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ARTICLE

Unveiling the Understudied: A Look at Phylogenetic Research on Mollusks in Brazil

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Abstract. Phylogenies are essential for organizing knowledge on biological diversity, structuring classifications, and providing insights into evolutionary events. Worldwide phylogenetic studies on mollusks emerged in the late 1980s, while in Brazil, phylogenetic analyses of mollusks started around 2000. For unknown reasons, phylogenies of lower hierarchical taxa, such as subfamilies, tribes, and genera, are not common in Malacology. Here, we analyzed articles published by malacologists and evaluated the proportion of alpha taxonomic reviews compared to phylogenetic systematic studies conducted at Brazilian institutions and worldwide. Our searches were performed using the Web of Science and Lattes Platform databases for Brazilian studies. We found 537 systematic/taxonomic papers, of which 11% included an explicit phylogenetic analysis. Additionally, 31 of these studies described a new genus or higher taxon, but only seven included phylogenetic inferences to support taxonomic decisions. The remaining 24 studies relied on alpha taxonomic classification, focusing primarily on conchological features of group-related units. We observed that publications worldwide describing higher taxa based on phylogenetic systematics began in the 1970s, with their proportion increasing over the years. The few phylogenetic analyses published after Willi Hennig's cladistics suggest that malacologists at Brazilian institutions have not established a tradition of Phylogenetic Systematics for studies on molluscan diversity.

Keywords. Mollusca; Alpha taxonomy; Phylogenetic systematic; New taxa.

INTRODUCTION

Phylogenetic analysis provides an explicit, abductive hypothesis for the relationships of organisms sharing a common evolutionary history (Fitzhugh, 2006). These hypotheses are crucial for organizing biological diversity, structuring classifications, and understanding evolutionary events (Baum, 2008). The development of explicit phylogenetic methods over the past 50 years is attributed to the concept of common ancestry, rooted in the seminal paradigm shift proposed by Darwin & Wallace in The Theory of Evolution (1858). The dissemination of Hennig's ideas in the 1960s further advanced this field. Acceptance of Hennig's paradigm has become integral to studies using explicit phylogenetic methodologies, though it has been uneven across different taxonomic areas (Rieppel, 2016). Thus, Phylogenetic Science was revolutionized after Hennig's publication in 1966, an event known as the "Hennigian Revolution" (Schmitt, 2013). The delay between the acceptance of the Darwinian paradigm and its application in systematics may have historical and social causes. One reason is that Darwinian concepts faced resistance from taxonomic authorities in the late 19th and early 20th centuries, as their thinking was predominantly essentialist, particularly in Europe (Mayr, 1991; de Queiroz & Gauthier, 1992).

In the 1930s, the precursors of Neo-Darwinist ideas and the synthetic theory of evolution, or modern synthesis (for example, Dobzhansky, 1937; Mayr, 1982; Simpson, 1949), proposed explanations for the mechanisms involved in speciation (Pigliucci & Muller, 2010; Singh & Singh, 2017). The reinforcement of the evolutionary

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paradigm by the Neo-Darwinists in the 1940s provided strong grounds for a biological classification that favored evolutionary relationships. In 1955, the German taxonomist Willi Hennig developed a general reference system for systematics using explicit methods to estimate phylogenetic relationships. The "cladistic revolution" introduced the idea that only shared similarities, or synapomorphies, should be used to reconstruct relationships in phylogenetic analysis (Nixon, 2001). By the mid-1980s, phylogenetic analysis had become a dominant force in systematics. Since then, phylogenetic methods have been developed to support and analyze different datasets, including morphological, genetic, ecological, and biogeographical data (Cavender-Bares *et al.,* 2009; Nei, 1996; Ronquist & Sanmartín, 2011; Wiens, 2001).

Phylogenetic studies on mollusks emerged slowly in the 1970s (Boss, 1978), gaining momentum only in the late 1980s. Since then, several hypotheses have been proposed based on phenotypical, molecular, and phylogenomic data. Due to the high species diversity within the phylum and the well-known morphological disparity (Vinther *et al.,* 2017), most phylogenetic studies of mollusks focus on classes at the family level (*e.g.,* Kocot, 2013; Ponder & Lindberg, 1997; Sigwart & Sutton, 2007; Smith *et al.,* 2011; Stöger *et al.,* 2013). However, phylogenies including lower hierarchical taxa, such as subfamilies, tribes, or genera, are less common. Despite this, studies on phylogeography, species delimitation, and species complexes have increased in recent decades (Fiorentino *et al.,* 2016; Göpel *et al.,* 2022; Ibáñez *et al.,* 2019; Machordom *et al.,* 2003; Marques *et al.,* 2022; Puillandre *et al.,* 2009; Raphalo *et al.,* 2021).

In Brazil, the first efforts to describe and study Brazilian mollusk fauna came from foreign researchers such as Dall, Pilsbry, Gray, and Tryon in the 19th century. In the second half of the 20th century, researchers associated with Brazilian institutions became the majority in the study of Neotropical mollusks. Since then, the discovery of new mollusk taxa in Brazilian waters and land has increased (Simone, 2003). This increase is due to the efforts of Brazilian taxonomists to adopt a more regional and national alpha taxonomic review approach (Matthews & Rios, 1974; Penna-Neme & Leme, 1978; Pimenta & Geiger, 2015; Salgado & Leme, 2000; Simone, 2001). In the 21st century, there has also been a significant increase in research on less-diverse classes such as Scaphopoda and Aplacophora (*e.g.,* Passos *et al.,* 2019; Souza *et al.,* 2013), as well as deep-sea mollusk fauna in Brazil (*e.g.,* Absalão & Oliveira, 2011; Cavallari *et al.,* 2020; Simone & Cunha, 2014; Souza *et al.,* 2020). Catalogs of marine (Rios, 1975, 1985, 1994, 2009), terrestrial, and freshwater mollusks (Simone, 2006), published by professionals and amateurs, have also improved knowledge about Brazilian mollusk diversity. The establishment of national museums and the increase of mollusk collections have provided official access and storage of biological materials, serving as historical and geographical records of biological diversity.

To better understand the history and advancement of systematics on mollusks, we analyzed the record of publications on Brazilian malacological systematics. We compared studies based solely on alpha taxonomic revision, without underlying phylogenetic systematic inference, to those including phylogenetic systematic inference. We do not discuss whether phylogenetic analysis is necessary for taxonomic decisions, as this point has been thoroughly debated by various authors from different perspectives (Platnick, 1979; Wiley, 1981; de Queiroz & Gauthier, 1992; Bryant & Cantino, 2002; de Carvalho *et al.,* 2007; Dubois, 2006, 2007; Isler *et al.,* 2013; Wheeler, 2014). Instead, we highlight that there are few mollusk taxonomists in Brazil, and among them, only a handful have produced works on phylogenetic systematics. Despite the great diversity of mollusks, Brazilian malacologists do not seem to have established a strong tradition of Phylogenetic Systematics for studies on molluscan diversity.

MATERIAL AND METHODS

We performed a bibliographical, non-systematic review by examining scientific literature on phylogenetic studies and taxonomic reviews of mollusks. Our sources included the scientific databases Web of Science and Lattes Platform for Brazilian studies, as well as advanced searches on Google Scholar coupled with Web of Science for international databases. The keywords used (in both Portuguese and English) were: "phylogeny", "taxonomy", "systematic", "cladistic analysis", "molluscan", "mollusk", "mollusc", "new taxa/taxon", "new genus/genera", "Gastropoda", "Bivalvia", "Cephalopoda", "Aplacophora", "Polyplacophora", and "Scaphopoda".

Two types of searches were conducted on the Web of Science using these keywords. The first used all databases (Main Collection of the Web of Science; Current Contents Connect; Derwent Innovations Index; KCI; Russian Science Citation; SciELO Citation Index; Zoological Record) and the filter "Brazilian financial agencies", which includes 37 agencies (*e.g.,* The Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – CAPES and Conselho Nacional de Desenvolvimento Científico e Tecnológico – CNPq). The second survey searched the keywords and combined them with "Brazil" in all databases, using the filter "year 1965-2022" (in September 2022). Papers were carefully screened to exclude those without taxonomic/systematic analyses or non-mollusk taxa.

We then performed another search based on the Lattes and CNPq curriculum platforms. We analyzed a dataset of all taxonomic and/or phylogenetic studies developed by Brazilian researchers (currently active, retired, or deceased) in Brazilian institutions and published between 1965 and September 2022. Only taxonomic and/or systematic studies were included in the analysis. All original papers were reviewed, and those selected included the revision of a given taxon, featuring at least one of the following: description of new species; species redescription; new taxon descriptions; morphological studies; comparative anatomical studies; phylogenetic analyses; and annotated checklists. We also considered papers published in indexed national or international journals, book sections, and informative publications of the Brazilian Malacological Society.

The selected papers were categorized into two groups: (i) those including phylogenetic analysis and (ii) those without phylogenetic analysis. Within the 'phylogenetic analysis' category, papers were further classified into molecular, morphological, and molecular with morphological analysis a posteriori. Additionally, a separate categorization was performed for papers describing new taxa. In this case, we focused only on higher taxa (genus-level or above), excluding new species descriptions. The papers were further classified into: (i) descriptions of new supraspecific taxa based on phylogenetic analysis; (ii) descriptions of new supraspecific taxa without phylogenetic inference. From the selected papers, we also extracted data on the geographic location (the Brazilian state) of the Brazilian authors' affiliations, aiming to analyze where these studies were conducted in the country.

For a more general comparison with worldwide Malacology, a new search was performed on Google Scholar coupled with the Web of Science using the aforementioned keywords and the filter: 1965-2022. Articles were carefully selected, excluding those without taxonomic and/or systematic analyses, those with non-mollusk taxa, and those published by Brazilian authors or developed in Brazilian institutions.

Finally, we analyzed the number of taxonomists and/or systematists currently holding positions as professors in Brazilian institutions. Details of the searches and their categorizations can be found in Supplementary Material, Tables S1-S5.

RESULTS AND DISCUSSION

In total, 537 taxonomic and/or phylogenetic studies on mollusks were conducted by Brazilian researchers between 1965 and September 2022, of which 11% included phylogenetic systematic analyses (Fig. 1). The first phylogenetic systematic papers in Brazil were published in 2000, based on morphological and molecular

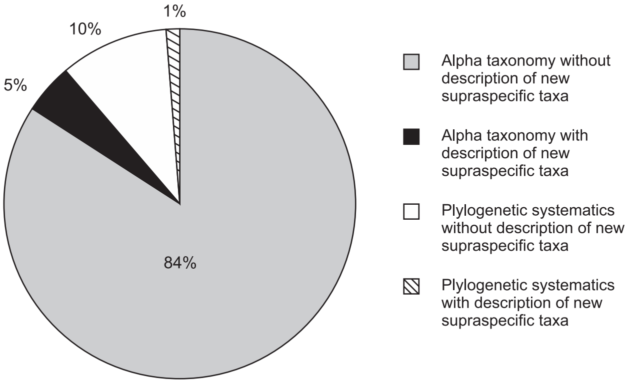

Figure 1. Percentage of studies describing new supraspecific taxa (genus-group names or above) based on alpha taxonomy or systematic approaches in Brazilian literature, focusing on molluscan taxa between 1970 to September 2022.

data (Mansur & Meier-Brook, 2000; Simone, 1998; Vidigal *et al.,* 2000), whereas worldwide cladistic studies on mollusks have been published since the mid-1970s (Fig. 2). Our results showed that most of the phylogenetic systematic studies were conducted by researchers from the southeastern region, mainly the states of São Paulo and Rio de Janeiro (Fig. 3). This quantitative difference among regions may be explained by the established schools of taxonomy and phylogenetic systematics found in southeastern Brazilian universities and institutions (*e.g.,* Amorim, 2002; de Pinna, 1991; Papavero, 1994).

According to our search, there are 29 mollusk taxonomists in Brazil currently working in Brazilian institutions. This finding highlights the limited number of malacologists working on diversity and evolutionary studies in Brazil. This situation is concerning, considering that (1) Mollusca is the second most diverse phylum of Metazoa (Giribet & Edgecombe, 2020); (2) Brazil has some of the most biodiverse ecosystems on Earth, such as the Amazon and the Atlantic rainforests (Hoorn *et al.,* 2010); and (3) Brazil has a very diverse coastal zone (Dominguez, 2006). The scarcity of taxonomists, leading to diverse families lacking specialists, has also been observed among malacologists worldwide (Bouchet *et al.,* 2016). However, efforts to study and describe the malacofauna of Brazil have been increasing over the last century. Established institutions dedicated to safeguarding, such as the Museu de Zoologia da Universidade de São Paulo, Museu Nacional da Universidade Federal do Rio de Janeiro, and Museu Paraense Emílio Goeldi, have seen significant influxes of specimens into their collections in recent decades (de Vivo *et al.,* 2014). This effort is partly driven by large economic shelf-to-deep-sea surveys, such as the REVIZEE – Programa de Avaliação do Potencial Sustentável de Recursos Vivos na Zona Econômica Exclusiva, and BIOIL – Biology and Geochemistry of Oils and Gas Seepages, SW Atlantic, funded by oil companies (such as Shell Brasil Petróleo LTDA. and Petrobras S.A.) and the Brazilian government. These expeditions have discovered previously unknown mollusks in Brazilian waters, such as the poorly studied Aplacophora (*e.g.,* Corrêa *et al.,* 2018; Miranda *et al.,* 2020) and micromollusks (*e.g.,* Absalão *et al.,* 2005; Pimenta *et al.,* 2011). There are currently 3,552 valid species of Brazilian mollusks (CTFB, 2023), with experts in six molluscan classes (except Monoplacophora, which has not yet been recorded in Brazil) contributing to research on mollusk diversity.

The approaches to studying mollusks vary depending on the taxonomic group, available financial resources, and institutional structures. Common methods employed by Brazilian researchers include taxonomic revision, morphological description, and checklists (*e.g.,* Haimovici *et al.,* 2007; Pimenta & Oliveira, 2013; Cavallari *et al.,* 2014). Additional tools and approaches encompass phylogenetics, population genetics, scanning and transmission electron microscopy, X-ray microtomography for anatomical descriptions, and integrative taxonomy (*e.g.,* Gomes *et al.,* 2010; Machado *et al.,* 2019; Bharate *et al.,* 2020). Despite the limited availability of taxonomists and systematists in the field of Malacology, researchers are

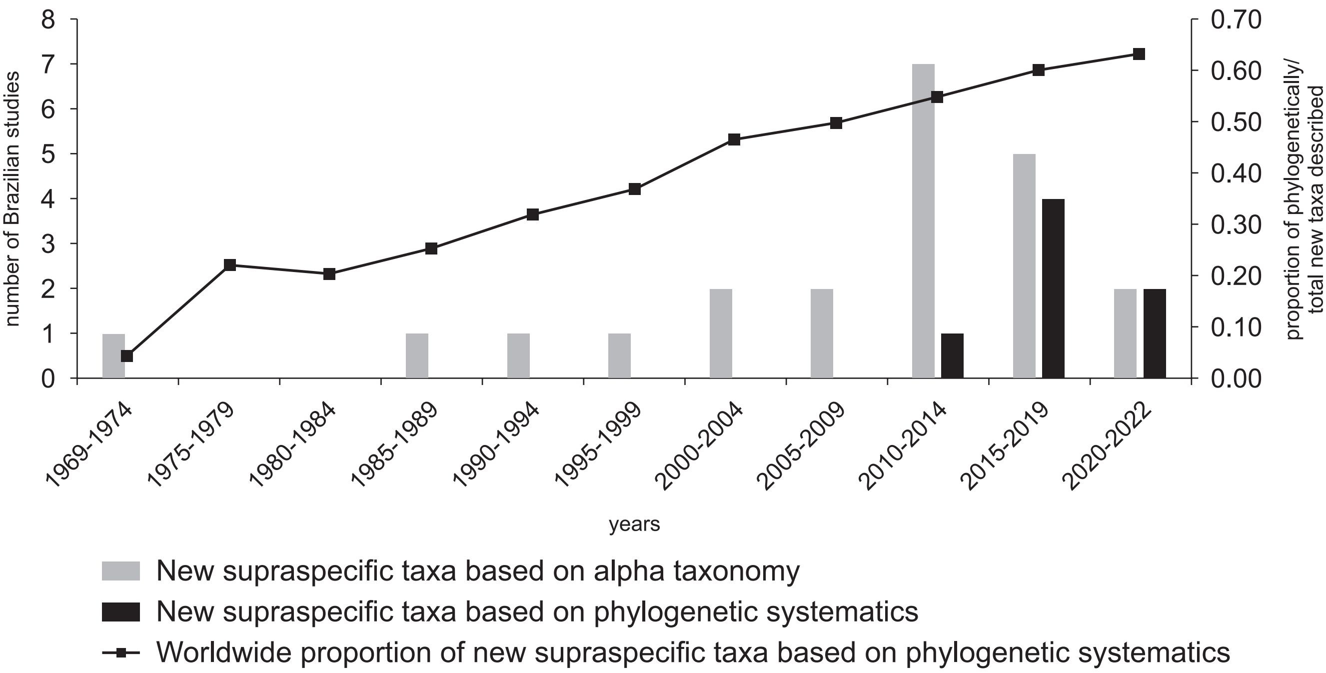

Figure 2. Comparison of studies describing new supraspecific taxa (genus-group names or above) based on alpha taxonomy or systematic approaches in Brazilian literature *vs.* the proportion of international studies employing systematic analysis among total taxonomic studies, focusing on molluscan taxa between 1970 to September 2022.

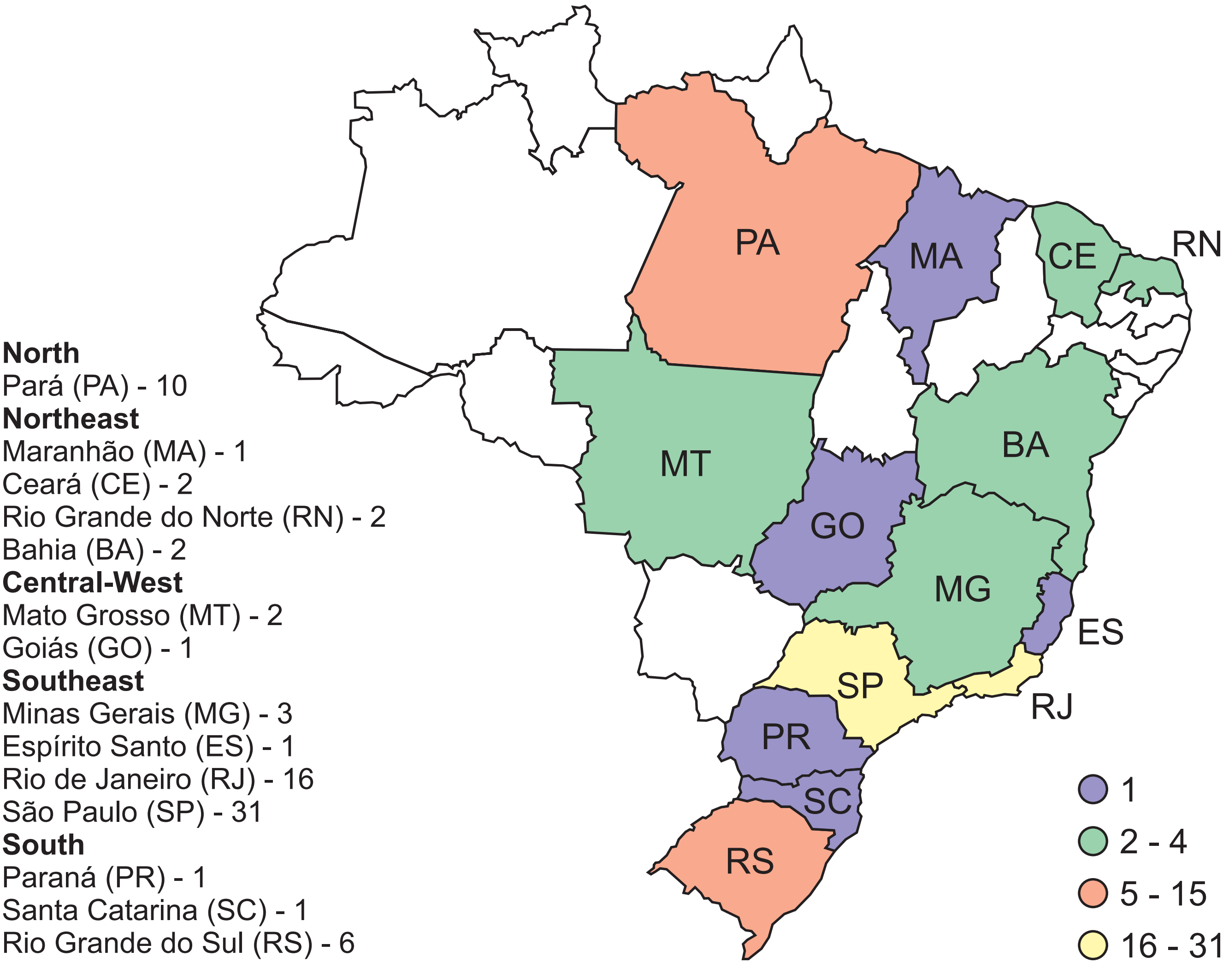

Figure 3. Number of systematic studies conducted in Brazil categorized by state and region of the affiliated institutions of the authors.

making significant efforts to access and inventory the mollusk diversity in Brazil. This is largely because established specialists often lead research groups of graduate students, who are a pivotal force in research and publication.

Most of the alpha taxonomic and systematic studies derived from our results revolve around revising a given taxon (such as genus or family) from a particular locality or expedition. The aim was to revise and/or redescribe the species, document their range expansion, and identify any new species that may have been encountered (Supplementary Material, Table S4). Our results also revealed 31 publications that described higher taxonomic levels (genus-group names and above), including the description of 23 new genera, three new subgenera, and one new family (Figs. 1 and 2). Among these, only seven were justified by phylogenetic systematic analyses at the genus level. Although worldwide phylogenetic studies have been published since the 1970s, the increase in the number of new taxa being described and justified as phylogenetic hypotheses is remarkable. However, in Brazil, this trend has only started to develop in the last decade (Fig. 2).

Generally, shell features are the basis of most alpha taxonomy and species identification, particularly at the beginning of the "Linnean era" (*e.g.,* Dall, 1889; Gmelin, 1791; Tryon, 1889). It is well-known that shell variation is common and extensive at the intraspecific level (Whelan, 2021). Although some knowledge exists on the genetic and environmental mechanisms that influence shell shape (Conde-Padín *et al.,* 2009; Kocot *et al.,* 2016), the still limited understanding of these causes may have led to the over-description of taxa (Whelan, 2021).

Species delimitation is not a trivial task and remains one of the most challenging aspects of taxonomy. The concept of a species is still in progress, making its delimitation unclear in many cases (Padial *et al.,* 2010). Methodological advances in obtaining taxonomic data, including scanning electron microscopy, DNA sequencing, genomics, and ecological mechanisms, have significantly impacted species delimitation (Abdelkrim *et al.,* 2018; Packer *et al.,* 2009; Puillandre *et al.,* 2009; Van Bocxlaer *et al.,* 2020). Traditional alpha taxonomy for shelled mollusks is typically based on shell characters only, which often result in homoplasy when applied across multiple taxa (Simone, 2007). Therefore, incorporating more data and diverse methodologies could improve accuracy in species delimitation, particularly for highly species-rich groups (Puillandre *et al.,* 2009).

If using only one part of the morphological attributes (such as shells) to define species could be a challenge, defining genera based on the same attribute could be harder. A genus provides the idea of an exclusive group of related units, and some authors argue that monophyly is the only criterion for grouping taxa (Hennig, 1966; Hörandl, 2006; Platnick, 1979; Wiley, 1981). However, using monophyly as the sole criterion may lead to weakly supported genera, especially if based on poorly sampled phylogenies (Garbino, 2015), or result in broad monophyly of phenotypically diverse species within large genera (Isler *et al.,* 2013). Nevertheless, phylogeny remains the only criterion to test the hypothesis that a group of species is closely related.

Among the systematic studies from Brazil, 44.3% were based on molecular data, 39.3% on morphological data, and 16.4% on molecular and morphological data analysis a posteriori. Both molecular and morphological studies were first published in 2000 (Simone, 1998; Vidigal *et al.,* 2000) (Fig. 4). The two first phylogenies based on morphological cladistics provided detailed anatomical data of Western Atlantic species of Terebrinae (Simone, 1998) and species from two families of bivalves (Mansur & Meier-Brook, 2000). The first molecular phylogeny analyzed Biomphalaria from Brazil using the second in-

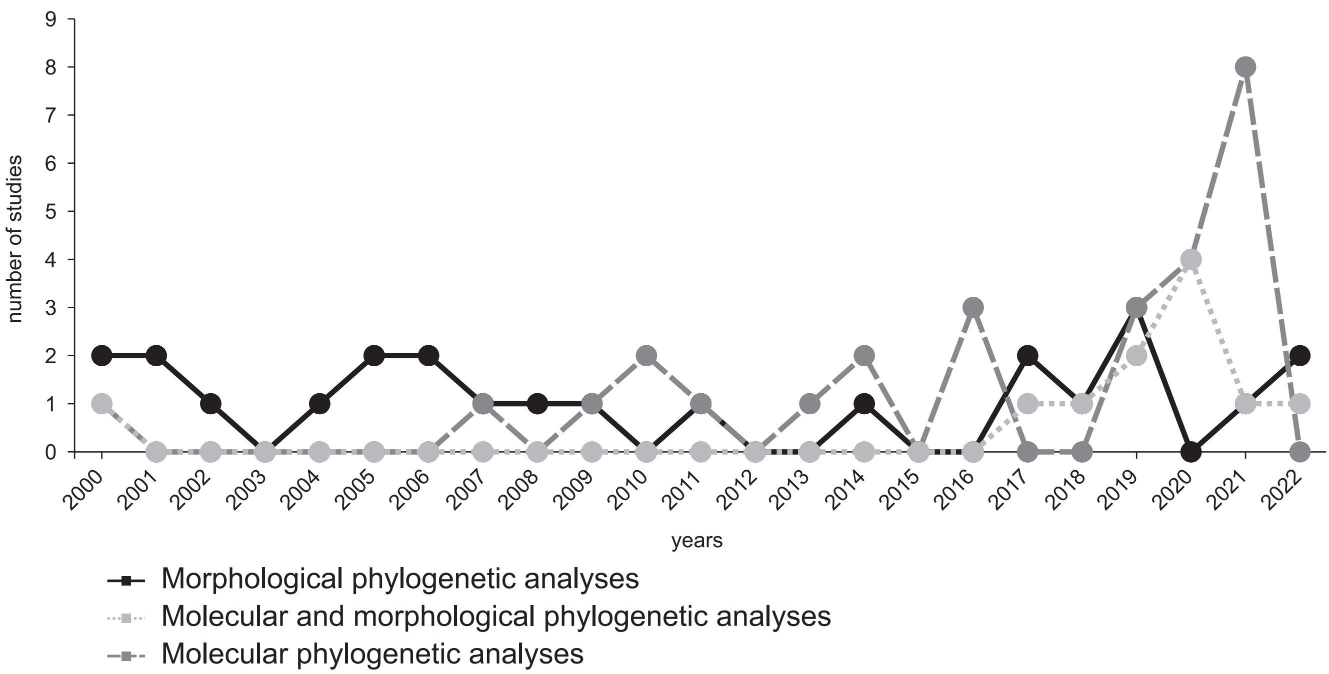

Figure 4. The number of morphological, molecular, and molecular-morphological phylogenetic studies conducted by Brazilian researchers from 2000 to September 2022.

ternal transcribed spacer (ITS2) as a DNA marker under three phylogenetic criteria: neighbor-joining, parsimony, and maximum likelihood (Vidigal *et al.,* 2000). Subsequent studies utilizing mitochondrial gene 16S rRNA (Santos *et al.,* 2005; Varela *et al.,* 2007). Then, investigations starting in 2009, incorporated multigene analyses, including mitochondrial and nuclear genes, employing Maximum Likelihood and Bayesian methodologies (*e.g.,* Hayes *et al.,* 2009; Gomes *et al.,* 2010). Molecular systematics has rapidly evolved, driven by methodological advancements, increased accessibility to vast datasets, decreasing DNA sequencing costs, and sophisticated analytical tools (Edwards, 2009; Lemmon & Lemmon, 2013; Brown & Thomson, 2017). This progress has facilitated a more comprehensive understanding of evolutionary relationships within diverse taxa, including those in the Brazilian context. Over the past decade, molecular phylogenies have increased remarkably, particularly during the 2010s (Fig. 4). Despite these advancements, the field of phylogenomics remains in its infancy in Brazil, with limited studies employing comprehensive genomic approaches. Currently, only a single publication includes transcriptome and nucleotide sequencing (Audino *et al.,* 2020). As phylogenomic tools become more accessible and international collaborations increase, we anticipate these tools will become primary approaches for Brazilian researchers.

The reasons for the small number of phylogenetic systematic malacological studies by Brazilian researchers are multifaceted. One likely factor is the availability of systematists and taxonomists, especially those with effective positions in Brazilian institutions. Additionally, a delay in adopting phylogenetic systematic tools among Brazilian malacologists has significantly hindered the training of specialists. The widespread use of conchological characteristics in these studies may have contributed to this delay, either because it is the traditional approach led by amateurs (due to the greater availability of shells in scientific collections) or due to the difficulty in analyzing soft parts for identifying less inclusive taxa. Socioeconomic factors, such as the asymmetry in research development in Brazil, where historically richer regions, primarily the southeastern region, hold a large portion of the research infrastructure and zoological collections, cannot be ignored. Molecular data analyses, especially next-generation sequencing (NGS), remain expensive for most Brazilian institutions, particularly in the northern, northeastern, and mid-western regions. Furthermore, the recent economic downturn and the impact of the Covid-19 pandemic have affected research output, particularly in more expensive areas like phylogenomics (Oliveira *et al.,* 2020). The decrease in funding for systematics research and maintenance of biological collections has been a concern in several countries in recent decades (Gropp, 2003; Lunney *et al.,* 2012; Meineke *et al.,* 2018). The budget cuts have also affected biodiversity research in Brazil, particularly after 2017 (Fernandes *et al.,* 2017; Santos & Carbayo, 2021).

Brazilian malacologists should not ignore shells in scientific collections but should consider using phylogenetic inference in their taxonomic decisions, especially at the supraspecific level. When this is not possible, they should at least discuss previous phylogenetic hypotheses of the concerned taxon and/or related taxa. One of the premises of phylogenetics is that characters, at some point, can be predictive when there are prior hypotheses regarding homology (Wiley & Lieberman, 2011).

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SUPPLEMENTARY MATERIAL

Table S1. Scientific literature published on taxonomic and/or phylogenetic studies of mollusks between 1965 and September 2022 by Brazilian taxonomists and/or systematists. Categorization of new supraspecific taxa based on alpha taxonomic papers.

State	Year	New supraspecific taxa based on alpha taxonomy
São Paulo	1973	Leme, J.L.M. 1973. Anatomy and systematics of the Neotropical Strophocheiloidea (Gastropoda, Pulmonata) with the description a new family. *Arquivos de Zoologia,* 23(5): 295-357. https://doi.org/10.11606/issn.2176-7793.v23i5p295-337.
Pernambuco/São Paulo	1985	Dutra, A.V.C.; Leme, J.L.M. 1984. *Scutalus (Aposcutalus) atlanticus* subgênero e espécie novos (Gastropoda, Bulimulidae) do Brasil. *Acta Biologica Paranaense,* 14(15): 23-38. https://doi.org/10.5380/abpr.v14i0.847.
Rio de Janeiro/São Paulo	1990	Salgado, N.C.; Leme, J.L.M. 1990. Novo subgênero de *Tomigerus* Spix, 1827 (Mollusca, Gastropoda, Odontostominae). *Boletim do Museu Nacional. Zoologia,* Rio de Janeiro, 330: 1-7.
São Paulo	1996	Simone, L.R.L. 1996. Coronium, a new genus of Muricidae (Mollusca, Neogastropoda) from off the southeastern coast of Brazil. *Bulletin of Marine Science,* 59(1): 45-52.
Rio de Janeiro	2003	Absalão, R.S.; Pimenta, A.D. 2003. A new subgenus and three new species of Brazilian deep water *Olivella* Swainson, 1831 (Mollusca, Gastropoda, Olivellidae) collected by the RV Marion Dufresne in 1987. *Zoosystema,* 25(2): 177-185.
Rio de Janeiro	2003	Absalão, R.S.; Santos, F.N. 2003. A new genus and species of Typhinae (Mollusca, Gastropoda, Muricidae) from off northeastern Brazil. *Zootaxa,* 279: 1-6. https://doi.org/10.11646/zootaxa.279.1.1.
Rio de Janeiro	2006	Santos, F.N.; Absalão, R.S. 2006. A new genus of Barleeidae Gray, 1857 (Mollusca, Gastropoda) and the first occurrence of the genus Pseudodiala Ponder, 1967 off the Brazilian coast. *Zootaxa,* 1232: 59-68. https://doi.org/10.11646/zootaxa.1232.1.2.
São Paulo	2008	Simone, L.R.L.; Amaral, V.S. 2008. Plicatulostrea, a new genus of Plicatulidae (Bivalvia: Pectinoidea) from Thailand. *Raffles Bulletin of Zoology,* Suppl. 18: 127-135.
São Paulo	2010	Simone, L.R.L. 2010. A new genus and species of camaenid from the Amazon rainforest, Brazil (Pulmonata, Helicoidea). *Journal of Conchology,* 40: 149-161.
São Paulo	2012	Simone, L.R.L. 2012. A new genus and species of cavernicolous Pomatiopsidae (Mollusca, Caenogastropoda) in Bahia, Brazil. *Papéis Avulsos de Zoologia,* 52(40): 515-524. https://doi.org/10.1590/S0031-10492012022000001.
São Paulo	2012	Simone, L.R.L. 2012. Taxonomical study on a sample of pulmonates from Santa Maria da Vitória, Bahia, Brazil, with description of a new genus and four new species (Mollusca: Orthalicidae and Megalobulimidae). *Papéis Avulsos de Zoologia,* 52(36): 431-439. https://doi.org/10.1590/S0031-10492012021600001.
Paraíba/Pernambuco	2012	Francisco, J.A.; De Barros, J.C.N.; De Lima, S.F.B. (Mollusca: Bivalvia). Five new species of Arcidae from Brazil with description of new genus: Paranadara (Mollusca: Bivalvia) *Journal of the Marine Biological Association of the United Kingdom,* 92: 1139–1150.
São Paulo	2013	Salvador, R.B.; Cunha, C.M.; Simone, L.R.L. 2013. Taxonomic revision of the orthalicid land snails (Pulmonata: Stylommatophora) from Trindade Island, Brazil. *Journal of Natural History,* 47(13-14): 949-961. https://doi.org/10.1080/00222933.2012.759290.
São Paulo	2013	Simone, L.R.L. 2013. *Habeas,* a new genus of Diplommatinidae from central Bahia, Brazil (Caenogastropoda), with description of three new species. *Journal of Conchology,* 41: 519-525.
São Paulo	2013	Simone, L.R.L.; Casati, R. 2013. New land mollusk fauna from Serra da Capivara, Piauí, Brazil, with a new genus and five new species (Gastropoda: Orthalicoidea, Streptaxidae, Subulinidae). *Zootaxa,* 3683: 145-158. https://doi.org/10.11646/zootaxa.3683.2.4.
São Paulo	2016	Salvador, R.B.; Cunha, C.M. Taxonomic revision of the fossil genera Bulimactaeon, Hemiauricula (= Liocarenus) and Nucleopsis, with description of a new Recent genus and species (Gastropoda: Heterobranchia: Acteonidae). *Journal of Molluscan Studies,* 82(3): 472–483, https://doi.org/10.1093/mollus/eyw010.
Paraíba/Pernambuco	2018	Barros, J.C.N.; Tenorio, D.O.; Lima, S.F.B. 2018. A new genus and species of the family Rissoidae (Caenogastropoda: Rissooidea) from the deep sea off northeastern Brazil (South Atlantic). *Schriften zur Malakozoologie,* 30: 7.
São Paulo	2018	Simone, L.R.L. 2018. Lavajatus moroi, new cavernicolous Subulininae from Ceará, Brazil. *Spixiana,* 41: 173-187.
Rio de Janeiro	2019	De Souza, L.S.; Pimenta, A.D. 2019. *Eulimacrostoma* gen. nov., a new genus of Eulimidae (Gastropoda, Caenogastropoda) with description of a new species and reevaluation of other western Atlantic species. *Zoosystematics and Evolution,* 95(2): 403-415. https://doi.org/10.3897/zse.95.33880.
São Paulo	2019	Simone, L.R.L. 2019. The new genus *Habeastrum,* with two new species (Gastropoda, Diplommatinidae) in Mato Grosso do Sul caves, Brazil. *Zootaxa,* 4543: 287-290. https://doi.org/10.11646/zootaxa.4543.2.7.
São Paulo	2020	Salvador, R.B.; Cunha, C.M. 2020. A new Acteonidae genus (Gastropoda, Heterobranchia) from Tierra del Fuego. *Journal of Natural History,* 54(15-16): 1009-1018. https://doi.org/10.1080/00222933.2020.1777338.
São Paulo	2021	Simone, L.R.L.; Rolán, E. 2021. A new genus and three new species of freshwater cochliopids (Caenogastropoda) from Goiás, Brazil. *Iberus,* 39: 1-21.

Table S2. Scientific literature published on taxonomic and/or phylogenetic studies of mollusks between 1965 and September 2022 by Brazilian taxonomists and/or systematists. Categorization of new supraspecific taxa based on phylogenetic systematic papers.

Type of analysis	State	Year	New supraspecific taxa based on phylogenetic systematics approach
Morphological	São Paulo	2014	Simone, L.R.L. 2014. Taxonomic study on the molluscs collected during the Marion-Dufresne expedition (MD55) off SE Brazil: the Naticidae (Mollusca: Caenogastropoda). *Zoosystema,* 36(3): 563-593. https://doi.org/10.11646/zootaxa.3835.4.2.
Morphological	Minas Gerais	2017	Cuezzo, M.G.; Pena, M.S. 2017. Minaselates, a new genus and new species of Epiphragmophoridae from Brazil (Gastropoda: Stylommatophora: Helicoidea). *Zoologia,* 34: 1-12. https://doi.org/10.3897/zoologia.34.e13230.
Morphological	São Paulo	2017	Simone, L.R.L. 2017. Convergence with naticids: phenotypic phylogenetic study on some Antarctic littorinoideans, with description of the zerotulid new genus Pseudonatica, and its presence in Brazil (Mollusca, Caenogastropoda). *Journal of the Marine Biological Association of the United Kingdom,* 97: 1-17. https://doi.org/10.1017/S002531541700025X.
Molecular	Espírito Santo	2019	Voight, J.R.; Marshall, B.A.; Judge, J.; Halanych, K.M.; Li, Y.; Bernardino, A.F.; Grewe, F.; Maddox, J.D. 2019. Life in wood: preliminary phylogeny of deep-sea wood-boring bivalves (Xylophagaidae), with descriptions of three new genera and one new species. *Journal of Molluscan Studies,* 85(2): 232-243. https://doi.org/10.1093/mollus/eyz003.
Molecular	Pará/Maranhão/Rio Grande do Sul	2019	de Luna Sales, J.B.; Haimovici, M.; Ready, J.S.; Souza, R.F.; Ferreira, Y.; Silva, L.C.P.; Carvalho, L.F.C.; Asp, N.E.; Sampaio, I.; Schneider, H. 2019. Surveying cephalopod diversity of the Amazon reef system using samples from red snapper stomachs and description of a new genus and species of octopus. *Scientific Reports,* 9(1): 5956. https://doi.org/10.1038/s41598-019-42464-8.
Molecular	Rio de Janeiro	2020	Korshunova, T.; Fletcher, K.; Picton, B.; Lundin, K.; Kashio, S.; Sanamyan, N.; Sanamyan, K.; Padula, Vinicius; Schrödl, M.; Martynov, A. 2020. The Emperor's Cadlina, hidden diversity and gill cavity evolution: new insights for the taxonomy and phylogeny of dorid nudibranchs (Mollusca: Gastropoda). *Zoological Journal of the Linnean Society,* 189(3): 726-827. https://doi.org/10.1093/zoolinnean/zlz126.
Morphological	São Paulo	2021	Pastorino, G.; Simone, L.R.L. 2021. Revision of the genus Buccinanops (Mollusca: Neogastropoda: Nassariidae), an endemic group of gastropods from the Southwestern Atlantic, including a new genus and accounts on the Buccinanopsinae classification. *Journal of Zoological Systematics and Evolution Research,* 59(6): 1209-1254. https://doi.org/10.1111/jzs.12479.

Table S3. Scientific literature published on taxonomic and/or phylogenetic studies of mollusks between 1965 and September 2022 by Brazilian taxonomists and/or systematists. Categorization of phylogenetic systematic papers without new supraspecific taxa described.

Type of analysis	State	Year	Phylogenetic systematic studies without new supraspecific taxa described
Molecular	Minas Gerais/ São Paulo	2000	Vidigal, T.H.D.A.; Kissinger, J.C.; Caldeira, R.L.; Pires, E.C.R.; Monteiro, E.; Simpson, A.J.G.; Carvalho, O.S. 2000. Phylogenetic relationships among Brazilian Biomphalaria species (Mollusca: Planorbidae) based upon analysis of ribosomal ITS2 sequences. *Parasitology,* 121(6): 611-620. https://doi.org/10.1017/S0031182000006831.
Morphological	Rio Grande do Sul	2000	Mansur, M.C.D.; Meier-Brook, C. 2000. Morphology of *Eupera* Bourguignat 1854, and Byssanodonta Orbigny 1846 with contributions to the Phylogenetic Systematics of Sphaeriidae and Corbiculidae (Bivalvia: Veneroida). *Archiv Fur Molluskenkunde,* 128(1-2): 1-59. https://doi.org/10.1127/arch.moll/128/2000/1.
Morphological	São Paulo	2000	Simone, L.R.L. 1998. A phylogenetic study of the Terebrinae (Mollusca, Caenogastropoda, Terebridae) based on species from the Western Atlantic. *Journal of Comparative Biology,* Ribeirão Preto, 3(2): 137-150.
Morphological	São Paulo	2001	Simone, L.R.L. 2001. Phylogenetic analyses of Cerithioidea (Mollusca, Caenogastropoda) based on comparative morphology. *Arquivos de Zoologia,* 36(2): 147-263. https://doi.org/10.11606/issn.2176-7793.v36i2p147-263.
Morphological	Rio de Janeiro	2001	De-Souza, P.J.S.; Coovert, G.A. 2001. Revision of the Recent Bullata Jousseaume, 1875 (Gastropoda: Marginellidae) with description of two new species. *Nautilus,* 115(1): 1-14. https://doi.org/10.5962/bhl.part.11263.
Morphological	São Paulo	2002	Simone, L.R.L. 2002. Comparative morphological study and phylogeny of representatives of the Superfamily Calyptraeoidea (including Hipponicoidea) (Mollusca, Caenogastropoda). *Biota Neotropica,* 2(2): 1-137. https://doi.org/10.1590/S1676-06032002000200013.
Morphological	São Paulo	2004	Simone, L.R.L. 2004. Comparative morphology and phylogeny of representatives of the superfamilies of architaenioglossans and the Annulariidae (Mollusca, Caenogastropoda). *Arquivos do Museu Nacional,* Rio de Janeiro, 62(4): 387-504.
Morphological	Pará	2005	Santos, S.M.L.; Tagliaro, C.H.; Beasley, C.R.; Schneider, H.; Sampaio, I.; Filho, C.S. Müller, A.C. de P. 2005. Taxonomic implications of molecular studies on Northern Brazilian Teredinidae (Mollusca: Bivalvia) specimens. *Genetics and Molecular Biology,* 28(1): 175-179. https://doi.org/10.1590/S1415-47572005000100031.
Morphological	São Paulo	2005	Simone, L.R.L. 2005. Comparative morphological study of representatives of the three families of Stromboidea and the Xenophoroidea (Mollusca, Caenogastropoda), with an assessment of their phylogeny. *Arquivos de Zoologia,* 37(2): 141-267. https://doi.org/10.11606/issn.2176-7793.v37i2p141-267.
Morphological	São Paulo	2006	Simone, L.R.L. 2006. Accounts on the phylogeny of the Rissooidea (= Hydrobioidea) and Littorinoidea, based on some American representatives, as base for a future taxonomic revaluation (Mollusca, Caenogastropoda). *Strombus,* São Paulo, 13: 18-26.
Morphological	São Paulo	2006	Simone, L.R.L. 2006. Morphological and phylogenetic study of the Western Atlantic Crepidula plana complex (Caenogastropoda, Calyptraeidae), with description of three new species from Brazil. *Zootaxa,* 1112: 1-64. https://doi.org/10.11646/zootaxa.1112.1.1.
Molecular	Pará	2007	Varela, E.S.; Beasley, C.R.; Schneider, H.; Sampaio, I.; Marques-Silva, N.D.S.; Tagliaro, C.H. 2007. Molecular phylogeny of mangrove oysters *(Crassostrea)* from Brazil. *Journal of Molluscan Studies,* 73(3): 229-234. https://doi.org/10.1093/mollus/eym018.
Morphological	São Paulo	2007	Simone, L.R.L. 2007. Family Pseudolividae (Caenogastropoda, Muricoidea): A polyphyletic taxon. *American Malacological Bulletin,* 23(1): 43-78. https://doi.org/10.4003/0740-2783-23.1.43.
Morphological	São Paulo	2008	Simone, L.R.L.; Wilkinson, S. 2008. Comparative morphological study of some Tellinidae from Thailand (Bivalvia: Tellinoidea). *Raffles Bulletin of Zoology,* Suppl. 18: 151-190.
Molecular	Rio de Janeiro	2009	Hayes, K.A.; Cowie, R.H.; Thiengo, S.C. 2009. A global phylogeny of apple snails: Gondwanan origin, generic relationships, and the influence of outgroup choice (Caenogastropoda: Ampullariidae). *Biological Journal of the Linnean Society,* 98(1): 61-76. https://doi.org/10.1111/j.1095-8312.2009.01246.x.
Morphological	São Paulo	2009	Simone, L.R.L. 2009. Comparative morphology among representatives of main taxa of Scaphopoda and basal protobranch Bivalvia (Mollusca). *Papéis Avulsos de Zoologia,* 49(31): 405-457. https://doi.org/10.1590/S0031-10492009003200001.
Molecular	Pará	2010	de Melo, A.G.; Varela, E.S.; Beasley, C.R.; Schneider, H.; Sampaio, I.; Gaffney, P.M.; Reece, K.S.; Tagliaro C.H. 2010. Molecular identification, phylogeny and geographic distribution of Brazilian mangrove oysters *(Crassostrea). Genetics and Molecular Biology,* 33(3): 564-72. https://doi.org/10.1590/S1415-47572010000300030.
Molecular	Rio de Janeiro/ Rio Grande do Sul	2010	Gomes, S.R.; Britto da Silva, F.; Mendes, I.L.V.; Thomé, J.W. Bonatto, S.L. 2010. Molecular phylogeny of the South American land slug *Phyllocaulis* (Mollusca, Soleolifera, Veronicellidae). *Zoologica Scripta,* 39(2): 177-186. https://doi.org/10.1111/j.1463-6409.2009.00412.x.
Molecular	São Paulo	2011	Dayrat, B.; Conrad, M.; Balayan, S.; White, T.R.; Albrecht, C.; Golding, R.; Gomes, S.R.; Harasewych, M.G.; de Frias Martins, A.M. 2011. Phylogenetic relationships and evolution of pulmonate gastropods (Mollusca): New insights from increased taxon sampling. *Molecular Phylogenetics and Evolution,* 59(2): 425-437. https://doi.org/10.1016/j.ympev.2011.02.014.
Morphological	São Paulo	2011	Simone, L.R.L. 2011. Phylogeny of the Caenogastropoda (Mollusca), based on comparative morphology. *Arquivos de Zoologia,* 42: 161-323. https://doi.org/10.11606/issn.2176-7793.v42i4p161-323.
Molecular	Pará/ Rio Grande do Sul	2013	Sales, J.B.L.; Shaw, P.W.; Haimovici, M.; Markaida, U.; Cunha, D.B.; Ready, J.; Figueiredo-Ready, W.M.B.; Schneider, H.; Sampaio, I. 2013. New molecular phylogeny of the squids of the family Loliginidae with emphasis on the genus Doryteuthis Naef, 1912: Mitochondrial and nuclear sequences indicate the presence of cryptic species in the southern Atlantic Ocean. *Molecular Phylogenetics and Evolution,* 68(2): 293-299. https://doi.org/10.1016/j.ympev.2013.03.027.
Molecular	Pará/ Rio Grande do Sul	2014	Sales, J.B.L.; Markaida, U.; Shaw, P.W.; Haimovici, M.; Ready, J.S.; Figueredo-Ready, W.M.B.; Angioletti, F.; Carneiro, M.A.; Schneider, H.; Sampaio, I. 2014. Molecular Phylogeny of the Genus *Lolliguncula* Steenstrup, 1881 Based on Nuclear and Mitochondrial DNA Sequences Indicates Genetic Isolation of Populations from North and South Atlantic, and the Possible Presence of Further Cryptic Species. *PLoS One,* 9: e88693. https://doi.org/10.1371/journal.pone.0088693.
Molecular	Rio de Janeiro/ Ceará	2014	Padula, V.; Araujo, A.K.; Matthews-Cascon, H.; Schrödl, M. 2014. Is the Mediterranean nudibranch *Cratena peregrina* (Gmelin, 1791) present in the Brazilian coast? Integrative species delimitation and description of *Cratena minor* n. sp. *Journal of Molluscan Studies,* 80(5): 575-584. https://doi.org/10.1093/mollus/eyu052.
Molecular	Pará/ Goiás/ São Paulo	2016	Santos-Neto, G.C.; Beasley, C.R.; Schneider, H.; Pimpão, D.M.; Hoeh, W.R.; Simone, L.R.L.; Tagliaro, C.H. 2016. Genetic relationships among freshwater mussel species from fifteen Amazonian rivers and inferences on the evolution of the Hyriidae (Mollusca: Bivalvia: Unionida). *Molecular Phylogenetics and Evolution,* 100: 148-159. https://doi.org/10.1016/j.ympev.2016.04.013.
Molecular	Rio Grande do Norte	2016	Amor, M.; Norman, M.D.; Roura, A.; Leite, T.S.; Gleadall, I.; Reid, A.; Perales-Raya, C.; Lu, C.; Strugnell, J. 2016. Morphological assessment of the *Octopus vulgaris* species complex evaluated in light of molecular-based phylogenetic inferences. *Zoologica Scripta,* 45: 1-10. https://doi.org/10.1111/zsc.12188.
Molecular	São Paulo	2016	Couto, D.R.; Simone, L.R.L.; Castro, L.Y.M.; Passos, F.D.; Silveira, A.R.; Barroso, C.M. 2016. A multilocus molecular phylogeny of Fasciolariidae (Neogastropoda: Buccinoidea). *Molecular Phylogenetics and Evolution,* 99: 309-322. https://doi.org/10.1016/j.ympev.2016.03.025.
Morphological/ Molecular	Rio de Janeiro	2017	Hoover, C.A.; Padula, V.; Schrödl, M.; Hooker, Y.; Valdés, Á. 2017. Integrative taxonomy of the *Felimare californiensis* and *F. ghiselini* species complex (Nudibranchia: Chromodorididae), with description of a new species from Peru. *Journal of Molluscan Studies,* 83: 461-475. https://doi.org/10.1093/mollus/eyx033.

Type of analysis	State	Year	Phylogenetic systematic studies without new supraspecific taxa described
Morphological	Rio de Janeiro	2018	Cuezzo, M.G.; Pignataro de Lima, A.F.; Santos, S.B. 2018. Solaropsis brasiliana, anatomy, range extension and its phylogenetic position within Pleurodontidae (Mollusca, Gastropoda, Stylommatophora). *Anais da Academia Brasileira de Ciências,* 90(2 Suppl. 1): 1291-1303. https://doi.org/10.1590/0001-3765201820170134.
Morphological/ Molecular	Rio de Janeiro	2018	Valdés, Á.; Breslau, E.; Padula, V.; Schrödl, M.; Camacho, Y.; Malaquias, M.A.E.; Alexander, J.; Bottomley, M.; Vital, X.G.; Hooker, Y.; Gosliner, T.M. 2018. Molecular and morphological systematics of Dolabrifera Gray, 1847 (Mollusca: Gastropoda: Heterobranchia: Aplysiomorpha). *Zoological Journal of the Linnean Society,* 184(1): 31-65. https://doi.org/10.1093/zoolinnean/zlx075.
Molecular	Mato Grosso	2019	Gerra, D.; Lopes-Lima, M.; Froufe, E.; Gan, H.M.; Paz, O.; Amaro, R.; Klunzinger, M.W.; Callil, C.T.; Prie, V.; Bogan, A.E.; Stewart, D.T.; Breton, S. 2019. Variability of mitochondrial ORFans hints at possible differences in the system of doubly uniparental inheritance of mitochondria among families of freshwater mussels (Bivalvia: Unionida). *BMC Evolutionary Biology,* 19(1): 229. https://doi.org/10.1186/s12862-019-1554-5.
Morphological	São Paulo	2019	Couto, D.R.; Simone, L.R.L. 2019. A morphology-based phylogenetic analysis of Fasciolariidae (Gastropoda: Buccinoidea). *Zootaxa,* 4684(1): 1-65. https://doi.org/10.11646/zootaxa.4684.1.1.
Morphological	São Paulo	2019	Dornellas, A.P.; Couto, D.R.; Simone, L.R.L. 2019. Cladistic analysis of morphological data supports a position for Tegulinae (Mollusca: Vetigastropoda) within Turbinidae. *Cladistics,* 35(5): 571-594. https://doi.org/10.1111/cla.12385.
Morphological	São Paulo	2019	Souza-Jr., P.J.S.; Simone, L.R.L. 2019. Cladistic analysis of the family Marginellidae (Mollusca, Gastropoda) based on phenotypic features. *Zootaxa,* 4648(2): 201-240. https://doi.org/10.11646/zootaxa.4648.2.1.
Morphological/ Molecular	Rio de Janeiro	2019	Golestani, H.; Crocetta, F.; Padula, V.; Camacho-García, Y.; Langeneck, J.; Poursanidis, D.; Pola, M.; Yokes, M.B.; Cervera, J.L.; Jung, D.; Gosliner, T.M.; Schrödl, M.; Valdés, Á. 2019. The little Aplysia coming of age: from one species to a complex of species complexes in Aplysia parvula (Mollusca: Gastropoda: Heterobranchia). *Zoological Journal of the Linnean Society,* 186(1): 1-34. https://doi.org/10.1093/zoolinnean/zlz028.
Morphological/ Molecular	São Paulo	2019	Audino, J.A.; Serb, J.M.; Marian, J.E.A.R. 2019. Ark clams and relatives (Bivalvia: Arcida) show convergent morphological evolution associated with lifestyle transitions in the marine benthos. *Biological Journal of the Linnean Society,* 126(2): 280-296. https://doi.org/10.1093/biolinnean/blz006.
Molecular	Ceará/ São Paulo	2020	Barroso, C.X.; Pereira de Freitas, J.E.; Matthews-Cascon, H.; Arruda Bezerra, L.E.; da Cruz Lotufo, T.M. 2020. Molecular evidences confirm the taxonomic separation of two sympatric congeneric species (Mollusca, Gastropoda, Neritidae, Neritina). *ZooKeys,* 904: 117-130. https://doi.org/10.3897/zookeys.904.46790.
Molecular	Mato Grosso/ Pará	2020	Olivera-Hyde, M.; Hallerman, E.; Santos, R.; Jones, J.; Varnerin, B.; da Cruz Santos-Neto, G.; Mansur, M.C.; Moraleco, P.; Callil, C.T. 2020. Phylogenetic assessment of freshwater mussels *Castalia ambigua* and *C. inflata* at an ecotone in the Paraguay River Basin, Brazil shows that inflated and compressed shell morphotypes are the same species. *Diversity,* 12(11): 481-513. https://doi.org/10.3390/d12120481.
Molecular	São Paulo	2020	Souza, B.H.M.; Passos, F.D.; Shimabukuro, M.; Sumida, P.Y.G. 2020. An integrative approach distinguishes three new species of *Abyssochrysoidea* (Mollusca: Caenogastropoda) associated with organic falls of the deep south-west Atlantic. *Zoological Journal of the Linnean Society,* 191(3): 478-771. https://doi.org/10.1093/zoolinnean/zlaa059.
Morphological/ Molecular	Rio de Janeiro	2020	Bharate, M.; Padula, V.; Apte, D. Shimpi, G.G. 2020. Integrative description of two new *Cratena* species (Mollusca: Nudibranchia) from western India. *Zootaxa,* 4729(3): 359-370. https://doi.org/10.11646/zootaxa.4729.3.4.
Morphological/ Molecular	São Paulo	2020	Anderson, F.E.; Marian, J.E.A.R. 2020. The grass squid *Pickfordiateuthis pulchella* is a paedomorphic loliginid. *Molecular Phylogenetics and Evolution,* 148: 1-11, 106801. https://doi.org/10.1016/j.ympev.2020.106801.
Morphological/ Molecular	São Paulo	2020	Audino, J.A.; Serb, J.M.; Marian, J.E.A.R. 2020. Phylogeny and anatomy of marine mussels (Bivalvia: Mytilidae) reveal convergent evolution of siphon traits. *Zoological Journal of the Linnean Society,* 188(2): 492-508. https://doi.org/10.1093/zoolinnean/zlz050.
Morphological/ Molecular	São Paulo	2020	Audino, J.A.; Serb, J.M.; Marian, J.E.A.R. 2020. Hard to get, easy to lose: evolution of mantle photoreceptor organs in bivalves (Bivalvia, Pteriomorphia). *Evolution,* 74(9): 2105-2120. https://doi.org/10.1111/evo.14050.
Morphological/ Molecular	São Paulo	2021	Audino, J.A.; Serb, J.M.; Marian, J.E.A.R. 2021. Untangling the diversity and evolution of tentacles in scallops, oysters, and their relatives (Bivalvia: Pteriomorphia). *Organisms Diversity & Evolution,* 21(1): 1-19. https://doi.org/10.1007/s13127-021-00482-3.
Molecular	São Paulo	2021	Dornellas, A.P.; Graboski, R.M.; Hellberg, M.E.; Lotufo, T.M.C. 2021. Phylogeography of Agathistoma (Turbinidae, Tegulinae) snails in tropical and southwestern Atlantic. *Zoologica Scripta,* 00: 1-15. https://doi.org/10.1111/zsc.12501.
Molecular	Pará	2021	Costa, T.A.S.; Sales, J.B.L.; Markaida, U.; Granados-Amores, J.; Gales, S.M.; Sampaio, I.; Vallinoto, M.; Rodrigues-Filho, L.F.S.; Ready, J.S. 2021. Revisiting the phylogeny of the genus *Lolliguncula* Steenstrup 1881 improves understanding of their biogeography and proves the validity of *Lolliguncula argus* Brakoniecki & Roper, 1985. *Molecular Phylogenetics and Evolution,* 154: 106968. https://doi.org/10.1016/j.ympev.2020.106968.
Molecular	Bahia/ Pará	2021	Jesus, M.D.; Sales, J.B.L.; Martins, R.S.; Ready, J.S.; Costa, T.A.S.; Abblet, J.B.; Schiavetti, A. 2021. Traditional knowledge aids description when resolving the taxonomic status of unsettled species using classical and molecular taxonomy: the case of the shallow-water octopus *Callistoctopus furvus* (Gould, 1852) from the western Atlantic Ocean. *Frontiers in Marine Science,* 7: 595244. https://doi.org/10.3389/fmars.2020.595244.
Molecular	Santa Catarina/Paraná/ Rio Grande do Norte/ Bahia/Rio de Janeiro/ Rio Grande do Sul	2021	Leite, T.; Vidal, E.; Dantas, F.; Lima, S.M.Q.; Dias, R.M.; Giuberti, G.A.; Vasconcelos, D.; Mather, J.; Haimovici, M. 2021. A new species of pygmy Paroctopus (Cephalopoda: Octopodidae): the smallest southwestern Atlantic octopod, found in sea debris. *Marine Biodiversity,* 51(4): 1-23. https://doi.org/10.1007/s12526-021-01201-z.
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Molecular	Rio de Janeiro	2021	Moles, J.; Berning, M.I.; Hooker, Y.; Padula, V.; Wilson, N.G.; Schrödl, M. 2021. Due South: the evolutionary history of Sub-Antarctic and Antarctic Tritoniidae nudibranchs. *Molecular Phylogenetics and Evolution,* 1: 107209. https://doi.org/10.1016/j.ympev.2021.107209.
Molecular	Rio de Janeiro	2021	Fernandes, M.; Salgueiro, F.; Miyahira, I. 2021. A global invader is possibly two: first genetic investigation of native populations of the estuarine Bivalve *Mytilopsis leucophaeata* (Dreissenidae). *Estuaries and Coasts,* 45(3): 812-826. https://doi.org/10.1007/s12237-021-01007-z.
Morphological	Minas Gerais/ São Paulo	2022	Marques, R.C.; da Silva, A.M.; Simone, L.R.L. 2022. Cladistic analysis of the transisthmian genus *Eurytellina* (Bivalvia: Tellinoidea) based on morphological and morphometric data. *Organisms Diversity & Evolution,* 22: 857-891. https://doi.org/10.1007/s13127-022-00561-z.
Morphological	São Paulo	2022	Simone, L.R.L. 2022. Additions to the genus Anthinus occurring in Minas Gerais and Goiás regions, Brazil, with description of five new species, one of them in the new related genus Catracca (Gastropoda, Eupulmonata, Strophocheilidae). *PLoS One,* 17: e0273067-58. https://doi.org/10.1371/journal.pone.0273067.
Morphological/ Molecular	Rio de Janeiro	2022	Garcia-Mendez, K.; Padula, V.; Valdes, A. 2022. Integrative systematics of the genus Dondice Marcus, 1958 (Gastropoda, Nudibranchia, Myrrhinidae) in the Western Atlantic. *Marine Biodiversity,* 52: 42. https://doi.org/10.1007/s12526-022-01273-5.

Table S4. Scientific literature published on taxonomic and/or phylogenetic studies of mollusks between 1965 and September 2022 by Brazilian taxonomists and/or systematists. Categorization of alpha taxonomy papers without new supraspecific taxa.

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Alpha taxonomy studies without new supraspecific taxa

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Table S5. Mollusk taxonomists and/or systematists currently holding a position as professors in a Brazilian institution.

Researchers	Institution
Alexandre Dias Pimenta	Museu Nacional da Universidade Federal do Rio de Janeiro
Ana Paula Dornellas	Universidade Federal de Sergipe
Carlos Henrique Soares Caetano	Universidade do Rio de Janeiro
Claudia Tasso Callil	Universidade Federal de Mato Grosso
Cléo Dilnei de Castro Oliveira	Universidade Federal do Rio de Janeiro
Cristina de Almeida Rocha-Barreira	Universidade Federal do Ceará
Edson Pereira Silva	Universidade Federal Fluminense
Eliane Pintor de Arruda	Universidade Federal de São Carlos
Flávio Dias Passos	Universidade Estadual de Campinas
Franklin Noel dos Santos	Universidade Federal do Espírito Santo
Inês Xavier Martins	Universidade Federal Rural do Semi-Árido
João Braullio de Luna Sales	Universidade Federal do Pará
José Carlos Nascimento de Barros	Universidade Federal Rural de Pernambuco
José Eduardo Amoroso Rodriguez Marian	Universidade de São Paulo
Helena Matthews-Cascon	Universidade Federal do Ceará
Leonardo Santos de Souza	Universidade Federal do Rio Grande do Sul
Luiz Ricardo Lopes de Simone	Museu de Zoologia da Universidade de São Paulo
Martin Lindsey Christoffersen	Universidade Federal da Paraíba
Meire Silva Pena	Museu de Ciências Naturais – PUC MG
Rodrigo Cesar Marques	Universidade Federal dos Vales do Jequitinhonha e Mucuri
Silvana Thiengo	Instituto Oswaldo Cruz, Rio de Janeiro
Silvio Felipe Barbosa Lima	Universidade Federal de Campina Grande
Sonia Andrade	Universidade de São Paulo
Sônia Barbosa dos Santos	Universidade do Estado do Rio de Janeiro
Sthefane D'ávila	Universidade Federal de Juiz de Fora
Suzete Rodrigues Gomes	Instituto Oswaldo Cruz, Rio de Janeiro
Tatiana Silva Leite	Universidade Federal de Santa Catarina
Teofânia Vidigal	Universidade Federal de Minas Gerais
Vinícius Padula Anderson	Museu Nacional da Universidade Federal do Rio de Janeiro

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