



Catalogue of the type fossils stored in the Palaeontological Museum of “Sapienza” University of Rome: 3

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ABSTRACT - This paper is a third contribution towards a catalogue of all types stored in the Palaeontological Museum of “Sapienza” University of Rome.

Keywords: holotypes; syntypes; catalogue of types; Palaeontological Rome Museum; Michelotti.

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1. INTRODUCTION

After two first contributions (Manni, 2006; 2007) this is the third contribution towards an inventory of all the type fossils stored in the Palaeontological Museum of “Sapienza” University of Rome (MPUR). The types are all figured here with new photos. For each type the main data are given and subsequent designations are not reported.

2. COLLECTIONS

In this paper are considered the types pertain to the following Collection stored in MPUR: Michelotti, Ponzi, Tellini and Tuccimei. Among these Collection the more important is that of Michelotti because with several types. Giovanni Michelotti (1812-1898) was a lawyer but also collector of fossils. He collected fossils from several Paleogene and Neogene outcrops of North Italy and he established numerous new species, overall among corals and molluscs. He gave to Palaeontological Museum of Sapienza University of Rome his palaeontological collection on 1879. At that time his collection was constituted by over 20,000 fossil specimens. Unfortunately, during the second World War (1943, 19th July) a bomb hit a room of this Palaeontological Museum. Also the Michelotti Collection was damaged because several fossil specimens were destroyed.

Ponzi Collection is important overall from the historic point of view. Giuseppe Ponzi (1805-1885) was a naturalist and Italian political. He was professor of Zoology and Comparative Anatomy at Rome University; president of the Academy of the Lincei (1871-1874); senator of the Kingdom of Italy (1870-1885). Ponzi was also the first professor of Geology in Rome University and he founded, on 1873, the Geological Museum of “La Sapienza” University, from which comes the MPUR.

Tellini Collection is important because in it there are several types. Achille Tellini (1866-1938) was a geologist.

His collection stored in MPUR is constituted with numerous specimens of Italian Cenozoic forams (see Pignatti and Ventura, 1994).

3. THE CATALOGUE ORGANISATION

This catalogue is taxonomically organised: within each mayor grouping, the taxa are listed by alphabetic order.

For each type there are eight records:

Record 1 - genus and species name, followed by the name of author(s) and year of institution of the species;

Record 2 - inventory number of MPUR (Museo Paleontologia Università Roma). The inventory numbers are prefixed i. (invertebrate), ve. (vertebrate) and vg. (plant);

Record 3 - name of the collection;

Record 4 - kind of type: holotype or syntype or lectotype;

Record 5 - stratigraphic distribution;

Record 6 - geographic distribution (country, region, locality). For Italian localities the initials of the province name are put between brackets, after the type locality name;

Record 7 - original bibliographic reference, with the number of the illustration of the type specimen;

Record 8 - remarks.

3.1. The types

All the specimens utilized for describing a new species are named types. In particular the holotype is the specimen, chosen by the author, to represent a new species. The remaining specimens of that new species are identified as paratypes. The type nomenclature is regulated by the ICZN (International Code of Zoological Nomenclature, 1999).

If the holotype was not designed, all the specimens examined to describe a new species are syntypes. Among the syntypes, a later author may choose a lectotype. In this case the remaining syntypes are named paralectotypes.

SYSTEMATICS

Animalia

Invertebrata

BRACHIOPODA

Fig. 1. *Thecidea testudinaria* Michelotti, 1839

Syntype MPUR: i. 2168

bar = 5 mm

Thecidea testudinaria Michelotti, 1839 - Fig. 1
MPUR: i. 2168

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1839): pag. 124

Remarks: Michelotti described this new species without to figure specimens. In the paper of 1847, Michelotti figured this species. We are not able to find, in the Michelotti Collection, the specimens showed by Michelotti (1847, Pl. 2, Fig. 26) as *Thecidea testudinaria*.

Fig. 2. *Terebratula buchii* Michelotti, 1839

Syntype MPUR: i. 2158

bar = 10 mm

Terebratula buchii Michelotti, 1839 - Fig. 2
MPUR: i. 2158

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1839): pag. 123

Remarks: Michelotti described this new species as *Terebratula De Buchii*. without to figure specimens. In the paper of 1847 (pag. 77), Michelotti described and figured this species as *Terebratula buchii*. We are not able to find, in the Michelotti Collection, the specimens showed by Michelotti (1847, PL. 2, Fig. 25) as *Terebratula buchii*.

Fig. 3. *Terebratula miocenica* Michelotti, 1847

Syntype MPUR: i. 2228

bar = 10 mm

Terebratula miocenica Michelotti, 1847 - Fig. 3
MPUR: i. 2228

Coll. Michelotti
syntype

Neogene, Middle Miocene
Italy, Piedmont, Serravalle Scrivia (AL)
Michelotti (1847): pag. 76

Remarks: we are not able to find, in the Michelotti Collection, the specimen figured by Michelotti (1847, Pl. 16, Fig. 1) as *Terebratula miocenica*.



Fig. 4. *Terebratula voglinoi* Michelotti, 1861

Syntype MPUR: i. 1895

bar = 10 mm

Terebratula voglinoi Michelotti, 1861 - Fig. 4
MPUR: i. 1895

Coll. Michelotti
syntype

Neogene, Early Miocene
Italy, Liguria, Dego (SV)
Michelotti (1861): pag. 51

Remarks: we are not able to find, in the Michelotti Collection, the specimen figured by Michelotti (1861a, Pl. 4, Fig. 15-16) as *Terebratula voglinoi*.

Mollusca

BIVALVIA



Fig. 5. *Arca subcrenata* Michelotti, 1861

Holotype MPUR: i. 2108

bar = 10 mm

Arca subcrenata Michelotti, 1861 - Fig. 5
MPUR: i. 2108

Coll. Michelotti
holotype

Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1861): pag. 76, Pl. 8, Fig. 20.



Fig. 6. *Cardium fallax* Michelotti, 1861

Syntype MPUR: i.1877

bar = 10 mm

Cardium fallax Michelotti, 1861 - Fig. 6
MPUR: i.1877

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Liguria, Dego (SV)
Michelotti (1861): pag. 73, Pl. 8, Fig. 16.



Fig. 7. *Panopea gastaldii* Michelotti, 1861

Syntype MPUR: i. 1885

bar = 10 mm

Panopea gastaldii Michelotti, 1861 - Fig. 7
MPUR: i. 1885

Coll. Michelotti
syntype
Neogene, Early Miocene
Italy, Liguria, Dego (SV)
Michelotti (1861): pag. 54

Remarks: we are not able to find, in the Michelotti Collection, the specimen figured by Michelotti (1861a, Pl. 5, Fig. 10) as *Panopea gastaldii*.

GASTROPODA



Fig. 8. *Cleodora testudinaria* Michelotti, 1847

Syntype MPUR: i. 2348

bar = 5 mm

Cleodora testudinaria Michelotti, 1847 - Fig. 8
MPUR: i. 2348

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Torino (TO)
Michelotti (1847): pag. 148
Remarks: Michelotti (1847) described this species without to figure specimens.



Fig. 9. *Solarium humile* Michelotti, 1847

Holotype MPUR: i. 2140

bar = 10 mm

Solarium humile Michelotti, 1847 - Fig. 9
MPUR: i. 2140

Coll. Michelotti
holotype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1847): pag.170, Pl. 6, Fig. 7.



Fig. 11. *Turbo miocenicus* Michelotti, 1847

Syntype MPUR: i. 2144

bar = 10 mm

Turbo miocenicus Michelotti, 1847 - Fig. 11
MPUR: i. 2144

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1847): pag.176
Remarks: Michelotti (1847) described this species without
to figure specimens.

CEPHALOPODA



Fig. 10. *Trochus borsoni* Michelotti, 1847

Holotype MPUR: i. 2337

bar = 10 mm

Trochus borsoni Michelotti, 1847 - Fig. 10
MPUR: i. 2337

Coll. Michelotti
holotype
Neogene, Miocene
Italy, Piedmont, Stazzano (AL)
Michelotti (1847): pag. 182, Pl. 7, Fig. 5.



Fig. 12. *Brodiceras checchiae* Maxia, 1943

Holotype MPUR: i. 335

bar = 10 mm

Brodiceras checchiai Maxia, 1943 - Fig. 12
MPUR: i. 335

Coll. Ponzi
holotype
Jurassic, Toarcian
Italy, Latium, Montecelio (RM)
Maxia (1943): pag. 102, Pl. 2, Fig. 3, 3a.



Fig. 13. *Coeloceras gemma bonarellii* Maxia, 1943

Holotype MPUR: i. 336

bar = 10 mm

Coeloceras gemma bonarellii Maxia, 1943 - Fig. 13
MPUR: i. 336

Coll. Ponzi
holotype
Jurassic, Toarcian
Italy, Latium, Montecelio (RM)
Maxia (1943): pag. 115, Pl. 3, Fig. 6.

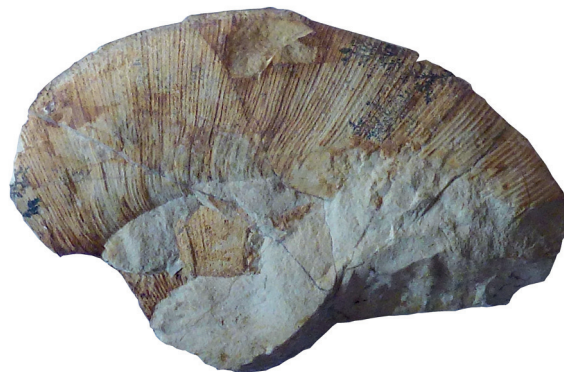


Fig. 14. *Lytoceras sabinum* Tuccimei, 1887

Holotype MPUR: i. 1750

bar = 10 mm

Lytoceras sabinum Tuccimei, 1887 - Fig. 14
MPUR: i. 1750

Coll. Tuccimei
holotype
Jurassic, "middle Lias"
Italy, Latium, road between Poggio Mirteto (RI) -
Roccantica (RI)
Tuccimei (1887): pag. 135, Pl. 1, Fig. 3.



Fig. 15. *Clymenia morrisi* Michelotti, 1847

Syntype MPUR: i. 2145

bar = 10 mm

Clymenia morrissi Michelotti, 1847 - Fig. 15
MPUR: i. 2145

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1847): pag. 349, Pl. 15, Fig. 5.



Fig. 16. *Nautilus decipiens* Michelotti, 1861

Holotype MPUR: i. 1893

bar = 10 mm

Nautilus decipiens Michelotti, 1861 - Fig. 16
MPUR: i. 1893

Coll. Michelotti
holotype
Neogene, Early Miocene
Italy, Liguria, Dego (SV)
Michelotti (1861): pag. 137, Pl. 13, Fig. 11.

Echinodermata

ECHINOIDEA



Fig. 17. *Cidaris gastaldii* Michelotti, 1861

Syntypes MPUR: i. 2626

bar = 10 mm

Cidaris gastaldii Michelotti, 1861 - Fig. 17
MPUR: i. 2626

Coll. Michelotti
syntypes
Neogene, Early Miocene
Italy, Liguria, Mornese (AL)
Michelotti (1861): pag. 26, Pl. 2, Fig. 3-4.



Fig. 18. *Cidaris sandbergeri* Michelotti, 1861

Holotype MPUR: i. 2254

bar = 10 mm

Cidaris sandbergeri Michelotti, 1861

Fig. 18

MPUR: i. 2254

Coll. Michelotti

holotype

Neogene, Early Miocene

Italy, Piedmont, Cassinelle (AL)

Michelotti (1861): pag. 25, Pl. 2, Fig. 1-2.



Fig. 19. *Clypeaster pentagonalis* Michelotti, 1861

Syntype MPUR: i. 1902

bar = 10 mm

Clypeaster pentagonalis Michelotti, 1861 - Fig. 19

MPUR: i. 1902

Coll. Michelotti

syntype

Neogene, Early Miocene

Italy, Liguria, Dego (SV)

Michelotti (1861): pag. 25, Pl. 2, Fig. 9-10

Remarks: we are not able to find, in the Michelotti Collection, the specimen figured by Michelotti (1861a, Pl. 2, Fig. 9-10) as *Clypeaster pentagonalis*.



Fig. 20. *Echinus parvus* Michelotti, 1847

Syntype MPUR: i. 2191

bar = 10 mm

Echinus parvus Michelotti, 1847 - Fig. 20

MPUR: i. 2191

Coll. Michelotti

syntype

Neogene, Miocene

Italy, Piedmont, Colli di Torino (TO)

Michelotti (1847): pag. 68

Remarks: we are not able to find, in the Michelotti Collection, the specimens figured by Michelotti (1847, Pl. 2, Fig. 19-20) as *Echinus parvus*.

CRINOIDEA



Fig. 21. *Runa desori* Michelotti 1861

Syntype MPUR: i. 2259

bar = 10 mm

Runa desori Michelotti 1861 - Fig. 21
MPUR: i. 2259

Coll. Michelotti
syntype

Neogene, Miocene

Italy, Piedmont, Gassino (TO)

Michelotti (1861 b): pag. 354

Remarks: we are not able to find, in the Michelotti Collection, the specimen figured by Michelotti (1861b, in Pl. 10. Fig. 2) as *Runa desori*.



Fig. 22. *Pentacrinus gastaldii* Michelotti, 1847

Syntypes MPUR: i. 2199

bar = 10 mm

Pentacrinus gastaldii Michelotti, 1847 - Fig. 22
MPUR: i. 2199

Coll. Michelotti
syntypes

Neogene, Middle Miocene

Italy, Piedmont, Colli di Torino (TO)

Michelotti (1847): pag. 59

Remarks: we are not able to find, in the Michelotti Collection, the specimens figured by Michelotti (1847, Pl. 16, Fig. 2) as *Pentacrinus gastaldii*.

Artropoda

CIRRIPEDIA



Fig. 23. *Balanus productus* Michelotti, 1847

Syntype MPUR: i. 1944

bar = 10 mm

Balanus productus Michelotti, 1847 - Fig. 23
MPUR: i. 1944

Coll. Michelotti
syntype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1847): pag. 73
Remarks: Michelotti (1847) did not figured this species.



Fig. 24. *Pyrgoma fratercula* Michelotti, 1847

Holotype MPUR: i. 1949

bar = 10 mm

Pyrgoma fratercula Michelotti, 1847 - Fig. 24
MPUR: i. 1949

Coll. Michelotti
holotype
Neogene, Miocene
Italy, Piedmont, Colli di Torino (TO)
Michelotti (1847): pag. 72, Pl. 3, Fig. 3
Remarks: the specimen figured by Michelotti (1847, Pl. 3, Fig. 3) as *Pyrgoma fratercula* is drawn as a mirror image.

Chordata

Vertebrata

PISCES



Fig. 25. *Carcharodon gibbesi* Michelotti, 1861

Holotype MPUR: ve. 4141

bar = 10 mm

Carcharodon gibbesi Michelotti, 1861. Fig. 25
MPUR: ve. 4141

Coll. Michelotti
holotype
Neogene, Early Miocene
Italy, Liguria, Mioglia (SV)
Michelotti (1861): pag. 143, Pl. 14, Fig. 5-7.



Fig. 26. *Diodon gigantodus* Portis, 1889

Holotype MPUR: ve. 4071

bar = 10 mm

Diodon gigantodus Portis, 1889 - Fig. 26
MPUR: ve. 4071

Coll. Tellini
holotype
Paleogene, Eocene, Bartonian
Italy, Latium, Castel Madama (RM)
Portis (1889): pag. 358, Pl. 10, Fig. 1-2.



Fig. 27. *Diodon platyodus* Portis, 1889

Holotype MPUR: ve. 4072

bar = 10 mm

Diodon platyodus Portis, 1889 - Fig. 27
MPUR: ve. 4072

Coll. Michelotti
holotype
Paleogene, Oligocene, Rupelian
Italy, Piedmont, S. Trinità (?)
Portis (1889): pag. 367, Pl. 10, Fig. 5-6.

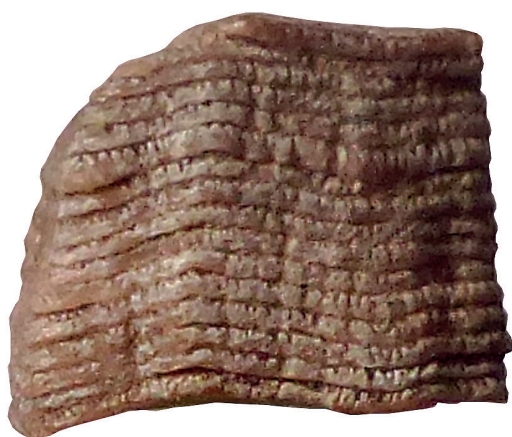


Fig. 28. *Diodon stenodus* Portis, 1889

Holotype MPUR: ve. 4074

bar = 10 mm

Diodon stenodus Portis, 1889 - Fig. 28

MPUR: ve. 4074

Coll. Michelotti
holotype
Neogene, Miocene, Langhian
Italy, Piedmont, Colli di Torino (TO)
Portis (1889): pag. 376, Pl. 10, Fig. 14-15

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