonke, 1990; Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                           |
|             |         |                   | <i>Banasa chaca</i> Thomas, 1990                           | Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                     |
|             |         |                   | <i>Banasa derivata</i> (Walker, 1867)                      | Thomas & Yonke, 1990                                                                                                                                                                                                                                        |
|             |         |                   | <i>Banasa dolabrata</i> Thomas, 1990                       | Dellapé, 2021; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                        |
| Eropilinus  |         |                   | <i>Banasa dubia</i> Thomas, 1990                           | Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bianchi <i>et al.</i> , 2014; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                 |
|             |         |                   | <i>Banasa induta</i> Stål, 1860                            | Bianchi <i>et al.</i> , 2014                                                                                                                                                                                                                                |
|             |         |                   | <i>Banasa lanceolata</i> Thomas, 1990                      | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                      |
|             |         |                   | <i>Banasa maculata</i> Campos & Garbelotto, 2010           | Garbelotto & Campos, 2014; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                                                                            |
|             |         |                   | <i>Banasa nigrifrons</i> Thomas, 1990                      | Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2015b; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                      |
|             |         |                   | <i>Banasa patagiata</i> (Berg, 1879)                       | Schmidt & Barcellos, 2007                                                                                                                                                                                                                                   |
|             |         |                   | <i>Banasa peruana</i> Thomas, 1990                         | Dellapé, 2021; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                        |
|             |         |                   | <i>Banasa subrufescens</i> (Walker, 1867)                  | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                                       |
|             |         |                   | <i>Banasa sulcata</i> Thomas, 1990                         | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Poester-Carvalho <i>et al.</i> , 2023                                                                                                                                    |
|             |         |                   | <i>Banasa varians</i> (Stål, 1860)                         | Thomas & Yonke, 1990                                                                                                                                                                                                                                        |
| Kermana     |         | <i>Eropilinus</i> | <i>Eropilinus humeralis</i> (Westwood, 1837)               | Grazia & Schwertner, 2011; Poester-Carvalho <i>et al.</i> , 2023; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                     |
|             |         | <i>Grazia</i>     | <i>Grazia tincta</i> (Distant, 1890)                       | Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                                                       |
|             |         | <i>Kermana</i>    | <i>Kermana bucera</i> (Stål, 1860)                         | Stål, 1860                                                                                                                                                                                                                                                  |
|             |         |                   | <i>Kermana fucosa</i> (Berg, 1892)                         | Dellapé <i>et al.</i> , 2015b; Dellapé <i>et al.</i> , 2024 – BiodAR; unpublished data from DZUP collection                                                                                                                                                 |
|             |         | <i>Marghita</i>   | <i>Marghita crepuscula</i> Ruckes, 1964                    | Grazia & Koehler, 1983; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                                                                               |
|             |         |                   | <i>Marghita similina</i> Grazia & Koehler, 1983            | Grazia & Koehler, 1983; Schmidt & Barcellos, 2007; Grazia & Schwertner, 2011; Dellapé <i>et al.</i> , 2024 – BiodAR                                                                                                                                         |
|             |         | <i>Myota</i>      | <i>Myota aerea</i> (Herrich-Schäffer, 1841)                | Campos <i>et al.</i> , 2009; Grazia & Schwertner, 2011; Weiler <i>et al.</i> , 2012; Bian                                                                                                                                                                   |

| Subfamily | Tribe | Genus                 | Species                                                         | References                                                                                                                                                                                              |
|-----------|-------|-----------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |       | <i>Pellania</i>       | <i>Pellania macunaima</i> Grazia, 1980                          | Schmidt & Barcellos, 2007; Dellapé et al., 2015b; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                          |
|           |       |                       | <i>Pellaea stictica</i> (Dallas, 1851)                          | Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2024 – BiodAR                                                                                                                     |
|           |       | <i>Pseudevophilus</i> | <i>Pseudevophilus costalimai</i> Grazia, Becker & Thomas, 1994  | Grazia et al., 1994                                                                                                                                                                                     |
|           |       |                       | <i>Pseudevophilus paradoxus</i> Ruckes, 1958                    | Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                                                                            |
|           |       | <i>Serdia</i>         | <i>Serdia apicicornis</i> Stål, 1860                            | Bianchi et al., 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                                                      |
|           |       |                       | <i>Serdia bicolor</i> Fortes & Grazia, 2005                     | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia calligera</i> Stål, 1860                              | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia cancolor</i> Ruckes, 1958                             | Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                                                                            |
|           |       |                       | <i>Serdia costalis</i> Ruckes, 1958                             | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia delphis</i> Thomas & Rolston, 1985                    | Grazia & Schwertner, 2011                                                                                                                                                                               |
|           |       |                       | <i>Serdia indistincta</i> Fortes & Grazia, 2005                 | Schmidt & Barcellos, 2007; Dellapé et al., 2015a; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                          |
|           |       |                       | <i>Serdia inspersipes</i> Stål, 1860                            | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia limbatipennis</i> Stål, 1860                          | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia lobata</i> Thomas & Rolston, 1985                     | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia maculata</i> Fortes & Grazia, 2005                    | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       |                       | <i>Serdia maxima</i> Fortes & Grazia, 2005                      | Garbelotto & Campos, 2014; Poester-Carvalho et al., 2023; Dellapé et al., 2024 – BiodAR                                                                                                                 |
|           |       |                       | <i>Serdia robusta</i> Fortes & Grazia, 2005                     | Dellapé et al., 2015a                                                                                                                                                                                   |
|           |       |                       | <i>Serdia ratundicornis</i> Becker, 1967                        | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       | <i>Similiserdia</i>   | <i>Similiserdia aciculata</i> Fortes & Grazia, 1998             | Fortes & Grazia, 1998                                                                                                                                                                                   |
|           |       | <i>Stictochilus</i>   | <i>Stictochilus tripunctatus</i> Bergroth, 1918                 | Campos et al., 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Firmino et al., 2017                                                                                                         |
|           |       | <i>Taurocerus</i>     | <i>Taurocerus achilles</i> Stål, 1862                           | Grazia & Barcellos, 2005                                                                                                                                                                                |
|           |       |                       | <i>Taurocerus edessoides</i> (Spinola, 1837)                    | Grazia & Barcellos, 2005; Grazia & Schwertner, 2011                                                                                                                                                     |
|           |       | <i>Tibilis</i>        | <i>Tibilis apposita</i> Barcellos & Grazia, 1993                | Barcellos & Grazia, 1993; Grazia & Schwertner, 2011                                                                                                                                                     |
|           |       |                       | <i>Tibilis riograndensis</i> Barcellos & Grazia, 1993           | Barcellos & Grazia, 1993                                                                                                                                                                                |
|           |       |                       | <i>Tibilis subconspersa</i> Stål, 1860                          | Barcellos & Grazia, 1993                                                                                                                                                                                |
|           |       | <i>Piezodorus</i>     | <i>Piezodorus guildinii</i> (Westwood, 1837)                    | Schmidt & Barcellos, 2007; Campos et al., 2009; Grazia & Schwertner, 2011; Garbelotto & Campos, 2014; Dellapé et al., 2015a; Dellapé et al., 2015b; Firmino et al., 2017; Dellapé et al., 2024 – BiodAR |
|           |       |                       | <i>Alexius tobyschuhii</i> Schwertner & Grazia, 2012            | Schwertner & Grazia, 2012                                                                                                                                                                               |
|           |       | <i>Neoderoploa</i>    | <i>Neoderoploa bruchii</i> Pennington, 1922                     | Dellapé et al., 2024 – BiodAR                                                                                                                                                                           |
|           |       | <i>Odmalea</i>        | <i>Odmalea cancolor</i> (Walker, 1867)                          | Rolston, 1978a                                                                                                                                                                                          |
|           |       |                       | <i>Odmalea pallida</i> (Jensen-Haarup, 1931)                    | Rolston, 1978a; Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR                                                                                                                                    |
|           |       | <i>Paradmalea</i>     | <i>Paradmalea rubella</i> Rider, 1994                           | Silva et al., 2018                                                                                                                                                                                      |
|           |       | <i>Procteticus</i>    | <i>Procteticus coringer</i> Berg, 1891                          | Dellapé et al., 2024 – BiodAR                                                                                                                                                                           |
|           |       | <i>Thoreyella</i>     | <i>Thoreyella brasiliensis</i> Spinola, 1852                    | Bernardes et al., 2011                                                                                                                                                                                  |
|           |       |                       | <i>Thoreyella cornuta</i> Berg, 1883                            | Bernardes et al., 2011; Dellapé et al., 2015b                                                                                                                                                           |
|           |       |                       | <i>Thoreyella maracaja</i> Bernardes, Schwertner & Grazia, 2011 | Campos et al., 2009; Garbelotto & Campos, 2014                                                                                                                                                          |
|           |       |                       | <i>Thoreyella taurus</i> Jensen-Haarup, 1931                    | Ruckes & Becker, 1970                                                                                                                                                                                   |
|           |       |                       | <i>Thoreyella trinotata</i> Berg, 1878                          | Dellapé et al., 2015b; Dellapé et al., 2024 – BiodAR                                                                                                                                                    |
|           |       | <i>Strachiini</i>     | <i>Murgantia bifasciata</i> (Herrich-Schäffer, 1836)            | Dellapé et al., 2024 – BiodAR                                                                                                                                                                           |
|           |       | Unplaced              | <i>Anhangia modesta</i> Distant, 1887                           | Poester-Carvalho et al., 2023                                                                                                                                                                           |
|           |       | Unplaced              | <i>Capiivaccius buffo</i> Distant, 1893                         | Schmidt & Barcellos, 2007; Garbelotto & Campos, 2014                                                                                                                                                    |
| Podopinae |       | <i>Scotinophara</i>   | <i>Scotinophara</i> sp.                                         | Grazia et al., 2024b                                                                                                                                                                                    |



**Figure 2.** Dorsal habitus of the Pentatomidae fauna of the Boraceia Biological Station. (A-B) Asopinae. (C-F) Discocephalinae: Ochlerini. (G-J) Edessinae. (K-P) Pentatominae: Carpocorini. Scale bars = 5 mm.

***Janeirona roellae* Sampaio & Campos, 2024  
(Fig. 2E)**

**Distribution: Brazil:** Minas Gerais, Rio de Janeiro, São Paulo, Santa Catarina (Sampaio *et al.*, 2024).

**Comments:** One female paratype of *J. roellae* was collected in BBS.

***Janeirona stenosa* Sampaio & Campos, 2024**

**Distribution: Brazil:** Rio de Janeiro, São Paulo, Santa Catarina (Sampaio *et al.*, 2024).

**Comments:** One female paratype of *J. stenosa* was collected in BBS.

***Schaefferella incisa* (Herrich-Schäffer, 1839)  
(Fig. 2F)**

**Distribution: Brazil:** Minas Gerais, Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina (Grazia *et al.*, 2024a).

**Subfamily Edessinae*****Edessa herrichi* Berg, 1892  
(Fig. 2G)**

**Distribution: Brazil:** São Paulo (new record). **Argentina** (Grazia *et al.*, 2017).

**Comments:** This species may also occurs in the Paraná and Rio Grande do Sul states, based on observations on the iNaturalist online platform. The specimens depicted probably belong to *E. herrichi*, however, their identification cannot be entirely ascertained and remains open to revision. These records can be accessed at [https://www.inaturalist.org/observations?place\\_id=any&taxon\\_id=1365393](https://www.inaturalist.org/observations?place_id=any&taxon_id=1365393).

***Edessa loxdalii* Westwood, 1837  
(Fig. 2H)**

**Distribution: Brazil:** Amapá, Amazonas, Pará, Maranhão, Alagoas, Rondônia, Mato Grosso, Goiás, São Paulo, Paraná (Grazia & Schwertner, 2011; Lucini & Panizzi, 2016; Silva *et al.*, 2018). **Costa Rica, Guyana** (Silva *et al.*, 2018).

***Edessa rufomarginata* (De Geer, 1773)  
(Fig. 2I)**

**Distribution: Brazil:** Roraima, Amapá, Amazonas, Pará, Maranhão, Ceará, Pernambuco, Acre, Alagoas, Rondônia, Mato Grosso, Bahia, Goiás, Minas Gerais, Espírito Santo, Rio de Janeiro, São Paulo, Rio Grande do Sul. **Mexico, Honduras, Costa Rica, Panama, Colombia, Venezuela,**

**French Guiana, Ecuador, Bolivia, Argentina, Uruguay** (Silva *et al.*, 2018).

**Comments:** *Edessa rufomarginata*, alongside *Edessa mediatubunda* (Fabricius, 1794), is one of the most widespread species of the genus, which is very speciose. In the Atlantic Rain Forest, more than 40 species of *Edessa* are found (Table 2).

***Pygoda polita* (Lepeletier & Serville, 1825)  
(Fig. 2J)**

**Distribution: Brazil:** Pará, Maranhão, Tocantins, Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul. **Ecuador, Bolivia, Paraguay, Argentina** (Fernandes *et al.*, 2018).

**Subfamily Pentatominae****Tribe Carpocorini*****Adustonotus grandis* (Rolston, 1978b)  
(Fig. 2K)**

**Distribution: Brazil:** Rio de Janeiro, São Paulo, Santa Catarina (Rolston, 1978b).

**Comments:** Rolston (1978a) described *Euschistus (Mitripus) grandis* based on specimens from Rio de Janeiro, Santa Catarina, and São Paulo and mentioned that the species probably also occurs in Minas Gerais. Bianchi *et al.* (2016a) transferred *E. (Mitripus) grandis* and seven other species to *Adustonotus* Bianchi, 2016 based on a phylogenetic analysis. Eight other species of *Adustonotus* also occur in the Atlantic Rain Forest (Table 2). We initially identified *Adustonotus grandis* based on the key available in Bianchi *et al.* (2016a). However, *Adustonotus graziae* Bianchi, 2021 is very similar to *A. grandis*, these two species are differentiated based on characteristics of the male genitalia (Bianchi, 2021). Since our specimen is a female, our identification is based on the description and illustrations of the pronotum of both species (Bianchi *et al.*, 2016a; Bianchi, 2021). The two species occur in the same regions of Brazil, but *A. graziae* appears to be a rarer species than *A. grandis*, more common (Bianchi, 2021).

***Caonabo pseudoscyllax* (Bergroth, 1891)  
(Fig. 2L)**

**Distribution: Brazil:** Minas Gerais, Rio de Janeiro, Paraná, Santa Catarina, Rio Grande do Sul (Rolston, 1974), São Paulo (new record).

***Diceraeus furcatus* (Fabricius, 1775)  
(Fig. 2M)**

**Distribution: Brazil:** Amazonas, Mato Grosso, Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina,

Rio Grande do Sul (Silva *et al.*, 2018; Barão *et al.*, 2020). **Bolivia, Paraguay, Argentina, Uruguay** (Barão *et al.*, 2020).

**Comments:** *Diceraeus melacanthus* Dallas, 1851 and *Diceraeus phoenix* Grazia, 1978 also occur in the Atlantic Rain Forest (Table 2). The species can be identified using the key provided by Pooock-da-Silva *et al.* (2013).

***Dichelops (Dichelops) punctatus* Spinola, 1837  
(Fig. 2N)**

**Distribution:** **Brazil:** Minas Gerais, Rio de Janeiro, São Paulo, Rio Grande do Sul. **Uruguay** (Grazia, 1978).

**Comments:** Six other species of the subgenus *Dichelops* are distributed in the Atlantic Rain Forest (Table 2). The key provided by Grazia (1978) can be used to separate the species.

***Euschistus (Lycipta) picticornis* Stål, 1872  
(Fig. 2O)**

**Distribution:** **Brazil:** Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul. **Argentina, Uruguay** (Weiler *et al.*, 2016).

**Comments:** Besides the two species of subgenus *Lycipta* listed herein, 10 other species can be found in the Atlantic Rain Forest (Table 2). They can be identified by the key provided in Weiler *et al.* (2011).

***Euschistus (Lycipta) triangulator* (Herrich-Schäffer, 1842)  
(Fig. 2P)**

**Distribution:** **Brazil:** Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Weiler *et al.*, 2016).

***Galedanta compastoides* Breddin, 1906  
(Fig. 3A)**

**Distribution:** **Brazil:** Amazonas, São Paulo, Santa Catarina (Grazia, 1967).

**Comments:** Three other species of *Galedanta* Amyot & Serville, 1843 occur in the Atlantic Rain Forest (Table 2). The taxonomic works of Grazia (1967, 1981) can be used to identify the species of the genus.

***Mormidea (Mormidea) cornicollis* Stål, 1860  
(Figs. 3B, 5A-D)**

**Distribution:** **Brazil:** Rio de Janeiro, Paraná, Santa Catarina, Rio Grande do Sul (Rolston, 1978c), São Paulo (**new record**). **Argentina** (Rolston, 1978c).

**Comments:** Nine species of *Mormidea* are distributed in the Atlantic Rain Forest (Table 2). Three species are listed here. The identification of the species of the genus is difficult, even with the key and the illustrations provided by Rolston (1978b). For this reason, we illustrated the external genitalia of both sexes of the three species (Fig. 5) found in the Boraceia Biological Station.

***Mormidea (Mormidea) v-luteum* (Lichtenstein, 1796)  
(Figs. 3C, 5E-H)**

**Distribution:** **Brazil:** Ceará, Pernambuco, Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul (Rolston, 1978b; Schmidt & Barcellos, 2007; Weiler *et al.*, 2012; Brito *et al.*, 2019). **Paraguay, Argentina, Uruguay** (Rolston, 1978c).

***Mormidea (Mormidea) ypsilon* (Linnaeus, 1758)  
(Figs. 3D, 5I-L)**

**Distribution:** **Brazil:** Amapá, Pará, Maranhão, Acre, Alagoas, Rondônia, Goiás, Mato Grosso, São Paulo, Rio Grande do Sul, (Firmino *et al.*, 2017; Silva *et al.*, 2018). **Mexico, Guatemala, Honduras, Nicaragua, Panama, Colombia, Guyana, Suriname, French Guiana, Argentina, Uruguay** (Dellapé *et al.*, 2015a; Silva *et al.*, 2018).

***Oebalus ypsilongriseus* (De Geer, 1773)  
(Fig. 3E)**

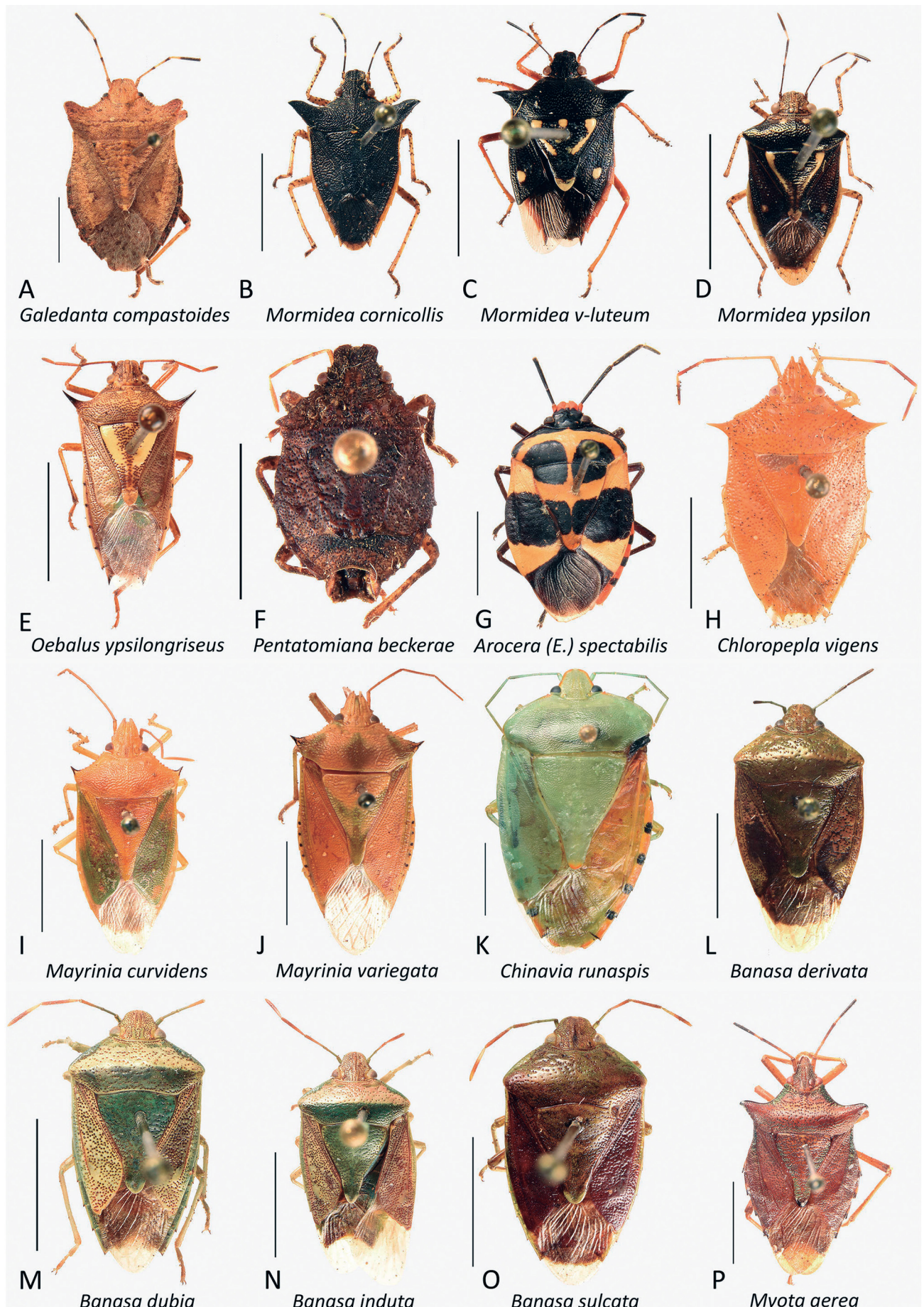
**Distribution:** **Brazil:** Amapá, Amazonas, Pará, Maranhão, Acre, Mato Grosso, Minas Gerais, São Paulo, Santa Catarina, Rio Grande do Sul. **Dominican Republic, Colombia, Venezuela, Guyana, Suriname, Peru, Paraguay, Argentina, Uruguay** (Sailer, 1944; Silva *et al.*, 2018).

**Comments:** *Oebalus poecilus* (Dallas, 1851) is the only other species of the genus found in the Atlantic Rain Forest; the general habitus of these two species is very distinct, therefore their separation is not difficult. The work of Sailer (1944) presents a key for most species of the genus.

***Pentatomiana beckeri* Grazia & Barcellos, 2004  
(Fig. 3F)**

**Distribution:** **Brazil:** Rio de Janeiro, São Paulo, Santa Catarina (Grazia & Barcellos, 2004; Carrenho *et al.*, 2018).

**Comments:** *Pentatomiana* Grazia & Barcellos, 2004 is a monotypic genus, so far endemic to the Atlantic Rain Forest. The female listed in Table 1 also is the same examined by Carrenho *et al.* (2018).



**Figure 3.** Dorsal habitus of the Pentatomidae: Pentatominae (cont.) fauna. (A-F) Carpocorini. (G) Catantophini. (H-J) Chlorocorini. (K) Nezarini. (L-P) Pentatomini. Scale bars = 5 mm.

### Tribe Catacanthini

#### *Arocera (Euopta) spectabilis* (Drury, 1782) (Fig. 3G)

**Distribution: Brazil:** Rio Grande do Norte, Pernambuco, Bahia, Minas Gerais, Espírito Santo, Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Rider, 1992). **Colombia, Ecuador, Peru** (Castro-Huertas *et al.*, 2022).

**Comments:** This species was recorded in the BBS by Rider (1992), nonetheless without information about the specimens examined, including depository and filed collection data. *Arocera (Arocera) acroleuca* (Perty, 1833), *Arocera (Euopta) apta* (Walker, 1867), *A. (E.) placens* (Walker, 1867) and *A. (E.) rufifrons* (Dallas, 1851) can also be found in the Atlantic Rain Forest (Table 2), but they are easily separated with the key available (Rider, 1992).

### Tribe Chlorocorini

#### *Chloropepla vigens* (Stål, 1860) (Fig. 3H)

**Distribution: Brazil:** Goiás, Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Greve *et al.*, 2013). **Argentina, Uruguay** (Grazia *et al.*, 2017, Genevcius *et al.*, 2021).

**Comments:** *Chloropepla luteipennis* (Westwood, 1837) is known only from the female holotype, collected in the State of Rio de Janeiro (Greve *et al.*, 2013), and can also be considered a record for the Atlantic Rain Forest (Table 2). *Chloropepla paveli* Grazia, Schwertner & Greve, 2008 and *C. rideri* Greve, Schwertner & Grazia, 2013 are the other two species recorded in the Atlantic Rain Forest. Greve *et al.* (2013) provided a synopsis of the genus with an identification key for all species.

#### *Mayrinia curvidens* (Mayr, 1864) (Fig. 3I)

**Distribution: Brazil:** Pará, Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul. **Bolivia, Paraguay, Argentina** (Grazia-Vieira, 1972).

#### *Mayrinia variegata* (Distant, 1880) (Fig. 3J)

**Distribution: Brazil:** Amazonas, Pará, Mato Grosso, Rondônia, Rio de Janeiro (Grazia-Vieira, 1972; Silva *et al.*, 2018), São Paulo (**new record**). **Mexico, Honduras, Nicaragua, Costa Rica, Panama, Colombia, Venezuela, Guyana, Peru, Argentina** (Grazia-Vieira, 1972; Silva *et al.*, 2018; Dellapé, 2021; Genevcius *et al.*, 2021).

### Tribe Nezarini

#### *Chinavia runaspis* (Dallas, 1851) (Fig. 3K)

**Distribution: Brazil:** Amapá, Amazonas, Pará, Pernambuco, Rondônia, Mato Grosso, Bahia, Minas Gerais, Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Schwertner & Grazia, 2007; Servino & Schwertner, 2020). **Colombia, Venezuela, Suriname, French Guiana, Ecuador, Peru, Bolivia, Paraguay, Argentina** (Schwertner & Grazia, 2007; Servino & Schwertner, 2020; Castro-Huertas *et al.*, 2022).

**Comments:** More than 20 species of *Chinavia* Orian, 1965 can be found in the Atlantic Rain Forest (Table 2). A key for the species and notes on their distribution can be found in Schwertner & Grazia (2007) and Servino & Schwertner (2020).

### Tribe Pentatomini

#### *Banasa derivata* (Walker, 1867) (Fig. 3L)

**Distribution: Brazil:** Minas Gerais, Rio de Janeiro, Paraná (Thomas & Yonke, 1990), São Paulo (**new record**). **Argentina, Uruguay** (Thomas & Yonke, 1990).

**Comments:** *Banasa* Stål, 1860 is a very speciose genus, with 15 species distributed throughout the Atlantic Rain Forest (Table 2). The identification of the species can be done with the keys provided by Thomas & Yonke (1990) and the taxonomic works of Campos *et al.* (2010) and Garbelotto *et al.* (2011).

#### *Banasa dubia* Thomas, 1990 (Fig. 3M)

**Distribution: Brazil:** São Paulo, Rio Grande do Sul (Thomas & Yonke, 1990; Weiler *et al.*, 2012; Bianchi *et al.*, 2014).

**Comments:** The Boraceia Biological Station, Salesópolis, São Paulo, Brazil, is the type-locality of this species and, so far, the only known locality for this species in the state. The holotype and six paratypes (three males and three females) are deposited in NHMUK, according to Thomas & Yonke (1990).

#### *Banasa induta* Stål, 1860 (Fig. 3N)

**Distribution: Brazil:** Rio de Janeiro, Santa Catarina, Rio Grande do Sul (Thomas & Yonke, 1990; Bianchi *et al.*, 2014), São Paulo (**new record**). **Argentina** (Thomas & Yonke, 1990).

***Banasa sulcata* Thomas, 1990  
(Fig. 3O)**

**Distribution:** **Brazil:** São Paulo, Santa Catarina, Rio Grande do Sul (Thomas & Yonke, 1990).

**Comments:** Thomas & Yonke (1990) listed two paratypes from Boraceia Biological Station, deposited in the DBTC and NHMUK collections.

***Myota aerea* (Herrich-Schäffer, 1841)  
(Fig. 3P)**

**Distribution:** **Brazil:** Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Campos *et al.*, 2009, Grazia & Schwertner, 2011; Weiler *et al.*, 2012; Bianchi *et al.*, 2014; Garbelotto & Campos, 2014). **Argentina** (Grazia *et al.*, 2017).

**Comments:** This species also may occur in the Minas Gerais, Espírito Santo, and Paraná states, based on observations on the iNaturalist online platform. These records can be accessed at [https://www.inaturalist.org/observations?place\\_id=any&taxon\\_id=805179](https://www.inaturalist.org/observations?place_id=any&taxon_id=805179).

***Serdia concolor* Ruckes, 1958  
(Fig. 4A)**

**Distribution:** **Brazil:** Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul. **Venezuela, Bolivia, Paraguay, Argentina** (Fortes & Grazia, 2005).

**Comments:** Fortes & Grazia (2005) examined a male from Boraceia Biological Station and indicated the MZSP as

the depository for the specimen. This specimen was also examined in this work (Table 1). Besides the three species reported here, other 13 species of *Serdia* can be found in the Atlantic Rain Forest (Table 2). An identification key for all species is available in Fortes & Grazia (2005).

***Serdia inspersipes* Stål, 1860  
(Fig. 4B)**

**Distribution:** **Brazil:** Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul (Fortes & Grazia, 2005).

**Comments:** Fortes & Grazia (2005) examined two females from Boraceia Biological Station and indicated the FIOC and MZSP as the depositories for these specimens. We examined the specimen deposited in the MZSP (Table 1).

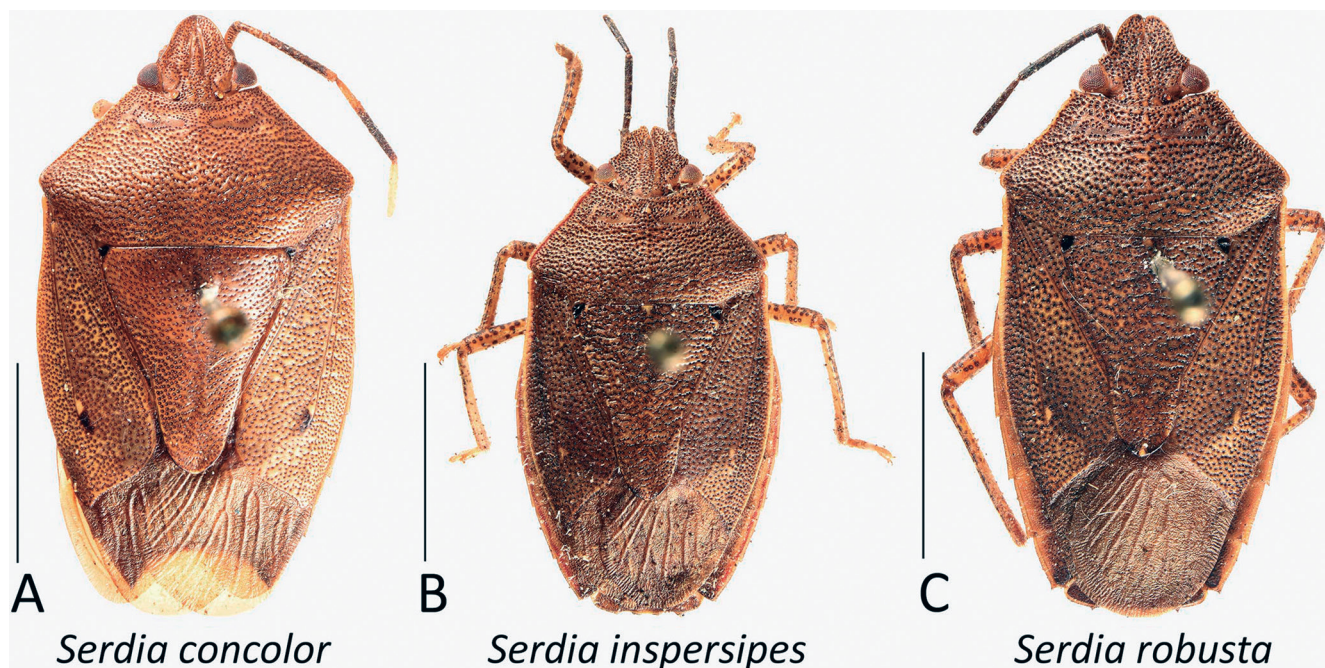
***Serdia robusta* Fortes & Grazia, 2005  
(Fig. 4C)**

**Distribution:** **Brazil:** Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul (Fortes & Grazia, 2005).

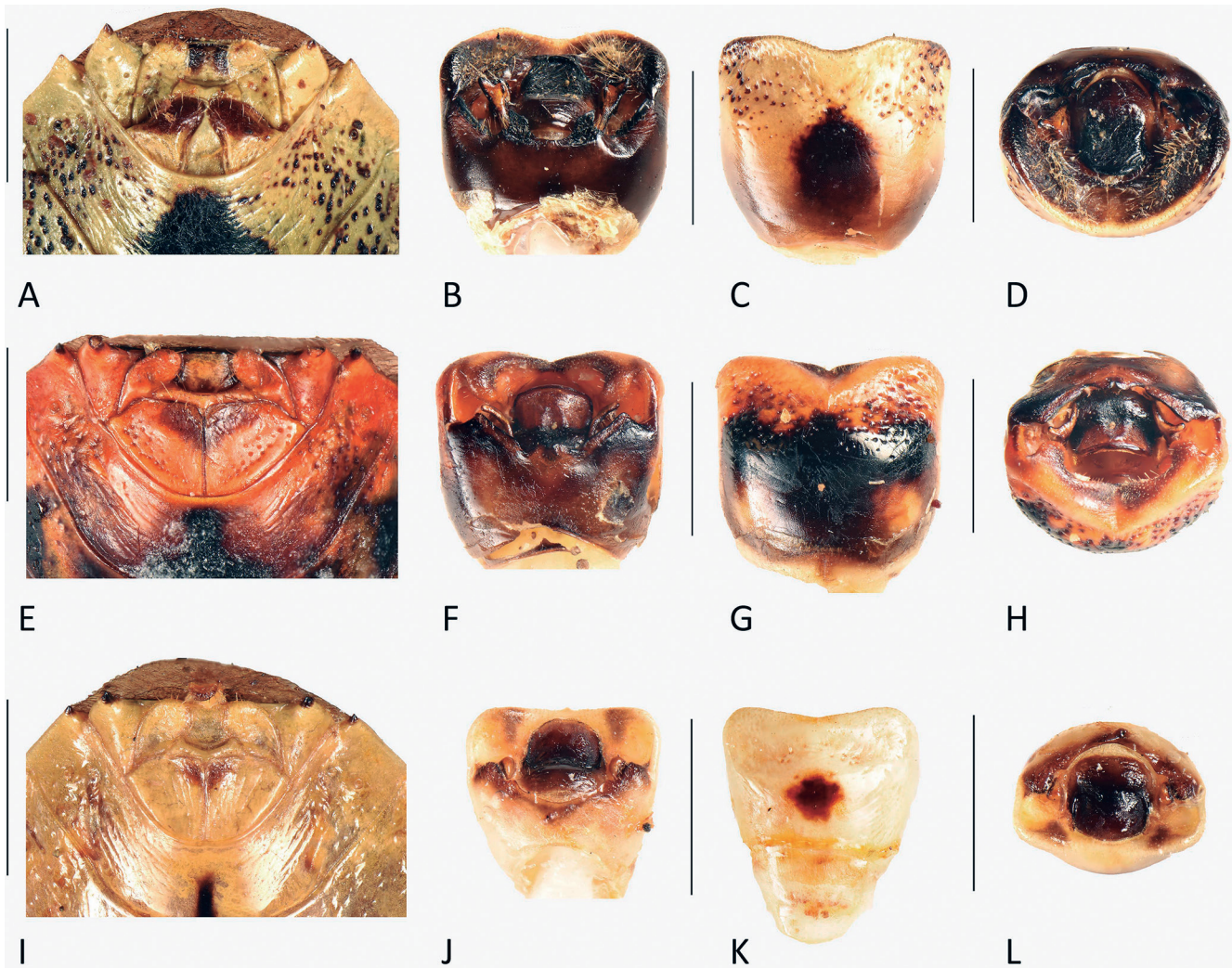
**Comments:** The specimen from Boraceia Biological Station is a female paratype determined by Fortes & Grazia (2005), deposited in the MZSP and examined in this work (Table 1).

**Checklist of stink bugs from the Atlantic Rain Forest**

We found records for 462 species in the Atlantic Rain Forest (Table 2). The most speciose subfamily in the biome was Pentatominae, with 254 species, followed by



**Figure 4.** Dorsal habitus of the Pentatominae: Pentatomini (cont.) fauna. Scale bars = 5 mm.



**Figure 5.** External genitalia of the three species of *Mormidea* listed in this work. (A-D) *Mormidea cornicollis*. (E-H) *Mormidea v-luteum*. (I-L) *Mormidea ypsilon*. (A, E, I) Female genital plates, ventral view. (B, F, J) Pygophores, dorsal view. (C, G, K) Same, ventral view. (D, H, L) Same, posterior view. Scale bars = 1 mm.

Discocephalinae (99 species), Edessinae (66 species), Asopinae (34 species), Cyrtocorinae (8 species), and Podopinae (one species).

## DISCUSSION

Pentatomidae is Brazil's most speciose family of Pentatomomorpha, with around 943 species recorded to the country (Grazia *et al.*, 2024b, p. 399), and the second most speciose family of Heteroptera, second only to Miridae (Grazia *et al.*, 2024b). Almost half of the stink bugs recorded in Brazil is also found in the Atlantic Rain Forest (Table 2). Furthermore, our study showed that at least 36 species of Pentatomidae, ca. 7% of the recorded diversity in the Atlantic Rain Forest, are found in the Boraceia Biological Station (BBS), representing an important preserved fragment in the State of São Paulo.

Several species listed for the BBS (> 50%) are possible endemics of the Atlantic Rain Forest (Table 1), with five of them (*Banasa dubia*, *B. sulcata*, *Janeirona roellae*, *J. stenosa*, and *Serdia robusta*) described from specimens collected in the BBS. Those species described from the BBS represent ca. 14% of the recorded species.

Additionally, several species listed represent new locality records for the BBS. Moreover, six of them (*Edessa herrichi*, *Caonabo pseudoscylax*, *Mormidea* (M.) *cornicollis*, *Mayrinia variegata*, *Banasa derivata*, and *B. induta*) represent new records in the State. The results presented here, including the new information, underscore the critical role of biodiversity inventories in addressing gaps in biodiversity knowledge, even in regions already considered well-sampled. These inventories are not limited to new fieldwork; significant biodiversity information is also available in existing biological collections requiring curatorial treatment and resources for maintenance (Vargas *et al.*, 2024). Combining data from biological collections with additional fieldwork enhances the ability to address geographical gaps in species distribution (Daru *et al.*, 2018; Vargas *et al.*, 2024).

We did not conduct a collection program with a standard sampling protocol to estimate the abundance of pentatomids in the studied area, and our data is solely based on collection specimens. However, we noted that the list of the BBS pentatomids (Table 1) presents species with different numbers of individuals collected along the years. The four most abundant species listed in this work were *Mormidea* (M.) *v-luteum* (59 specimens), *Banasa*

*dubia* (36 specimens), *Mormidea* (*M.*) *cornicollis* (32 specimens), and *Edessa rufomarginata* (18 specimens) (Table 1). Like many other pentatomids, these species are commonly found in shrub vegetation in different biomes and/or ecoregions in Brazil. They also belong to genera abundantly collected in previous studies with Pentatomoidea in the Atlantic Forest (Campos *et al.*, 2009; Bianchi *et al.*, 2014; Firmino *et al.*, 2017). In the other hand, most of the species listed to the BBS are represented by a small number of individuals. From the total species listed here, 55% of them were represented by one or two specimens (Table 1), which is similar to the reports of Schmidt & Barcellos (2007; 44.6%), Campos *et al.* (2009; 40%), and Firmino *et al.* (2017, *ca.* 45%). The occurrence of fewer, more abundant species and many less abundant ones seems to be a trend in faunal inventories of Pentatomidae (*e.g.*, Campos *et al.*, 2009; Bianchi *et al.*, 2014; Dellapé *et al.*, 2015a; Firmino *et al.*, 2017; Brugnera *et al.*, 2023). However, only further investigations focused on this trend can suggest why some species are rare, since the rarity of insect species can be the result of multiple factors (Novotný & Basset, 2000).

Another interesting aspect of our data is the collection period for most of the specimens. Nonetheless our observations are merely speculative since the specimens were collected in the time span of 80 years and without a standardized protocol, of the 252 specimens studied, 152 (*ca.* 60%) were collected in the summer, 51 (*ca.* 20%) in the spring, 37 (*ca.* 15%) in fall and only twelve (*ca.* 5%) in the winter. Some of these winter specimens were collected in early September, usually the warmer days of winter and close to the beginning of spring, whilst only one was collected in early July, during the first weeks of winter. This pattern could be a result of biased collection efforts but could also indicate a biological trend for pentatomids being found in warmer months. Certainly, more studies are needed to properly evaluate this hypothesis, but it is well-known that different pentatomid species hibernate during the colder months in Brazil (*i.e.*, Santos *et al.*, 2006; Schmitz *et al.*, 2023). We highlight that this type of information is not available for the pentatomids in the BBS.

## CONCLUSION

In this work, thirty-six Pentatomid species were recorded from Boraceia Biological Station, a preserved and representative fragment of an important group of insects in the Atlantic Rain Forest in Brazil. Many of them are possible endemic species to the Serra do Mar area, some of them described based on individuals collected in the BBS. At the same time, more than half of the species were represented by one or two specimens in our inventory, highlighting the tendency also found in recent standardized stink bug inventories. The Boraceia Biological Station is relevant for the conservation of the pentatomids at the heart of São Paulo Atlantic Rain Forest, one of Brazil's more environmentally degraded regions. The Serra do Mar area is quite possibly one of

the 'hottest' spots within one of the global biodiversity hotspots, and further and continuous fieldworks will certainly reveal new aspects of pentatomid biodiversity in Boraceia Biological Station, testing some of the trends and questions highlighted here. Furthermore, this work provides, for the first time, complementary data on stink bugs from the Atlantic Rain Forest, serving as a source for evolutionary, biogeographic, and biological studies of the group.

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## REFERENCES

- Albertoni, F.F.; Mielke, C.G.C. & Duarte, M. 2018. Saturniid moths (Lepidoptera: Bombycoidea) from an Atlantic Rain Forest fragment in southeastern Brazil. *Anais da Academia Brasileira de Ciências*, 90(03): 2827-2844. <https://doi.org/10.1590/0001-3765201820170629>
- Araújo, W.S.; Fernandes, G.W. & Santos, J.C. 2019. An overview of inventories of gall-inducing insects in Brazil: looking for patterns and identifying knowledge gaps. *Anais da Academia Brasileira de Ciências*, 91(1): e20180162. <https://doi.org/10.1590/0001-3765201920180162>
- Barão, K.R.; Ferrari, A. & Grazia, J. 2020. Phylogenetic analysis of the *Euschistus* group (Hemiptera: Pentatomidae) suggests polyphyly of *Dichelops* Spinola, 1837 with the erection of *Diceraeus* Dallas, 1851, stat. rev. *Austral Entomology*, 59(4): 770-783. <https://doi.org/10.1111/aen.12489>
- Barbo, F.E.; Nogueira, C.C. & Sawaya, R.J. 2021. Vicariance and regionalization patterns in snakes of the South American Atlantic Forest megadiverse hotspot. *Journal of Biogeography*, 48(4): 823-832. <https://doi.org/10.1111/jbi.14040>
- Barcellos, A. & Grazia, J. 1993. Revisão de *Tibilis* Stål, 1860 (Heteroptera, Pentatomini). *Anais da Sociedade Entomológica do Brasil*, 22(1): 183-208. <https://doi.org/10.37486/0301-8059.v22i1.837>
- Barcellos, A. & Grazia, J. 1998. Sobre os gêneros *Curatia* e *Copeocoris* (Heteroptera, Pentatomidae, Pentatomini). *Iheringia, Série Zoologia*, 85: 27-46.
- Barcellos, A. & Grazia, J. 2003. Revision of *Brachystethus* (Heteroptera, Pentatomidae, Edessinae). *Iheringia, Série Zoologia*, 93(4): 413-446. <https://doi.org/10.1590/S0073-47212003000400008>
- Barros, L.D.; Barão, K.R. & Grazia, J. 2020a. Systematics of the *Mecocephala* group (Hemiptera: Heteroptera: Pentatomidae) based on a phylogenetic perspective: Inclusion of *Hypanthracos*, description of three new genera, and redescription of *Ogmocoris*. *Arthropod Systematics & Phylogeny*, 78(2): 321-360. <https://doi.org/10.26049/ASP78-2-2020-07>
- Barros, L.D.; Brugnera, R.; Barão, K.R. & Grazia, J. 2020b. The genus *Parahypatropis* Grazia & Fernandes, with description of two new species and description of a new similar monotypic genus (Hemiptera: Pentatomidae). *Journal of Natural History*, 54(15-16): 1045-1071. <https://doi.org/10.1080/00222933.2020.1781274>

- Barros, L.D.; Barão, K.R. & Grazia, J. 2021a. Taxonomic updates on the *Mecocephala* group (Hemiptera: Pentatomidae): Redescription of 'Hypatropis complex', with a review of genitalic terminology and new records. *Zootaxa*, 4981(1): 1-46. <https://doi.org/10.11646/zootaxa.4981.1.1>
- Barros, L.D.; Barão, K.R. & Grazia, J. 2021b. Taxonomic updates on the *Mecocephala* group (Hemiptera: Pentatomidae): redescription of *Mecocephala* Dallas and *Paramecocephala* Benvenegú. *Journal of Natural History*, 55(43-44): 2691-2747. <https://doi.org/10.1080/00222933.2021.2013970>
- Barros, L.D.; Paim, M.R.; Krein, V.; Carabajal, V.; Brandão, M.N.; Bernardes, P.O. & Lindner, M.F. 2021c. Illustrated guide to Pentatominae (Hemiptera: Pentatomidae) species associated with the four main grain crops in Rio Grande do Sul state, Brazil. *Zootaxa*, 4958(1): 430-478. <https://doi.org/10.11646/zootaxa.4958.1.27>
- Becker, M. 1966. Duas novas espécies do gênero "Eurystethus" Mayr (Hemiptera, Pentatomidae, Discocephalinae). *Revista Brasileira de Biologia*, 26(2): 191-197.
- Becker, M. 1967. *Pandonotum bergrothi*, una nueva especie de Discocephalinae (Hemiptera, Pentatomidae). *Neotropica*, 13(41): 57-60.
- Becker, M. & Grazia, J. 1970. Sobre os Gêneros *Lopadusa* Stal e *Bothrocoris* Mayr (Hemiptera, Pentatomidae, Pentatomini). *Revista Brasileira de Biologia*, 30(2): 217-232.
- Becker, M. & Grazia, J. 1985. Revisão do gênero *Dinocoris* Burmeister, 1835 (Heteroptera, Pentatomidae, Discocephalinae). *Revista Brasileira de Zoologia*, 3(2): 65-108. <https://doi.org/10.1590/S0101-81751985000200001>
- Becker, M. & Grazia, J. 1992a. Revisão do gênero *Discocephala* Laporte (Heteroptera, Pentatomidae, Discocephalinae). *Anais da Sociedade Entomológica do Brasil*, 21(2): 201-216. <https://doi.org/10.37486/0301-8059.v21i2.782>
- Becker, M. & Grazia, J. 1992b. Revisão do gênero *Agalitus* Stål (Heteroptera: Pentatomidae: Discocephalinae). *Revista Brasileira de Entomologia*, 36: 831-842.
- Becker, M. & Ruckes, H. 1969. A Review of the Genus *Sympiezorhincus* Spinola (Heteroptera, Pentatomidae, Discocephalinae). *American Museum Novitates*, 2391: 1-17.
- Berg, C. 1892. Nova Hemiptera faunarum Argentinae et Uruguayensis. *Anales de la Sociedad Científica Argentina*, 33: 2-11, 43-50, 65-104, 151-165.
- Bernardes, J.L.C.; Schwertner, C.F. & Grazia, J. 2011. Review of *Thoreyella* Spinola with the description of two new species from Brazil (Heteroptera, Pentatomidae). *Revista Brasileira de Entomologia*, 55(3): 299-312. <https://doi.org/10.1590/S0085-56262011005000037>
- Bianchi, F.M. 2021. A giant within Carpocorini (Hemiptera: Heteroptera: Pentatomidae): Description of *Adustonotus graziae* sp. nov. *Zootaxa*, 4958(1): 489-502. <https://doi.org/10.11646/zootaxa.4958.1.29>
- Bianchi, F.M.; Deprá, M.; Ferrari, A.; Grazia, J.; Valente, V.L.S. & Campos, L.A. 2016a. Total evidence phylogenetic analysis and reclassification of *Euschistus* Dallas within Carpocorini (Hemiptera: Pentatomidae: Pentatominae). *Systematic Entomology*, 42(2): 399-409. <https://doi.org/10.1111/syen.12224>
- Bianchi, F.M.; Gonçalves, V.R.; Souza, J.R. & Campos, L.A. 2016b. Description of three new species of *Glyphepomis* Berg (Heteroptera: Pentatomidae: Pentatominae). *Zootaxa*, 4103(5): 443-452. <https://doi.org/10.11646/zootaxa.4103.5.2>
- Bianchi, F.M.; Mendonça, M.S. & Campos, L.A. 2014. Comparing Vegetation Types and Anthropic Disturbance Levels in the Atlantic Forest: How do Pentatomidae (Hemiptera: Heteroptera) Assemblages Respond? *Environmental Entomology*, 43(6): 1507-1513. <https://doi.org/10.1603/EN13283>
- Brailovsky, H. 1981. Revisión del género *Arvelius* Spinola (Hemiptera – Heteroptera – Pentatomidae – Pentatomini). *Anales del Instituto de Biología de la Universidad Nacional Autónoma de México, Serie Zoología*, 51(1): 239-298.
- Brito, L.C.; Grazia, J. & Barão, K.R. 2019. Stink bugs (Hemiptera, Heteroptera, Pentatomidae) of the Catimbau National Park, a protected area in Brazil's largest dry forest. *Zootaxa*, 4612(4): 571-580. <https://doi.org/10.11646/zootaxa.4612.4.9>
- Brugnera, R.; Lima, Y.; Grazia, J. & Schwertner, C.F. 2022. Occurrence of the Yellow-Spotted Stink Bug *Erthesina fullo* (Thunberg) (Hemiptera: Pentatomidae) in Brazil, a Polyphagous Species from Asia. *Neotropical Entomology*, 51: 325-329. <https://doi.org/10.1007/s13744-021-00924-9>
- Brugnera, R.; Paim, M.R.; Brião, N.S.; Brandão, M.N.; Barros, L.D.; Fiedler, M.S. & Grazia, J. 2023. Diversity of stink bugs (Hemiptera: Heteroptera: Pentatomidae) in the Brazilian Pampa and the Parque Estadual de Itapuã, Rio Grande do Sul. *Neotropical Entomology*, 52: 596-620. <https://doi.org/10.1007/s13744-023-01049-x>
- Brugnera, R.; Roell, T.; Campos, L.A. & Grazia, J. 2020. Taxonomy of widespread Neotropical species of *Podisus* Herrich-Schäffer (Hemiptera: Pentatomidae: Asopinae): redescription of *P. distinctus* (Stål, 1860) and revalidation of *P. fuscescens* (Dallas, 1851). *Zootaxa*, 4751(3): 546-562. <https://doi.org/10.11646/zootaxa.4751.3.7>
- Bunde, P.R.S.; Grazia, J. & Mendonça-Júnior, M.S. 2006. Nova espécie de *Euschistus* (Mitripus) da Argentina e sul do Brasil (Hemiptera, Pentatomidae, Pentatominae). *Iheringia, Série Zoologia*, 96(3): 289-291. <https://doi.org/10.1590/S0073-47212006000300003>
- Bunde, P.R.S.; Grazia, J.; Mendonça-Júnior, M.S.; Schwertner, C.F.; Silva, E.J.E. & Garcia, E.N. 2010. Pentatomidae (Hemiptera: Heteroptera) of the Pampa biome: Serra do Sudeste and Parque de Espinillo da Barra do Quaraí, Rio Grande do Sul, Brazil. *Biota Neotropica*, 10(3): 83-88. <https://doi.org/10.1590/S1676-06032010000300008>
- Bungartz, F.; Ziemmeck, F.; Tirado, N.; Jaramillo, P.; Herrera, H. & Jiménez-Uzcátegui, G. 2012. The neglected majority: Biodiversity inventories as an integral part of conservation biology. In: Wolff, M. & Gardener, M. (Eds.). *The Role of Science for Conservation*. Routledge, London, 119-142.
- Cadotte, M.W.; Murray, B.R. & Lovett-Doust, J. 2006. Ecological Patterns and Biological Invasions: Using Regional Species Inventories in Macroecology. *Biological Invasions*, 8: 809-821. <https://doi.org/10.1007/s10530-005-3839-4>
- Campos, B.B. & Fernandes, J.A.M. 2022. *Odara*, a new genus to Edessinae (Hemiptera, Pentatomidae) with Eleven New Species. *Insect Systematics & Evolution*, 54(3): 243-280. <https://doi.org/10.1163/1876312X-bja10040>
- Campos, L.A. 2005. A new species of *Cromata* Rolston from Brazilian and Venezuelan Amazon Forest (Hemiptera: Pentatomidae: Discocephalinae). *Zootaxa*, 820(1): 1-6. <https://doi.org/10.11646/zootaxa.820.1.1>
- Campos, L.A. & Grazia, J. 1998. Revisão de *Glyphepomis* Berg, 1891 (Heteroptera, Pentatomidae). *Revista Brasileira de Entomologia*, 41(2-4): 203-212.
- Campos, L.A. & Grazia, J. 1999. Revisão de *Parentheca* Berg (Heteroptera, Pentatomidae, Pentatomini). *Revista Brasileira de Zoologia*, 16(3): 691-699. <https://doi.org/10.1590/S0101-81751999000300008>
- Campos, L.A. & Grazia, J. 2001. Um novo gênero de Ochlerini do sul do Brasil (Heteroptera, Pentatomidae, Discocephalinae). *Iheringia, Série Zoologia*, 90: 55-58. <https://doi.org/10.1590/S0073-47212001000100006>
- Campos, L.A. & Grazia, J. 2006. Análise cladística e biogeografia de Ochlerini (Heteroptera, Pentatomidae, Discocephalinae). *Iheringia, Série Zoologia*, 96(2): 147-163. <https://doi.org/10.1590/s0073-47212006000200004>
- Campos, L.A. & Roell, T. 2017. Description of four new species of Ochlerini from South America (Hemiptera: Pentatomidae: Discocephalinae). *Zootaxa*, 4236(3): 507-520. <https://doi.org/10.11646/zootaxa.4236.3.5>
- Campos, L.A.; Bertolin, T.B.P.; Teixeira, R.A. & Martins, F.S. 2009. Diversidade de Pentatomidae (Hemiptera, Heteroptera) em três fragmentos de

- Mata Atlântica no sul de Santa Catarina. *Iheringia, Série Zoologia*, 99(2): 165-171. <https://doi.org/10.1590/S0073-47212009000200008>
- Campos, L.A.; Grazia, J. & Greve, C. 2004. Notes on *Catulona* Rolston, 1992, and the description of a new species from Brazil (Hemiptera, Pentatomidae, Discocephalinae). *Zootaxa*, 404(1): 1-7. <https://doi.org/10.11646/zootaxa.404.1.1>
- Campos, L.A.; Grazia, J.; Garbelotto, T.A.; Bianchi, F.M. & Lanzarini, N.C. 2010. A new South American species of *Banasa* Stål (Hemiptera: Heteroptera: Pentatomidae: Pentatominae): from egg to adult. *Zootaxa*, 2559(1): 47-57. <https://doi.org/10.11646/zootaxa.2559.1.4>
- Carnaval, A.C.; Hickerson, M.J.; Haddad, C.F.B.; Rodrigues, M.T. & Moritz, C. 2009. Stability predicts genetic diversity in the Brazilian Atlantic Forest Hotspot. *Science*, 323(5915): 785-789. <https://doi.org/10.1126/science.1166955>
- Carrenho, R.; Genevicius, B.C.; Rider, D.A. & Schwertner, C.F. 2018. First Record of Four Species of Stink Bugs (Hemiptera: Pentatomidae) in the Atlantic Forest of São Paulo State, Brazil. *Entomological News*, 128(1): 53-60. <https://doi.org/10.3157/021.128.0107>
- Castro-Huertas, V.; Grazia, J.; Forero, D.; Fernández, F. & Schwertner, C.F. 2022. Stink bugs (Hemiptera: Heteroptera: Pentatomidae) of Colombia: An annotated checklist of species. *Zootaxa*, 5097(1): 001-088. <https://doi.org/10.11646/zootaxa.5097.1.1>
- Cavarzere, V.; Moraes, G.P. & Silveira, L.F. 2010. Boraceia Biological Station: an ornithological review. *Papéis Avulsos de Zoologia*, 50(13): 189-201. <https://doi.org/10.1590/S0031-10492010001300001>
- Cioato, A.; Bianchi, F.M.; Eger, J. & Grazia, J. 2015. New species of *Euschistus* (*Euschistus*) from Jamaica, *Euschistus* (*Mitripus*) and *Ladeaschistus* from southern South America (Hemiptera: Heteroptera: Pentatomidae: Pentatominae). *Zootaxa*, 4048(4): 565-574. <https://doi.org/10.11646/zootaxa.4048.4.7>
- Correia, A.O. & Fernandes, J.A.M. 2016. *Grammedessa*, a new genus of Edessinae (Hemiptera: Heteroptera: Pentatomidae). *Zootaxa*, 4107(4): 541-565. <https://doi.org/10.11646/zootaxa.4107.4.4>
- Custodio-Filho, A. 1989. A flora da Estação Biológica de Boraceia – Listagem de espécies. *Revista do Instituto Florestal*, 1(1): 161-199. <https://doi.org/10.24278/2178-5031.198911107>
- Daru, B.H.; Park, D.S.; Primack, R.B.; Willis, C.G.; Barrington, D.S.; Whitfield, T.J.S.; Seidler, T.G.; Sweeney, P.W.; Foster, D.R.; Ellison, A.M. & Davis, C.C. 2018. Widespread sampling biases in herbaria revealed from large-scale digitization. *New Phytologist*, 217(2): 939-955. <https://doi.org/10.1111/nph.14855>
- DaSilva, M.B.; Pinto-da-Rocha, R. & DeSouza, A.M. 2015. A protocol for the delimitation of areas of endemism and the historical regionalization of the Brazilian Atlantic Rain Forest using harvestmen distribution data. *Cladistics*, 31(6): 692-705. <https://doi.org/10.1111/cla.12121>
- Dellapé, G. 2021. An update of the distribution of the stink bugs (Hemiptera: Pentatomidae) from Argentina. *Revista de la Sociedad Entomológica Argentina*, 80(1): 23-32. <https://doi.org/10.25085/rsea.800103>
- Dellapé, G. & Dellapé, P.M. 2016. A new species of *Adoxoplatus* Breddin (Heteroptera, Pentatomidae, Discocephalinae) from Argentina. *Revista Brasileira de Entomologia*, 60(1): 15-18. <https://doi.org/10.1016/j.rbe.2015.11.002>
- Dellapé, P.M.; Melo, M.C.; Montemayor, S.I.; Dellapé, G. & Brailovsky, H. 2015a. Terrestrial Heteroptera (Hemiptera) from Moconá Provincial Park (Misiones, Argentina). *Check List*, 11(3): 1162. <https://doi.org/10.15560/11.3.1662>
- Dellapé, G.; Rider, D.A. & Dellapé, P.M. 2015b. Notes on distributions for Argentinean Pentatomidae (Heteroptera: Pentatomidae), with new records in the country. *Revista Brasileira de Entomologia*, 59(3): 169-176. <https://doi.org/10.1016/j.rbe.2015.06.001>
- Dellapé, P.M.; Martínez, A.P. & Coscarón, M.C. 2003. New distributional records for the asopine pentatomids in temperate South America. *Zootaxa*, 318(1): 1-16. <https://doi.org/10.11646/zootaxa.318.1.1>
- Dellapé, P.M.; Melo, M.C.; Dellapé, G. & Olivera, L. 2024. *Pentatomomorpha* (Hemiptera: Heteroptera) species from Argentina and Uruguay. Available: <https://biodar.unlp.edu.ar/pentatomomorpha>. Access: 30/08/2024.
- Dixo, M. & Verdade, V.K. 2006. Herpetofauna de serrapilheira da Reserva Florestal de Morro Grande, Cotia (SP). *Biota Neotropica*, 6(2). <https://doi.org/10.1590/S1676-06032006000200009>
- Duarte, M.; Silveira, L.F. & Casari, S.A. 2024. *Estação Biológica de Boraceia: Contribuição da Universidade de São Paulo para o estudo e a conservação da Mata Atlântica = Boraceia Biological Station: Contribution of the University of São Paulo to the study and conservation of the Atlantic Forest*. 1. ed. São Paulo: Museu de Zoologia da USP, 120p.
- Ely e Silva, E.J.; Fernandes, J.A.M. & Grazia, J. 2004. Variações morfológicas em *Edessa rufomarginata* e revalidação de *E. albomarginata* e *E. marginalis* (Heteroptera, Pentatomidae, Edessinae) *Iheringia, Série Zoologia*, 94(3): 261-268. <https://doi.org/10.1590/S0073-47212004000300006>
- Ely e Silva, E.J.; Fernandes, J.A.M. & Grazia, J. 2006. Caracterização do grupo *Edessa rufomarginata* e descrição de sete novas espécies (Heteroptera, Pentatomidae, Edessinae). *Iheringia, Série Zoologia*, 96(3): 345-362. <https://doi.org/10.1590/S0073-47212006000300012>
- Fernandes, J.A.M. & Silva, V.J. 2021. A new species group to *Edessa*, the *E. ovina* group, with description of a new species (Heteroptera: Pentatomidae: Edessinae) from Brazil. *Zootaxa*, 4958(1): 628-642. <https://doi.org/10.11646/zootaxa.4958.1.37>
- Fernandes, J.A.M. & van Doesburg, P.H. 2000. The *E. cervus*-group of *Edessa* Fabricius, 1803 (Heteroptera: Pentatomidae: Edessinae). *Zoologische Mededelingen*, 74(8): 151-165.
- Fernandes, J.A.M.; Nascimento, A.T.S.; Nunes, B.M. 2018. Revision of *Pygoda* Amyot & Serville, 1843 stat. rest. (Heteroptera: Pentatomidae: Edessinae) with description of four new species. *Zootaxa*, 4461(2): 205-232. <https://doi.org/10.11646/zootaxa.4461.2.3>
- Fernandes, J.A.M.; van Doesburg, P.H. & Greve, C. 2001. The *E. collaris*-group of *Edessa* Fabricius, 1803 (Heteroptera: Pentatomidae: Edessinae). *Zoologische Mededelingen*, 75(1-15): 239-250.
- Ferrari, A.; Paladini, A.; Schwertner, C.F. & Grazia, J. 2010. Endemism analysis of neotropical pentatomidae (Hemiptera, Heteroptera). *Iheringia, Série Zoologia*, 100(4): 449-462. <https://doi.org/10.1590/S0073-47212010000400018>
- Ferro, V.G. & Diniz, I.R. 2007. Arctiidae (Insecta: Lepidoptera) da Estação Biológica de Boraceia (Salesópolis, São Paulo, Brasil). *Biota Neotropica*, 7(3): 331-338. <https://doi.org/10.1590/S1676-06032007000300033>
- Firmino, J.V.L.; Mendonça-Júnior, M.D.S.; Lima, I.M.M. & Grazia, J. 2017. Pentatomidae (Hemiptera: Heteroptera) in Herbaceous and Shrub Strata of Atlantic Forest Remnants in Northeastern Brazil. *Environmental Entomology*, 46(3): 480-486. <https://doi.org/10.1093/ee/nvx062>
- Fortes, N.D.F. & Grazia, J. 1998. Um novo gênero e novas espécies de Pentatomini do Brasil (Heteroptera, Pentatomidae). *Revista Brasileira de Zoologia*, 15(4): 867-874. <https://doi.org/10.1590/S0101-81751998000400004>
- Fortes, N.D.F. & Grazia, J. 2000. Novas espécies do gênero *Rio* (Heteroptera, Pentatomidae). *Iheringia, Série Zoologia*, 88: 67-102.
- Fortes, N.D.F. & Grazia, J. 2005. Revisão e análise cladística de *Serdia* Stål (Heteroptera, Pentatomidae, Pentatomini). *Revista Brasileira de Entomologia*, 49(3): 294-339. <https://doi.org/10.1590/S0085-56262005000300002>
- Froehlich, C.G. 2010. *Anacroneuria* (Plecoptera: Perlidae) from the Boraceia Biological Station, São Paulo State, Brazil. *Aquatic Insects*, 26(1): 53-63. <https://doi.org/10.1076/aqin.26.1.53.35377>
- Gapon, D.A. & Konstantinov, F.V. 2006. On the Structure of the Aedeagus of Shield Bugs (Heteroptera, Pentatomidae): III. Subfamily Asopi-

- nae. *Entomological Review*, 86(7): 806-819. <https://doi.org/10.1134/S0013873806070050>
- Garbelotto, T.A. & Campos, L.A. 2014. *Pentatominae do Sul de Santa Catarina*. Sociedade Brasileira de Zoologia, Curitiba. <https://doi.org/10.7476/9788598203089>
- Garbelotto, T.A.; Bianchi, F.M.; Campos, L.A. & Grazia, J. 2011. Contributions to the knowledge of *Banasa* Stål (Hemiptera, Heteroptera, Pentatomidae): *Banasa chaca* Thomas. *Revista Brasileira de Entomologia*, 55(3): 451-453. <https://doi.org/10.1590/S0085-56262011005000027>
- Garbelotto, T.A.; Campos, L.A. & Grazia, J. 2014. *Xynocoris*, new genus of Ochlerini from Central and South America (Hemiptera: Pentatomidae: Discocephalinae). *Zootaxa*, 3869(3): 281-305. <https://doi.org/10.11646/zootaxa.3869.3.4>
- Genevicius, B.C.; Greve, C.; Koehler, S.; Simmons, R.B.; Rider, D.A.; Grazia, J. & Schwertner, C.F. 2021. Phylogeny of the stink bug tribe Chlorocorini (Heteroptera, Pentatomidae) based on DNA and morphological data: the evolution of key phenotypic traits. *Systematic Entomology*, 46(2): 327-338. <https://doi.org/10.1111/syen.12464>
- Grazia, J. 1967. Estudos sobre o gênero *Galedanta* Amyot & Serville, 1843 (Hemiptera-Heteroptera, Pentatomidae). *Iheringia, Série Zoologia*, 35: 45-59.
- Grazia, J. 1978. Revisão do gênero *Dichelops* Spinola, 1837 (Heteroptera, Pentatomidae, Pentatomini). *Iheringia, Série Zoologia*, 53: 3-119.
- Grazia, J. 1981. Novas considerações sobre *Galedanta* Amyot & Serville, 1843 com a descrição de duas novas espécies (Heteroptera, Pentatomini). *Anais da Sociedade Entomológica do Brasil*, 10(1): 9-19. <https://doi.org/10.37486/0301-8059.v10i1.233>
- Grazia, J. & Barcellos, A. 2004. *Pentatomiana beckeri* gen. nov. and sp. nov., a new Neotropical Pentatomini (Hemiptera, Heteroptera, Pentatomidae). *Revista Brasileira de Zoologia*, 21(2): 283-285. <https://doi.org/10.1590/S0101-81752004000200020>
- Grazia, J. & Barcellos, A. 2005. Revision of *Taurocerus* (Heteroptera, Pentatomidae, Pentatomini). *Iheringia, Série Zoologia*, 95(2): 173-181. <https://doi.org/10.1590/S0073-47212005000200007>
- Grazia, J. & Koehler, R.T. 1983. Revisão do gênero *Marghita* Ruckes, 1964, com a descrição de uma nova espécie (Heteroptera, Pentatomidae, Pentatomini). *Iheringia, Série Zoologia*, 63: 133-144.
- Grazia, J. & Schwertner, C.F. 2011. Checklist dos percevejos-do-mato (Hemiptera: Heteroptera: Pentatomidae) do Estado de São Paulo, Brasil. *Biota Neotropica*, 11: 705-716. <https://doi.org/10.1590/S1676-06032011000500034>
- Grazia, J.; Becker, M. & Thomas, D.B. 1994. A review of the genus *Pseudevoplitis* Ruckes, (Heteroptera: Pentatomidae) with the description of three new species. *Journal of the New York Entomological Society*, 102(4): 442-455.
- Grazia, J.; Campos, L.A. & Becker, M. 2000. Revision of *Cataulax* Spinola, with *Architas* Distant as a new synonymy (Heteroptera: Pentatomidae: Discocephalini). *Anais da Sociedade Entomológica do Brasil*, 29(3): 475-488. <https://doi.org/10.1590/S0301-80592000000300010>
- Grazia, J.; Campos, L.A.; Fernandes, J.A.M.; Schwertner, C.F.; Garbelotto, T.A.; Roell, T. & Barros, L.D. 2024a. *Pentatomidae*. In: *Catálogo Taxonômico da Fauna do Brasil*. PNUD. Available: <http://fauna.jbrj.gov.br/fauna/fauna-adobrasil/2212>. Access: 20/03/2024.
- Grazia, J.; Takyia, D.M.; Wolff, V.R.S.; Schwertner, C.F.; Mejdalani, G.; Cavi-chioli, R.R.; Peronti, A.L.B.G.; Queiroz, D.L.; Burckhardt, D.; Fernandes, J.A.M.; Moreira, F.F.F.; Gil-Santana, H.R.; Ferreira, P.S.F.; Carrenho, R.; Brugnara, R. & Guidoti, M. 2024b. Capítulo 25: Hemiptera Linnaeus, 1758. In: Rafael, J.A.; Melo, G.A.R.; Carvalho, C.J.B., Casari, S.A. & Constantino, R. (Eds.). *Insetos do Brasil: Diversidade e Taxonomia*, 2ª ed, Manaus: Instituto Nacional de Pesquisas da Amazônia, 880p. <https://doi.org/10.61818/56330464c25>
- Grazia, J.; Fernandes, J.A.M. & Schwertner, C.F. 1998. *Luridocimex*, um novo gênero de Pentatomini (Heteroptera, Pentatomidae) do Brasil. *Iheringia, Série Zoologia*, 84: 161-166.
- Grazia, J.; Fernandes, J.A.M. & Schwertner, C.F. 1999. *Stysiana*, a new genus and four new species of Pentatomini (Heteroptera: Pentatomidae) of the Neotropical region. *Acta Societatis Zoologicae Bohemicae*, 63: 71-83.
- Grazia, J.; Panizzi, A.R.; Greve, C.; Schwertner, C.F.; Campos, L.A.; Garbelotto, T.A. & Fernandes, J.A.M. 2015. Chapter 22, *Stink Bugs (Pentatomidae)*. In: Panizzi, A.R. & Grazia, J. (Eds.). *True Bugs (Heteroptera) of the Neotropics*, Vol. II, Springer, Dordrecht, 681-756. [https://doi.org/10.1007/978-94-017-9861-7\\_22](https://doi.org/10.1007/978-94-017-9861-7_22)
- Grazia, J.; Schuh, R.T. & Wheeler, W.C. 2008a. Phylogenetic relationships of family groups in Pentatomidae based on morphology and DNA sequences (Insecta: Heteroptera). *Cladistics*, 24: 932-976. <https://doi.org/10.1111/j.1096-0031.2008.00224.x>
- Grazia, J.; Schwertner, C.F.; Greve, C. 2008b. Two new species of the genus *Chloropepla* (Hemiptera: Pentatomidae: Pentatominae) from Brazil. *Acta entomologica Musei Nationalis Pragae*, 48: 533-542.
- Grazia, J.; Schwertner, C.F. & Coscarón, M. del C. 2017. Family Pentatomidae Leach. In: Coscarón, M. del C. (Ed.). *A catalogue of the Heteroptera (Hemiptera) or true bugs of Argentina*. *Zootaxa*, 4295: 207-247. <https://doi.org/10.11646/zootaxa.4295.1.1>
- Grazia-Vieira, J. 1972. O genero *Mayrinia* Horvath, 1925 (Heteroptera, Pentatomidae, Pentatomini). *Revista Peruana de Entomologia*, 15(1): 117-124.
- Greve, C.; Schwertner, C. & Grazia, J. 2013. Cladistic analysis and synopsis of *Chloropepla* Stål (Hemiptera: Heteroptera: Pentatomidae) with the description of three new species. *Insect Systematics & Evolution*, 44(1): 1-43. <https://doi.org/10.1163/1876312X-04401002>
- Hernández, L.; Cañellas, I.; Alberdi, I.; Torres, I. & Montes, F. 2014. Assessing changes in species distribution from sequential large-scale forest inventories. *Annals of Forest Science*, 71: 161-171. <https://doi.org/10.1007/s13595-013-0308-6>
- Herrich-Schäffer, G.A.W. 1844. *Die wanzenartigen Insecten. getreu nach der natur abgebildet und beschrieben*. Nürnberg, C.H. Zeh'schen Buchhandlung, 134p.
- Heyer, W.R.; Rand, A.S.; da Cruz, C.A.G.; Peixoto, O.L. & Nelson, C.E. 1990. Frogs of Boraceia. *Arquivos de Zoologia*, 31(4): 231-410.
- Hoffmeister, C.H. & Ferrari, A. 2016. Areas of endemism of arthropods in the Atlantic Forest (Brazil): an approach based on a metaconsensus criterion using endemicity analysis. *Biological Journal of the Linnean Society*, 119(1): 126-144. <https://doi.org/10.1111/bj.12802>
- Kenis, M.; Rabitsch, W.; Auger-Rozenberg, M.-A. & Roques, A. 2007. How can alien species inventories and interception data help us prevent insect invasions? *Bulletin of Entomological Research*, 97(5): 489-502. <https://doi.org/10.1017/S0007485307005184>
- Klein, J.T.; Barcellos, A.; Grazia, J. & Redaelli, L.R. 2012. Contributions to the knowledge of *Dichelops* (*Dichelops*) with the description of a new species (Hemiptera: Heteroptera: Pentatomidae: Pentatominae: Carpocorini). *Zootaxa*, 3157: 61-68. <https://doi.org/10.11646/zootaxa.3157.1.6>
- Kormilev, N.A. 1949. Una especie nueva del género *Placocoris* Mayr en la Argentina (Hemiptera, Pentatomidae). *Comunicaciones del Instituto Nacional de Investigación de las Ciencias Naturales*, 1(9): 1-12.
- Kormilev, N.A. 1951. Sobre los géneros *Vulsirea* Spinola (1837), *Ramoslava* Kormilev (1950) y *Adoxoplatus* Breddin (1903), con la descripción de tres especies nuevas. *Revista de la Sociedad Entomológica Argentina*, 15(1-3): 83-95.
- Kormilev, N.A. 1956. Notas sobre Pentatomidae neotropicales V (Hemiptera). *Acta científica de los institutos de investigación de San Miguel*, 4: 3-4.

- Kormilev, N.A. 1957. Notas sobre Pentatomoidea neotropicales VI (Hemiptera) con la descripción de dos generos, y dos especies nuevos. *Anales de la Sociedad Científica Argentina*, 163: 47-57.
- Lago-Barcia, D.; DaSilva, M.B.; Conti, L.A. & Carbayo, F. 2020. Areas of endemism of land planarians (Platyhelminthes: Tricladida) in the Southern Atlantic Forest. *PLoS One*, 15(7): e0235949. <https://doi.org/10.1371/journal.pone.0235949>
- Lima, M.S.; Fernandes, J.A.M. & Lima, I.M.M. 2010. Record of *Edessa scabriventris* Stål (Hemiptera: Pentatomidae) associated to *Eugenia uniflora* (Brazilian-Cherry) and *Psidium guajava* (Guava) (Myrtaceae), in North-Northeastern Brazil. *Neotropical Entomology*, 39: 674-675. <https://doi.org/10.1590/S1519-566X2010000400032>
- Lopes, C.M.; Baêta, D.; Valentini, A.; Lyra, M.L.; Sabbag, A.F.; Gasparini, J.L.; Dejean, T.; Haddad, C.F.B. & Zamudio, K.R. 2020. Lost and found: Frogs in a biodiversity hotspot rediscovered with environmental DNA. *Molecular Ecology*, 30(13): 3289-3298. <https://doi.org/10.1111/mec.15594>
- López, G.E.L.; Carrenho, R. & Schwertner, C.F. 2023. Over 170 years later: re-description of the genus *Glyphuchus* Stål (Hemiptera: Pentatomidae: Dictyopharinae), with the first description of the male. *Zootaxa*, 5263(3): 401-410. <https://doi.org/10.11646/zootaxa.5263.3.5>
- Lucini, T. & Panizzi, A.R. 2016. Three new host plants of *Edessa loxdalii* (Hemiptera: Heteroptera: Pentatomidae) and notes on its rearing in the laboratory. *Florida Entomologist*, 99(1): 139-141. <https://doi.org/10.1653/024.099.0131>
- Lupoli, R. 2016. Diagnosis of *Calagasma* Bergroth and *Epipedus* Spinola with description of *Calagasma eclipsa* sp. nov. and *Epipedus rolstoni* sp. nov. (Hemiptera: Heteroptera: Pentatomidae: Pentatominae: Carpocorini). *Zootaxa*, 4170(2): 330-338. <https://doi.org/10.11646/zootaxa.4170.2.6>
- Maggio, D.H. 2014. Diversidade e endemismo de Pentatomidae (Insecta: Hemiptera) no Estado de São Paulo a partir de modelos espaciais. Masters Dissertation. Universidade Federal de São Paulo, Brazil, 40p.
- Marques, M.C.M., Trindade, W.; Bohn, A. & Grelle, C.E. 2021. The Atlantic Forest: an introduction to the megadiverse forest of Southern America. In: Marques, M.C.M. & Grelle, C.E.V. (Eds.). *The Atlantic Forest: History, Biodiversity, Threats and Opportunities of the Mega-diverse Forest*. Springer, Cham, 3-23. [https://doi.org/10.1007/978-3-030-55322-7\\_1](https://doi.org/10.1007/978-3-030-55322-7_1)
- Melo, M.C.; Dellapé, G.; Olivera, L.; Varela, P.S.; Montemayor, S.I. & Dellapé, P.M. 2017. Diversity of true bugs from Iguazú National Park, Argentina. *Check List*, 13(5): 479-511. <https://doi.org/10.15560/13.5.479>
- Mendonça, M.T.S.; Silva, V.J. & Fernandes, J.A.M. 2023. Description of fifty-one new species and new taxonomic arrangement for the *E. sexdens* group of the subgenus *Edessa* (Hemiptera, Pentatomidae, Edessinae, *Edessa*). *Zootaxa*, 5372(1): 1-128. <https://doi.org/10.11646/zootaxa.5372.1.1>
- Mora, C.; Tittensor, D.P. & Myers, R.A. 2007. The completeness of taxonomic inventories for describing the global biodiversity and distribution of marine fishes. *Proceedings of the Royal Society B*, 275: 149-155. <https://doi.org/10.1098/rspb.2007.1315>
- Murray-Smith, C.; Brummitt, N.A.; Oliveira-Filho, A.T.; Bachman, S.; Moat, J.; Lughadha, E.M. & Lucas, E.J. 2009. Plant diversity hotspots in the Atlantic coastal forests of Brazil. *Conservation Biology*, 23(1): 151-63. <https://doi.org/10.1111/j.1523-1739.2008.01075.x>
- Myers, N.; Mittermeier, R.A.; Mittermeier, C.G.; Fonseca, G.A.B. & Kent, J. 2000. Biodiversity hotspots for conservation priorities. *Nature*, 403: 853-858. <https://doi.org/10.1038/35002501>
- Nascimento, D.A.; Mendonça, M.T.S. & Fernandes, J.A.M. 2017. Description of a new group of species of *Edessa* (Hemiptera: Pentatomidae: Edessinae). *Zootaxa*, 4254(1): 136-150.
- Novotný, V. & Basset, Y. 2000. Rare species in communities of tropical insect herbivores: pondering the mystery of singletons. *Oikos*, 89: 564-572. <https://doi.org/10.1034/j.1600-0706.2000.890316.x>
- Oliveira, U.; Brescovit, A.D. & Santos, A.J. 2015. Delimiting areas of endemism through kernel interpolation. *PLoS One*, 10(1): e0116673. <https://doi.org/10.1371/journal.pone.0116673>
- Packauskas, R.J. & Schaefer, C.W. 1998. Revision of the Cyrtocoridae (Hemiptera: Pentatomoidea). *Annals of the Entomological Society of America*, 91(4): 363-386. <https://doi.org/10.1093/aesa/91.4.363>
- Perger, R.; Amaral, K.B. & Bianchi, F.M. 2021. Distribution modelling of the rare stink bug *Ceratozygum horridum* (Germar, 1839): isolated in small spots across the Neotropics or a continuous population? *Journal of Natural History*, 55(11-12): 649-663. <https://doi.org/10.1080/00222933.2021.1919328>
- Poester-Carvalho, J.A.; Barão, K.R.; Costa, L.G. & Ferrari, A. 2023. Areas of endemism and sampling bias of Pentatomidae (Heteroptera) in the Americas. *Journal of Insect Conservation*, 27: 781-794. <https://doi.org/10.1007/s10841-023-00497-5>
- Poock-da-Silva, P.; Barão, K.R. & Grazia, J. 2013. Contributions to the knowledge of *Dichelops* Spinola: description of a new species of *Dichelops* (*Diceraeus*) and of the male of *Dichelops* (*Prodichelops*) *divisus* (Hemiptera: Heteroptera: Pentatomidae: Pentatominae: Carpocorini). *Zootaxa*, 3609(1): 060-068. <https://doi.org/10.11646/zootaxa.3157.1.6>
- Porto, T.J.; Carnaval, A.C. & da Rocha, P.L.B. 2013. Evaluating forest refugial models using species distribution models, model filling and inclusion: a case study with 14 Brazilian species. *Diversity and Distributions*, 19(3): 330-340. <https://doi.org/10.1111/j.1472-4642.2012.00944.x>
- Rezende, C.L.; Scarano, F.R.; Assad, E.D.; Joly, C.A.; Metger, J.P.; Strassburg, B.B.N.; Tabarelli, M.; Fonseca, G.A. & Mittermeier, R.A. 2018. From hotspot to hopespot: An opportunity for the Brazilian Atlantic Forest. *Perspectives in Ecology and Conservation*, 16(4): 208-214. <https://doi.org/10.1016/j.pecon.2018.10.002>
- Rider, D.A. 1992. Revision of *Arocera* Spinola, with the Description of Two New Species (Heteroptera: Pentatomidae). *Journal of the New York Entomological Society*, 100(1): 99-136.
- Roell, T.; Brugnera, R. & Lemaître, V.A. 2021. Lost and found – Discovery of the presumed lost type of *Arma pallipes* Dallas, new synonymy and description of two new species of *Podisus* Herrich-Schäffer (Hemiptera: Pentatomidae: Asopinae). *Zootaxa*, 4958(1): 570-584. <https://doi.org/10.11646/zootaxa.4958.1.33>
- Roell, T.; Lemaître, V.A.; Webb, M. & Campos, L.A. 2023. An annotated and illustrated Type Catalogue of the predacious Shieldbugs (Hemiptera: Heteroptera: Pentatomidae: Asopinae) in the Collection of the Natural History Museum, London. *Zootaxa*, 5232(1): 001-105. <https://doi.org/10.11646/zootaxa.5232.1.1>
- Roell, T.; Winter, I.; Asipuela, R. & Campos, L.A. 2017. New records and update on the geographic distribution of fifteen species of *Lincus* Stål, 1867 (Insecta: Hemiptera: Pentatomidae) associated with palms and coconut trees in the Neotropics. *Check List: the journal of biodiversity data*, 13(2): 1-9. <https://doi.org/10.15560/13.2.2086>
- Rolston, L.H. 1973. A New South American Genus of Pentatomini (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 81(2): 101-110.
- Rolston, L.H. 1974. A New Genus of Pentatominae from South America, distinguished by the position of its spiracles (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 82(1): 57-60.
- Rolston, L.H. 1978a. A Revision of the Genus *Odmalea* Bergroth (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 86(1): 20-36.
- Rolston, L.H. 1978b. A New Subgenus of *Euschistus* (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 86(2): 102-120.
- Rolston, L.H. 1978c. A Revision of the genus *Mormidea* (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 86(3): 161-219.

- Rolston, L.H. 1984. Key to the Males of the Nominate Subgenus of *Euschistus* in South America, with Descriptions of Three New Species (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 92(4): 352-364.
- Rolston, L.H. 1986. The Genus *Cyptocephala* Berg, 1883 (Hemiptera: Pentatomidae). *Journal of the New York Entomological Society*, 94(3): 424-433.
- Rolston, L.H. 1992. Key and diagnoses for the genera of Ochlerini (Hemiptera: Pentatomidae: Discocephalinae). *Journal of the New York Entomological Society*, 100(1): 1-41.
- Rosso, P. & Campos, L.A. 2021. Revision of *Ischnopelta* Stål, 1868 with the description of twenty new species (Hemiptera: Pentatomidae: Discocephalinae). *Megatataxa*, 006(2): 096-184. <https://doi.org/10.11646/megatataxa.6.2.3>
- Ruckes, H. 1958. New genera and species of neotropical discocephalinae and halyine pentatomids (Heteroptera, Pentatomidae). *American Museum Novitates*, 1868: 1-27.
- Ruckes, H. 1960. New or Little Known Neotropical Pentatomids (Heteroptera, Pentatomidae). *American Museum Novitates*, 1996: 1-27.
- Ruckes, H. 1965. Several New Genera and Species of Discocephaline Pentatomids (Heteroptera: Pentatomidae). *Journal of the New York Entomological Society*, 73(3): 114-134.
- Ruckes, H. 1966a. The Genus *Eurystethus* Mayr, with the Descriptions of New Species (Heteroptera, Pentatomidae, Discocephalinae). *American Museum Novitates*, 2254: 1-37.
- Ruckes, H. 1966b. An Analysis and a Breakdown of the Genus *Platycarenum* Fieber (Heteroptera, Pentatomidae, Discocephalinae). *American Museum Novitates*, 2255: 1-42.
- Ruckes, H. 1966c. The Genus *Dryptocephala* Laporte (Heteroptera, Pentatomidae, Discocephalinae). *American Museum Novitates*, 2256: 1-31.
- Ruckes, H. & Becker, M. 1970. The Bug Genus *Coriplatus* White (Heteroptera, Pentatomidae, Discocephalinae). *American Museum Novitates*, 2409: 1-11.
- Sailer, R.I. 1944. The genus *Solubea* (Heteroptera: Pentatomidae). *Proceedings of the Entomological Society of Washington*, 46(5): 105-127.
- Sampaio, V.G. & Campos, L.A. 2023. *Paropsocolis*, a new pentatomid genus with two new species from Brazil (Heteroptera, Pentatomidae, Ochlerini). *Zootaxa*, 5323(4): 553-566. <https://doi.org/10.11646/zootaxa.5323.4.6>
- Sampaio, V.G.; Oliveira, G.V. & Campos, L.A. 2024. Revision of *Janeirona* Distant, 1911 (Hemiptera: Pentatomidae: Ochlerini) with the description of four new species from Brazil. *Zootaxa*, 5497(4): 451-495. <https://doi.org/10.11646/zootaxa.5497.4.1>
- Sampaio, V.G.; Roell, T. & Campos, L.A. 2023. Revision of *Heteroscelis* Latreille, 1829 (Heteroptera: Pentatomidae: Asopinae) with the description of a new species from Colombia. *Zootaxa*, 5278(3): 401-438. <https://doi.org/10.11646/zootaxa.5278.3.1>
- Santos, R.S.S.; Redaelli, L.R.; Diefenbach, L.M.G.; Romanowski, H.P.; Prando, H.F. & Antchevis, R.C. 2006. Seasonal abundance and mortality of *Oebalus poecilus* (Dallas) (Hemiptera: Pentatomidae) in a hibernation refuge. *Brazilian Journal of Biology*, 66(2a): 447-453. <https://doi.org/10.1590/S1519-69842006000300010>
- Schmidt, L.S. & Barcellos, A. 2007. Abundância e riqueza de espécies de Heteroptera (Hemiptera) do Parque Estadual do Turvo, sul do Brasil: Pentatomidae. *Iheringia, Série Zoologia*, 97(1): 73-79. <https://doi.org/10.1590/S0073-47212007000100011>
- Schmitz, L.R.; Barcellos, A. & Cademartori, C.V. 2023. Which plant traits matter? *Bromelia antiacantha* Bertol. (Bromeliaceae) as a hibernation site for *Brachystethus geniculatus* (Fabricius) (Hemiptera, Pentatomidae, Edessinae). *Studies on Neotropical Fauna and Environment*, 1-7. <https://doi.org/10.1080/01650521.2023.2266174>
- Schwertner, C.F. & Grazia, J. 2007. O gênero *Chinavia* Orian (Hemiptera, Pentatomidae, Pentatominae) no Brasil, com chave pictórica para os adultos. *Revista Brasileira de Entomologia*, 51(4): 416-435. <https://doi.org/10.1590/S0085-56262007000400005>
- Schwertner, C.F. & Grazia, J. 2012. Review of the Neotropical Genus *Aleixus* McDonald (Hemiptera: Heteroptera: Pentatomidae: Proclitini), with Description of a New Species and Cladistic Analysis of the Tribe Proclitini. *Entomologica Americana*, 118(1-4): 252-262. <https://doi.org/10.1664/12-RA-034.1>
- Servino, L.M. & Schwertner, C.F. 2020. Electronic identification key and data base to the genus *Chinavia* (Heteroptera: Pentatomidae) with morphological and distributional data. *Zootaxa*, 4809(1): 195-196. <https://doi.org/10.11646/zootaxa.4809.1.13>
- Silva, E.J.E.; Fernandes, J.A.M. & Grazia, J. 2004. Variações morfológicas em *Edessa rufomarginata* e revalidação de *E. albomarginata* e *E. marginalis* (Heteroptera, Pentatomidae, Edessinae). *Iheringia, Série Zoologia*, 94(3): 261-268. <https://doi.org/10.1590/S0073-47212004000300006>
- Silva, E.J.E.; Fernandes, J.A.M. & Grazia, J. 2006. Caracterização do grupo *Edessa rufomarginata* e descrição de sete novas espécies (Heteroptera, Pentatomidae, Edessinae). *Iheringia, Série Zoologia*, 96(3): 345-362. <https://doi.org/10.1590/S0073-47212006000300012>
- Silva, L.M.H. & Campos, L.A. 2021. Revision of *Macropygium* Spinola, 1837 (Hemiptera: Pentatomidae: Ochlerini) with the revalidation of three species and the description of one new species. *Zootaxa*, 4958(1): 605-627. <https://doi.org/10.11646/zootaxa.4958.1.36>
- Silva, P.A.L. & Fernandes, J.A.M. 2021. *Calcedessa* gen. n. a new genus sister to *Grammedessa* Correia & Fernandes (Heteroptera, Pentatomidae, Edessinae) based on a cladistic analysis. *Insect Systematics & Evolution*, 53(2): 200-220. <https://doi.org/10.1163/1876312X-bja10025>
- Silva, V.J. 2017. Análise cladística e revisão do subgênero nominal de *Edessa* (Heteroptera: Pentatomidae: Edessinae). Doctoral Thesis. Universidade Federal do Pará, Museu Paraense Emílio Goeldi, Belém, Pará, Brazil.
- Silva, V.J.S. & Fernandes, J.A.M. 2012. A new species group in *Edessa* Fabricius, 1803 (Heteroptera: Pentatomidae: Edessinae). *Zootaxa*, 3313(1): 12-22. <https://doi.org/10.11646/zootaxa.3313.1.2>
- Silva, V.J.S.; Santos, C.R.M. & Fernandes, J.A.M. 2018. Stink bugs (Hemiptera: Pentatomidae) from Brazilian Amazon: checklist and new records. *Zootaxa*, 4425(3): 401-455. <https://doi.org/10.11646/zootaxa.4425.3.1>
- Simões, F.L. & Campos, L.A. 2015. Breddin's types of *Ochlerus* (Hemiptera, Pentatomidae, Discocephalinae). *Beiträge Zur Entomologie – Contributions to Entomology*, 65(2): 213-222. <https://doi.org/10.21248/contrib.ento-mol.65.2.213-222>
- Siqueira, E.L.S. 2013. Revisão de *Aceratodes* Amyot & Serville, 1843 (Heteroptera, Pentatomidae, Edessinae). Masters Dissertation. Universidade Federal do Pará, Belém, Pará, Brazil.
- Stål, C. 1860. Bidrag till Rio Janeiro-traktens Hemipter-fauna. *Kongliga Svenska Vetenskaps Akademien*, 2(7): 1-84.
- Stål, C. 1872. Enumeratio Hemipterorum. Bidrag till en förteckning öfver alla hittills kända Hemiptera, Jemte Systematiska meddelanden. 2. *Kongliga Svenska Vetenskaps Akademien*, 10(4): 1-159.
- Thomas, D.B. 1985. Revision of the Genus *Chlorocoris* Spinola (Hemiptera: Pentatomidae). *Annals of the Entomological Society of America*, 78(5): 674-690. <https://doi.org/10.1093/aesa/78.5.674>
- Thomas, D.B. 1992. *Taxonomic Synopsis of the Asopinae Pentatomidae (Heteroptera) of the Western Hemisphere*. Entomological Society of America: The Thomas Say Foundation, 16, 156p. <https://doi.org/10.4182/OAC02099>
- Thomas, D.B. 2021. The *Moneda* Bug, *Chrysodarecus moneta* Breddin = *Placocoris viridis* Mayr (Pentatomidae: Discocephalinae: Ochlerini). *Zootaxa*, 4958(1): 595-604. <https://doi.org/10.11646/zootaxa.4958.1.35>
- Thomas, D.B. & Yonke, T.R. 1990. Review of the genus *Banasa* (Hemiptera: Pentatomidae) in South America. *Annals of the Entomological Society of America*, 83(4): 657-688. <https://doi.org/10.1093/aesa/83.4.657>

- Travassos, L. & Kloss, G.R. 1958. Sobre a fauna de Nematódeos dos Coleopteros-Passalidae da Estação Biológica de Boraceia. *Arquivos de Zoologia*, 11: 23-57. <https://doi.org/10.11606/issn.2176-7793.19581123-57>
- Travassos, L.R.F.C.; Zioni, S.M.; Torres, P.H.C.; Fernandes, B.S. & Araujo, G.M. 2020. Heterogeneity and spatial fragmentation in the São Paulo macro-metropolis: the production of borders and holes. *Ambiente & Sociedade*, 23: e01801. <https://doi.org/10.1590/1809-4422asoc20190180r1vu-2020L1A0>
- Vargas, C.A.; Bottin, M.; Sarkinen, T.; Richardson, J.E.; Celis, M.; Villanueva, B. & Sanchez, A. 2024. How to fill the biodiversity data gap: Is it better to invest in fieldwork or curation? *Plant Diversity*, 46: 39-48. <https://doi.org/10.1016/j.pld.2023.06.003>
- Viviani, V.R. & Santos, R.M. 2012. Bioluminescent Coleoptera of Biological Station of Boraceia (Salesópolis, SP, Brazil): diversity, bioluminescence and habitat distribution. *Biota Neotropica*, 12(3): 21-34. <https://doi.org/10.1590/S1676-06032012000300001>
- Weiler, L.; Bianchi, F.M. & Grazia, J. 2012. Percevejos-do-mato (Hemiptera, Heteroptera, Pentatomoidea) da Floresta Nacional de São Francisco de Paula, RS, Brasil. *Revista Brasileira de Biociências*, 10(2): 186-191.
- Weiler, L.; Ferrari, A. & Grazia, J. 2011. Contributions to the knowledge of *Euschistus (Lycipta)* with the description of *E. (L.) riograndensis* sp. nov. (Hemiptera: Heteroptera: Pentatomidae: Pentatominae: Carpocorini). *Zootaxa*, 3067: 59-64. <https://doi.org/10.11646/zootaxa.3067.1.5>
- Weiler, L.; Ferrari, A. & Grazia, J. 2016. Phylogeny and biogeography of the South American subgenus *Euschistus (Lycipta)* Stål (Heteroptera: Pentatomidae: Carpocorini). *Insect Systematics & Evolution*, 47(4): 313-346. <https://doi.org/10.1163/1876312X-47032145>
- Westwood, J.O. 1837. *A Catalogue of Hemiptera in the collection of the Rev. F. W. Hope, M.A. with short Latin descriptions of the new species*. J.C. Bridge-water, London, 46 pp.
- Wilms, W.; Imperatriz-Fonseca, V.L. & Engels, W. 2010. Resource partitioning between highly eusocial bees and possible impact of the introduced africanized honey bee on native stingless bees in the Brazilian Atlantic Rain-forest. *Studies on Neotropical Fauna and Environment*, 31(3-4): 137-151. <https://doi.org/10.1076/snfe.31.3.137.13336>
- Zwetsch, A. & Grazia, J. 2001. Revisão do gênero *Runibia* (Heteroptera, Pentatomidae, Pentatomini). *Iheringia, Série Zoologia*, 91: 5-28. <https://doi.org/10.1590/S0073-47212001000200001>