

The malacological work of Arcangelo Scacchi (1810-1893). Part II: a critical review of Scacchian taxa

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Abstract

The molluscan genera and species established by Arcangelo Scacchi (71 taxa, 18 of which are still valid) are listed and revised. Principle of Priority is applied to the nominal taxa *Diplodonta apicalis* Philippi, 1836, and *Tellina trigona* Scacchi, 1835 (resulting *Diplodonta trigona* (Scacchi, 1835) the valid name), as well as to *Scalaria hellenica* Forbes, 1844, and *Rissoa? coronata* Scacchi in Philippi, 1844 (resulting *Opalia (Nodiscala) coronata* (Scacchi in Philippi, 1844) the valid name). Principle of the First Reviser is applied to *Pteromeris minuta* (Scacchi, 1836) and *Pteromeris corbis* (Philippi, 1836), and the latter has precedence. The name *Clavagella balanorum*, traditionally dated from Scacchi (1841), has proved to be available from Scacchi in Philippi (1840). Type locality and location of type material are also provided. Lectotypes are designated for *Cancellaria coronata* Scacchi, 1835, *Pleurotoma columnae* Scacchi, 1835, *Pleurotoma elegans* Scacchi, 1835, *Pleurotoma imperati* Scacchi, 1835, *Parthenope formosa* Scacchi, 1833, *Tellina longicallus* Scacchi, 1835, *Tellina caduca* Scacchi, 1835, and *Dentalium olivi* Scacchi, 1835; syntypes are designated for *Pleurotoma heptagona* Scacchi, 1835, *Erycina pisum* Scacchi, 1836, *Solen multistriatus* Scacchi, 1835.

Riassunto

L'opera malacologica di Arcangelo Scacchi (1810-1893). Parte II: rassegna critica dei taxa scacchiani. Sono elencati e revisionati i generi e le specie di molluschi istituiti da Arcangelo Scacchi (71 taxa, di cui 18 tuttora validi). Viene applicato il Principio di Priorità ai taxa nominali *Diplodonta apicalis* Philippi, 1836 e *Tellina trigona* Scacchi, 1835 (risultando *Diplodonta trigona* (Scacchi, 1835) il nome valido), nonché a *Scalaria hellenica* Forbes, 1844 e *Rissoa? coronata* Scacchi in Philippi, 1844 (risultando *Opalia (Nodiscala) coronata* (Scacchi in Philippi, 1844) il nome valido). Viene applicato il Principio del Primo Revisore a *Pteromeris minuta* (Scacchi, 1836) e *Pteromeris corbis* (Philippi, 1836), e la precedenza spetta a quest'ultima. Il nome *Clavagella balanorum*, tradizionalmente attribuito a Scacchi (1841), si è invece rivelato disponibile in Scacchi in Philippi (1840). È fornita la località tipo nonché la collocazione del materiale tipo. Sono designati dei lectotipi per *Cancellaria coronata* Scacchi, 1835, *Pleurotoma columnae* Scacchi, 1835, *Pleurotoma elegans* Scacchi, 1835, *Pleurotoma imperati* Scacchi, 1835, *Parthenope formosa* Scacchi, 1833, *Tellina longicallus* Scacchi, 1835, *Tellina caduca* Scacchi, 1835, e *Dentalium olivi* Scacchi, 1835; sono designati dei sintipi per *Pleurotoma heptagona* Scacchi, 1835, *Erycina pisum* Scacchi, 1836 e *Solen multistriatus* Scacchi, 1835.

Key words

History of Malacology, Scacchi, systematics, nomenclature, types.

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Introduction

This paper follows up an introductory part (Cretella et al., 1992) regarding Arcangelo Scacchi's biography and malacological bibliography. In this second part, all of 71 nominal taxa (6 genus-group names and 65 species-group names) established by him are listed and revised. Type material was originally distributed in two collections, both of which located in Naples, including fossil and living molluscs respectively.

Scacchi's collection

Fossil species from Gravina in Puglia were at first placed in the paleontological collections of interest at the *Real Museo Mineralogico* (now *Museo di Mineralogia*), then moved in 1860 to *Museo di Geologia*, and transferred in 1932 to the newly-founded *Museo di Paleontologia* (Barattolo & del Re, 1996). The latter museum suffered three accidents (incendiary bomb in the night between 8th and 9th November 1941,

restructuring building works in the seventies, earthquake on 23th November 1980) that caused great damage to the collections, so that just nine Scacchian taxa (*Cancellaria coronata*, *Pleurotoma columnae*, *P. elegans*, *P. heptagona*, *P. imperati*, *Tellina longicallus*, *T. caduca*, *Solen multistriatus*, *Dentalium olivi*) are traced there now.

Recent species described in the *Catalogus* were acquired by the *Real Museo Zoologico* (now *Museo di Zoologia*) in 1837 (Sangiovanni, 1837) and subsequently studied by Carlo Praus Franceschini (1837-1917) in the course of a revision of the Mediterranean molluscs there stored (Praus Franceschini, 1906, 1915). During the second world war, bombardments (namely that one occurred on 4th August 1943, which caused the collapse of the roof), occupations and vandalisms by allied troops drastically retrenched museum contents, and at present only two taxa (*Parthenope formosa* and *Erycina pisum*) are what survive.

Some type specimens, sent by Scacchi to the French malacologist Sauveur Petit de la Saussaye (1792–1870), are housed at *Muséum National d'Histoire Naturelle*, Paris (*Phasianella intermedia*, *Rissoa similis*, *Pleurotoma concinna*, *P. nana*, *P. rudis*, *Cardita minuta*, *Cardium subangulatum*, *Tellina semidentata*, *Venus cyrilli*). However, these specimens appear not to be acceptable as type material because there is no evidence that they were part of the type series studied by Scacchi at the time when taxa were established. The collecting locality of whole Paris material ("Golphe de Naples") is not always consistent with type localities of respective nominal taxa; moreover, dates of publication of those taxa (1832, 1833, 1836) are prior to the date reported on the *Typoshèque* catalogue (November 1840), so that the latter specimens could have been collected subsequently and elsewhere; finally, there is the evidence that Scacchi's type material was acquired by Real Museo Zoologico in 1837 (Sangiovanni, 1837). Persisting uncertainty and lacking further elements (Minelli, *pers. comm.* 21.03.2001), we think it convenient not to designate such a material as type material, all the more so as these are taxa about whose identity there is no doubt and which are not involved in any complex zoological problem (ICZN, 1999: Art. 75.2).

The collection of Tommaso Di Maria, Barone di Allery, Marchese di Monterosato (1841–1927), now at the *Museo Civico di Zoologia*, Rome, includes some specimens labelled "tipo di Scacchi" (Scacchi's type): *Chiton caprearum*, *Phasianella intermedia*, *Pleurotoma concinna*, *P. heptagona*, *P. rudis*, *P. versicolor*. As already discussed above about Paris material, we prefer to avoid any type material designation for the nominal taxa having no nomenclatural problem (*Phasianella intermedia*, *Pleurotoma concinna*, *P. heptagona*, *P. rudis*) (ICZN, 1999: Art. 75.2). The examination of the material labelled *Pleurotoma versicolor* does not allow to remove any doubt, while the question of *C. caprearum* was resolved by Gaglini (1985) who designated as lectotype the specimen sent by Scacchi to Petit, and later given by Petit to Monterosato in 1869.

Priority problems

On title page of the 2nd edition of the paper *Notizie intorno alle conchiglie ed a' zoofiti fossili che si trovano nelle vicinanze di Gravina in Puglia* (Scacchi, 1836a) it is specified that the publication year of the 1st edition (Scacchi, 1835a, b) is 1835 (Cretella et al., 1992); moreover, in the *curriculum vitae* drawn by Scacchi himself (in Agnelli, 1891), it is reported that the paper was published later than 8th October 1835; therefore, for the purposes of the Code, the date to be adopted is 31st December 1835; [ICZN, 1999: Art. 21.3].

In our revision of Scacchi's taxa, we met with two priority dualisms: a) *Scacchi-Philippi (1836) dualism*. The *Catalogus Conchyliorum Regni Neapolitani* (Scacchi, 1836b) was certainly published in 1836, but later than 29th October, as reported in the *curriculum vitae* (Agnelli, 1891; see Cretella et al., 1992). In the same year Rudolf Amandus Philippi (1808–1904) brought out his *Enumeratio Molluscorum Siciliae*. The exact publication date of the 1st volume of this work (Philippi, 1836) is unknown; preface dates from September 1835, but on the title page only the year 1836 is specified. In the absence of further evidence, under the Code (ICZN, 1999: Art. 21.3) both papers are regarded as published on 31 December 1836, so that Principle of the First Reviser is to be applied (ICZN, 1999: Art. 24.2).

b) *Forbes-Philippi (1844) dualism*. Preface of the 2nd volume of the *Enumeratio* (Philippi, 1844a) dates from August 1843, but on the title page only the year 1844 is reported. However, in a subsequent paper (Philippi, 1844b), the author himself asserts that he writes about four months after the publication of that work; as the article appeared on 30th July 1844, it was most probably written in June at the latest, which means that the 2nd volume must have been published either in January or February 1844. To be on the safe side, it may be regarded as published in February 1844 (van Aartsen & Giannuzzi-Savelli, 1987; van Aartsen, *pers. comm.* 26.03.1997); the day being unknown, under the Code (ICZN, 1999: Art. 21.3) the publication date to be adopted is the last day of the month, i.e. 29th February (1844 was a leap year). Edward Forbes (1815–1854), attending the 13rd Meeting of the British Association for the Advancement of Science held in Cork (Ireland) in August 1843, presented a report on Mollusca and Radiata from the *H.M.S. Beacon* expedition in the Aegean Sea in 1841–1842. The paper (Forbes, 1844) was published the following year in London in the *Reports* of the Association. On the title page "London 1844" is printed, even if in the text it is more than once pointed out that the paper dates from the previous year. Therefore, as even the month is unknown, Philippi (1844a) has priority over Forbes (1844), because under the Code (ICZN, 1999: Art. 21.3) the latter is to be regarded as published on 31st December 1844 (Piani & Turolla, 1980; van Aartsen & Giannuzzi-Savelli, 1987; Zenetos & van Aartsen, 1995; van Aartsen, *pers. comm.* 26.03.1997). The statement of de Boury (1890: 171) that Forbes (1844) has precedence over Philippi (1844a) is not supported by any evidence.

Conventions

The systematic nomenclature conforms when possible to the *Check List of European Marine Mollusca* (CLEMAM, 2003) for the marine molluscs, and the *Checklist delle specie della fauna italiana* (Bodon et al., 1995; Manganelli et al., 1995) for the continental molluscs.

For sake of completeness, in the list of Scacchian taxa we also included the unavailable names (*nomina nuda*) and misapplications, while junior homonyms were not reported because unafflicting nomenclature. Only the species-group names published either as one word or two words united by a hyphen (ICZN, 1999: Art. 32.5.2), or separate words representing together a single entity (ICZN, 1999: Art. 11.9.5, 32.5.2.2), were deemed as available, while the names published as a descriptive phrase comprising two or more words not based on the name of a single entity (ICZN, 1999: Art. 11.9.5) were rejected. As provided in the Code (ICZN, 1999: Art. 75.2), neotypes were not designated in the cases uninvolved in complex nomenclatural problems.

CLEMAM (2003) incorrectly attributes the nominal taxon *Spondylus americanus* Lamarck, 1819 *sensu* Scacchi, 1836, quoted in synonymy with *S. gaederopus* Linnaeus, 1758, to Scacchi; actually, it is a misapplication to be imputed to Delle Chiaje (1830: pl. 106, fig. 27), as reported in Scacchi (1836b: 4).

Abbreviations

- Valid species (also in bold).

- † Exclusively fossil species.
- D Diameter; in the gastropods, the distance between two plains parallel to and just touching the left and right sides of the shell; in the scaphopods, the longest distance between the dorsal and ventral sides of the shell.
- H Height; in the bivalves, the distance between the extremities of the ventral and dorsal margins, in the plane of the commissure; in the gastropods, the distance between two planes perpendicular to the coiling axis and just touching the adapical and abapical ends.
- ICZN International Code of Zoological Nomenclature.
- L Length; in the bivalves, the distance between the anterior and posterior extremities of the shell, parallel to the plane of the commissure; in the polyplacophorans, the distance between the anterior and posterior extremities of the shell, girdle included; in the scaphopods, the shortest distance between apex and aperture.
- MCZR Museo Civico di Zoologia, Rome.
- MHNS Museo Nacional de Historia Natural, Santiago, Chile.
- MNHB Museum für Naturkunde der Humboldt-Universität, Berlin.
- MPUN Museo di Paleontologia dell'Università degli Studi di Napoli Federico II, Naples.
- MZUN Museo di Zoologia dell'Università degli Studi di Napoli Federico II, Naples.
- spm. Specimen(s).
- W Width; in the polyplacophorans, the distance between the left and right sides of the shell, girdle included.

List of Genus-Group Nominal Taxa Introduced by Scacchi

Class GASTROPODA

Family SCISSURELLIDAE

- Sissurella* [sic] Scacchi, 1836b: 16, note 33; 1857: 17, note 33. **Remarks:** An unjustified emendation (ICZN, 1999: Art. 33.2.3) and a junior objective synonym of *Scissurella* d'Orbigny, 1824.

Families TRUNCATELLIDAE, ASSIMINEIDAE, COCHLOSTOMATIDAE, POMATIASIDAE

- Ciclostoma* – Scacchi, 1836b: 15; 1857: 16. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Cyclostoma* Lamarck, 1799 [= *Pomatias* S. Studer, 1789 (Gastropoda: Pomatiasidae); not *Cyclostoma* Bosc, 1802 = *Epitonium* Röding, 1798 (Gastropoda: Epitoniidae); not *Cyclostoma* Otto, 1823 = *Cyclocotyla* Otto, 1823 (Trematoda: Diclidophoridae)], and a junior synonym of *Truncatella* Risso, 1826 (Gastropoda: Truncatellidae), *Paludina* L. Pfeiffer, 1841 (Gastropoda: Assimineidae), *Cochlostoma* Jan, 1830 (Gastropoda: Cochlostomatidae) and *Pomatias* S. Studer, 1789 (Gastropoda: Pomatiasidae). It was not possible to allocate to any family or genus the taxon *Cyclostoma pygmaeum* Michaud, 1831, an unidentifiable probable marine species (see Dupuy, 1851: 578-579; Moquin-Tandon, 1856: 506).

Family TRIMUSCULIDAE

- Clypeus* – Scacchi, 1835b: 12; 1836a: 54; 1836b: 17, note 36;

- 1857: 18, note 36. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Clypeus* Scacchi, 1833, and a junior synonym of *Trimusculus* F.C. Schmidt, 1818.
- Clypeus* Scacchi, 1833: 27. **Type species:** *Patella garnoti* (Payraudeau, 1826) = *Trimusculus mammillaris* (Linnaeus, 1758), by monotypy. **Remarks:** A junior homonym of *Clypeus* Leske, 1778 (Echinoidea: Clypeidae) and a junior synonym of *Trimusculus* F.C. Schmidt, 1818.

Class BIVALVIA

Family SOLEMYIDAE

- Stephanopus* Scacchi, 1833: 3-6. **Type species:** *Stephanopus polianus* Scacchi, 1833 = *Solemya togata* (Poli, 1791), by monotypy. **Remarks:** A junior synonym of *Solemya* Lamarck, 1818. In Scacchi (1833) the generic names *Stephanopus* and *Hirudinaria*, introduced for the soft parts, are different from those used for the shells.

Family GALEOMMATIDAE

- Hirudinaria* Scacchi, 1833: 8-10. **Type species:** *Hirudinaria alba* Scacchi, 1833 = *Galeomma (Galeomma) turtoni* G.B. Sowerby I in Turton, 1825, by monotypy. **Remarks:** A junior synonym of *Galeomma* G.B. Sowerby I in Turton, 1825. See *Stephanopus*.

- Parthenope* Scacchi, 1833: 8-10, 19-21. **Type species:** *Parthenope formosa* Scacchi, 1833 = *Galeomma turtoni* G.B. Sowerby I in Turton, 1825, by monotypy. **Remarks:** A junior homonym of *Parthenope* Weber, 1795 (Crustacea: Parthenopidae), and a junior synonym of *Galeomma* G.B. Sowerby I in Turton, 1825.

Family LYONSIIDAE

- Pandorina* Scacchi, 1833: 15. **Type species:** *Tellina coruscans* Scacchi, 1833 = *Lyonsia norwegica* (Gmelin, 1791), by monotypy. **Remarks:** A junior homonym of *Pandorina* Bory de Saint-Vincent, 1827 (Flagellata: Eudorinidae), and a junior synonym of *Lyonsia* Turton, 1822.

List of Species-Group Nominal Taxa Introduced by Scacchi

Class POLYPLACOPHORA

Family ISCHNOCHITONIDAE

- *caprearum*. *Chiton caprearum* Scacchi, 1836b: 9, note 9; 1857: 9, note 9. **Type locality:** "Caprearum scopulos incolit." (It lives on the cliffs of Capri) (Scacchi, 1836b). **Type material (Fig. 1a):** Lectotype (Gaglini, 1985: viii, L 9.5 mm, W 6.4 mm) MCZR E20/12698 (Monterosato Collection), "Coll. Petit, da Scacchi come Ch. Caprearum (Capri! Na[poli]!" **Remarks:** A valid specific name currently included in the binomen *Lepidochitona caprearum* (Scacchi, 1836), Mediterranean, Black Sea, north-eastern Atlantic (Gulf of Cadiz). Nomenclatural validity of the Scacchian taxon was demonstrated by Piani (1983: 91-94) and reaffirmed by Gaglini (1985), who designated the specimen sent by Scacchi to Petit, now in Monterosato Collection, as lectotype. *Lepidochitona corrugata* (Reeve, 1848) is to be regarded as a junior synonym.
- scytodesma*. *Chiton scytodesma* Scacchi, 1836b: 9, note 8;

1857: 9, note 8. **Type locality:** "In sinu Neapolitano rarus." (Rare in the Bay of Naples) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Callochiton septemvalvis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts). Some authors (Monterosato, 1878: 77; Pilsbry, 1892: 182; Bellini, 1929: 60) treated this Scacchi's taxon as a junior synonym of *Chiton corallinus* (Risso, 1826) [= *Chiton rubicundus* O.G. Costa, 1829] (Polyplacophora: Chitonidae), while others (Monterosato, 1872b: 29; 1875: 21; Pilsbry, 1894: 89; Kaas & Van Belle, 1985: 11; Sabelli et al., 1990: 116; Gaglini, 1985: xii; Dell'Angelo & Smriglio, 1999: 125, 127) synonymized it with *Callochiton septemvalvis* (Montagu, 1803) [= *Chiton euplaeae* O.G. Costa, 1829 = *Chiton laevis* Montagu, 1803]. We agree with the latter authors in regarding *C. scytodesma* as a junior synonym of *C. septemvalvis* since not only Scacchi reported "...fascia marginali lata, coriacea..." [girdle broad, leathery] in his even concise original diagnosis, but he also listed "*Chiton rubicundus* Costa" [= *Chiton corallinus* (Risso, 1826)] in the *Catalogus*, so demonstrating to know and discern well this species.

Class GASTROPODA

Family SCISSURELLIDAE

dorbignyi. *Sissurella* [sic] *d'Orbigny* Scacchi, 1836b: 16–17, note 34; 1857: 17, note 34. **Type locality:** "Ad Pausiliporam inter criptas Nulliporae decussatae unum alterumque specimen reperimus." (We found two specimens on the shore of Posillipo [Naples] in the crevices of *Nullipora decussata* [= *Spongites decussata* (Ellis & Solander) Kützing (Rhodophyceae: Corallinaceae)]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A name emended from *d'Orbigny* (ICZN, 1999: Arts. 27, 32.5.2, 32.5.2.3). A junior secondary homonym of *Scissurella dorbignyi* Audouin, 1826, Red Sea (see Yaron, 1983), and a junior synonym of *Scissurella costata* d'Orbigny, 1824, Mediterranean, north-eastern Atlantic (Portuguese coasts) (see Philippi, 1844a: 159, as *Scissurella plicata*).

rugosa. *Sissurella dorbignyi* var. *rugosa* Scacchi, 1836b: 17; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

striata. *Sissurella dorbignyi* var. *striata* Scacchi, 1836b: 17; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

Family TURBINIDAE

intermedia. *Phasianella intermedia* Scacchi, 1836b: 14, note 27, fig. 23; 1841a: 43; 1857: 15, note 27, fig. 23. **Type locality:** "In sinu Neapolitano parum frequens." (Not much common in the Bay of Naples) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Tricolia tenuis* (Michaud, 1829), Mediterranean.

Family TROCHIDAE

alba. *Trochus conulus* var. *alba* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

alba. *Trochus magus* var. *alba* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

albo-sordida. *Trochus egyptiacus* var. *albo-sordida* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*), made available by the subsequent description by Bucquoy et al. (1885: 372) (it must nevertheless be emended

in *albosordida*; ICZN, 1999: Art. 32.5.2.2), and a junior synonym of *Gibbula (Forskalea) fanulum* (Gmelin, 1791), Mediterranean, north-eastern Atlantic (Gulf of Cadiz).

depressa. *Trochus firmonii* var. *depressa* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

draparnodi. *Trochus draparnodi* Payr. – Scacchi, 1836b: 14; 1857: 14. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Monodonta draparnaudii* Payraudeau, 1826, and a junior synonym of *Osilinus articulatus* (Lamarck, 1822), Mediterranean, north-eastern Atlantic (Gulf of Cadiz).

egyptiacus. *Trochus egyptiacus* Lk. – Scacchi, 1836b: 13; 1857: 14. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Monodonta aegyptiaca* sensu Payraudeau, 1826, not Lamarck, 1822 [= *Rubritrochus declivis* (Forskål, 1775), Red Sea, Arabian Sea], and a junior synonym of *Gibbula (Forskalea) fanulum* (Gmelin, 1791).

elator. *Trochus firmonii* var. *elator* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

firmonii. *Trochus firmonii* Payr. – Scacchi, 1836b: 13; 1857: 14. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Trochus fermonii* Payraudeau, 1826, and a junior synonym of *Gibbula (Gibbula) ardens* (Salis Marschlin, 1793), Mediterranean, north-eastern Atlantic (Gulf of Cadiz).

lutea. *Trochus egyptiacus* var. *lutea* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

maior. *Trochus adansonii* var. *maior* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

minor. *Trochus adansonii* var. *minor* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

nigra. *Trochus egyptiacus* var. *nigra* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

nigra. *Trochus magus* var. *nigra* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

pallida. *Trochus zizyphinus* var. *pallida* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

rubra. *Trochus egyptiacus* var. *rubra* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*), made available by the subsequent description by Bucquoy et al. (1885: 372), and a junior synonym of *Gibbula (Forskalea) fanulum* (Gmelin, 1791).

rubra. *Trochus magus* var. *rubra* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

tesselatus. *Trochus tesselatus* Born – Scacchi, 1836b: 14; 1857: 14. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Trochus tessulatus* Born, 1778, and a junior synonym of *Osilinus turbinatus* (Born, 1778), Mediterranean, north-eastern Atlantic (Gulf of Cadiz).

versicolor. *Trochus conulus* var. *versicolor* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

violacea. *Trochus conulus* var. *violacea* Scacchi, 1836b: 13; 1857: 14. **Remarks:** An unavailable name (*nomen nudum*).

Family NERITIDAE

maculata. *Neritina fluviatilis* var. *maculata* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

nigra. *Neritina fluviatilis* var. *nigra* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

Family FOSSARIDAE

lucullanus. *Turbo lucullanus* var. *b* Scacchi, 1833: 24-25; *Rissoa lucullana* var. "*transverse sulcata*" Scacchi, 1836b: 14; 1857: 15. **Type locality**: "*Ambe le varietà vivono sugli scogli che circondano il Castel dell'Ovo.*" (Both varieties live on the cliffs surrounding Castel dell'Ovo [Naples]) (Scacchi, 1833). **Type material**: Lost (formerly at MZUN). **Remarks**: In 1833 (p. 24) Scacchi described *Turbo lucullanus* together with its variety "b", he himself supposing them two distinct specific entities. Variety "b" can be referred from description to *Fossarus ambiguus* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (Portuguese and north-western African coasts) (as confirmed by Philippi, 1844: 147, as *Fossarus adansonii*; Monterosato, 1884: 110; Bellini, 1929: 44), while typical form was allocated by some authors (e.g. Jeffreys, 1867: 5; Piani, 1979: 68; Sabelli et al., 1990: 151) to *Alvania carinata* (da Costa, 1779). In 1836 (p. 14) Scacchi quoted *Rissoa lucullana* with two varieties, "*cancellata*" [*nomen nudum*] and "*transverse sulcata*" [a rejected species-group name, ICZN, 1999: Art. 11.9.5]; in this case as well they are two distinct entities, hypothesizing that the latter is *F. ambiguus* and the former *A. carinata* (see Piani, 1979: 68).

Family CERITHIIDAE

maior. *Cerithium aluoides* var. *maior* Scacchi, 1836b: 13; 1857: 13. **Remarks**: An unavailable name (*nomen nudum*).

media. *Cerithium aluoides* var. *media* Scacchi, 1836b: 13; 1857: 13. **Remarks**: An unavailable name (*nomen nudum*).

minor. *Cerithium aluoides* var. *minor* Scacchi, 1836b: 13; 1857: 13. **Remarks**: An unavailable name (*nomen nudum*).

Family Uncertain (?CERITHIIDAE)

dellechiaje. *Murex dellechiaje* Scacchi, 1832: 3-4; *Cerithium dellechiaje* Scacchi, 1836b: 13; 1857: 13. **Type locality**: "...*Murice che una sola volta mi è riuscito d'incontrare gittato sulle nostre spiagge...*" (A murex that just once I was able to find drifted ashore on our beaches [Naples]) (Scacchi, 1832). **Type material**: Lost (formerly at MZUN). **Remarks**: A name emended from *Delle Chiaje* (ICZN, 1999: Arts. 27, 32.5.2, 32.5.2.3). *Species inquirenda*; on the basis of available data, it is not an identifiable species. According to Sangiovanni (1837) it is a doubtful, probably extra-Mediterranean species, described from a single specimen.

Family TRUNCATELLIDAE

concinnum. *Ciclostoma concinnum* Scacchi, 1836b: 15, note 32, fig. 28; 1857: 16, note 32, fig. 28. **Type locality**: "...*inter criptas scopulorum elatiori mari submersas reperimus circa arcem Lucullanam (vulg. Castel dell'Ovo).*" (We found it in the crevices of the rocks submerged by high tide round the Lucullian fortress (Castel dell'Ovo) [Naples]) (Scacchi, 1836b). **Type material**: Lost (formerly at MZUN). **Remarks**: A junior synonym of *Truncatella subcylindrica* (Linnaeus, 1767), Mediterranean, Black Sea, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 133, as *Truncatella truncatula*).

Family RISSOIDAE

alba. *Rissoa cimex* var. *alba* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*).

cancellata. *Turbo lucullanus* var. *cancellata* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*). See Family Fossaridae.

fulva. *Rissoa cimex* var. *fulva* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*).

fulva. *Rissoa costata* var. *fulva* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*).

fusca. *Rissoa cimex* var. *fusca* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*).

fusca. *Rissoa costata* var. *fusca* Scacchi, 1836b: 14; 1857: 15. **Remarks**: An unavailable name (*nomen nudum*).

lucullanus. *Turbo lucullanus* (forma tipica) Scacchi, 1833: 24-25. **Località tipo**: "*Ambe le varietà vivono sugli scogli che circondano il Castel dell'Ovo.*" (Both varieties live on the cliffs surrounding Castel dell'Ovo [Naples]) (Scacchi, 1833). **Type material**: Lost (formerly at MZUN). **Remarks**: A junior synonym of *Alvania carinata* (da Costa, 1779), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Jeffreys, 1867: 5; Piani, 1979: 68; Sabelli et al., 1990: 151). See Family Fossaridae.

• *similis*. *Rissoa similis* Scacchi, 1836b: 14, note 28; 1857: 15, note 28. **Type locality**: "*In sinu Tarentino infrequenter occurrit.*" (It uncommonly occurs in the Gulf of Taranto) (Scacchi, 1836b). **Type material**: Lost (formerly at MZUN). **Remarks**: A valid specific name currently included in the binomen *Rissoa similis* Scacchi, 1836, Mediterranean, north-eastern Atlantic (Gulf of Cadiz).

Family CALYPTRAEIDAE

poli. *Patella poli* Scacchi, 1832: 4; *Calyptrea poli* Scacchi, 1836b: 17, note 35; 1857: 18, note 35. **Type locality**: "*Essendomi stata inviata questa conchiglia da Taranto, senza indicazione del luogo ove sia stata trovata, nulla di preciso posso dirvi della sua patria.*" (As this shell was sent me from Taranto without any indication of locality where it was found, I am unable to say anything about its native place) (Scacchi, 1832). **Type material**: Lost (formerly at MZUN). **Remarks**: A junior synonym of *Calyptrea chinensis* (Linnaeus, 1758), Mediterranean, Black Sea, north-eastern Atlantic (European and north-western African coasts) (see Monterosato, 1875: 22).

Family VERMETIDAE

contortuplicatus. *Vermetus contortuplicatus* Lin. – Scacchi, 1836b: 17, note 37; 1857: 18, note 37. **Remarks**: A misapplication of the taxon *Serpula contortuplicata* Linnaeus, 1767 [= *Serpula vermicularis* Linnaeus, 1767, Mediterranean, Atlantic, South Africa, Red Sea, Persian Gulf, Strait of Magellan (Polychaeta: Serpulidae)] to the species *Vermetus (Vermetus) triquetrus* Ant. Bivona, 1832, Mediterranean, north-eastern Atlantic (Gulf of Cadiz, north-western African coasts) (see Monterosato, 1884: 62; 1892: 28).

Family CYPRAEIDAE

variolosa. *Cypraea cinnamomaea* var. *variolosa* Scacchi, 1836b: 9; 1857: 10. **Remarks**: An unavailable name (*nomen nudum*).

Family OVULIDAE

alba. *Ovula carnea* var. *alba* Scacchi, 1836b: 9; 1857: 10. **Remarks**: An unavailable name (*nomen nudum*).

rubra. *Ovula carnea* var. *rubra* Scacchi, 1836b: 9; 1857: 10.

Remarks: An unavailable name (*nomen nudum*).

Family NATICIDAE

albumen. *Natica albumen* Lin. – Scacchi, 1835b: 11; 1836a: 53; 1836b: 16; 1841a: 43; 1857: 17. **Remarks:** A misapplication of the taxon *Nerita albumen* Linnaeus, 1758 [= *Neverita albumen* (Linnaeus, 1758), Indo-Pacific] to the species *Neverita josephinia* Risso, 1826, Mediterranean, north-eastern Atlantic (Portuguese coasts).

dillwysii. *Natica dillwysii* Payr. – Scacchi, 1836b: 16; 1841a: 38, 43, 47; 1857: 17. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Natica* (*Natica*) *dillwynii* Payraudeau, 1826, Mediterranean, north-eastern Atlantic (north-western African coasts) and its junior synonym.

Family CASSIDAE

tuberculata. *Cassidaria echinophora* var. *tuberculata* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).

Family TRIPHORIDAE

granulatus. *Murex granulatus* Broc. – Scacchi, 1833: 22; *Cerithium granulatum* Broc. – Scacchi, 1836b: 13; 1857: 13-14. **Remarks:** A junior primary homonym of *Murex granulatus* W. Wood, 1818 [= *Tympanotonus fuscatus* (Linnaeus, 1758), West Africa (Gastropoda: Potamididae) (see Forbes & Hanley, 1850: 202)]. An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Murex granulatus* Brocchi, 1814 [from Renier, 1804 (an officially rejected work, ICZN Op. 316)], and a junior synonym of *Monophorus perversus* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (Portuguese and north-western African coasts).

bicolor. *Murex granulatus* var. *bicolor* Scacchi, 1833: 23. **Remarks:** An unavailable name (*nomen nudum*), taken as it is by Monterosato (1875: 37; 1878: 98), and made available by the subsequent description by Bucquoy et al. (1884: 212, pl. 26, fig. 12, as *Triforis perversus* var. *bicolor*), and a junior synonym of *Monophorus perversus* (Linnaeus, 1758).

Family EPITONIIDAE

• *coronata*. *Rissoa? coronata* Scacchi in Philippi, 1844a: 127, n. 15. **Type locality:** "*Specimen unicum prope Neapolim detexit Cl.[arissimus] Scacchi mihique dono dedit.*" (The most distinguished Scacchi discovered a single specimen near Naples and donated me it as a gift) (Philippi, 1844a). **Type material:** Unknown. Not traced at ZMHB (Glaubrecht, *pers. comm.* 12.02.1999); presumably at MHNS, but unfortunately Philippi's types housed there are unavailable (Letelier, *pers. comm.* 01.05.1999). **Remarks:** A valid specific name to be included in the binomen *Opalia* (*Nodiscala*) *coronata* (Scacchi in Philippi, 1844), Mediterranean. Sabelli et al. (1990: 182) and CLEMAM (2003) quote this species as *Opalia* (*Nodiscala*) *hellenica* (Forbes, 1844), without considering that Forbes (1844) has to be regarded as subsequent to Philippi (1844a) (see van Aartsen & Giannuzzi-Savelli, 1987: 271). Prevailing usage of Forbes' name cannot be maintained because Scacchi's senior synonym was used as a valid name after 1899 (e.g. Coen, 1937: 148, note 90) (ICZN, 1999: Art. 23.9.1).

Family EULIMIDAE

sinuosa. *Rissoa sinuosa* Scacchi, 1836b: 15, note 31, figs. 26-27; 1857: 16, note 31, figs. 26-27. **Type locality:** "*Ad Pausilipi oram inter radices Cauliniaee oceanicae, et in sinu Tarentino rara.*" (On the shore of Posillipo [Naples] in the roots of *Caulinia oceanica* [= *Posidonia oceanica* (Linnaeus) Delile (Monocotyledoneae: Potamogetonaceae)], and rare in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Melanella polita* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Warén, 1988: 17-24).

Family MURICIDAE

alba. *Murex craticulatus* var. *alba* Scacchi, 1836b: 11, note 14; 1857: 12, note 14. **Type locality:** "*In sinu Neapolitano rara.*" (Rare in the Bay of Naples) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** *Species inquirenda*; on the basis of its concise description, we are unable to allocate this nominal taxon to any species.

† *calcar*. *Murex calcar* Scacchi, 1835b: 7-8, pl. 1, fig. 16; 1836a: 41, pl. 1, fig. 16. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A junior primary homonym of *Murex calcar* J. Sowerby, 1823 [an Albian (Lower Cretaceous) fossil mesogastropod from Devon, England, the systematic position of which is uncertain, perhaps related to Stromboidea (see Taylor et al., 1983: 524; Palazzi, *pers. comm.* 08.06.1997)], and a junior synonym of *Pagodula vaginata* (de Cristofori & Jan, 1832), a Pliocene fossil from northern Italy (see Philippi, 1844a: 182, as *Murex vaginatus*). The figure provided by Scacchi, showing an apex (larval shell) having more than 1.5 whorls, enables us to infer that this taxon is not *Pagodula echinata* (Kiener, 1840), a Recent species from Mediterranean and European Atlantic coasts (see Bouchet & Warén, 1985: 138).

corallinus. *Murex corallinus* Scacchi, 1836b: 11, note 16, fig. 15; 1841a: 42; 1857: 12, note 16, fig. 15. **Type locality:** "*Cumarum oram incolit.*" (It lives on the shore of Cumae [Pozzuoli, Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Ocinebrina aciculata* (Lamarck, 1822), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Monterosato, 1872b: 48).

leucoderma. *Murex leucoderma* Scacchi, 1836b: 11, note 15, fig. 16; 1841a: 42; 1857: 12, note 15, fig. 16. **Type locality:** "*Ad Baiarum oram rara.*" (Rare on the shore of Baiae [Bacoli, Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Dermomurex scalaroides* (Blainville, 1829), Mediterranean, north-eastern Atlantic (north-western African coasts) (see Philippi, 1844a: 182, as *Murex distinctus*).

lutescens. *Murex craticulatus* var. *lutescens* Scacchi, 1836b: 11; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*).

Family BUCCINIDAE

gualtierii. *Valuta* [sic] *gualtierii* Scacchi, 1832: 1-3; *Purpura gualtierii* Scacchi, 1836b: 10; 1857: 11. **Type locality:** "...*fra gli scogli del nostro littorale...*" (On the cliffs of our shore

[Naples]) (Scacchi, 1832). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Pisania striata* (Gmelin, 1791), Mediterranean (see Philippi, 1842: 90, as *Murex pusio*; 1844a: 190, as *Buccinum pusio*).
maior. Fusus corneus var. *maior* Scacchi, 1836b: 12; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*).
maior. Purpura gualtierii var. *maior* Scacchi, 1836b: 10; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
media. Fusus corneus var. *media* Scacchi, 1836b: 12; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*).
minor. Fusus corneus var. *minor* Scacchi, 1836b: 12; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*).
minor. Purpura gualtierii var. *minor* Scacchi, 1836b: 10; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
picta. Purpura picta Scacchi, 1836b: 10, note 13, fig. 14; 1857: 11, note 13, fig. 14. **Type locality:** "Ad Pausilipi oram inter radices *Caulinia oceanicae infrequenter reperimus*." (We uncommonly find it on the shore of Posillipo [Naples] in the roots of *Caulinia oceanica* [= *Posidonia oceanica* (Linnaeus) Delile (Monocotyledoneae: Potamogetonaceae)]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior primary homonym of *Purpura picta* Turton, 1825 [= ?*Nitidella laevigata* (Linnaeus, 1758), West Indies (Gastropoda: Columbelloidea) (see Jeffreys, 1867: 358)], and a senior synonym (invalid, by homonymy) of *Polia scacchiana* (Philippi, 1844), Mediterranean (see Philippi, 1844a: 188, as *Buccinum scacchianum*).

Family COLUMBELLIDAE

brevior. Columbella rustica var. *brevior* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
maior. Columbella rustica var. *maior* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
 • *minor. Columbella minor* Scacchi, 1836b: 10, note 12, fig. 11; 1841a: 42; 1857: 11, note 12, fig. 11. **Type locality:** "In sinu Neapolitano rara." (Rare in the Bay of Naples) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A valid specific name currently included in the binomen *Mitrella minor* (Scacchi, 1836), western Mediterranean, north-eastern Atlantic (European and north-western African coasts).

Family NASSARIIDAE

alba. Buccinum macula var. *alba* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
fulva. Buccinum macula var. *fulva* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
fusca. Buccinum macula var. *fusca* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
fusca. Buccinum tessulatum var. *fusca* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
livida. Buccinum corniculum var. *livida* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
livida. Buccinum tessulatum var. *livida* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
lutescens. Buccinum macula var. *lutescens* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
maior. Buccinum corniculum var. *maior* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
maior. Buccinum tessulatum var. *maior* Scacchi, 1836b: 11;

1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
minor. Buccinum corniculum var. *minor* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
minor. Buccinum tessulatum var. *minor* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
minor. Nassa neritea var. *minor* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
nigricans. Buccinum macula var. *nigricans* Scacchi, 1836b: 11; 1857: 11. **Remarks:** An unavailable name (*nomen nudum*).
tessulatum. Buccinum tessulatum Olivi – Scacchi, 1836b: 11; 1857: 11. **Remarks:** A misapplication of the taxon *Buccinum tessulatum* Olivi, 1792 [= *Nassarius (Hinia) nitidus* (Jeffreys, 1867), Mediterranean, north-eastern Atlantic (Iberian and west African coasts), and junior homonym (invalid) of *Buccinum tessulatum* Gmelin, 1791 = *Nassarius (Sphaeromassa) mutabilis* (Linnaeus, 1758), Mediterranean, Black Sea, north-eastern Atlantic (European and west African coasts) (see Monterosato, 1912: 289)] to the species *Nassarius (Telasco) cuvierii* (Payraudeau, 1826), Mediterranean, north-eastern Atlantic (north-western African coasts).

Family FASCIOLARIIDAE

albo-fasciata. Fusus syracusanus var. *albo-fasciata* Scacchi, 1836b: 12; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
fusca. Fusus syracusanus var. *fusca* Scacchi, 1836b: 12; 1857: 12. **Remarks:** An unavailable name (*nomen nudum*).

Family MARGINELLIDAE

alba. Volvaria triticea var. *alba* Scacchi, 1836b: 9; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
brochi. Volvaria brochi Scac. – Scacchi, 1836b: 10; 1857: 10. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Voluta brocchi* Scacchi, 1833, and a junior synonym of *Granulina marginata* (Ant. Bivona, 1832), Mediterranean (see Gofas, 1992: 6-7).
brocchi. Voluta brocchi Scacchi, 1833: 22. **Type locality:** "Si trova rigettata sulle nostre spiagge." (It is found drifted ashore on our beaches [Naples]) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Granulina marginata* (Ant. Bivona, 1832).
lutescens. Volvaria triticea var. *lutescens* Scacchi, 1836b: 9; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).

Family CYSTISCIDAE

alba. Volvaria miliaria var. *alba* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
fulvo-fasciata. Volvaria miliaria var. *fulvo-fasciata* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *fulvofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
minor. Volvaria miliaria var. *minor* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).

Family MITRIDAE

fulva. Mitra lutescens var. *fulva* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
fusca. Mitra lutescens var. *fusca* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).

Family COSTELLARIIDAE

- fasciata*. *Mitra caffra* var. *fasciata* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
- fusca*. *Mitra caffra* var. *fusca* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
- nigra*. *Mitra caffra* var. *nigra* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).

Family CANCELLARIIDAE

- *coronata*. *Cancellaria coronata* Scacchi, 1835b: 5-6, pl. 1, fig. 15; 1836a: 34-35, pl. 1, fig. 15. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1b):** Lectotype (here selected, H 12.5 mm, D 6.1 mm) MPUN M.17224, "Gravina, Pliocene inferiore." **Remarks:** A valid specific name currently included in the binomen *Cancellaria (Sveltia) coronata* (Scacchi, 1835), Mediterranean.

Family DRILLIIDAE

- † *columnae*. *Pleurotoma columnae* Scacchi, 1835b: 8-9, pl. 1, fig. 20; 1836a: 44, pl. 1, fig. 20. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1e):** Lectotype (here selected, H 21.7 mm, D 6.7 mm) MPUN M.17219, "Gravina, Pliocene inferiore." **Remarks:** Judging from shell shape, as well as apertural and labial features, this taxon closely resembles *Turriclavus harpula* (Brocchi, 1814), an Upper Miocene-Pliocene fossil from Italy, also recorded from British Coralline Crag and Waltonian (see Bernasconi & Robba, 1984: 283). According to Tabanelli (*pers. comm.* 02.08.1998), *P. columnae*, an Upper Miocene-Pleistocene fossil from Italy (see Philippi, 1844a: 173), should be a valid specific name to be included in the binomen *Turriclavus columnae* (Scacchi, 1835).
- elegans*. *Pleurotoma elegans* Scacchi, 1835b: 8, pl. 1, fig. 18a, b; 1836a: 43, pl. 1, fig. 18a, b; 1841a: 38. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1c):** Lectotype (here selected, H 9.6 mm, D 3.6 mm) MPUN M.17223, "Gravina, Pliocene inferiore." **Remarks:** A junior primary homonym of *Pleurotoma elegans* DeFrance, 1826 [*nomen dubium*, an unidentifiable Lutetian (Middle Eocene) fossil turrid from Paris Basin, probably belonging to subfamily Daphnellinae (Palazzi, *pers. comm.* 25.10.1997)] and *Pleurotoma elegans* Blainville, 1829 [= *Raphitoma linearis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts) (see Bucquoy et al., 1883: 96)]. A junior secondary homonym of *Murex elegans* Donovan, 1804 [= *Raphitoma linearis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts)] and *Murex elegans* W. Wood, 1828 [= *Lophiotoma polytropa* (Helbling, 1779), Indo-Pacific (Palazzi, *pers. comm.* 10.01.1997)]. *P. elegans* SCACCHI, 1835 is a senior synonym (invalid, by homonymy) of *Crassopleura maravignae* (Ant. Bivona in And. Bivona, 1838), Mediterranean, north-eastern Atlantic (Portuguese and north-western African coasts) (see Philippi, 1844a: 168).

Family TURRIDAE

- heptagona*. *Pleurotoma heptagona* Scacchi, 1835b: 8, pl. 1, fig. 17; 1836a: 41-43, pl. 1, fig. 17; 1836b: 12; 1857: 13. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1d):** Two syntypes (ICZN, 1999:

Art. 73.2): a: H 9.3 mm, D 3.7 mm (figured spm.); b: bore-holed spm., H 9.2 mm, D 4.0 mm; MPUN M.17216, "Gravina, Pliocene inferiore." **Remarks:** A junior synonym of *Haedropleura septangularis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1842: 90, as *Murex septangulus*; 1844a: 169, as *Pleurotoma septangulare*).

Family CONIDAE

- albo-maculata*. *Pleurotoma versicolor* var. *albo-maculata* Scacchi, 1836b: 12; 1857: 13. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albomaculata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary. According to Monterosato (1877: 43; 1878: 106; 1884: 132, "ex typo") it is a junior synonym of *Raphitoma philberti* (Michaud, 1829), Mediterranean.
- cinereo-maculata*. *Pleurotoma versicolor* var. *cinereo-maculata* Scacchi, 1836b: 12; 1857: 13. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *cinereomaculata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary. According to Monterosato (1884: 133, "ex typo") it is a junior synonym of *Raphitoma densa* (Monterosato, 1884), Mediterranean.
- columbellaria*. *Mitra columbellaria* Scacchi, 1836b: 10, note 11, fig. 12-13; 1841a: 42; 1857: 10, note 11. **Type locality:** "Hospitatur in sinu Neapolitano, et fossilis insulae Inarimes." (It lives in the Bay of Naples, and fossil at island of Inarime [= Ischia, Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** This specific name is regarded by Mifsud (2001: 9-10) as unavailable, because it can be referred to a complex of species in the genus *Mitromorpha* Carpenter, 1865, while CLEMAM (2003) deems it as a doubtful senior synonym of *Mitromorpha (Mitrolumna) mediterranea* Mifsud, 2001, Mediterranean.
- *concinna*. *Pleurotoma concinna* Scacchi, 1836b: 12, note 18, fig. 18; 1841a: 43; 1857: 13, note 18. **Type locality:** "In sinu Neapolitano et Tarentino parum frequens." (Not much common in the Bay of Naples and in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A valid specific name currently included in the binomen *Raphitoma concinna* (Scacchi, 1836), Mediterranean, north-eastern Atlantic (Gulf of Cadiz) (see Monterosato, 1877: 43 "ex typo", who points out the differences between this species and *R. linearis*).
- cyrilli*. *Murex cyrilli* Scacchi, 1833: 24; *Pleurotoma cyrilli* Scacchi, 1835b: 8; 1836a: 42; *Pleurotoma* C... Costa Scacchi, 1836b: 12; 1857: 13. **Type locality:** "Ambe le varietà, si trovano rigettate sulla nostra spiaggia." (Both varieties are found drifted ashore on our beach [Naples]) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** This species was described as *Murex* C... by O.G. Costa (1829: 84, 88), and subsequently named *Murex cyrilli* by Scacchi. It is presumable that Costa intended to name the taxon after Domenico Cirillo (1739-1799, an eminent botanist and physician that was a martyr to the Neapolitan Republic) from the beginning, but that, because of political reasons (the subsequent Bourbonic reaction), he merely quoted the initial letter followed by dots. A junior synonym of *Comarmondia gracilis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts, Azores) (see Monterosato, 1878: 105).

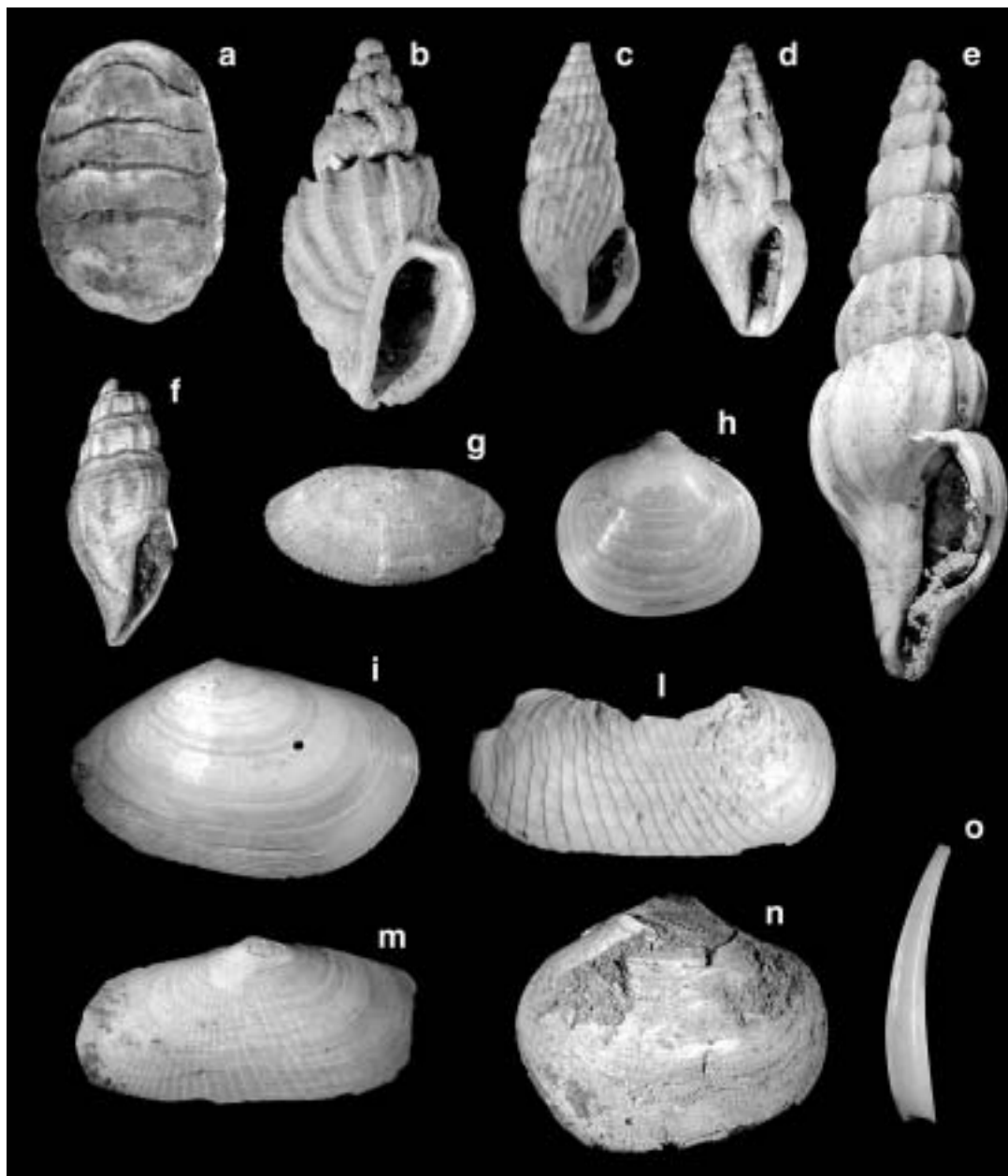


Fig. 1. a. *Chiton caprearum* Scacchi, 1836b [= *Lepidochitona caprearum* (Scacchi, 1836)], Lectotype MCZR E20/12698, Capri, L 9.5 mm, W 6.4 mm.; **b.** *Cancellaria coronata* Scacchi, 1835b [= *Cancellaria* (*Sveltia*) *coronata* (Scacchi, 1835)], Lectotype MPUN M.17224, Gravina in Puglia, Lower Pliocene, H 12.5 mm, D 6.1 mm.; **c.** *Pleurotoma elegans* Scacchi, 1835b [= *Crassopleura maravignae* (Ant. Bivona in And. Bivona, 1838)], Lectotype MPUN M.17223, Gravina in Puglia, Lower Pliocene, H 9.6 mm, D 3.6 mm.; **d.** *Pleurotoma heptagona* Scacchi, 1835b [= *Haedropleura septangularis* (Montagu, 1803)], Syntype MPUN M.17216, Gravina in Puglia, Lower Pliocene, H 9.3 mm, D 3.7 mm.; **e.** *Pleurotoma columnae* Scacchi, 1835b [= *Turriclavus columnae* (Scacchi, 1835)], Lectotype MPUN M.17219, Gravina in Puglia, Lower Pliocene, H 21.7 mm, D 6.7 mm.; **f.** *Pleurotoma imperati* Scacchi, 1835b [= *Aphanitoma imperati* (Scacchi, 1835)], Lectotype MPUN M.17251, Gravina in Puglia, Lower Pliocene, H 7.7 mm, D 3.1 mm.; **g.** *Parthenope formosa* Scacchi, 1833 [= *Galeomma turtoni* G.B. Sowerby I in Turton, 1825], Lectotype MZUN 2212, Napoli, L 6.5 mm, H 3.3 mm.; **h.** *Erycina pisum* Scacchi, 1836b [= *Kellia suborbicularis* (Montagu, 1803)], Syntype MZUN 2213, Golfo di Napoli, 5.8 mm, H 5.2 mm.; **i.** *Tellina longicallus* Scacchi, 1835a [= *Abra* (*Syndosmya*) *longicallus* (Scacchi, 1835)], Lectotype MPUN M.17263, Gravina in Puglia, Lower Pliocene, L 22.4 mm, H 13.3 mm.; **l.** *Solen multistriatus* Scacchi, 1835a [= *Solecurtus multistriatus* (Scacchi, 1835)], Syntype MPUN M.17260, Gravina in Puglia, Lower Pliocene, L 22.1 mm, H 10.6 mm.; **m.** *Tellina caduca* Scacchi, 1835a [= *Mysia undata* (Pennant, 1777)], Lectotype MPUN M.17240, Gravina in Puglia, Lower Pliocene, L 19.7 mm, H 17.0 mm.; **n.** *Dentalium olivi* Scacchi, 1835b [= *Gadila olivi* (Scacchi, 1835)], Lectotype MPUN M.17256, Gravina in Puglia, Lower Pliocene, L 12.0 mm, D 1.6 mm.

Fig. 1. a. *Chiton caprearum* Scacchi, 1836b [= *Lepidochitona caprearum* (Scacchi, 1836)], Lectotipo MCZR E20/12698, Capri, L 9.5 mm, W 6.4 mm.; **b.** *Cancellaria coronata* Scacchi, 1835b [= *Cancellaria* (*Sveltia*) *coronata* (Scacchi, 1835)], Lectotipo MPUN M.17224, Gravina in Puglia, Pliocene inferiore, H 12.5 mm, D 6.1 mm.; **c.** *Pleurotoma elegans* Scacchi, 1835b [= *Crassopleura maravignae* (Ant. Bivona in And. Bivona, 1838)], Lectotipo MPUN M.17223, Gravina in Puglia, Pliocene inferiore, H 9.6 mm, D 3.6 mm.; **d.** *Pleurotoma heptagona* Scacchi, 1835b [= *Haedropleura septangularis* (Montagu, 1803)], Sintipo MPUN M.17216, Gravina in Puglia, Pliocene inferiore, H 9.3 mm, D 3.7 mm.; **e.** *Pleurotoma columnae* Scacchi, 1835b [= *Turriclavus columnae* (Scacchi, 1835)], Lectotipo MPUN M.17219, Gravina in Puglia, Pliocene inferiore, H 21.7 mm, D 6.7 mm.; **f.** *Pleurotoma imperati* Scacchi, 1835b [= *Aphanitoma imperati* (Scacchi, 1835)], Lectotipo MPUN M.17251, Gravina in Puglia, Pliocene inferiore, H 7.7 mm, D 3.1 mm.; **g.** *Parthenope formosa* Scacchi, 1833 [= *Galeomma turtoni* G.B. Sowerby I in Turton, 1825], Lectotipo MZUN 2212, Napoli, L 6.5 mm, H 3.3 mm.; **h.** *Erycina pisum* Scacchi, 1836b [= *Kellia suborbicularis* (Montagu, 1803)], Sintipo MZUN 2213, Golfo di Napoli, 5.8 mm, H 5.2 mm.; **i.** *Tellina longicallus* Scacchi, 1835a [= *Abra* (*Syndosmya*) *longicallus* (Scacchi, 1835)], Lectotipo MPUN M.17263, Gravina in Puglia, Pliocene inferiore, L 22.4 mm, H 13.3 mm.; **l.** *Solen multistriatus* Scacchi, 1835a [= *Solecurtus multistriatus* (Scacchi, 1835)], Sintipo MPUN M.17260, Gravina in Puglia, Pliocene inferiore, L 22.1 mm, H 10.6 mm.; **m.** *Tellina caduca* Scacchi, 1835a [= *Mysia undata* (Pennant, 1777)], Lectotipo MPUN M.17240, Gravina in Puglia, Pliocene inferiore, L 19.7 mm, H 17.0 mm.; **n.** *Dentalium olivi* Scacchi, 1835b [= *Gadila olivi* (Scacchi, 1835)], Lectotipo MPUN M.17256, Gravina in Puglia, Pliocene inferiore, L 12.0 mm, D 1.6 mm.

- cyrilli* var. b. *Murex cyrilli* var. b Scacchi, 1833: 24. **Type locality:** "Ambe le varietà, si trovano rigettate sulla nostra spiaggia." (Both varieties are found drifted ashore on our beach [Naples]) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** Scacchi (1833: 24) writes: "La diversità delle strie in queste varietà è tanto rilevante che io non saprei contraddire [sic] chi volesse considerarle come specie diverse." (The diversity in streaks in these varieties is so remarkable that I could not contradict anyone who wants to regard them as different species). *M. cyrilli* var. b is a junior synonym of *Raphitoma linearis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Monterosato, 1884: 133).
- fusca*. *Pleurotoma versicolor* var. *fusca* Scacchi, 1836b: 12; 1857: 13. **Remarks:** An unavailable name (*nomen nudum*).
- ginannia*. *Pleurotoma ginannia* Ris. – Scacchi, 1836b: 12; 1857: 13. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Mangelia ginnania* Risso, 1826, and a junior synonym of *Bela nebula* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts) (see Monterosato, 1872b: 52; 1878: 105).
- gracilis*. *Pleurotoma gracilis* Scacchi, 1836b: 13, note 21, fig. 21; 1841a: 43; 1857: 13, note 21. **Type locality:** "Ad Pausilipi oram haud frequens." (Uncommon on the shore of Posillipo [Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior primary homonym of *Pleurotoma gracilis* Conrad, 1830 [= ?*Clathrodrillia gracilis* (Conrad, 1830), a Middle Miocene fossil from Maryland, USA (see Gibson, 1962: 238; Palazzi, *pers. comm.* 10.01.1997)] and *Pleurotoma gracile* Philippi, 1836 [= *Mangelia attenuata* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts)]. A junior secondary homonym of *Murex gracilis* Montagu, 1803 [= *Comarmondia gracilis* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts, Azores)]. *P. gracilis* Scacchi, 1836 is a junior synonym of *Mangelia attenuata* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts) (see Philippi, 1842: 90, as *Murex attenuatus*; 1844a: 166, as *Pleurotoma attenuatum*).
- † *imperati*. *Pleurotoma imperati* Scacchi, 1835b: 8, pl. 1, fig. 19; 1836a: 43-44, pl. 1, fig. 19. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material** (Fig. 1f): Lectotype (here selected, lacking in larval whorls, H 7.7 mm, D 3.1 mm) MPUN M.17251, "Gravina, Pliocene inferiore." **Remarks:** A valid specific name tentatively ascribed to the genus *Aphanitoma* Bellardi, 1875 (Della Bella, *pers. comm.* 16.02.2001), including the related species *A. philippii* G. Seguenza, 1880 from Calabria [= *Pleurotoma imperati* sensu Philippi, 1844, non Scacchi, 1835] (see Vazzana, 1996: 154-155). Therefore, the binomen proposed is *Aphanitoma imperati* (Scacchi, 1835), a Pliocene fossil from Italy.
- nana*. *Pleurotoma nana* Scacchi, 1836b: 13, note 20, fig. 20; 1841a: 38, 43; 1857: 13, note 20. **Type locality:** "Ad Pausilipi oram." (On the shore of Posillipo [Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior primary homonym of *Pleurotoma nana* Deshayes, 1835 [= *Bela nana* (Deshayes, 1835), a Pliocene or Pleistocene fossil from Peloponnese, Greece], and a senior synonym (invalid, by homonymy) of *Bela menkhorsti* van Aartsen, 1988 [a new replacement name (*nomen novum*)], Mediterranean (see Ghisotti, 1978: 163; van Aartsen, 1988: 30).
- nigra*. *Pleurotoma versicolor* var. *nigra* Scacchi, 1836b: 12; 1857: 13. **Remarks:** An unavailable name (*nomen nudum*).
- pusilla*. *Pleurotoma pusilla* Scacchi, 1836b: 13, note 22, fig. 22; 1857: 13, note 22. **Type locality:** "In sinu Tarentino parum frequens." (Not much common in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Mangelia multilineolata* (Deshayes, 1835), Mediterranean (see Monterosato, 1872b: 52).
- † *renieri*. *Pleurotoma renieri* Scacchi, 1835b: 9, pl. 1, fig. 21; 1836a: 44-45, pl. 1, fig. 21. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A junior synonym of *Drilliola crispata* (de Cristofori & Jan, 1832) (Tabanelli, *pers. comm.* 02.08.1998), a Middle Miocene-Lower Pliocene fossil from Italy (see Bellardi, 1877: 132).
- rudis*. *Pleurotoma rudis* Scacchi, 1836b: 12, note 17, fig. 17; 1857: 13, note 17. **Type locality:** "In sinu Neapolitano et Tarentino." (In the Bay of Naples and in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior primary homonym of *Pleurotoma rudis* G.B. Sowerby I, 1834 [= *Crassispira (Gibbaspira) rudis* (G.B. Sowerby I, 1834), eastern Pacific (see Keen, 1971: 720; Palazzi, *pers. comm.* 10.01.1997)] and *Pleurotoma rude* Philippi, 1836 [= *Clathromangelia granum* (Philippi, 1844), Mediterranean]. *P. rudis* Scacchi, 1836 is a senior synonym (invalid, by homonymy) of *Raphitoma pupoides* (Monterosato, 1884) [a new replacement name (*nomen novum*)], Mediterranean (see Monterosato, 1884: 132 "ex typo").
- rufa*. *Conus ignobilis* var. *rufa* Scacchi, 1836b: 9; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
- striolata*. *Pleurotoma striolata* Ris. – Scacchi, 1835b: 9; 1836a: 45; 1836b: 12; 1857: 13. **Remarks:** A misapplication of the taxon *Mangelia striolata* Risso, 1826 [= *Mangelia attenuata* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European coasts)] to the species *Bela costulata* (Risso, 1826), Mediterranean (see Philippi, 1844a: 168, pl. 26, fig. 7; Monterosato, 1877: 42; 1878: 105; 1884: 121). *Pleurotoma costulata* (Risso 1826, sensu de Blainville, 1829), erroneously regarded as a separate species by several authors, is actually the same taxon (see CLEMAM, 2003).
- versicolor*. *Conus ignobilis* var. *versicolor* Scacchi, 1836b: 9; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).
- versicolor*. *Pleurotoma versicolor* Scacchi, 1836b: 12, note 19, fig. 19; 1857: 13, note 19. **Type locality:** "In sinu Neapolitano et Tarentino haud frequens occurrit." (It uncommonly occurs in the Bay of Naples and in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). The vial housed at MCZR (M14/16785, Monterosato Collection) contains three specimens belonging to three distinct species, as pointed out by Monterosato himself in two labels: "Napoli, tipo di Scacchi. Contiene 3 specie diverse" (Naples, Scacchi's type. It contains 3 different species); "Tipo della P. versicolor di Scacchi avuto da A. Costa. Contiene tre sp. la Ph. bicolor, la contigua e la densa. I tubi appartenenti a questa specie portano nel tappo le lettere A.B.C." (Type of Scacchi's *P. versicolor* received from A.

Costa. It contains three species: *Ph. bicolor* [= *Raphitoma bicolor* (Risso, 1826)], *contigua* [= *R. contigua* Monterosato, 1884] and *densa* [= *R. densa* Monterosato, 1884]. The vials belonging to this species bring in the stopper the letters A.B.C.). **Remarks:** In view of the uncertain type, and in the absence of further evidence, we follow Philippi in regarding it as a junior synonym of *Raphitoma philberti* (Michaud, 1829), Mediterranean (see Philippi, 1844a: 165, as *Pleurotoma philberti*).

Family PYRAMIDELLIDAE

bulimus. *Melania bulimus* Scacchi, 1835b: 11, pl. 2, fig. 3; 1836a: 51-52, pl. 2, fig. 3. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** According to Jeffreys (1884: 349) it is a junior synonym of *Odostomia (Odostomia) plicata* (Montagu, 1803), Mediterranean, Black Sea, north-eastern Atlantic (European and north-western African coasts).

polita. *Rissoa polita* Scacchi, 1836b: 15, note 30, fig. 25; 1841a: 43; 1857: 15, note 30. **Type locality:** "In sinu Neapolitano et Tarentino rara." (Rare in the Bay of Naples and in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior secondary homonym of *Turbo politus* Linnaeus, 1758 [= *Melanella polita* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (European and north-western African coasts (Gastropoda: Eulimidae) (see Warén, 1988: 17-24) and *Ovatella polita* (Ant. Bivona, 1832) [= *Odostomia (Megastomia) conoidea* (Brocchi, 1814), Mediterranean, north-eastern Atlantic (European and north-western African coasts)]. *Rissoa polita* Scacchi, 1836 is a junior synonym of *Odostomia (Megastomia) conoidea* (Brocchi, 1814) (see Philippi, 1844a: 119).

- *scillae*. *Melania scillae* Scacchi, 1835b: 11, pl. 2, fig. 2; 1836a: 51, pl. 2, fig. 2. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A valid specific name currently included in the binomen *Eulimella scillae* (Scacchi, 1835), Mediterranean, north-eastern Atlantic (European and north-western African coasts).

turritella. *Rissoa turritella* Scacchi, 1836b: 15, note 29, fig. 24; 1857: 15, note 29, fig. 24. **Type locality:** "In sinu Tarentino rara." (Rare in the Gulf of Taranto) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Turbonilla lactea* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 136, as *Chemnitzia elegantissima*).

Family ACTEONIDAE

albo-bifasciata. *Tornatella fasciata* var. *albo-bifasciata* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albobifasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.

unicolor. *Tornatella fasciata* var. *unicolor* Scacchi, 1836b: 10; 1857: 10. **Remarks:** An unavailable name (*nomen nudum*).

Family VERTIGINIDAE

- *callicratis*. *Turbo callicratis* Scacchi, 1833: 11; *Pupa callicratis* Scacchi, 1836b: 16; 1857: 16. **Type locality:** Not giv-

en. **Type material:** Unknown. **Remarks:** A valid specific name currently included in the binomen *Truncatellina callicratis* (Scacchi, 1833), southern Europe, Turanian lowland.

Family PYRAMIDULIDAE

myrmecidis. *Turbo myrmecidis* Scacchi, 1833: 11; 1836b: 16; 1857: 17. **Type locality:** "Si trova su i massi calcari di Castellammare." (It lives on the calcareous stones in Castellammare [Castellammare di Stabia, Naples]) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** A junior synonym of *Pyramidula rupestris* (Draparnaud, 1801), Europe, Caucasus, Mediterranean region (see Scacchi, 1836b: 16; Philippi, 1844a: 107, as *Helix rupestris*).

Family CLAUSILIIDAE

lubrica. *Clausilia lubrica* Scacchi in Tiberi, 1872: 23. **Remarks:** An unavailable name (*nomen nudum*). According to Tiberi (1872: 23) it is a junior synonym of *Leucostigma candidescens* (Rossmässler, 1835), central-southern Italy.

pallens. *Clausilia pallens* Scacchi in Tiberi, 1872: 23. **Remarks:** An unavailable name (*nomen nudum*). According to Tiberi (1872: 23) it is a junior synonym of *Leucostigma candidescens* (Rossmässler, 1835).

platycephala. *Clausilia platycephala* Scacchi in Tiberi, 1872: 24, nota. **Remarks:** An unavailable name (*nomen nudum*). According to Tiberi (1872: 24, nota) it is a junior synonym of *Medora albescens* (Menke, 1830), Italian and Balkan Peninsulas (see Giusti et al., 1986: 262).

taburnensis. *Clausilia taburnensis* Scacchi in Tiberi, 1872: 23. **Remarks:** An unavailable name (*nomen nudum*). According to Tiberi (1872: 23) it is a junior synonym of *Leucostigma candidescens* (Rossmässler, 1835).

Family FERUSSACIIDAE

pusilla. *Helix pusilla* Scacchi, 1832: 4; 1833: 26; *Achatina pusilla* Scacchi, 1836b: 16; 1857: 16. **Type locality:** "Questi gli [sic] ho trovati sulla spiaggia del mare ove va a metter foce il Sebeto, dal quale credo che provengano." (I found these ones on the seashore at the mouth of the river Sebeto, from which I suspect they come [Naples]) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** A junior synonym of *Cecillioides acicula* (O.F. Müller, 1774), Europe, Caucasus, Mediterranean region (see Scacchi, 1836b: 16).

Family HYGROMIIDAE

fusco-fasciata. *Bulimus ventrosus* var. *fusco-fasciata* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *fuscofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.

fusco-fasciata. *Helix pyramidata* var. *fusco-fasciata* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *fuscofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.

maior. *Helix carthusiana* var. *maior* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

minor. *Helix carthusiana* var. *minor* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

picta. *Helix pyramidata* var. *picta* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

unicolor. *Bulimus ventrosus* var. *unicolor* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).
ventrosus. *Bulimus ventrosus* Drap. – Scacchi, 1836b: 16; 1857: 17. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Bulimus ventricosus* Draparnaud, 1801, and a junior synonym of *Cochlicella barbara* (Linnaeus, 1758), Mediterranean region.

Family HELICIDAE

fusco-fasciata. *Helix aspersa* var. *fusco-fasciata* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *fuscofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
fusco-fasciata. *Helix vermiculata* var. *fusco-fasciata* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *fuscofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
lutescens. *Helix aspersa* var. *lutescens* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).
pallens. *Helix vermiculata* var. *pallens* Scacchi, 1836b: 16; 1857: 17. **Remarks:** An unavailable name (*nomen nudum*).

Class BIVALVIA

Family SOLEMYIDAE

polianus. *Stephanopus polianus* Scacchi, 1833: 5. **Type locality:** Not given. **Type material:** Unknown. **Remarks:** A specific name introduced for the soft parts of *Tellina togata* Poli, 1791. A junior synonym of *Solemya togata* (Poli, 1791), Mediterranean, north-eastern Atlantic (European and western African coasts).

Family ARCIDAE

- *pectunculoides*. *Arca pectunculoides* Scacchi, 1835a: 82, pl. 1, fig. 12a, b; 1836a: 25-26, pl. 1, fig. 12a, b. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A valid specific name currently included in the binomen *Bathyarca pectunculoides* (Scacchi, 1835), Mediterranean, north-eastern Atlantic (European and north-western African coasts). A conserved specific name (ICZN, 1998: Op. 1887) on application by Salas & Gofas (1996: 173-177), who demonstrated that this taxon is not conspecific with *Bathyarca grenophia* (Risso, 1826).

Family MYTILIDAE

cavolini. *Mytilus cavolini* Scacchi, 1833: 7; 1835a: 84, pl. 1, fig. 13; 1836a: 32, pl. 1, fig. 13; *Modiola cavolini* Scacchi, 1836b: 4; 1857: 4. **Type locality:** "Pescata nella riviera di Chiaja." (Collected at Riviera di Chiaia [Naples]) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Modiolus (Gibbomodiola) adriaticus* (Lamarck, 1819), Mediterranean, Black Sea, north-eastern Atlantic (European and north-western African coasts) (see Monterosato, 1875: 10).
discolor. *Callitriche discolor* Scacchi, 1833: 7. **Type locality:** "Pescata nella riviera di Chiaja." (Collected at Riviera di Chiaia [Naples]) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** A junior synonym of *Modiolus (Gibbomodiola) adriaticus* (Lamarck, 1819) (see Monterosato, 1875: 10). A name introduced for the soft parts of *Mytilus cavolini*.

discors. *Modiola discors* Lin. – Scacchi, 1836b: 4; 1857: 4. **Remarks:** A misapplication of the taxon *Mytilus discors* (Linnaeus, 1767) [= *Musculus discors* (Linnaeus, 1767), Mediterranean, north-eastern Atlantic (European and African coasts), north-western Atlantic (American coasts), Arctic Ocean, northern Pacific] to the species *Musculus costulatus* (Risso, 1826), Mediterranean, north-eastern Atlantic (European and north-western African coasts).

flavescens. *Mytilus edulis* var. *flavescens* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
nigricans. *Mytilus edulis* var. *nigricans* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
 • *petagnae*. *Mytilus petagnae* Scacchi, 1832: 5; *Modiola petagnae* Scacchi, 1836b: 4; 1857: 4. **Type locality:** "Tro-vata sulle arene della riviera di Portici rare volte intera, e sempre vota." (Found on the sands of the shore of Portici [Naples], rarely entire, and always empty) (Scacchi, 1832). **Type material:** Lost (formerly at MZUN). **Remarks:** A valid specific name currently included in the binomen *Gregariella petagnae* (Scacchi, 1832), Mediterranean, north-eastern Atlantic (Iberian and west African coasts) (see Monterosato, 1875: 10, 1878: 66; Mienis, 1973: 19-20; Palazzi, 1982: 255, 257).

Family PECTINIDAE

aculeata. *Pecten inflexus* var. *aculeata* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
alba. *Pecten glaber* var. *alba* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
alba. *Pecten pusio* var. *alba* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
alba. *Pecten varius* var. *alba* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
glabra. *Pecten glaber* var. *glabra* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
glabra. *Pecten hyalinus* var. *glabra* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
glabra. *Pecten inflexus* var. *glabra* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
lutea. *Pecten glaber* var. *lutea* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
lutea. *Pecten pusio* var. *lutea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
lutea. *Pecten sanguineus* var. *lutea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
lutea. *Pecten varius* var. *lutea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
monstruosa. *Pecten jacobaeus* var. *monstruosa* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
rubra. *Pecten glaber* var. *rubra* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
rubra. *Pecten pusio* var. *rubra* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
rubra. *Pecten varius* var. *rubra* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
rubro-fusca. *Pecten varius* var. *rubro-fusca* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*), per cui è superfluo il suo emendamento in *rubrofusca* (ICZN, 1999: Art. 32.5.2.2).

- sanguinea*. *Pecten sanguineus* var. *sanguinea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- striata*. *Pecten glaber* var. *striata* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
- striata*. *Pecten hyalinus* var. *striata* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
- succinea*. *Pecten hyalinus* var. *succinea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- versicolor*. *Pecten glaber* var. *versicolor* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
- versicolor*. *Pecten hyalinus* var. *versicolor* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- versicolor*. *Pecten sanguineus* var. *versicolor* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- violacea*. *Pecten glaber* var. *violacea* Scacchi, 1836b: 3; 1857: 3. **Remarks:** An unavailable name (*nomen nudum*).
- violacea*. *Pecten pusio* var. *violacea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- violacea*. *Pecten sanguineus* var. *violacea* Scacchi, 1836b: 3; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).

Family ANOMIIDAE

- albo-margaritacea*. *Anomia caepa* var. *albo-margaritacea* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albomargaritacea* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- caepa*. *Anomia caepa* Lin. – Scacchi, 1836b: 4; 1857: 4. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Anomia cepa* Linnaeus, 1767, and a junior synonym of *Anomia ephippium* Linnaeus, 1758, Mediterranean, north-eastern Atlantic (European and north-western African coasts).
- ephipium*. *Anomia ephippium* Lin. – Scacchi, 1836b: 4; 1857: 4. **Remarks:** An incorrect subsequent spelling (ICZN, 1999: Art. 33.3) for *Anomia ephippium* Linnaeus, 1758, and a junior synonym of *Anomia ephippium* Linnaeus, 1758.
- lutea*. *Anomia caepa* var. *lutea* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- rubra*. *Anomia caepa* var. *rubra* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).
- sulcata*. *Anomia caepa* var. *sulcata* Scacchi, 1836b: 4; 1857: 4. **Remarks:** An unavailable name (*nomen nudum*).

Family LIMIDAE

- vulgaris*. *Lima vulgaris* Lk. – Scacchi, 1836b: 4; 1857: 4. **Remarks:** A misapplication of the taxon *Limaria vulgaris* Link, 1807 [= *Lima (Limaria) vulgaris* (Link, 1807), Indo-Pacific] to the species *Lima (Lima) lima* (Linnaeus, 1758), Mediterranean, north-eastern Atlantic (Portuguese and north-western African coasts), West Indies.

Family UNGULINIDAE

- trigona*. *Tellina trigona* Scacchi, 1835a: 78, pl. 1, fig. 4; 1836a: 14, pl. 1, fig. 4; *Lucina trigona* Scacchi, 1836b: 5; 1857: 6. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A valid specific name to be included in the binomen *Diplodonta trigona* (Scacchi, 1835), Mediterranean. Philippi (1844a: 24) regarded *Tellina trigona* Scacchi, 1835 as a junior synonym of *Diplodonta trigonula* Bronn, 1832,

indeed the juvenile of this species (see Monterosato, 1872a: 24). Actually, Bronn's taxon is a different Tertiary fossil species from Italy. Therefore, as recently pointed out by van Aartsen (2000: 47, 50) on the basis of our previously published data (Cretella et al., 1992), Scacchian name has priority over *Diplodonta apicalis* Philippi, 1836, and is to be adopted in its place. Prevailing usage of Philippi's name cannot be maintained because Scacchi's senior synonym was used as a valid name after 1899 (e.g. Lamy, 1921: 363-364) (ICZN, 1999: Art. 23.9.1).

Family GALEOMMATIDAE

- alba*. *Hirudinaria alba* Scacchi, 1833: 8-10. **Type locality:** "Pescata nel Golfo di Napoli." (Collected in the Bay of Naples) (Scacchi, 1833). **Type material:** Unknown. **Remarks:** A name introduced for the soft parts of *Parthenope formosa* Scacchi, 1833. A junior synonym of *Galeomma (Galeomma) turtoni* G.B. Sowerby I in Turton, 1825, Mediterranean, north-eastern Atlantic (European and west African coasts).
- formosa*. *Parthenope formosa* Scacchi, 1833: 8-10; 1836b: 4; 1857: 5. **Type locality:** "Pescata nel Golfo di Napoli." (Collected in the Bay of Naples) (Scacchi, 1833). **Type material (Fig. 1g):** Lectotype (here selected, having both valves, the left one being broken, L 6.5 mm, H 3.3 mm) MZUN 2212, "Napoli" (see Praus Franceschini, 1915: 19, note 4 "Tipo originale di Scacchi della *Parthenope formosa*"). **Remarks:** A junior synonym of *Galeomma (Galeomma) turtoni* G.B. Sowerby I in Turton, 1825 (see Philippi, 1844a: 18, as *Galeomma turtoni*; Monterosato, 1878: 67, as *G. turtoni*).
- poli*. *Hiatella poli* Costa – Scacchi, 1836b: 4; 1857: 5. **Remarks:** An unavailable name, published as a vernacular name by Costa (1828), and included by Scacchi in synonymy with *Galeomma turtoni* G.B. Sowerby I in Turton, 1825.

Family KELLIIDAE

- crenulata*. *Erycina crenulata* Scacchi, 1836b: 6, note 4; 1857: 6, note 4. **Type locality:** "Ad Pausilipi oram raro reperimus." (We rarely found it on the shore of Posillipo [Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Bornia sebetia* (O.G. Costa, 1829), Mediterranean, north-eastern Atlantic (Portuguese coasts) (see Philippi, 1844a: 11, as *Bornia corbuloides*).
- pisum*. *Erycina pisum* Scacchi, 1836b: 6, note 5, fig. 1-2; 1857: 6, note 5. **Type locality:** "Ad Pausilipi oram rara." (Rare on the shore of Posillipo [Naples]) (Scacchi, 1836b). **Type material (Fig. 1h):** Three syntypes (ICZN, 1999: Art. 73.2): a: having both valves, L 5.8 mm, H 5.2 mm (figured spm.); b: having both valves, L 3.7 mm, H 3.3 mm; c: only the right valve, broken, L 6.6 mm, H 6.0 mm; MZUN 2213, "Golfo di Napoli" (see Praus Franceschini, 1915: 18, note 3 "Tipo di Scacchi della *Erycina pisum*"). **Remarks:** A junior synonym of *Kellia suborbicularis* (Montagu, 1803), a cosmopolitan species (see Philippi, 1844a: 11, as *Bornia inflata*; Wood, 1851: 119; Jeffreys, 1864: 227).

Family LASAEIDAE

- elliptica*. *Tellina elliptica* Scacchi, 1833: 14; *Loripes? ellipticus* Scacchi, 1836b: 5; 1857: 5 [not *Tellina elliptica* Brocchi,

synonymized with *Macoma cumana* O.G. Costa, 1829]. **Type locality:** "Vive nel Golfo di Napoli." (It lives in the Bay of Naples) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior primary homonym of *Tellina elliptica* Brocchi, 1814 [= *Macoma elliptica* (Brocchi, 1814), a Pliocene fossil from Italy (Bivalvia: Tellinidae) (see Rossi Ronchetti, 1952: 83-85; Ferrero & Merlino, 1992: 130, 135; Sabelli et al. (1990) refer this fossil taxon to *Macoma cumana* (O.G. Costa, 1829), nevertheless without applying the Principle of Priority in favour of Brocchi's name, that is the earliest one)], *Tellina elliptica* Lamarck, 1818 [= *Tellina (Laciolina) magna* Spengler, 1798, north-western Atlantic (Caribbean) (Bivalvia: Tellinidae) (see Boss, 1966: 249; Palazzi, pers. comm. 08.06.1997)], and *Tellina elliptica* Brown, 1827 [= *Spisula elliptica* (Brown, 1827), north-eastern Atlantic (European coasts)]. *Tellina elliptica* Scacchi, 1833 is a senior synonym (invalid, by homonymy) of *Scacchia oblonga* (Philippi, 1836), Mediterranean (see Philippi, 1844a: 27, as *Scacchia elliptica*; Monterosato, 1872b: 20; van Aartsen et al., 1984: 62, n. 319; Sabelli et al., 1990: 305; van Aartsen & Giannuzzi-Savelli, 1991: 3).

violacea. *Erycina violacea* Scacchi, 1836b: 6, note 6, fig. 3-4; 1857: 7, note 6. **Type locality:** "Inter quisquillas littoris neapolitani infrequenter reperimus." (We uncommonly find it from beach-drift in the Neapolitan littoral) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Lasaea rubra* (Montagu, 1803), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 11, as *Bornia seminulum*; Jeffreys, 1864: 222).

Family CARDITIDAE

minuta. *Cardita minuta* Scacchi, 1836b: 4-5, note 1, fig. 5-6; 1841a: 41; 1857: 5, note 1. **Type locality:** "Ad Pausiliporam infrequenter reperimus." (We uncommonly find it on the shore of Posillipo [Naples]) (Scacchi, 1836b). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Pteromeris (Coripia) corbis* (Philippi, 1836), Mediterranean, north-eastern Atlantic (Portuguese coasts). As *Cardita minuta* Scacchi, 1836 and *C. corbis* Philippi, 1836 were published at the same time (both date from 31th December; ICZN, 1999: Art. 21.3), Principle of the First Reviser has to be applied (ICZN, 1999: Art. 24.2): if two synonyms were introduced on the same date, their relative precedence is determined by the first author who cited together such names, and chose one of them to have precedence over the other. In this case the first reviser was Philippi (1844a: 41) who, in synonymizing the Scacchian species with his own one, preferred the name *C. corbis*.

Family CARDIIDAE

bicolor. *Cerastes bicolor* Scacchi, 1833: 6. **Località tipo:** Not designated. **Materiale tipo:** Unknown. **Note:** A specific name introduced for the soft parts of *Cardium papillosum* Poli, 1791. A junior synonym of *Plagiocardium (Papillocardium) papillosum* (Poli, 1791), Mediterranean, Black Sea, north-eastern Atlantic (European and north-western African coasts).

semi-papillosa. *Cardium papillosum* var. *semi-papillosa* Scacchi, 1836b: 7; 1857: 8. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *semipapillosa* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.

subangulatum. *Cardium subangulatum* Scacchi, 1833: 16; 1836b: 7; 1841b: 65, note 6; 1857: 8. **Type locality:** "Vive nel Golfo di Napoli." (It lives in the Bay of Naples) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Parvicardium exiguum* (Gmelin, 1791), Mediterranean, Black Sea, north-eastern Atlantic (European coasts) (see Philippi, 1844a: 38, as *Cardium exiguum*).

Family TELLINIDAE

alba. *Tellina exigua* var. *alba* Scacchi, 1836b: 5; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*).

lutea. *Tellina exigua* var. *lutea* Scacchi, 1836b: 5; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*).

rubra. *Tellina exigua* var. *rubra* Scacchi, 1836b: 5; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*).

Family PSAMMOBIIDAE

coerulescens. *Psammobia gari* var. *coerulescens* Scacchi, 1836b: 5; 1857: 5. **Remarks:** An unavailable name (*nomen nudum*).

lutescens. *Psammobia gari* var. *lutescens* Scacchi, 1836b: 5; 1857: 5. **Remarks:** An unavailable name (*nomen nudum*).

Family SEMELIDAE

• *longicallus*. *Tellina longicallus* Scacchi, 1835a: 79, pl. 1, fig. 7; 1836a: 16, pl. 1, fig. 7. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1i):** Lectotype (here selected, only the left valve, L 22.4 mm, H 13.3 mm) MPUN M.17263, "Gravina, Pliocene inferiore." **Remarks:** A valid specific name currently included in the binomen *Abra (Syndosmya) longicallus* (Scacchi, 1835), Mediterranean, north-eastern Atlantic (European and north-western African coasts).

semidentata. *Tellina semidentata* Scacchi, 1833: 13; *Amphidema semidentata* Scacchi, 1835a: 79, pl. 1, fig. 6; 1836a: 15-16, pl. 1, fig. 6; 1836b: 5; 1841a: 36, 38; 1857: 6. **Type locality:** "Vive nel golfo di Napoli e di Taranto." (It lives in the Bay of Naples and in the Gulf of Taranto) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Abra alba* (W. Wood, 1802), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 8; Monterosato, 1884: 29).

Family SOLECURTIDAE

• *multistriatus*. *Solen multistriatus* Scacchi, 1835a: 76-77, pl. 1, fig. 1; 1836a: 8-9, pl. 1, fig. 1. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 11):** Two syntypes (ICZN, 1999: Art. 73.2): a: only the right valve, L 22.1 mm, H 10.6 mm (figured spm.); b: only the right valve, L 18.3 mm, H 8.5 mm; MPUN M.17260, "Gravina, Pliocene inferiore." **Remarks:** A valid specific name currently included in the binomen *Solecurtus multistriatus* (Scacchi, 1835), Mediterranean (see Philippi, 1844a: 6 "ex typo", as *Solecurtus multistriatus*; Mariottini et al., 1994: 35-40, who demonstrated the nomenclatural validity of the Scacchian taxon).

Family VENERIDAE

- alba*. *Venus virginea* var. *alba* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).
- albo-fasciata*. *Venus chione* var. *albo-fasciata* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- albo-sordida*. *Venus exoleta* var. *albo-sordida* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *albosordida* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- clandestina*. *Callista clandestina* Scacchi, 1833: 6. **Remarks:** An unavailable name (*nomen nudum*).
- cyrilli*. *Venus cyrilli* Scacchi, 1832: 4-5; 1835a: 80, pl. 1, fig. 8-11; 1836a: 20-21, pl. 1, figs. 8-11; 1836b: 7; 1841a: 42, 47; *Cytherea cyrilli* Scacchi, 1841b: 66, note d; 1857: 7. **Type locality:** "Pescata nella riviera di Chiaja." (Collected at Riviera di Chiaia [Naples]) (Scacchi, 1832). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Gouldia minima* (Montagu, 1803), Mediterranean, Black Sea, north-eastern Atlantic (European and west African coasts) (see Monterosato, 1872a: 38).
- fulva*. *Venus chione* var. *fulva* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).
- nigro-radiata*. *Venus chione* var. *nigro-radiata* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *nigroradiata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- nitens*. *Venus nitens* Scacchi & Philippi in Philippi, 1844a: 35-36, n. 13, pl. 14, fig. 14. **Type locality:** "Neapoli rara, specimina 8 cum ipse inveni, tum ab amicissimo Scacchi accepi." (Rare in Naples, not only I found 8 specimens myself, but also I received some by dear friend Scacchi) (Philippi, 1844a). **Type material:** Unknown. Not traced at ZMHB (Glaubrecht, pers. comm. 12.02.1999); presumably at MHNS, but Philippi's types housed there are unfortunately unavailable (Letelier, pers. comm. 01.05.1999). **Remarks:** A junior primary homonym of *Venus nitens* Turton, 1819 [= *Paphia aurea* (Gmelin, 1791), Mediterranean, Black Sea, north-eastern Atlantic (European coasts) (see Jeffreys, 1864: 351)], and a senior synonym (invalid, by homonymy) of *Paphia (Politapes) lucens* Locard, 1886 [a new replacement name (*nomen novum*)], Mediterranean (see Spada, 1978: 289-295).
- pallens*. *Venus chione* var. *pallens* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).
- purpureo-fasciata*. *Venus exoleta* var. *purpureo-fasciata* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *purpureofasciata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- purpureo-striata*. *Venus exoleta* var. *purpureo-striata* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*), so its emendation in *purpureostriata* (ICZN, 1999: Art. 32.5.2.2) is unnecessary.
- rosea*. *Venus chione* var. *rosea* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).
- variegata*. *Venus virginea* var. *variegata* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).
- versicolor*. *Venus cyrilli* var. *versicolor* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).

versicolor. *Venus geographica* var. *versicolor* Scacchi, 1836b: 7; 1857: 7. **Remarks:** An unavailable name (*nomen nudum*).

Family PETRICOLIDAE

- caduca*. *Tellina caduca* Scacchi, 1835a: 78, pl. 1, fig. 5; 1836a: 15, pl. 1, fig. 5; *Lucina caduca* Scacchi, 1836b: 5; 1857: 6. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1m):** Lectotype (here selected, having both valves, mostly an inner mould, L 19.7 mm, H 17.0 mm) MPUN M.17240, "Gravina, Pliocene inferiore." **Remarks:** A junior synonym of *Mysia undata* (Pennant, 1777), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 34-35, as *Venus undata*).

Family CORBULIDAE

- alba*. *Corbula gibba* var. *alba* Scacchi, 1836b: 6; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*).
- fulva*. *Corbula gibba* var. *fulva* Scacchi, 1836b: 6; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*).
- gibba*. *Corbula gibba* Olivi – Scacchi, 1836b: 6; 1857: 6. **Remarks:** A misapplication of the taxon *Tellina gibba* Olivi, 1792 [= *Corbula (Varicorbula) gibba* (Olivi, 1792), Mediterranean, Black Sea, north-eastern Atlantic (European and west African coasts) to the species *Lentidium mediterraneum* (O.G. Costa, 1839), Mediterranean, Black Sea, north-eastern Atlantic (Portuguese coasts).

Family GASTROCHAENIDAE

- cuneiformis*. *Gastrochaena cuneiformis* Speng. – Scacchi, 1836b: 5; 1857: 5. **Remarks:** A misapplication of the taxon *Gastrochaena cuneiformis* Spengler, 1783, Indo-Pacific, to the species *Gastrochaena dubia* (Pennant, 1777), Mediterranean, Black Sea, north-eastern Atlantic (European and west African coasts).

Family HIATELLIDAE

- aculeata*. *Rhomboides rugosus* var. *aculeata* Scacchi, 1836b: 5; 1857: 6. **Remarks:** An unavailable name (*nomen nudum*). According to Sabelli et al. (1990: 334) it is a junior synonym of *Hiatella arctica* (Linnaeus, 1767), Mediterranean, north-eastern Atlantic (European and west African coasts), circumpolar.

Family LYONSIIDAE

- coruscans*. *Tellina coruscans* Scacchi, 1833: 14-15; *Pandorina coruscans* Scacchi, 1836b: 6; 1857: 6. **Type locality:** "Trovata nel golfo di Napoli priva del mollusco." (Found in the Bay of Naples, lacking in soft parts) (Scacchi, 1833). **Type material:** Lost (formerly at MZUN). **Remarks:** A junior synonym of *Lyonsia norwegica* (Gmelin, 1791), Mediterranean, north-eastern Atlantic (European and north-western African coasts) (see Philippi, 1844a: 15; Monterosato, 1872a: 26).

Family CLAVAGELLIDAE

- *balanorum*. *Clavagella balanorum* Scacchi in Philippi, 1840: 181-184, pl. 3, figs. 1-6; Scacchi, 1841c: 152-161, pl. 1, fig. 5-6. **Type locality:** "Habitat in cespitibus Balanorum ad costam Pausilypi prope Neapolim." (It lives in barnacle

aggregates on the shore of Posillipo near Naples) (Philippi, 1840). **Type material:** Unknown. Not traced at ZMHB (Glaubrecht, *pers. comm.* 24.03.1999); presumably at MHNS, but unfortunately Philippi's types housed there are unavailable (Letelier, *pers. comm.* 01.05.1999). **Remarks:** A valid specific name currently included in the binomen *Clavagella (Clavagella) balanorum* Scacchi in Philippi, 1840, Mediterranean (see Philippi, 1844a: 1-2). This nominal taxon, traditionally dated from Scacchi (1841c), has proved to be available from Scacchi in Philippi (1840).

Family CUSPIDARIIDAE

- † *crispata*. *Anatina crispata* Scacchi, 1835a: 77, pl. 1, fig. 2a, b; 1836a: 10-11, pl. 1, fig. 2a, b. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material:** Lost (formerly at MPUN). **Remarks:** A valid specific name currently included in the binomen *Cuspidaria crispata* (Scacchi, 1835) (Tabanelli, *pers. comm.* 02.08.1998), a Pliocene-Pleistocene fossil from Italy and Sicily (see Glibert & Van de Poel, 1970: 137).

Class SCAPHOPODA

Family GADILIDAE

- *olivi*. *Dentalium olivi* Scacchi, 1835b: 12-13, pl. 2, fig. 6a, b; 1836a: 56-57, pl. 2, fig. 6a, b. **Type locality:** Gravina in Puglia [Bari], Contrada Albanello, clay. **Type material (Fig. 1n):** Lectotype (here selected, L 12.0 mm, D 1.6 mm) MPUN M.17256, "Gravina, Pliocene inferiore." **Remarks:** A valid specific name currently included in the binomen *Gadila olivi* (Scacchi, 1835), living in the north-eastern Atlantic (European and north-western African coasts), also known as an Upper Miocene-Pliocene fossil from Italy, Sicily, Morocco and Vienna Basin (see Philippi, 1844a: 208; Jeffreys, 1883: 666; Pilsbry & Sharp, 1898: 170; Locard, 1898: 133, tav. 7, figg. 8-15; Caprotti, 1979: 250; Nicklès, 1979: 68; CLEMAM, 2003).

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