Catalogue of the primatological collection of the Torino University

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Abstract - The revised catalogue of primatological material stored in the Museo Regionale di Scienze Naturali of Torino and in the Dipartimento di Scienze della Vita e Biologia dei Sistemi of the Università degli Studi di Torino and belonging to the historical material of the Torino University is introduced. The material, 494 specimens belonging to 399 individuals of 122 taxa, is of particular importance since specimens were mainly obtained during the 19th and the beginning of the 20th Century. A relevant part of the collection was created by the collaborators of the Museum, among which it is worth to mention F. De Filippi, A. Borelli and E. Festa, while other material came from purchases and donations from private people or the Royal Zoological Garden of Torino. Great part of the specimens is stuffed but also the osteological materials are of particular importance, as many of them derived from the specimens before being prepared and consisting of skulls or more or less complete skeletons. After this revision, the Lectotype and Paralectotypes of Alouatta palliata aequatorialis have been selected, and the type-specimen of the brunnea variety of Cebus albifrons cuscinus has been recognized. In addition, some specimens of particular historical-scientific importance have also been identified and here presented for the first time.

Key words: mammalogy, collection, catalogue, primates, Torino.

INTRODUCTION

The primatological collections of the Museo di Zoologia of the Torino University (MZUT) started to grown at the beginning of the 19th Century with the first donations, including those of L. Rolando (1773-1831), the famous anatomist. A great impulse to the primatological collection of Torino has been under the direction of F.A. Bonelli (1784-1830) who obtained some specimens from the Museum de Histoire Naturelle in Paris and from internationally known dealers (Leadbeater, Frank, Bullock).

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Accepted for publication: 27 July 2016

DOI: 10.4081/nhs.2016.286
The most relevant specimens of the collections were added in the second half of the 19th Century after various scientific expeditions, among which it is worth to mention the material collected by Caffé (voyage of the Regina, 1839-1840) and by De Filippi during the world travel of the “H.M.S. Magenta” (1865-1868), and the specimens provided by Ghiliani, Borelli and Festa after their expeditions in South America. Some specimens also originated from other collectors not directly related to the Turino Museum like Carcano, Crivelli, D’Olivieri, Bovero (South America); Bertoldo, Michela, Bonarelli (South-East Asia); Gariazzo and Neri (Central Africa); Testa Fochi and Muzioli (North-East Africa).

Festa visited Panama and Ecuador in a four-year travel from 1895 to 1898 (Festa, 1909). During this expedition a huge amount of zoological specimens of various animal classes have been collected, some of them were later described as new species (e.g. Salvadori & Festa, 1899). Festa also published one paper on the primates collected during his expedition (Festa, 1903) in which he also described the new taxon Alouatta aequatorialis, recently considered as still valid (Bigatti et al., 2011), but currently considered as a subspecies of A. palliata (Mittermeier et al., 2013).

The primatological specimens collected by Borelli in Argentina, Paraguay, Brazil and Bolivia between 1893-1896 remained undocumented as those obtained from most other collectors. The collections of the MZUT were also increased with specimens from the Royal Zoological Gardens of Torino and Stupinigi (Maschetti et al., 1988) or from private donors, including famous traveling menageries (Bidel, Tournaire etc.) and animal dealers (such as Molinar).

Other specimens, with also some osteological remains, were added at the beginning of the 20th Century, mainly after the scientific expedition of the Duca degli Abruzzi in Uganda and the purchases of material from Ethiopia, Katanga and Kenya by the taxidermist Bajnotti. After the First World War and the death of L. Camerano (1856-1917) the primatological collections, as the other zoological ones, were object of minor interest, as the zoological studies no longer involved taxonomical aspects and the analysis of the collections. Biographic information on some of the major collectors and donors can be obtained from Andreone et al. (2007).

In 1936, when the Museo di Zoologia and Anatomia Comparata (MACUT) were moved from Palazzo Carignano to the Ospedale San Giovanni Antica Sede, the primate collections, as well as the other numerous twentieth-century zoological collections (around 700 exhibited specimens for the primates only), ended up scattered among different museums and university institutes. This is in fact the same period when the stuffed material were assigned to the Istituto di Zoolgia, whereas the osteological material and anatomy preparations were kept at the Istituto di Anatomia Comparata (Ardito & Bigatti, 2006). After the institution of the Museo Regionale di Scienze Naturali (MRSN) in 1978, with an agreement between Regione Piemonte and the Torino University, a large part of the primatological collection converged to the MRSN. The material was firstly revised by Crovella et al. (1990) but, notwithstanding the good will of the individuals, it is still waiting for a suitable arrangement, due to lack of funds and dedicated people. More recently, the primatological collections have been the subject of scientific papers on their history and some relevant topics (Crovella et al., 1990; Crovella & Passerin D’Entreves, 1990; Ardito & Bigatti, 2006; Bigatti et al., 2011; Lastella et al., 2012; Vuch et al., 2013; Giovanardi, 2014), as also were described in popular publications (e.g. Visalberghi & Valente, 1997).

Here we present the results of the reordering of the primatological collection of the Museo di Zoologia (MZUT) and Museo di Anatomia Comparata (MACUT) of the Torino University.

Further enquiries about this collection and about its specimens should be addressed to the curators of the Zoological Section of the MRSN (zoologia.mrsn@regione.piemonte.it).

**MATERIALS AND METHODS**

This catalogue largely follows the structure proposed by Gavetti & Andreone (1993). The most relevant variation from the already published catalogues of the MRSN material (Gavetti & Andreone, 1993; Andreone et al., 2007) is that all the University zoological collections now stored at the MRSN have been catalogued with the acronym MZUT, regardless of the former Museum, both MZUT and MACUT. The acronym MZUT is followed by T (Theriology) for all the mammal material and by a progressive unique number. The numbers were assigned ex-novo, as many different numberings were assigned to that material during the time. All the published numbers and the number reported in the manuscript catalogue (Catalogo Generale) were reported and, in particular, the former MACUT numbers were reported with the acronym. In the cases were we recognized the presence of different specimens belonging to the same individuals, we put them together under the same MZUT catalogue number. Tags with the new number and labels with number and species name were tied to each specimen.

We critically revised all the data also using the manuscript catalogues and the labels, we also verified most taxonomical determinations and updated the nomenclature. All the data were inputted in the database for all the mammals of the MZUT specifically elaborated for the MRSN by one of the authors (MP) and new labels were prepared for all the specimens. In addition we try to recognize all the specimens belonging to the same individual, in particular the osteological material derived from the specimens before being stuffed (e.g. skin and skeleton), that were labeled under the same catalogue number.

The structure of the catalogue is as follow. The first column of each specimen reports the acronym (MZUT = Museo di Zoologia dell’Università di Torino, T = Theriology) followed by the catalogue number. The second column reports the numbers formerly referred to the specimens; in particular, the numbers are from the old MZUT and MACUT manuscript Catalogues, and
the various attempts of cataloguing the Primate collections. The third column reports the geographic information, from the state, provinces, municipalities, and toponyms; in addition, when available, the reference date, the collector(s), the donor(s), and the age and sex are given. In absence of any geographical information, we indicate “w.d.” (without data). In the fourth column, we indicate the preserved specimens. The specimens are preserved as stuffed, mounted (Mount) or study skin (Skin), or complete or partial skulls and/or skeletons.

We did not taken into consideration in our work the liquid-preserved anatomical parts (e.g., organs) and the Homo remains. The specimens that were indeterminate in the catalogues and on the labels were left as they were or, whenever possible, attributed to the infraorder.

The nomenclature here adopted follows Groves (2005) and secondary Mittermeier et al. (2013).

The comments within the square brackets are Authors’ original notes.

RESULTS

The collection of MZUT actually comprises 494 specimens belonging to 399 individuals of 122 taxa. In particular, they are 184 stuffed specimens and 183 skulls and 127 more or less complete skeletons.

The values of the specimens can also be seen under a double point of view: expositive and scientific. Within the rich primatological collection housed in Turin some stuffed monkeys (e.g. Pan, Papio, Colobus and Microcebus) may play a considerable expositive role as also a few big skeletons, such as those of Gorilla and Papio. As an example, some mounted lemurs are now seen in the old-fashioned exhibit devoted to Madagascar as a part of the “historical museum of zoology” hall.

It is also worth to mention the Type-series of Alopattula palliata aequatorialis described by Festa (1903) and recently revised by Bigatti et al. (2011), among which we selected here the Lectotype MZUT T 33 (Fig. 1a-b) and the Paralectotypes (MZUT T 31, MZUT T 32, MZUT T 34) (Fig. 1d-f).

During the present work, the type-specimen of Cebus albifrons cuscinus var. brunnea Festa, 1903 was also identified (MZUT T 57, Fig. 2). This name escaped attention by primate taxonomists as Festa put it only in the final table of his paper (Festa, 1903: p. 8), but we recognized the importance of this specimen, on the light of future taxonomic revision of the Genus.

Another interesting finding of the present work regards the skin of a Sapajus flavius Schreber, 1774 donated in 1911 (MZUT T 76, Fig. 3). Actually this species has been revalidated and specimens finally examined only a decade ago (De Oliveira & Langguth, 2006) and thus the MZUT specimen has a particular historical significance as the first museum specimen so far recorded outside Brazil. Noteworthy is also the identification of a specimen (MZUT T 81) of Pithecia pissinatti (Fig. 4), a recently described species by Marsh (2014).

In the original catalogues and labels, the mounted specimen MZUT T 93 (Fig. 5) has been referred to Cercopithecus mitis boutourlinii Giglioli, 1887. This specimen is dated 1885, i.e. two years before the official description of that species. The detailed analysis of the specimen, also suggested by the fact that Giglioli did not mention the MZUT specimen in his papers (1887, 1888), revealed that MZUT T 93 has to be referred to Semnopithecus vetulus (Erxleben, 1777), a Colobine endemic to Sry Lanka, slightly similar to Cercopithecus mitis boutourlinii.

It is also worth mentioning the complete skeleton of an adult male of Gorilla gorilla (MZUT T 323, Fig. 6), for which it was possible to indirect dating its arrival in Torino in 1862 on the basis of the data reported in the oldest manuscript catalogue of the collection (Catalogo Antico). In fact, this catalogue is strictly in chronological order and the Gorilla gorilla skeleton is between two specimens of which the year 1862 is indicated as the data of acquisition. In addition, during his conference “L’uomo e le scimmie” held in Torino in 1864, F. de Filippi presented to the public a complete skeleton of an adult individual, which is most likely the specimen MZUT T 323.

The scientific importance of the Primatological collection of MZUT is also testified by the fact that part of the skeletal material is still kept in the Dipartimento di Scienze della Vita e Biologia dei Sistemi (former Istituto di Zoologia) of the Torino University and used for anatomical and paleontological studies (Mottura & Ardito, 1992; Gentili et al., 1998; Mottura & Gentili, 2006; Lastella et al., 2012; Vuch et al., 2013; Giovanardi, 2014). There is in the last two decades a revived interest in taxonomy, as it represent the basis for biodiversity conservation. Hopefully some of the specimens historically collected in South America may furnish additional information for groups in need of revisions, e.g. Cebus and Sapajus (Rylands et al., 2005). In fact, the historical significance of the primatological collection, especially those concerning South America, is relevant and should be better appreciated by visitors and researchers (Gippoliti, 2009).

We hope that the publication of this catalogue will generate a great interest on one of the most important Italian primatological collection, which has been neglected for too many years.

Acknowledgements

The authors wish to thank to E. De Biaggi, former director of the MRSN, and E. Gavetti, curator in chief of the Zoological section of the MRSN, for the opportunity to study the material housed in the Museo Regionale di Scienze Naturali di Torino. E. Gavetti and L. Ghirardi are also thanked for their invaluable help during the various phases of the work. We also would like to thank P. Passerin D’Entreves for the information about the Gorilla gorilla specimen. We would like to thank S. Boccardi, M. Favelli, M. Garzena, G. Tessa, for their help during the work. M. Calvini has been founded as a contractor of MRSN on this specific topic.
Fig. 1 - Type series of *Alouatta palliata aequatorialis*: a-b) Lectotype Male MZUT T 33, mount (a) and skull (b); c-d) Paralectotypes Female MZUT T 31, mount (c) and skull (d); e-f) Paralectotypes Male MZUT T 32, mount (e) and skull (f).
Fig. 2 - Type-specimen of the variety *brunnea* of *Cebus albifrons cuscinus* (MZUT T 57).

Fig. 3 - Skin of *Sapajus flavius* (MZUT T 76). This is the first specimen recorded in a European museum.

Fig. 4 - Mounted specimen of *Pithecia pissinatti* (MZUT T 81), species only recently described (Marsh, 2014).

Fig. 5 - Mounted specimen of *Semnopithecus vetulus* (MZUT T 93) collected in 1885, two years before the formal description of *Cercopithecus mitis boutourlinii*, the species to which this specimen was referred in the original catalogues and labels.

Fig. 6 - Complete skeleton of an adult male of *Gorilla gorilla* (MZUT T 323), the first to reach an Italian museum. This specimen arrived in Torino in 1862 and was most likely presented to the public by F. De Filippi in 1864.
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### Systematic Catalogue

Order **PRIMATES** Linnaeus, 1758  
Family **LEMURIDAE** Gray, 1821

**Genus *Eulemur*** Simons & Rumpler, 1988

**Eulemur albifrons** É. Geoffroy Saint-Hilaire, 1796

- MZUT T 3 (56, M3) w.d., 9 Nov 1827, Tournaire exc., dead in captivity 1 Mount
- MZUT T 20 (55, M2) MADAGASCAR, 1823, Dupont don. 1 Mount

**Eulemur fulvus** (É. Geoffroy Saint-Hilaire, 1796)

- MZUT T 9 (53, M3) MADAGASCAR, 1823, Dupont don. 1 Mount
- MZUT T 324 (MACUT 59) w.d., 1823, from Dupont. Adult 1 Skull

**Eulemur mongoz** (Linnaeus, 1766)

- MZUT T 11 (264, M7) w.d., 1839, Caffer exped. 1 Mount
- MZUT T 246 (MACUT 60) w.d. 1 Skull

**Eulemur rufus** (Audebert, 1799)

- MZUT T 4 (1733, M4) MADAGASCAR, 1901, dead in captivity 1 Mount

**Eulemur sanfordi** (Archbold, 1932)

- MZUT T 8 (318, M5) MADAGASCAR, 1863, Bonomi don. 1 Mount

**Eulemur sp.**

- MZUT T 375 (MACUT 5721, 5722) w.d., 1903, dead in captivity 1 Skull  
  1 partial Skeleton

**Genus *Lemur*** Linnaeus, 1758

**Lemur catta** Linnaeus, 1758

- MZUT T 7 (919, M1) MADAGASCAR, 1863, from Verreaux 1 Mount  
  1 Skull
- MZUT T 29 (MACUT 76) w.d., 3 Jul 1870 1 Mount
- MZUT T 379 (1860) (MACUT 6039) w.d., 1904, purchased 1 Skin  
  1 Skeleton
- MZUT T 335 (MACUT 3482) w.d., 1896, purchased from Crivelli 1 Skull

**Genus *Varecia*** Gray, 1863

**Varecia variegata** (Kerr, 1792)

- MZUT T 10 (1314) MADAGASCAR, 1890, Peracca don. 1 Mount

**Family LORISIDAE** (Gray, 1821)

**Genus Nycticebus** É. Geoffroy Saint-Hilaire, 1812

**Nycticebus bengalensis** (Lacépède, 1800)

- MZUT T 21 (1669, M12) MYANMAR, 1898, Bertoldo don. 1 Mount

**Nycticebus javanicus** É. Geoffroy Saint-Hilaire, 1812

- MZUT T 18 (57, M14) w.d., Sept 1830, Leadbeater don. 1 Mount
- MZUT T 19 (990, M13) INDONESIA, Giava, 1867, from De Filippi during M.H.S. Magenta exped. 1 Mount
Family **GALAGIDAE** (Gray, 1825)

Genus **Galago** É. Geoffroy Saint-Hilaire, 1796

*Galago senegalensis* É. Geoffroy Saint-Hilaire, 1796

- MZUT T 17 (58, M10) SENEGAL, Nov 1831, Bonomi don. 1 Mount
- MZUT T 1 (638, M11) SENEGAL, Jul 1841, purchased from Caffer 1 Mount

*Galago sp.*

- MZUT T 388 (MACUT 7008) SOMALIA, Bardera, Jun 1910, Testa Fochi don. 1 Skeleton
- MZUT T 389 (MACUT 7009) SOMALIA, Bardera, Testa Fochi don. 1 Skeleton

Genus **Otolemur** Coquerel, 1859

*Otolemur crassicaudatus* É. Geoffroy Saint-Hilaire, 1812

- MZUT T 2 (873, M9) AFRICA, 1857, De Filippi don. 1 Mount

Infraorder **PLATYRRHINI** É. Geoffroy Saint-Hilaire, 1812

Family **CEBIDAE** Gray, 1831

Genus **Callimico** Miranda-Ribeiro, 1912

*Callimico goeldii* (Thomas, 1904)

- MZUT T 349 (MACUT 4164) w.d. 1 Skeleton

Genus **Callithrix** Erxleben, 1777

*Callithrix jacchus* (Linnaeus, 1758)

- MZUT T 353 (MACUT 4267) w.d., Adult 1 Skeleton

*Callithrix sp.*

- MZUT T 220 (MACUT 5419, 5420) w.d., 1902 1 Skeleton
- MZUT T 306 w.d., 16 Sept 1829 1 partial Skull
- MZUT T 307 w.d., 12 Sept 1829 1 partial Skull
- MZUT T 395 (MACUT 7337) w.d., Dead in captivity 1 Skeleton
- MZUT T 397 (MACUT 7391) BRAZIL, 1915, Bay don., dead in captivity 1 Skeleton
- MZUT T 403 (MACUT 7731) BRAZIL, 1916, Bonero don. Juvenile 1 Skull

Genus **Mico** Lesson, 1840

*Mico melanurus* (É. Geoffroy Saint-Hilaire, 1812)

- MZUT T 238 (1707) BRAZIL, Mato Grosso, Urucum, 1902, Carcano don. 1 Skin
- MZUT T 238 (MACUT 5236) 1 Skull

Genus **Leontopithecus** Lesson, 1844

*Leontopithecus rosalia* (Linnaeus, 1766)

- MZUT T 22 (2521, M27) BRAZIL, 1902, Bocca don. 1 Mount
- MZUT T 23 (52, M28) w.d. 1 Mount
- MZUT T 326 (MACUT 63) w.d., 1883, from Bosi 1 Skull
- MZUT T 331 (MACUT 2088) w.d. 1 Skeleton
- MZUT T 394 (MACUT 7224) w.d., Dead in captivity. Juvenile 1 Skeleton
Genus *Saguinus* Hoffmannsegg, 1807

*Saguinus geoffroyi* (Pucheran, 1845)

- MZUT T 5 (506) Central and South America
  - 1896, purchased from Bajnotti
  - 1 Mount
  - (MACUT 3841)
- MZUT T 24 (1424, M29) PANAMA, Darien, Rio Cianati
  - 1895, Festa exped.
  - 1 Mount
  - (MACUT 3776)
- MZUT T 241 (MACUT 3775) PANAMA, Darien, Pita Lagoon, 1895, Festa don. Cited in Festa (1903)
  - 1 Skull

*Saguinus midas* (Linnaeus, 1758)

- MZUT T 25 (47, M30) South America, 1819, from Bullock
  - 1 Mount
- MZUT T 26 (48, M31) FRENCH GUIANA, Cajenna, 25 Jul 1823, from MNHN Paris
  - 1 Mount

*Saguinus niger* (É. Geoffroy Saint-Hilaire, 1803)

- MZUT T 28 (2761, M33) w.d., 27 May 1927, Molinar don., dead in captivity
  - 1 Mount

*Saguinus nigrigollis* (Spix, 1823)

- MZUT T 27 (817, M32) MEXICO, From Franck
  - [Locality probably wrong]. [Labeled as *S. ursula*]
  - 1 Mount

Genus *Cebus* Erxleben, 1777

*Cebus albifrons* (Humboldt, 1812)

- MZUT T 59 (1654, M64) ECUADOR, Rio Peripa forests, 1897, Festa exped.
  - 1 Mount
  - (MACUT 4690)
- MZUT T 60 (35, M65) South America, 1811, Borelli exped. Juvenile
  - 1 Mount
- MZUT T 66 (1653, M60) ECUADOR, Vinces, 1897, Festa exped. Juvenile
  - 1 Mount
- MZUT T 233 (MACUT 4687) ECUADOR, Vinces, 1897, Festa exped. Juvenile, Cited in Festa (1903)
  - 1 Skull
  - [Labeled as *Sapajus* sp.]
- MZUT T 383 (MACUT 6694) w.d., 1906, from Navaresio
  - 1 Skull

*Cebus albifrons cuscinus* (Thomas, 1901)

- MZUT T 57 (1655, M61) ECUADOR, Granadillas, Jul 1897, Festa exped., Cited in Festa (1903: p. 8) as “var. brunnea”
  - [Type-specimen of the variety]
- MZUT T 58 (1652, M62) ECUADOR, Vinces, Sept 1897, Festa exped.
  - 1 Mount
- MZUT T 63 (1498, M63) ECUADOR, Vinces, Sept 1897, Festa exped. Adult
  - 1 Mount
  - (MACUT 3976)

*Cebus capucinus* (Linnaeus, 1758)

- MZUT T 70 (1414, M74) PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Juvenile
  - 1 Mount
  - (MACUT 3750)
- MZUT T 71 (1433, M75) PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult
  - 1 Mount
  - (MACUT 3817)
- MZUT T 72 (1434, M76) PANAMA, Darien, Punta de Sabana, 1895, Festa exped. Adult
  - 1 Mount
  - (MACUT 3811)
- MZUT T 73 (1432, M77) PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult
  - 1 Mount
  - (MACUT 3816)
- MZUT T 74 (384, M78) w.d.
  - 1 Mount
- MZUT T 280 (MACUT 3781) PANAMA, Darien, Pita Lagoon, 1895, Festa exped.
  - 1 Skull
- MZUT T 296 (1384) PARAGUAY, Jul 1893, Borelli exped.
  - [Species probably wrong]
  - 1 Skin
  - (MACUT 3576)
- MZUT T 299 (MACUT 57) w.d.
  - 1 Skull
MZUT T 340 (MACUT 3625) PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult 1 Skull

MZUT T 355 (MACUT 4461) BRAZIL, Mato Grosso, Curumbà, 1899, Borelli exped. Adult [Species probably wrong] 1 Skull

*Cebus olivaceus* Schomburgk, 1848

MZUT T 75 (681, M79) Central and South America, Jan 1844, from Poisson, dead in captivity 1 Mount

Genus *Sapajus* (Kerr, 1792)

*Sapajus apella* (Linnaeus, 1758)

MZUT T 67 (667, M71) Central and South America, 1853, from D'Olivieri 1 Mount

MZUT T 68 (1709, M72) BRAZIL, Mato Grosso, Urucum, 1901, Carcano don. (MACUT 5122) [Probably *S. libidinosus*] 1 partial Skull

MZUT T 69 (1710, M73) BRAZIL, Mato Grosso, Urucum, 1901, Carcano don. (MACUT 5123) [Probably *S. libidinosus*] 1 Skull

MZUT T 165 (29, M70) Central and South America, 28 Jan 1829, Seyssel don. 1 Mount

*Sapajus apella fatuellus* (Linnaeus, 1766)

MZUT T 236 (MACUT 3459) w.d., 1896, purchased from Crivelli. Adult 1 Skull

MZUT T 247 (MACUT 58) w.d. 1 Skull

MZUT T 273 (MACUT 2344) PARAGUAY, 1896, purchased from Crivelli 1 Skull

MZUT T 334 (MACUT 3455) w.d., 1896, purchased from Crivelli. Adult 1 Skull

MZUT T 337 (MACUT 3538) w.d., 5 Jan 1829, Masserino don., dead in captivity. Adult 1 Skull

MZUT T 342 (MACUT 3747) ARGENTINA, 1895, purchased from Crivelli. Juvenile 1 Skeleton

*Sapajus flavius* (Schreber, 1774)

MZUT T 76 (2784, M80) ARGENTINA, 1911, Argentina Exhibition Comitee don. [Labeled as *Cebus* sp.] 1 Skin

Genus *Saimiri* Voigt, 1831

*Saimiri boliviensis* (I. Geoffroy Saint-Hilaire & Blainville, 1834)

MZUT T 82 (1488, M89) ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 7) as *S. sciureus* 1 Mount
**Saimiri sciureus** (Linnaeus, 1758)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 83 | Central and Southern America, 1853, D’Olivieri don. | 1 Mount | |
| MZUT T 84 | FRENCH GUIANA, Cajenna, 25 Jul 1823, from MNHN Paris | 1 Mount | |
| MZUT T 325 | w.d., 1853, D’Olivieri don. | 1 Skull | |

**Family AOTIDAE** Elliot, 1913

**Genus Aotus** Illiger, 1811

**Aotus azarae** (Humboldt, 1811)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 53 | PARAGUAY, Alto Paraguay, Fuerte, Olimpo, 1897, Festa don. | 1 Mount | |
| MZUT T 169 | BOLIVIA, 1890 | 1 Mount | |

**Aotus lemurinus** (I. Geoffroy Saint-Hilaire, 1843)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 52 | BRAZIL, 1857, purchased in Paris by De Filippi | 1 Mount | |

**Aotus trivirgatus** (Humboldt, 1811)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 6 | VENEZUELA, Orinoco, 1851, from Franck | 1 Mount | |

**Family PITHECIIDAE** Mivart, 1865

**Genus Callicebus** Thomas, 1903

**Callicebus cinerascens** (Spix, 1823)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 79 | CHILE, 1851, from Franck [locality probably wrong]. [Labeled as *C. donacophilus*] | 1 Mount | |

**Callicebus donacophilus** (d’Orbigny, 1836)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 78 | BOLIVIA, 1853, from D’Olivieri. Adult | 1 Mount | |

**Genus Cacajo** Lesson, 1840

**Cacajo calvus** (I. Geoffroy Saint-Hilaire, 1847)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 54 | BRAZIL, Rio Blanco, 1846, Ghigliani exped. | 1 Mount | |

**Genus Chiropotes** Lesson, 1840

**Chiropotes chiroptes** (Humboldt, 1811)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 167 | GUYANA | 1 Mount | |

**Genus Pithecia** Desmarest, 1804

**Pithecia monachus** (É. Geoffroy Saint-Hilaire, 1812)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 166 | SURINAME, Jan 1845, from Franck [Labeled as Guyana, locality probably wrong] | 1 Mount | |

**Pithecia pissinatti** Marsh, 2014

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 81 | BRAZIL, Rio Madeira, 1846, Ghigliani exped. [Labeled as *P. monachus*] | 1 Mount | |

**Family ATELIDAE** Gray, 1825

**Genus Alouatta** Lacépède, 1799

**Alouatta caraya** (Humboldt, 1812)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 30 | PARAGUAY, Ajos, Jul 1893, Borelli exped. | 1 Mount | |

**Genus Pithecia** Desmarest, 1804

**Pithecia monachus** (É. Geoffroy Saint-Hilaire, 1812)

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 166 | SURINAME, Jan 1845, from Franck [Labeled as Guyana, locality probably wrong] | 1 Mount | |

**Pithecia pissinatti** Marsh, 2014

| Specimen | Location/Details | Storage | Notes |
|----------|-----------------|---------|-------|
| MZUT T 81 | BRAZIL, Rio Madeira, 1846, Ghigliani exped. [Labeled as *P. monachus*] | 1 Mount | |
MZUT T 44 (1383, M52) (MACUT 3523) PARAGUAY, Rio Apa, Aug 1893, Borelli exped. 1 Mount
MZUT T 333 (MACUT 3452) w.d., 1896, purchased from Crivelli 1 Skull

_Aloatta guariba_ (Humboldt, 1812)
MZUT T 13 (634) BRAZIL Rio de Janeiro, Serra dos Órgãos. Sept 1839, Caffer in M.H.S. Regina exped. 1 Mount

_Aloatta palliata_ (Gray, 1849)
MZUT T 38 (1430, M44) (MACUT 3810) PANAMA, Darien, Rio Lara, 1895, Festa exped. 1 Mount
MZUT T 39 (294, M45) PANAMA, Darien, Rio Cianati forest, 6 Jun 1895, Festa exped., Cited in Festa (1903) [Labeled as _Aloatta_ sp.] 1 Mount
MZUT T 343 (1415) (MACUT 3751) PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult 1 Skin

_Aloatta palliata aequatorialis_ Festa, 1903
MZUT T 31 (1658, M36) (MACUT 4692) ECUADOR, Vinces, 1897, Festa exped. F. [Paralectotype here selected] 1 Mount
MZUT T 32 (1657, M37) (MACUT 4686) ECUADOR, Vinces, 1897, Festa exped. M. [Paralectotype here selected] 1 Mount
MZUT T 33 (1656, M38) (MACUT 4688) ECUADOR, Vinces, 1897, Festa exped. M. [Lectotype here selected] 1 Mount
MZUT T 34 (1659, M39) (MACUT 4693) ECUADOR, Vinces, 1897, Festa exped. Juvenile [Paralecto-type here selected] 1 Skull

_Aloatta senicuslus_ (Linnaeus, 1766)
MZUT T 36 (286, M41) (MACUT 55) BOLIVIA, 1853, from D’Olivieri. [Probably _A. sara_ Elliot, 1910] 1 Mount
MZUT T 37 (344, M42) BOLIVIA, 1853, from D’Olivieri. Immature [Probably _A. sara_ Elliot, 1910] 1 Mount
MZUT T 237 (MACUT 56) w.d., 1854. Adult 1 Skull
MZUT T 319 w.d., 1854. Adult 1 Skull

_Aloatta sp._
MZUT T 35 (26, M40) BRAZIL, 1822, Dupont don. [Labeled as _A. senicuslus arctoidea] 1 Mount
MZUT T 312 (MACUT 35) w.d., 1877, from Torino Zoological Garden, dead in captivity. Adult 1 Skull
MZUT T 320 (MACUT 51) w.d. 1 Skull
MZUT T 336 (MACUT 3497) w.d. 1 Skull

Genus _Ateles_ É. Geoffroy Saint-Hilaire, 1806

_Ateles belzebuth_ É. Geoffroy Saint-Hilaire, 1806)
MZUT T 40 (1319, M47) BRAZIL, 1890, S.A. Duca di Genova don. 1 Mount
MZUT T 41 (1487, M46) (MACUT 3958) ECUADOR, San José, May 1897, Festa exped. Immature 1 Mount
MZUT T 42 (1635, M48) ECUADOR, Rio Santiago Valley, Mar 1897, Festa exped. Adult 1 Mount
MZUT T 43 (1661, M49) (MACUT 4837) ECUADOR, Rio Santiago Valley, Mar 1897, Festa exped. Immature 1 Skull
MZUT T 239 (MACUT 3879) ECUADOR, Rio Santiago Valley, 1896, Festa exped. 1 Skull
MZUT T 346 (MACUT 3886) ECUADOR, Rio Santiago Valley, 1896, Festa exped. Adult, Cited in Festa (1903: p. 4) as _A. variegatus_, [Labeled as _Ateles_ sp.] 1 partial Skull
MZUT T 372  (MACUT 5526)  ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 4) as *A. variegatus*  
[Labeled as *Sapajus apella*]  
1 Skull

MZUT T 373  (MACUT 5527)  ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 4) as *A. variegatus*  
[Labeled as *Sapajus apella*]  
1 Skull

*Ateles fusciceps* Gray, 1866

MZUT T 46  (626, M54) (MACUT 3504)  PANAMA, Darien, Rio Lara, 1895, Festa exped. Adult, Cited in Festa (1903) as *A. ater*  
[Labeled as *Ateles* sp.]  
1 Mount 1 Skull

MZUT T 168  (836, M51)  w.d., Juvenile  
[Labeled as *Ateles* sp.]  
1 Mount

MZUT T 170  (955, M50)  COLOMBIA, Jan 1865, from Bonomi  
1 Mount

*Ateles geoffroyi* Kuhl, 1820

MZUT T 45  w.d., 1869, Torino Zoological Garden don., dead in captivity  
[Labeled as *Ateles* sp.]  
1 Mount

MZUT T 114  (28, M122)  w.d., Nov 1822, MNHN Paris don., dead in captivity  
1 Mount

Genus *Brachyteles* Spix, 1823

*Brachyteles arachnoides* É. Geoffroy Saint-Hilaire, 1806

MZUT T 55  (M58)  ARGENTINA, 1911, Argentina Exhibition Comitee don.  
1 Mount

MZUT T 305  (MACUT 37)  w.d., Adult  
1 partial Skull

MZUT T 321  (MACUT 52)  w.d., Adult  
1 Skull

Genus *Lagothrix* É. Geoffroy Saint-Hilaire, 1812

*Lagothrix lagotricha* (Humboldt, 1812)

MZUT T 89  (283, M85)  BRAZIL, 1866, M.H.S. Magenta exped.  
1 Mount

*Lagothrix poeppigii* Schinz, 1844

MZUT T 80  ECUADOR, Rio Santiago Valley, Festa exped., Cited in Festa (1903) as *L. infumata*  
[Labeled as *Lagothrix* sp.]  
1 Mount

MZUT T 258  (MACUT 4691)  ECUADOR, Rio Santiago Valley, Festa exped., Cited in Festa (1903: p. 4) as *L. infumata*  
[Labeled as Platyrhini indet.]  
1 Skull

PLATYRRHINI indet.

MZUT T 216  (MACUT 5395, 5396)  w.d., 1902  
1 Skeleton 1 Skull

MZUT T 240  (MACUT 3847)  1896, from Bajnotti. Juvenile  
1 Skull

MZUT T 248  (MACUT 54)  w.d.  
1 Skull

Infraorder *CATARRHINI* É. Geoffroy Saint-Hilaire, 1812

Family *CERCOPITHECIDAE* Gray, 1821

Genus *Cercocebus* É. Geoffroy Saint-Hilaire, 1812

*Cercocebus atys* (Audebert, 1797)

MZUT T 85  (1496, M92) (MACUT 4197)  ITALY, Piemonte, Torino, 1898, dead in captivity. ? don.  
1 Mount 1 Skeleton
| Accession | Locality | Date | Donor | Taxa |
|-----------|----------|------|-------|------|
| MZUT T 86 | (1338, M93) | w.d., 1892 | | 1 Mount |
| MZUT T 293 | (MACUT 2228) | w.d., 1896, purchased from Crivelli | | 1 Mount |
| Cercopithecus torquatus (Kerr, 1792) | MZUT T 87 | (2019, M94) | w.d., 1904, Bajnotti don., dead in captivity | 1 Mount |
| | (MACUT 6759) | | | 1 Skull |
| Cercopithecus sp. | MZUT T 399 | | DEM. REP. OF CONGO, 1916, Neri don. Adult | 1 Skull |
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| Genus Cercopithecus Linnaeus, 1758 |
| Cercopithecus ascanius katangae Lönnberg, 1919 | MZUT T 107 | (2210, M115) | DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti | 1 Mount |
| | MZUT T 108 | (2209, M116) | DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti | 1 Mount |
| | MZUT T 109 | (2208, M117) | DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti | 1 Mount |
| | | (MACUT 7079) | | 1 Skull |
| Cercopithecus ascanius schmidtii Matschie, 1892 | MZUT T 15 | (2004) | UGANDA, Ruwenzori, 1906, S.A.R. Duca degli Abruzzi expedition, Adult. M. Cited in Camerano (1909b) | 1 Mount |
| | | (MACUT 6804, 6803) | | 1 Skull |
| | | | | 1 partial Skeleton |
| Cercopithecus cephus (Linnaeus, 1758) | MZUT T 91 | (820, M97) | GUINEA, Mar 1847, from Franck | 1 Mount |
| | | | [Locality probably wrong or possibly the ex Spanish Guinea, now Equatorial Guinea] | |
| Cercopithecus diana (Linnaeus, 1758) | MZUT T 92 | (1326, M98) | w.d., 1890 | 1 Mount |
| Cercopithecus mitis albogularis (Sykes, 1831) | MZUT T 265 | (MACUT 39) | w.d., Oct 1824, Fonseca don. | 1 Skull |
| Cercopithecus mona (Schreber, 1774) | MZUT T 94 | (1201, M100) | ITALY, Piemonte, Torino, 23 Feb 1878, from Torino Zoological Garden, dead in captivity. Adult | 1 Mount |
| | | (MACUT 5369, 5370) | | 1 Skull |
| | | | | 1 Skeleton |
| | MZUT T 251 | (MACUT 34) | ITALY, Piemonte, Torino, 1877, Torino Zoological Garden don., dead in captivity | 1 Skull |
| Cercopithecus petaurista petaurista (Schreber, 1774) | MZUT T 95 | (1499, M102) | w.d., 1898, purchased from Ghisolfi | 1 Mount |
| | MZUT T 96 | (1422, M101) | w.d., 1895, Bertieri don. | 1 Mount |
| | | (MACUT 3824) | | 1 Skeleton |
| Cercopithecus sp. | MZUT T 112 | (1342, M120) | w.d., 1892 | 1 Mount |
| | MZUT T 113 | (302, M121) | w.d. Juvenile | 1 Mount |
| | MZUT T 195 | (MACUT 4763) | w.d. | 1 Skeleton |
| | MZUT T 197 | (MACUT 71) | w.d. | 1 Skeleton |
| | MZUT T 235 | (MACUT 3544) | w.d. | 1 Skull |
| | MZUT T 261 | (MACUT 32) | w.d. | 1 Skull |
| | MZUT T 267 | (MACUT 3458) | w.d., 1896, purchased from Crivelli | 1 Skull |
| | MZUT T 270 | (MACUT 3717) | w.d. | 1 Skull |
| Catalogue Number | MACUT Number | Notes | Specimen Type |
|------------------|--------------|-------|---------------|
| MZUT T 292       | MACUT 4520   | w.d.  | Skull         |
| MZUT T 300       | MACUT 3897   | DEM. REP. OF CONGO, 1897, Gariazzo don. | Partial Skull |
| MZUT T 313       | MACUT 40     | w.d. Adult | Partial Skull |
| MZUT T 365       | MACUT 5334, 5335, 5336, 5337, 5338, 5339, 5340 | w.d., 1902 Adult | Skull |
| MZUT T 400       | MACUT 7705   | DEM. REP. OF CONGO, 1916, Neri don. | Skull |

**Genus Chlorocebus** Gray, 1870

**Chlorocebus aethiops** (Linnaeus, 1758)

- MZUT T 88 (825, M95): ITALY, Piemonte, Nichelino, Stupinigi, 1 Jan 1848, dead in captivity | 1 Mount
- MZUT T 90 (9, M96) (MACUT 3785): AFRICA, 1819, S.A. R. Principe di Carignano don., dead in captivity | 1 Mount
- MZUT T 106 (1035, M113) (MACUT 38): ITALY, Piemonte, Torino, 16 Aug 1868, from Torino Zoological Garden, dead in captivity. Adult | 1 Mount, 1 Skull
- MZUT T 184 (MACUT 6083): w.d., 1904 | 1 Mount
- MZUT T 314 (MACUT 42): w.d. Adult | 1 Mount
- MZUT T 369 (MACUT 7388): w.d., 4 Jan 1915, dead in captivity. Juvenile | 1 Mount

**Chlorocebus cynosuros** (Scopoli, 1786)

- MZUT T 56 (6, M104): AFRICA, 11 Jan, Count Olivero di Roccabiglieria, don., dead in captivity | 1 Mount
- MZUT T 97 (8, M103): AFRICA, Aug 1831, dead in captivity | 1 Mount
- MZUT T 245 (MACUT 36): w.d. | 1 Mount

**Chlorocebus pygyethrus** (F. Cuvier, 1821)

- MZUT T 99 (1497, M105) (MACUT 4194): ITALY, Piemonte, Torino, 1898, dead in captivity | 1 Mount
- MZUT T 253 (MACUT 3920): BOTSWANA, 1897, Holub don. Juvenile | 1 Mount

**Chlorocebus sabaeus** (Linnaeus, 1766)

- MZUT T 102 (1103, M109): ITALY, Piemonte, Torino, 1874, from Torino Zoological Garden, dead in captivity | 1 Mount
- MZUT T 103 (2523, M110) (MACUT 7285): AFRICA, 1914, Bocca don., dead in captivity | 1 Mount
- MZUT T 104 (880, M111): ITALY, Piemonte, Torino, 1859, dead in captivity | 1 Mount
- MZUT T 105 (1077, M112): ITALY, Piemonte, Torino, 1871, from Torino Zoological Garden, dead in captivity | 1 Mount

**Chlorocebus sp.**

- MZUT T 111 (1013, M119): ITALY, Piemonte, Torino, 1868, from Torino Zoological Garden, dead in captivity [Labeled as Cercopithecus sp.] | 1 Mount

**Genus Erythrocebus** Trouessart, 1897

**Erythrocebus patas** (Schreber, 1775)

- MZUT T 98 (977, M106) (MACUT 3835): ITALY, Piemonte, Torino, From Torino Zoological Garden, dead in captivity. Cited in Camerano (1896) | 1 Mount
- MZUT T 100 (680, M107): ITALY, Piemonte, Torino, Jan 1844, from Poisson, dead in captivity | 1 Mount
**Genus Macaca** Lacépède, 1799

| Specimen | Catalogue Number | Country | Date | Locality | Description | Notes |
|----------|------------------|---------|------|----------|-------------|-------|
| MZUT T 144 | (1113, M156) | CHINA | 1867 | [Labeled as Macaca sp. M. H. S. Magenta exped.] | 1 Mount |
| Macaca fascicularis | (Raffles, 1821) | INDONESIA | 1829 | Sunda Archipelago, 5 Feb 1829, Masserino don., dead in captivity. Adult | 1 Mount |
| MZUT T 120 | (12, M137) | ITALY, Piemonte, Torino, 1874 | 5 Feb 1829, from Torino Zoological Garden, dead in captivity | 1 Mount |
| MZUT T 121 | (1101, M138) | w.d., 1890 | | | 1 Mount |
| MZUT T 200 | (MACUT 5225) | w.d., 1902, dead in captivity. Juvenile | | | 1 Skeleton |
| MZUT T 201 | (MACUT 5375, 5376) | w.d., 1902 | | | 1 Skull |
| MZUT T 262 | (MACUT 3356) | w.d. | | | 1 partial Skeleton |
| MZUT T 351 | (MACUT 4193) | ITALY, Piemonte, Torino, 5 Feb 1829, from Moperino, dead in captivity | | | 1 Skeleton |
| MZUT T 354 | (MACUT 4425) | w.d., 1900, dead in captivity. Adult | | | 1 Skeleton |
| MZUT T 364 | (MACUT 4722) | w.d. | | | 1 Skeleton |
| MZUT T 366 | (MACUT 5352) | w.d. | | | 1 Skeleton |
| MZUT T 367 | (MACUT 5371, 5372) | w.d., 1902. Adult | | | 1 Skull |
| MZUT T 368 | (MACUT 5373, 5374) | w.d. | | | 1 Skeleton |
| MZUT T 367 | (MACUT 5401, 5402) | w.d. | | | 1 Skeleton |

**Macaca mulatta** (E.A.W. Zimmermann, 1780)

| Specimen | Catalogue Number | Country | Date | Locality | Description | Notes |
|----------|------------------|---------|------|----------|-------------|-------|
| MZUT T 119 | (1320, M136) | w.d., 1890 | | | 1 Mount |
| MZUT T 352 | (MACUT 4216) | w.d., 1890 | | | 1 Skeleton |
| MZUT T 357 | (MACUT 4465, 4466) | w.d., dead in captivity | | | 1 Skeleton |
| MZUT T 358 | (MACUT 4486) | w.d., 1900, dead in captivity | | | 1 Skeleton |
| MZUT T 361 | (MACUT 4583) | w.d. | | | 1 Skeleton |
| MZUT T 362 | (MACUT 4584) | w.d. | | | 1 Skeleton |
| MZUT T 404 | (MACUT 7788) | ITALY, Piemonte, Chivasso, 1916, dead in captivity | | | 1 Skull |

**Macaca nemestrina** (Linnaeus, 1766)

| Specimen | Catalogue Number | Country | Date | Locality | Description | Notes |
|----------|------------------|---------|------|----------|-------------|-------|
| MZUT T 124 | (1202, M142) | ITALY, Piemonte, Turin, 14 Feb 1878, from Turin Zoological Garden, dead in captivity | | | 1 Mount |
| MZUT T 125 | (1251, M143) | INDONESIA, Sunda Archipelago, 12 Dec 1879, from Turin Zoological Garden, dead in captivity | | | 1 Mount |
| MZUT T 126 | (819, M144) | INDONESIA, Java, Nov 1847, from Guillaume Compagnia Equestre, dead in captivity | | | 1 Mount |
| MZUT T 127 | (1323, M146) | w.d., 1890 | | | 1 Mount |
| MZUT T 132 | (1213, M154) | ITALY, Piemonte, Torino, 1878, from Torino Zoological Garden, dead in captivity | | [Labeled as Macaca sp.] | 1 Mount |
| MZUT T 192 | (MACUT 4095) | w.d., 1899 | | | 1 Skeleton |
| MZUT T 205 | (MACUT 65) | w.d. | | | 1 Skeleton |
| MZUT T 207 | (MACUT 67) | w.d. | | | 1 Skeleton |
| MZUT T 208 | (69) | w.d., from Menagerie Bidel, dead in captivity | 1 partial Skeleton |
| MZUT T 277 | (MACUT 3783) | w.d., 1896 | 1 Skull |
| MZUT T 285 | (MACUT 3558) | w.d. | 1 Skull |
| MZUT T 286 | (MACUT 4184) | w.d., from Festa | 1 Skull |
| MZUT T 315 | (MACUT 43) | w.d., 1877 | 1 Skull |
| MZUT T 322 | (MACUT 69) | NETHERLANDS, Amsterdam, Jan 1845, dead in captivity. Juvenile | 1 Skeleton |
| MZUT T 330 | (MACUT 1803) | w.d. Juvenile | 1 Skeleton |
| MZUT T 356 | (MACUT 4463) | w.d., dead in captivity | 1 Skeleton |
| MZUT T 360 | (MACUT 4566) | w.d., dead in captivity | 1 Skeleton |
| MZUT T 363 | (MACUT 4585) | w.d. | 1 Skeleton |
| MZUT T 378 | (MACUT 5937) | w.d. | 1 Skeleton |

**Macaca nigra** (Desmarest, 1822)

| MZUT T 115 | (2020, M123) | (MACUT 6762) | w.d., 1907, dead in captivity | 1 Mount |
| MZUT T 118 | (7, M126) | w.d., 1825, Tournaire don., dead in captivity | 1 Mount |

**Macaca ochreata** (Ogilby, 1841)

| MZUT T 380 | (1974, M141) | (MACUT 6234) | w.d., dead in captivity | 1 Skin, 1 Skeleton |

**Macaca silenus** (Linnaeus, 1758)

| MZUT T 128 | (13, M148) | (MACUT 4585) | w.d. | 1 Skeleton |

**Macaca sinica** (Linnaeus, 1771)

| MZUT T 101 | (1325, M108) | w.d., 1890 | [Labeled as Cercopithecus sp.] | 1 Mount |
| MZUT T 102 | (1326, M109) | w.d., 1890 | 1 Mount |
| MZUT T 128 | (1329, M148) | w.d., 1890 | 1 Mount |

**Macaca sylvanus** (Linnaeus, 1758)

| MZUT T 130 | (18, M151) | w.d., 1827, Rolando don. Juvenile | 1 Mount |
| MZUT T 131 | (16, M152) | w.d., 29 Jan 1829, Bandissero don. Immature | 1 Mount |
| MZUT T 154 | (R1, N2) | w.d. | 1 Mount |
| MZUT T 264 | (MACUT 41) | w.d. | 1 Skeleton |
| MZUT T 328 | (MACUT 72) | w.d., 29 Jan 1829, Bandissero don. Adult | 1 Skeleton |
| MZUT T 329 | (MACUT 73) | w.d., 1827, Rolando don. Juvenile | 1 Skeleton |
| MZUT T 374 | (MACUT 5642, 5643) | w.d., 1903, purchase from heir of Cav. Cantù. Juvenile | 1 Skull |
| MZUT T 393 | (MACUT 7121) | w.d., 1911, Bocca don., dead in captivity | 1 Skeleton |
### Macaca sp.

| Specimen | Catalog | Location/Date | Details |
|----------|---------|---------------|---------|
| MZUT T 110 | (1107, M118) | ITALY, Piemonte, Torino, 1874, from Torino Zoological Garden, dead in captivity | 1 Mount |
| MZUT T 181 | (MACUT 5353) | w.d., 1902 | 1 Skeleton |
| MZUT T 182 | (MACUT 7296) | w.d., 28 Mar 1914, from Baii | 1 Skeleton |
| MZUT T 198 | (MACUT 7919) | w.d. | 1 Skeleton |
| MZUT T 213 | (MACUT 5417, 5418) | w.d., 1902 | 1 Skull |
| MZUT T 215 | (MACUT 5389, 5390) | w.d., 1902 | 1 Skull |
| MZUT T 217 | (MACUT 5399, 5400) | w.d., 1902 | 1 Skull |
| MZUT T 278 | (MACUT 3784) | w.d., 1896 | 1 Skull |
| MZUT T 283 | (MACUT 48) | ITALY, Piemonte, Bra, dead in captivity | 1 Skull |
| MZUT T 301 | (2675) | MYANMAR, 1898, Bertoldo don. | Skin |
| MZUT T 341 | (MACUT 3719) | w.d. | 1 Skeleton |

### Genus Mandrillus Ritgen, 1824

**Mandrillus leucophaeus** (F. Cuvier, 1807)

| Specimen | Catalog | Details |
|----------|---------|---------|
| MZUT T 332 | (MACUT 3385) | w.d., Purchased from Crivelli. Juvenile | 1 Skull |

### Mandrillus sphinx (Linnaeus, 1758)

| Specimen | Catalog | Location/Date | Details |
|----------|---------|---------------|---------|
| MZUT T 143 | | w.d. Adult, M | 1 Mount |
| MZUT T 145 | (1339, M159) | w.d., 1892, Juvenile | 1 Mount |
| MZUT T 179 | (MACUT 70) | w.d., 1892, dead in captivity | 1 partial Skeleton |
| MZUT T 344 | (MACUT 3782) | w.d., 1896 | 1 Skull |

### Genus Miopithecus I. Geoffroy Saint-Hilaire, 1862

**Miopithecus talapoin** (Schreber, 1774)

| Specimen | Catalog | Details |
|----------|---------|---------|
| MZUT T 289 | (MACUT 33) | w.d. | 1 Skull |

### Genus Papio Erxleben, 1777

**Papio anubis** (Lesson, 1827)

| Specimen | Catalog | Location/Date | Details |
|----------|---------|---------------|---------|
| MZUT T 162 | (1099, M161) | ITALY, Piemonte, Torino, 10 Mar 1874, from Torino Zoological Garden, dead in captivity. Adult, M | 1 Mount |

**Papio hamadryas** (Linnaeus, 1758)

| Specimen | Catalog | Location/Date | Details |
|----------|---------|---------------|---------|
| MZUT T 140 | (1327, M165) | w.d., 1890. Juvenile | 1 Mount |
| MZUT T 141 | (M166) | ITALY, Piemonte, Torino, 1893, dead in captivity. Juvenile | 1 Mount |
| MZUT T 142 | (1207, M164) | ITALY, Piemonte, Torino, 1878, from Torino Zoological Garden, dead in captivity | 1 Mount |
| MZUT T 163 | (1526, M162) | w.d., 1898, dead in captivity. Adult, M | 1 Mount |
| MZUT T 194 | (MACUT 7930, 7932) | w.d., 1898, dead in captivity. Adult | 1 partial Skull |

Genus *Papio* (Desmarest, 1820)

- **Papio papio** (Desmarest, 1820)
  - MZUT T 304 (2691), ERITREA, Ghinda, 1899, Rossi don. M.  
  - [Labeled as *Papio sp.*]  
  - 1 Skin  
  - 1 partial Skull
- MZUT T 348 (MACUT 3947), w.d., 1897, Cap. Muzioli from Perugia Museum don.  
  - [Labeled as *Papio sp.*]  
  - 1 Skull
- MZUT T 359 (MACUT 4564), ERITREA, Massaua, Sagneiiti, 1899, from Gentile. Adult  
  - 1 partial Skull
- MZUT T 48 (23, M166), ITALY, Piemonte, Torino, 16 Feb 1829, Masserino don., dead in captivity  
  - 1 Mount
- MZUT T 234 (MACUT 3541), w.d.  
  - 1 Skull
- MZUT T 183 (MACUT 4094), w.d., 1899  
  - 1 Skeleton
- MZUT T 266 (MACUT 3560), w.d.  
  - 1 Skull
- MZUT T 290 (MACUT 3547), w.d., 1896, purchased from Crivelli  
  - 1 Skull
- MZUT T 316 (MACUT 45), w.d. Adult  
  - 1 Skull
- MZUT T 317 (MACUT 46), w.d. Adult  
  - [Possibly *P. hamadryas*]  
  - 1 Skull
- MZUT T 318 (MACUT 47), w.d.  
  - [Possibly *Theropithecus gelada*]  
  - 1 Skull

Genus *Theropithecus* (I. Geoffroy Saint-Hilaire, 1841)

- **Theropithecus gelada** (Rüppell, 1835)
  - MZUT T 16 (1992) (MACUT 6191), w.d., 1906, purchased from Bajnotti, dead in captivity  
  - 1 Mount
  - 1 Skeleton

Genus *Colobus* Illiger, 1811

- **Colobus angolensis** P. Selater, 1860
  - MZUT T 137 (2205, M132) (MACUT 7077), DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti. Adult  
  - 1 Mount
  - 1 Skull
- MZUT T 392 (MACUT 7078), DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti. Adult  
  - 1 Mount
  - 1 Skull

- **Colobus guereza** Rüppell, 1835
  - MZUT T 222 (MACUT 6986), KENYA, 1909. Adult  
  - 1 partial Skeleton

- **Colobus guereza caudatus** Thomas, 1885
  - MZUT T 14 (783) (MACUT 1804), ETHIOPIA, 1846, purchased from d’Hericourt  
  - 1 Mount
  - 1 Skull
- MZUT T 47 (2730, M131) (MACUT 7302), ETHIOPIA, Addis Abeba, 1916, from Bajnotti  
  - [Labeled as *Colobus sp.*]  
  - 1 Mount
  - 1 Skull
- MZUT T 136 (2014, M130), w.d., 1906, Sella don, purchased at Djibouti. Cited in Camerano (1909a).  
  - 1 Mount
- MZUT T 139 (2015, M190), ETHIOPIA, Addis Abeba, 1907, from Bajnotti  
  - 1 Mount
**Colobus guereza occidentalis** Rochebrune, 1887

- MZUT T 185 (MACUT 6807) UGANDA, Ruwenzori, Toro forest, Aug 1906, S.A.R. Duca degli Abruzzi exped. Cited by Camerano (1909a) 1 Skeleton
- MZUT T 275 (MACUT 6805) UGANDA, Entebbe, 1907, from Schulter. Juvenile. Cited in Camerano (1909a) 1 Skull
- MZUT T 384 (MACUT 6806) UGANDA, Entebbe, 1907, from Schulter. Cited in Camerano (1909a) 1 Skull

**Colobus polykomos** (Zimmermann, 1780)

- MZUT T 385 (MACUT 6809) LIBERIA, 1907, Buttikofer exped. Adult. Cited in Camerano (1909a) 1 Skeleton

**Colobus vellerosus** (I. Geoffroy Saint-Hilaire, 1834)

- MZUT T 138 (243, M143) GHANA, 1851, from Franck. Adult. Cited in Camerano (1909a) 1 Mount

**Colobus sp.**

- MZUT T 156 (314, M135) w.d., 1878 1 Mount
- MZUT T 249 (MACUT 7706) DEM. REP. OF CONGO, 1916, Neri don. 1 Skull
- MZUT T 260 (MACUT 7707) DEM. REP. OF CONGO, Neri don. 1 Skull
- MZUT T 271 (MACUT 7708) DEM. REP. OF CONGO, 1916, Neri don. 1 Skull
- MZUT T 272 (MACUT 7710) DEM. REP. OF CONGO, 1916, Neri don. 1 Skull
- MZUT T 338 (MACUT 3540) w.d. Adult 1 Skull

**Genus Nasalis** (É. Geoffroy Saint-Hilaire, 1812)

**Nasalis larvatus** (van Wurmb, 1787)

- MZUT T 155 (781) (MACUT 53) INDONESIA, Sumatra, Jan 1845, from Franck don. [Locality probably wrong] 1 Mount
- MZUT T 155 (781) (MACUT 53) INDONESIA, Sumatra, Jan 1845, from Franck don. [Locality probably wrong] 1 Skull

**Genus Piliocolobus** Rochebrune, 1877

**Piliocolobus badius** (Kerr, 1792)

- MZUT T 386 (MACUT 6810) LIBERIA, 1907, purchased from Schultz, ex Buttikofer exped. Cited in Camerano (1909a) 1 Skeleton

**Genus Presbytis** Eschscholtz, 1821

**Presbytis femoralis** (Martin, 1838)

- MZUT T 151 (386, M175) INDONESIA, Borneo, 1853, Bonomi exped. [Locality probably wrong] 1 Mount

**Presbytis melalophos** (Raffles, 1821)

- MZUT T 150 (834, M176) INDONESIA, Sumatra, 1846, from Franck. 1 Mount

**Genus Pygathrix** (É. Geoffroy Saint-Hilaire, 1812)

**Pygathrix nemaeus** (Linnaeus, 1771)

- MZUT T 146 (1292, M169) w.d., 1882, Michela don. M 1 Mount
- MZUT T 147 (1291, M170) w.d., 1882, Michela don. M 1 Mount

**Genus Semnopithecus** Desmarest, 1822

**Semnopithecus ajax** (Pocock, 1928)

- MZUT T 311 (MACUT 29) w.d. 1 partial Skull
| **Semnopithecus entellus** (Dufresne, 1797) | **Semnopithecus vetulus** (Erxleben, 1777) |
|------------------------------------------|------------------------------------------|
| MZUT T 149 (1216, M173) w.d., 1878, Polar don. | MZUT T 93 (1301, M99) w.d., 1885 |
| [Labeled as *Semnopithecus* sp.] | |

| **Semnopithecus sp.** | **Semnopithecus sp.** |
|----------------------|----------------------|
| MZUT T 153 (1105, M178) ITALY, Piemonte, Torino, 10 Mar 1874, from Torino Zoological Garden, dead in captivity | MZUT T 371 (MACUT 5411, 5412) w.d., 1902, Juvenile |
| [Labeled as *Presbytis* sp.] | |

| **Genus Trachypithecus** Reichenbach, 1862 | **Trachypithecus cristatus** (Raffles, 1821) |
|------------------------------------------|------------------------------------------|
| MZUT T 148 (821, M172) INDONESIA, Java, Apr 1846, from Franck | MZUT T 152 (1711, M177) (MACUT 5124) MYANMAR, Thao, 10 Mar 1888, Fea exped. Adult |
| [Locality probably wrong] | 1 Mount |

| **Trachypithecus obscurus** (Reid, 1837) | **Cercopithecidae indet.** |
|------------------------------------------|------------------|
| MZUT T 158 (742, M179) INDONESIA, Borneo, Feb 1846, from Franck | MZUT T 382 (MACUT 6335) INDONESIA, Sumatra, 1905, Silva don. |
| 1 Mount | 1 Skull |

| **Family HYLOBATIDAE** (Gray, 1871) | **Genus Hylobates Illiger, 1811** |
|-----------------------------------|----------------------------------|
| **Hylobates agilis** (F. Cuvier, 1821) | **Hylobates alibarbis** (Lyon, 1911) |
| MZUT T 49 (2, M180) INDONESIA, Sumatra, Nov 1831, Bonomi don. Immature | MZUT T 158 (742, M179) INDONESIA, Borneo, Feb 1846, from Franck |
| 1 Mount | 1 Mount |

| **Hylobates lar** (Linnaeus, 1771) | **Hylobates moloch** (Audebert, 1798) |
|---------------------------------|---------------------------------|
| MZUT T 159 (777) INDIA, Shirangapattana, Apr 1846, from Franck | MZUT T 50 (1412, M182) (MACUT 30, 3746) ITALY, Piemonte, Torino, From Torino Zoological Garden, dead in captivity in 1886. Adult |
| 1 Mount | 1 Mount |

| **Hylobates moloch** | **Genus Symphalangus** (Gloger, 1841) |
|---------------------|-------------------------------------|
| MZUT T 50 (1412, M182) (MACUT 30, 3746) | **Symphalangus syndactylus** (Raffles, 1821) |
| ITALY, Piemonte, Torino, From Torino Zoological Garden,(dead in captivity in 1886. Adult) | MZUT T 172 (1, M183) INDONESIA, Sumatra, 1824, from MNHN Paris |
| 1 Mount | 1 Mount |

| **CATARRHINI indet.** | |
|-------------------|-------------------|
| MZUT T 186 (MACUT 5343) w.d., 1902 | MZUT T 191 (MACUT 4170, 4710) w.d. |
| 1 Skeleton | 1 Skeleton |

| MZUT T 196 (MACUT 5342) w.d., 1902 | |
|--------------------------------|-------------------|
| 1 Skeleton | 1 Skeleton |
| Specimen | MACUT Number | Status | Description |
|----------|--------------|--------|-------------|
| MZUT T 199 | (MACUT 4248) | w.d. | 1 Skeleton |
| MZUT T 201 | (MACUT 5341) | w.d., 1902 | 1 Skeleton |
| MZUT T 202 | (MACUT 4764) | w.d., Juvenile | 1 partial Skeleton |
| MZUT T 203 | (MACUT 4565) | w.d., dead in captivity | 1 Skeleton |
| MZUT T 204 | (MACUT 4247) | w.d. | 1 Skeleton |
| MZUT T 206 | (MACUT 3555) | w.d. Juvenile | 1 Skeleton |
| MZUT T 209 | | | 1 Skeleton |
| MZUT T 212 | (MACUT 5413, 5414) | w.d., 1902 | 1 Skull |
| MZUT T 218 | (MACUT 5407, 5408) | w.d., 1902 | 1 Skeleton |
| MZUT T 219 | (MACUT 5403, 5404) | w.d., 1902. Immature | 1 Skeleton |
| MZUT T 223 | (MACUT 5169, 5421, 5422) | w.d., 1902 | 1 partial Skeleton |
| MZUT T 229 | (MACUT 5377, 5378) | w.d., 1902. Immature | 1 Skeleton |
| MZUT T 231 | (MACUT 5381, 5382) | w.d., 1902. Immature | 1 Skeleton |
| MZUT T 232 | (MACUT 5415, 5416) | w.d., 1902. Immature | 1 Skeleton |
| MZUT T 243 | (23a, 1088), | w.d. | 1 Skull |
| MZUT T 244 | (MACUT 5363) | w.d., 1902 | 1 Skull |
| MZUT T 250 | (MACUT 4978) | ITALY, Piemonte, Torino, 1900, dead in captivity | 1 Skull |
| MZUT T 254 | (MACUT 4528) | w.d. Immature | 1 Skull |
| MZUT T 255 | (MACUT 4526) | w.d. | 1 Skull |
| MZUT T 256 | (MACUT 7709) | DEM. REP. OF CONGO, 1916, Neri don. | 1 Skull |
| MZUT T 263 | (MACUT 4525) | w.d. | 1 Skull |
| MZUT T 281 | (MACUT 3848) | w.d., 1896, from Bajnotti. Immature | 1 Skull |
| MZUT T 282 | (MACUT 3556) | w.d. Immature | 1 Skull |
| MZUT T 287 | (MACUT 3554) | (10087) | w.d. | 1 Skull |
| MZUT T 288 | (MACUT 4529) | w.d. | 1 Skull |
| MZUT T 294 | (MACUT 4522) | w.d. | 1 Skull |
| MZUT T 308 | | w.d. | 1 Skeleton |
| MZUT T 309 | | w.d. | 1 Skeleton |
| MZUT T 339 | (MACUT 3557) | w.d. | 1 Skull |

Family **Hominidae** Gray, 1825

Genus **Gorilla** (I. Geoffroy Saint-Hilaire, 1852)

**Gorilla gorilla** (Savage, 1847)

| Specimen | MACUT Number | Status | Description |
|----------|--------------|--------|-------------|
| MZUT T 323 | (MACUT 6) | w.d., 1862. Adult, M | 1 Skeleton |
| MZUT T 347 | (MACUT 3895) | CONGO, Sangha River, 1897, Gariazzo don. Adult, F | 1 partial Skull |

Genus **Pan** Oken, 1816

**Pan troglodytes** (Blaumenbach, 1775)

| Specimen | MACUT Number | Status | Description |
|----------|--------------|--------|-------------|
| MZUT T 51 | | w.d. | 1 Mount |
Genus *Pongo* Lacépède, 1799

[Two different species actually recognised (Mittermeier *et al.*, 2013). We do not attempt classification of these specimens that originated from captive individuals of unknown origin. All the specimens are labeled as *Pongo pygmaeus*]

**Pongo** sp.

| Specimen | (MACUT) | Date | Description |
|----------|---------|------|-------------|
| MZUT T 173 | (M189) | w.d. | 1 Mount |
| MZUT T 175 | (M188) | w.d. | 1 Mount |
| MZUT T 180 | (MACUT 4) | w.d. Juvenile | 1 Skeleton |
| MZUT T 188 | (MACUT 3839) | w.d., 1896. Juvenile | 1 partial Skeleton |
| MZUT T 189 | (MACUT 3853) | w.d., 1896. Juvenile | 1 partial Skeleton |
| MZUT T 190 | (MACUT 3840) | w.d., 1896. Juvenile | 1 partial Skeleton |
| MZUT T 193 | (MACUT 3851) | w.d., 1896. Juvenile | 1 Skeleton |
| MZUT T 257 | (MACUT 3833) | w.d., 1896, from Festa. | 1 partial Skeleton |
| MZUT T 301 | (MACUT 5) | w.d., 8 Jul 1829, from Carini. Juvenile | 1 Skeleton |
| MZUT T 390 | (MACUT 7019) | INDONESIA, Borneo, 1910, from Bonarelli, dead in captivity. Immature | 1 Skeleton |

**PRIMATES indet.**

| Specimen | (MACUT) | Date | Description |
|----------|---------|------|-------------|
| MZUT T 210 | (MACUT 5379, 5380) | w.d., 1902. Adult | 1 Skull |
| MZUT T 214 | (MACUT 5387, 5388) | w.d., 1902 | 1 Skull |
| MZUT T 221 | (MACUT 5385, 5386) | w.d., 1902 | 1 Skull |
| MZUT T 224 | (MACUT 5409, 5410) | w.d., 1902. Juvenile | 1 Skull |
| MZUT T 225 | (MACUT 5391) | w.d., 1902 | 1 partial Skeleton |
| MZUT T 226 | (MACUT 5392, 5394) | w.d., 1902. Juvenile | 1 Skeleton |
| MZUT T 227 | (MACUT 5393) | w.d., 1902 | 1 Skull |
| MZUT T 228 | (MACUT 5397, 5398) | w.d., 1902. Juvenile | 1 Skeleton |
| MZUT T 230 | (MACUT 5406) | w.d., 1902. Adult | 1 Skull |
| MZUT T 242 | (MACUT 3561) | w.d. Juvenile | 1 Skeleton |
| MZUT T 252 | w.d. | 6 isolated Teeth |
| MZUT T 268 | w.d. Juvenile | 1 Skeleton |
| MZUT T 269 (MACUT 4524) | w.d. Juvenile | 1 Skull |
| MZUT T 274 (MACUT 4527) | w.d. Juvenile | 1 partial Skull |
| MZUT T 284 | w.d. Juvenile | 1 Skeleton |
| MZUT T 291 (MACUT 4521) | w.d. Juvenile | 1 Skull |
| MZUT T 295 (MACUT 5327) | w.d., 1902. Juvenile | 1 Skull |
| MZUT T 297 (MACUT 3566) | w.d. Juvenile | 1 Skull |
| MZUT T 298 (MACUT 4523) | w.d. Juvenile | 1 Skull |
| MZUT T 302 (MACUT 3562) | w.d. Juvenile | 1 Skull |
| MZUT T 303 (MACUT 3559) | w.d. Juvenile | 1 Skull |
| MZUT T 369 (MACUT 5383, 5384) | w.d., 1902 | 1 Skeleton |