

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 Century 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.

Riassunto - Catalogo delle Collezioni di Primati dell'Università di Torino.

Viene presentato il catalogo della collezione di Primati presenti al Museo Regionale di Scienze Naturali di Torino e al Dipartimento di Scienze della Vita e Biologia dei Sistemi dell'Università degli Studi di Torino provenienti dalle colle-

zioni storiche dell'Università di Torino. Il materiale, costituito da 494 campioni appartenenti a 399 individui di 122 taxa, risulta particolarmente importante da un punto di vista sia storico che scientifico, in quanto comprende esemplari raccolti tra il Secolo XIX e il Secolo XX in molte aree geografiche. Una considerevole parte dei materiali proviene dalle raccolte degli zoologi del Museo di Torino F. De Filippi, A. Borelli e E. Festa, mentre molti reperti provengono da acquisti o donazioni e dal Giardino Zoologico Reale di Torino. Gli esemplari presenti sono principalmente tassidermizzati, anche se non va trascurata la parte osteologica costituita da crani e scheletri montati, in alcuni casi appartenenti allo stesso esemplare di cui è conservata la pelle tassidermizzata. Per tutti gli esemplari è stata fatta una verifica dei cataloghi manoscritti e dei cartellini originali controllando le determinazioni e aggiornando la nomenclatura. Gli esemplari sono stati catalogati con una nuova numerazione composta dall'acronimo MZUT (Museo di Zoologia dell'Università degli Studi di Torino) seguito dalla lettera T (Teriologia) e da un numero progressivo univoco. I dati presenti, insieme a tutte le numerazioni usate in precedenza, sono stati inseriti in un database di nuova creazione unico per tutte le collezioni MZUT e ogni esemplare è stato munito di un nuovo cartellino. Particolare attenzione è stata rivolta al riconoscimento di diversi campioni, come reperti osteologici ottenuti prima della tassidermizzazione, derivanti da un singolo esemplare e che sono stati riuniti sotto lo stesso numero di catalogo. Questa revisione ha permesso di designare il Lectotipo e i Paralectotipi di *Alouatta palliata aequatorialis* e l'esemplare-tipo della varietà *brunnea* di *Cebus albifrons cuscinus*. Vengono inoltre presentati alcuni esemplari di particolare interesse storico-scientifico, tra cui il primo esemplare noto per un museo europeo di *Sapajus flavius* e uno scheletro completo di *Gorilla gorilla* maschio arrivato a Torino nel 1862 e presentato al pubblico da F. De Filippi nel corso della sua conferenza del 1864 "L'uomo e le scimie".

Parole chiave: teriologia, collezioni, catalogo, primati, 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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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 Caffer (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 Torino 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. Cemerano (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 Zoologia, 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 re-

vised 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 where 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 Torino 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 *Alo-uatta 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 scimie” 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 (Gipoliti, 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.

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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 cuscius* (MZUT T 57).



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. 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. 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, 1758Family **LEMURIDAE** Gray, 1821Genus ***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 macaco (Linnaeus, 1766)

MZUT T 11 (264, M7) w.d., 1839, Caffer exped. 1 Mount

MZUT T 246 (MACUT 60) w.d. 1 Skull

Eulemur mongoz (Linnaeus, 1766)MZUT T 12 (54, M8) MADAGASCAR, 1823, purchased from Leadbeater 1 Mount
(MACUT 66) 1 partial Skeleton***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, w.d., 1903, dead in captivity 1 Skull
5722) 1 partial SkeletonGenus ***Lemur*** Linnaeus, 1758***Lemur catta*** Linnaeus, 1758MZUT T 7 (919, M1) MADAGASCAR, 1863, from Verreaux 1 Mount
(MACUT 76) 1 Skull

MZUT T 29 w.d., 3 Jul 1870 1 Mount

MZUT T 379 (1860) w.d., 1904, purchased 1 Skin
(MACUT 6039) 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. 1 Mount
Magenta exped.

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
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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
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Genus **Callithrix** Erxleben, 1777**Callithrix jacchus** (Linnaeus, 1758)

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

MZUT T 220	(MACUT 5419, 5420)	w.d., 1902	1 Skeleton 1 Skull
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) (MACUT 5236)	BRAZIL, Mato Grosso, Urucum, 1902, Carcano don.	1 Skin 1 Skull
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Genus **Leontopithecus** Lesson, 1844**Leontopithecus rosalia** (Linnaeus, 1766)

MZUT T 22	(2521, M27) (MACUT 2043)	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	1 Mount
	(MACUT 3841)	1896, purchased from Bajnotti	1 Skull
MZUT T 24	(1424, M29)	PANAMA, Darien, Rio Cianati	1 Mount
	(MACUT 3776)	1895, Festa exped.	1 Skull
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
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Saguinus nigricollis (Spix, 1823)

MZUT T 27	(817, M32)	MEXICO, From Franck [Locality probably wrong]. [Labeled as <i>S. ursula</i>]	1 Mount
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Genus *Cebus* Erxleben, 1777*Cebus albifrons* (Humboldt, 1812)

MZUT T 59	(1654, M64)	ECUADOR, Rio Peripa forests, 1897, Festa exped.	1 Mount
	(MACUT 4690)		1 Skull
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) [Labeled as <i>Sapajus</i> sp.]	1 Skull
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. <i>brunnea</i> ” [Type-specimen of the variety]	1 Mount
MZUT T 58	(1652, M62)	ECUADOR, Vinces, Sept 1897, Festa exped.	1 Mount
	(MACUT 4689)		
MZUT T 63	(1498, M63)	ECUADOR, Vinces, Sept 1897, Festa exped. Adult	1 Mount
	(MACUT 3976)		1 Skull

Cebus capucinus (Linnaeus, 1758)

MZUT T 70	(1414, M74)	PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Juvenile	1 Mount
	(MACUT 3750)		1 Skull
MZUT T 71	(1433, M75)	PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult	1 Mount
	(MACUT 3817)		1 Skull
MZUT T 72	(1434, M76)	PANAMA, Darien, Punta de Sabana, 1895, Festa exped. Adult	1 Mount
	(MACUT 3811)		1 partial skeleton
MZUT T 73	(1432, M77)	PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult	1 Mount
	(MACUT 3816)		1 Skull
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.	1 Skin
	(MACUT 3576)	[Species probably wrong]	1 Skull
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
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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) (MACUT 5122)	BRAZIL, Mato Grosso, Urucum, 1901, Carcano don. [Probably <i>S. libidinosus</i>]	1 Mount 1 partial Skull
MZUT T 69	(1710, M73) (MACUT 5123)	BRAZIL, Mato Grosso, Urucum, 1901, Carcano don. [Probably <i>S. libidinosus</i>]	1 Mount 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 <i>Cebus</i> sp.]	1 Skin
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Sapajus nigrinus (Goldfuss, 1809)

MZUT T 64	(637, M66)	BRAZIL, Rio de Janeiro, Serra dos Órgãos, Sept 1839, Caffer in M.H.S. Regina exped. Immature	1 Mount
MZUT T 65	(33, M67)	w.d., Oct 1826, Bonafous don., dead in captivity	1 Mount

Sapajus robustus (Kuhl, 1820)

MZUT T 62	(232, M69)	SURINAME, 1845, from Franck [Labeled from Guyana, locality probably wrong]	1 Mount
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***Sapajus* sp.**

MZUT T 61	(1317, M68)	ECUADOR, 1890 [Labeled as <i>S. nigrinus</i>]	1 Mount
MZUT T 77	(1037, M81)	w.d., 1869, Torino Zoological Garden don.	1 Mount
MZUT T 259	(MACUT 7721)	BRAZIL, 1916, Bovero don. Adult	1 Skull
MZUT T 276	(MACUT 7719)	BRAZIL, Bovero don.	1 partial Skull
MZUT T 279	(10086)	w.d.	1 partial Skull
MZUT T 401	(MACUT 7720)	BRAZIL, 1916, Bovero don.	1 Skull
MZUT T 402	(MACUT 7724)	BRAZIL, 1916. Bovero don.	1 Skull

Genus ***Saimiri*** Voigt, 1831***Saimiri boliviensis*** (I. Geoffroy Saint-Hilaire & Blainville, 1834)

MZUT T 82	(1488, M89) (MACUT 3959)	ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 7) as <i>S. sciureus</i>	1 Mount 1 Skull
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Saimiri sciureus (Linnaeus, 1758)

MZUT T 83	(337, M90)	Central and Southern America, 1853, D'Olivieri don.	1 Mount
MZUT T 84	(36, M91)	FRENCH GUIANA, Cajenna, 25 Jul 1823, from MNHN Paris	1 Mount
MZUT T 325	(MACUT 61)	w.d., 1853, D'Olivieri don.	1 Skull

Family **AOTIDAE** Elliot, 1913Genus ***Aotus*** Illiger, 1811***Aotus azarae*** (Humboldt, 1811)

MZUT T 53	(2212, M57)	PARAGUAY, Alto Paraguay, Fuerte, Olimpo, 1897, Festa don.	1 Mount
	(MACUT 7017)	[Labeled as <i>A. trivirgatus roberti</i>]	1 Skull
MZUT T 169	(1316, M55)	BOLIVIA, 1890	1 Mount

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

MZUT T 52	(879, M56)	BRAZIL, 1857, purchased in Paris by De Filippi	1 Mount
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Aotus trivirgatus (Humboldt, 1811)

MZUT T 6	(849)	VENEZUELA, Orinoco, 1851, from Franck	1 Mount
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Family **PITHECIIDAE** Mivart, 1865Genus ***Callicebus*** Thomas, 1903***Callicebus cinerascens*** (Spix, 1823)

MZUT T 79	(442, M83)	CHILE, 1851, from Franck	1 Mount
		[locality probably wrong]. [Labeled as <i>C. donacophilus</i>]	

Callicebus donacophilus (d'Orbigny, 1836)

MZUT T 78	(666, M82)	BOLIVIA, 1853, from D'Olivieri. Adult	1 Mount
	(MACUT 64)		1 Skull

Genus ***Cacajo*** Lesson, 1840***Cacajo calvus*** (I. Geoffroy Saint-Hilaire, 1847)

MZUT T 54	(24, M59)	BRAZIL, Rio Blanco, 1846, Ghigliani exped.	1 Mount
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Genus ***Chiropotes*** Lesson, 1840***Chiropotes chiropotes*** (Humboldt, 1811)

MZUT T 167	(326, M84)	GUYANA	1 Mount
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Genus ***Pithecia*** Desmarest, 1804***Pithecia monachus*** (É. Geoffroy Saint-Hilaire, 1812)

MZUT T 166	(17, M87)	SURINAME, Jan 1845, from Franck	1 Mount
		[Labeled as Guyana, locality probably wrong]	

Pithecia pissinatti Marsh, 2014

MZUT T 81	(97, M88)	BRAZIL, Rio Madeira, 1846, Ghigliani exped.	1 Mount
		[Labeled as <i>P. monachus</i>]	

Family **ATELIDAE** Gray, 1825Genus ***Alouatta*** Lacépède, 1799***Alouatta caraya*** (Humboldt, 1812)

MZUT T 30	(1382, M35)	PARAGUAY, Ajos, Jul 1893, Borelli exped.	1 Mount
	(MACUT 3506)		1 Skull

MZUT T 44	(1383, M52) (MACUT 3523)	PARAGUAY, Rio Apa, Aug 1893, Borelli exped.	1 Mount 1 Skull
MZUT T 333	(MACUT 3452)	w.d., 1896, purchased from Crivelli	1 Skull
<i>Alouatta guariba</i> (Humboldt, 1812)			
MZUT T 13	(634)	BRAZIL Rio de Janeiro, Serra dos Órgãos. Sept 1839, Caffer in M.H.S. Regina exped.	1 Mount
<i>Alouatta palliata</i> (Gray, 1849)			
MZUT T 38	(1430, M44) (MACUT 3810)	PANAMA, Darien, Rio Lara, 1895, Festa exped.	1 Mount 1 Skull
MZUT T 39	(294, M45)	PANAMA, Darien, Rio Cianati forest, 6 Jun 1895, Festa exped., Cited in Festa (1903) [Labeled as <i>Alouatta</i> sp.]	1 Mount
MZUT T 343	(1415) (MACUT 3751)	PANAMA, Darien, Pita Lagoon, 1895, Festa exped. Adult	1 Skin 1 Skull
<i>Alouatta palliata aequatorialis</i> Festa, 1903			
MZUT T 31	(1658, M36) (MACUT 4692)	ECUADOR, Vinces, 1897, Festa exped. F. [Paralectotype here selected]	1 Mount 1 Skull
MZUT T 32	(1657, M37) (MACUT 4686)	ECUADOR, Vinces, 1897, Festa exped. M. [Paralectotype here selected]	1 Mount 1 Skull
MZUT T 33	(1656, M38) (MACUT 4688)	ECUADOR, Vinces, 1897, Festa exped. M. [Lectotype here selected]	1 Mount 1 Skull
MZUT T 34	(1659, M39) (MACUT 4693)	ECUADOR, Vinces, 1897, Festa exped. Juvenile [Paralecto-type here selected]	1 Mount 1 Skull
<i>Alouatta seniculus</i> (Linnaeus, 1766)			
MZUT T 36	(286, M41) (MACUT 55)	BOLIVIA, 1853, from D'Olivieri. [Probably <i>A. sara</i> Elliot, 1910]	1 Mount 1 Skull
MZUT T 37	(344, M42)	BOLIVIA, 1853, from D'Olivieri. Immature [Probably <i>A. sara</i> Elliot, 1910]	1 Mount
MZUT T 237	(MACUT 56)	w.d., 1854. Adult	1 Skull
MZUT T 319		w.d., 1854. Adult	1 Skull
<i>Alouatta</i> sp.			
MZUT T 35	(26, M40)	BRAZIL, 1822, Dupont don. [Labeled as <i>A. seniculus arctoidea</i>]	1 Mount 1 Skull
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 Josè, May 1897, Festa exped. Immature	1 Mount 1 Skull
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 Mount 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 <i>A. variegatus</i> , [Labeled as <i>Ateles</i> sp.]	1 partial Skull

MZUT T 372	(MACUT 5526)	ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 4) as <i>A. variegatus</i> [Labeled as <i>Sapajus apella</i>]	1 Skull
MZUT T 373	(MACUT 5527)	ECUADOR, Rio Santiago Valley, 1897, Festa exped., Cited in Festa (1903: p. 4) as <i>A. variegatus</i> [Labeled as <i>Sapajus apella</i>]	1 Skull
<i>Ateles fusciceps</i> Gray, 1866			
MZUT T 46	(626, M54) (MACUT 3504)	PANAMA, Darien, Rio Lara, 1895, Festa exped. Adult, Cited in Festa (1903) as <i>A. ater</i> [Labeled as <i>Ateles</i> sp.]	1 Mount 1 Skull
<i>Ateles geoffroyi</i> Kuhl, 1820			
MZUT T 45		w.d., 1869, Torino Zoological Garden don., dead in captivity [Labeled as <i>Ateles</i> sp.]	1 Mount
MZUT T 168	(836, M51)	w.d., Juvenile	1 Mount
MZUT T 170	(955, M50)	COLOMBIA, Jan 1865, from Bonomi	1 Mount
<i>Ateles paniscus</i> (Linnaeus, 1758)			
MZUT T 171	(27, M196) (MACUT 50)	GUYANA, 1824, from MNHN Paris	1 Mount 1 Skull
<i>Ateles</i> sp.			
MZUT T 114	(28, M122)	w.d., Nov 1822, MNHN Paris don., dead in captivity	1 Mount
Genus <i>Brachyteles</i> Spix, 1823			
<i>Brachyteles arachnoides</i> 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 <i>Lagothrix</i> É. Geoffroy Saint-Hilaire, 1812			
<i>Lagothrix lagothricha</i> (Humboldt, 1812)			
MZUT T 89	(283, M85)	BRAZIL, 1866, M.H.S. Magenta exped.	1 Mount
<i>Lagothrix poeppigii</i> Schinz, 1844			
MZUT T 80		ECUADOR, Rio Santiago Valley, Festa exped., Cited in Festa (1903) as <i>L. infumata</i> [Labeled as <i>Lagothrix</i> sp.]	1 Mount
MZUT T 258	(MACUT 4691)	ECUADOR, Rio Santiago Valley, Festa exped., Cited in Festa (1903: p. 4) as <i>L. infumata</i> [Labeled as <i>Platyrrhini</i> 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 <i>Cercocebus</i> É. Geoffroy Saint-Hilaire, 1812			
<i>Cercocebus atys</i> (Audebert, 1797)			
MZUT T 85	(1496, M92) (MACUT 4197)	ITALY, Piemonte, Torino, 1898, dead in captivity. ? don.	1 Mount 1 Skeleton

MZUT T 86	(1338, M93)	w.d., 1892	1 Mount
MZUT T 293	(MACUT 2228)	w.d., 1896, purchased from Crivelli	1 Mount 1 Skull
<i>Cercocebus torquatus</i> (Kerr, 1792)			
MZUT T 87	(2019, M94) (MACUT 6759)	w.d., 1904, Bajnotti don., dead in captivity	1 Mount 1 Skull
<i>Cercocebus</i> sp.			
MZUT T 399	(MACUT 7704)	DEM. REP. OF CONGO, 1916, Neri don. Adult	1 Skull
Genus <i>Cercopithecus</i> Linnaeus, 1758			
<i>Cercopithecus ascanius katangae</i> 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) (MACUT 7079)	DEM. REP. OF CONGO, Katanga, 1911, purchased from Bajnotti	1 Mount 1 Skull
<i>Cercopithecus ascanius schmidti</i> Matschie, 1892			
MZUT T 15	(2004) (MACUT 6804, 6803)	UGANDA, Ruwenzori, 1906, S.A.R. Duca degli Abruzzi exped., Adult M. Cited in Camerano (1909b)	1 Mount 1 Skull 1 partial Skeleton
<i>Cercopithecus cephus</i> (Linnaeus, 1758)			
MZUT T 91	(820, M97)	GUINEA, Mar 1847, from Franck [Locality probably wrong or possibly the ex Spanish Guinea, now Equatorial Guinea]	1 Mount
<i>Cercopithecus diana</i> (Linnaeus, 1758)			
MZUT T 92	(1326, M98)	w.d., 1890	1 Mount
<i>Cercopithecus mitis albogularis</i> (Sykes, 1831)			
MZUT T 265	(MACUT 39)	w.d., Oct 1824, Fonseca don.	1 Skull
<i>Cercopithecus mona</i> (Schreber, 1774)			
MZUT T 94	(1201, M100) (MACUT 5369, 5370)	ITALY, Piemonte, Torino, 23 Feb 1878, from Torino Zoological Garden, dead in captivity. Adult	1 Mount 1 Skull 1 Skeleton
MZUT T 251	(MACUT 34)	ITALY, Piemonte, Torino, 1877, Torino Zoological Garden don., dead in captivity	1 Skull
<i>Cercopithecus petaurista petaurista</i> (Schreber, 1774)			
MZUT T 95	(1499, M102)	w.d., 1898, purchased from Ghisolfi	1 Mount
MZUT T 96	(1422, M101) (MACUT 3824)	w.d., 1895, Bertieri don.	1 Mount 1 Skeleton
<i>Cercopithecus</i> 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

MZUT T 292	(MACUT 4520)	w.d.	1 Skull
MZUT T 300	(MACUT 3897)	DEM. REP. OF CONGO, 1897, Gariazzo don.	1 partial Skull
MZUT T 313	(MACUT 40)	w.d. Adult	1 partial Skull
MZUT T 365	(MACUT 5334, 5335, 5336, 5337, 5338, 5339, 5340)	w.d., 1902. Adult	1 Skull 1 partial Skeleton
MZUT T 400	(MACUT 7705)	DEM. REP. OF CONGO, 1916, Neri don.	1 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 1 Skull
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 Skeleton
MZUT T 314	(MACUT 42)	w.d. Adult	1 Skull
MZUT T 369	(MACUT 7388)	w.d., 4 Jan 1915, dead in captivity. Juvenile	1 Skeleton

Chlorocebus cynosuroides (Scopoli, 1786)

MZUT T 56	(6, M104)	AFRICA, 11 Jan, Count Olivero di Roccabigliera, 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 Skull

Chlorocebus pygerythrus (F. Cuvier, 1821)

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

Chlorocebus sabaicus (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 1 Skeleton
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 <i>Cercopithecus</i> sp.]	1 Mount
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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 1 Skull
MZUT T 100	(680, M107)	ITALY, Piemonte, Torino, Jan 1844, from Poisson, dead in captivity	1 Mount

Genus *Macaca* Lacépède, 1799*Macaca assamensis* McClelland, 1840

MZUT T 144 (1113, M156) CHINA, 1867, M.H.S. Magenta exped. M. 1 Mount
[Labeled as *Macaca* sp.]

Macaca fascicularis (Raffles, 1821)

MZUT T 120 (12, M137) INDONESIA, Sunda Archipelago, 5 Feb 1829, Masserino 1 Mount
don., dead in captivity. Adult

MZUT T 121 (1101, M138) ITALY, Piemonte, Torino, 1874, from Torino Zoological Gar- 1 Mount
den, dead in captivity

MZUT T 122 (1330, M139) w.d., 1890 1 Mount

MZUT T 200 (MACUT 5225) w.d., 1902, dead in captivity. Juvenile 1 Skeleton

MZUT T 211 (MACUT 5375, 5376) w.d., 1902 1 Skull
1 Skeleton

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 1 Skeleton
captivity

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
1 Skeleton

MZUT T 368 (MACUT 5373, 5374) w.d. 1 Skull
1 Skeleton

MZUT T 367 (MACUT 5401, 5402) w.d. 1 Skull
1 Skeleton

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

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
1 Hyoid bone

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)

MZUT T 124 (1202, M142) ITALY, Piemonte, Torino, 14 Feb 1878, from Torino Zoologi- 1 Mount
cal, Garden, dead in captivity

MZUT T 125 (1251, M143) INDONESIA, Sunda Archipelago, 12 Dec 1879, from Torino 1 Mount
Zoological Garden, dead in captivity

MZUT T 126 (819, M144) INDONESIA, Java, Nov 1847, from Guillaume Compagnia 1 Mount
Equestre, dead in captivity

MZUT T 127 (1323, M146) w.d., 1890 1 Mount

MZUT T 132 (1213, M154) ITALY, Piemonte, Torino, 1878, from Torino Zoological Gar- 1 Mount
den, dead in captivity
[Labeled as *Macaca* sp.]

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
<i>Macaca nigra</i> (Desmarest, 1822)			
MZUT T 115	(2020, M123)	w.d., 1907, dead in captivity	1 Mount
	(MACUT 6762)		1 Skeleton
MZUT T 116	(1389, M124)	ITALY, Liguria, Genova, 1893, dead in captivity. Juvenile	1 Mount
MZUT T 117	(1104, M125)	ITALY, Piemonte, Torino, 1874, from Torino Zoological Garden, dead in captivity	1 Mount
MZUT T 118	(7, M126)	INDONESIA, Celebes Island, Aug 1825, Tournaire don., dead in captivity	1 Mount
<i>Macaca ochreata</i> (Ogilby, 1841)			
MZUT T 380	(1974, M141)	w.d., dead in captivity	1 Skin
	(MACUT 6234)		1 Skeleton
<i>Macaca silenus</i> (Linnaeus, 1758)			
MZUT T 129	(11, M150)	Oriental Indies, Jun 1831, Bonomi don., dead in captivity	1 Mount
<i>Macaca sinica</i> (Linnaeus, 1771)			
MZUT T 101	(1325, M108)	w.d., 1890 [Labeled as <i>Cercopithecus</i> sp.]	1 Mount
MZUT T 128	(1329, M148)	w.d., 1890	1 Mount
MZUT T 376	(MACUT 5912)	w.d., 1904, Mosso don. Juvenile	1 Skeleton
MZUT T 377	(MACUT 5913)	w.d., 1904, Mosso don.	1 Skeleton
MZUT T 381	(1975)	w.d., 1890, dead in captivity	1 Mount
	(MACUT 6235)		1 Skeleton
<i>Macaca sylvanus</i> (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. [Labeled as <i>Macaca</i> sp.]	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 1 Skeleton
MZUT T 393	(MACUT 7121)	w.d., 1911, Bocca don., dead in captivity	1 Skeleton

Macaca sp.

MZUT T 110	(1107, M118)	ITALY, Piemonte, Torino, 1874, from Torino Zoological Garden, dead in captivity [Labeled as <i>Cercopithecus</i> sp.]	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 1 Skeleton
MZUT T 215	(MACUT 5389, 5390)	w.d., 1902	1 Skull 1 Skeleton
MZUT T 217	(MACUT 5399, 5400)	w.d., 1902	1 Skull 1 Skeleton
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 310	(2675)	MYANMAR, 1898, Bertoldo don.	1 Skin
MZUT T 341	(MACUT 3719)	w.d.	1 Skeleton

Genus *Mandrillus* Ritgen, 1824**Mandrillus leucophaeus** (F. Cuvier, 1807)

MZUT T 332	(MACUT 3385)	w.d., Purchased from Crivelli. Juvenile [Labeled as <i>Papio</i> sp.]	1 Skull
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Mandrillus sphinx (Linnaeus, 1758)

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., 1852, dead in captivity	1 partial Skeleton
MZUT T 344	(MACUT 3782)	w.d., 1896 [Labeled as <i>Papio</i> sp.]	1 Skull

Genus *Miopithecus* I. Geoffroy Saint-Hilaire, 1862**Miopithecus talapoin** (Schreber, 1774)

MZUT T 289	(MACUT 33)	w.d.	1 Skull
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Genus *Papio* Erxleben, 1777**Papio anubis** (Lesson, 1827)

MZUT T 162	(1099, M161)	ITALY, Piemonte, Torino, 10 Mar 1874, from Torino Zoological Garden, dead in captivity. Adult, M	1 Mount
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Papio hamadryas (Linnaeus, 1758)

MZUT T 140	(1327, M165)	w.d., 1890. Juvenile	1 Mount
MZUT T 141	(M166)	ITALY, Piemonte, Torino, 1893, dead in captivity. Juvenile [Labeled as <i>Papio</i> sp.]	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) (MACUT 4044)	w.d., 1898, dead in captivity. Adult, M	1 Mount 1 Skeleton
MZUT T 194	(MACUT 7930, 7932)	w.d., 1898, dead in captivity. Adult	1 partial Skull 1 partial Skeleton

MZUT T 304	(2691)	ERITREA, Ghinda, 1899, Rossi don. M. [Labeled as <i>Papio</i> sp.]	1 Skin 1 partial Skull
MZUT T 348	(MACUT 3947)	w.d., 1897, Cap. Muzioli from Perugia Museum don. [Labeled as <i>Papio</i> sp.]	1 Skull
MZUT T 350	(MACUT 4181)	ERITREA, Massaua, Saganeiti, 1899, from Gentile. Adult	1 partial Skull
MZUT T 359	(MACUT 4564)	w.d., dead in captivity	1 Skeleton
<i>Papio papio</i> (Desmarest, 1820)			
MZUT T 48	(23, M166) (MACUT 4260)	ITALY, Piemonte, Torino, 16 Feb 1829, Masserino don., dead in captivity	1 Mount 1 Skeleton
MZUT T 234	(MACUT 3541)	w.d.	1 Skull
<i>Papio</i> sp.			
MZUT T 183	(MACUT 4094)	w.d., 1899	1 Skeleton
MZUT T 266	(MACUT 3560)	w.d.	1 Skull
MZUT T 290	(MACUT 3457)	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 <i>P. hamadryas</i>]	1 Skull
MZUT T 318	(MACUT 47)	w.d. [Possibly <i>Theropithecus gelada</i>]	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
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Genus *Colobus* Illiger, 1811***Colobus angolensis*** P. Sclater, 1860

MZUT T 137	(2205, M132) (MACUT 7077)	DEM. REP. OF CONGO, Katanga, 1911, purchased from Baj- notti. Adult	1 Mount 1 Skull
MZUT T 392	(MACUT 7078)	DEM. REP. OF CONGO, Katanga, 1911, purchased from Baj- notti. Adult	1 Skull

Colobus guereza Rüppell, 1835

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

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 <i>Colobus</i> sp.]	1 Mount 1 Skull
MZUT T 136	(2014, M130)	w.d., 1906, Sella don, purchased at Djibouti. Cited in Camera- no (1909a).	1 Mount
MZUT T 139	(2015, M190)	ETHIOPIA, Addis Abeba, 1907, from Bajnotti	1 Mount

Colobus guereza caudatus Thomas, 1885

MZUT T 133	(1878, M127)	KENYA, Mombasa, 1905, purchased from Bajnotti. Cited in Camerano (1909a)	1 Mount
MZUT T 134	(1879, M128)	KENYA, Mombasa, 1905, purchased from Bajnotti	1 Mount
MZUT T 135	(1880, M129)	KENYA, Mombasa, 1905, purchased 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
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Colobus vellerosus (I. Geoffroy Saint-Hilaire, 1834)

MZUT T 138	(243, M143) (MACUT 28)	GHANA, 1851, from Franck. Adult. Cited in Camerano (1909a)	1 Mount 1 Skull
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***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 1 Skull
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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
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Genus ***Presbytis*** Eschscholtz, 1821***Presbytis femoralis*** (Martin, 1838)

MZUT T 151	(386, M175)	INDONESIA, Borneo, 1853, Bonomi exped. [Locality probably wrong]	1 Mount
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Presbytis melalophos (Raffles, 1821)

MZUT T 150	(834, M176)	INDONESIA, Sumatra, 1846, from Franck.	1 Mount
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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
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Semnopithecus entellus (Dufresne, 1797)

MZUT T 149 (1216, M173) w.d., 1878, Polar don. 1 Mount
[Labeled as *Semnopithecus* sp.]

Semnopithecus vetulus (Erxleben, 1777)

MZUT T 93 (1301, M99) w.d., 1885 1 Mount

***Semnopithecus* sp.**

MZUT T 153 (1105, M178) ITALY, Piemonte, Torino, 10 Mar 1874, from Torino Zoologi- 1 Mount
cal Garden, dead in captivity
[Labeled as *Presbytis* sp.]

MZUT T 371 (MACUT 5411, w.d., 1902, Juvenile 1 Skull
5412) 1 Skeleton

Genus ***Trachypithecus*** Reichenbach, 1862***Trachypithecus cristatus*** (Raffles, 1821)

MZUT T 148 (821, M172) INDONESIA, Java, Apr 1846, from Franck 1 Mount
[Locality probably wrong]

Trachypithecus obscurus (Reid, 1837)

MZUT T 152 (1711, M177) MYANMAR, Thao, 10 Mar 1888, Fea exped. Adult 1 Mount
(MACUT 5124) 1 Skull

Cercopithecidae indet.

MZUT T 382 (MACUT 6335) INDONESIA, Sumatra, 1905, Silva don. 1 Skull

Family **HYLOBATIDAE** (Gray, 1871)Genus ***Hylobates*** Illiger, 1811***Hylobates agilis*** (F. Cuvier, 1821)

MZUT T 49 (2, M180) INDONESIA, Sumatra, Nov 1831, Bonomi don. Immature 1 Mount

MZUT T 161 (713) INDONESIA, Sumatra, Ago 1845, from Franck 1 Mount

Hylobates alibarbis (Lyon, 1911)

MZUT T 158 (742, M179) INDONESIA, Borneo, Feb 1846, from Franck 1 Mount

Hylobates lar (Linnaeus, 1771)

MZUT T 159 (777) INDIA, Shrirangapattana, Apr 1846, from Franck 1 Mount

MZUT T 160 (778) INDIA, Coromandel Coast, Apr 1846, from Franck 1 Mount
[Labeled as *H. agilis*]

Hylobates moloch (Audebert, 1798)

MZUT T 50 (1412, M182) ITALY, Piemonte, Torino, From Torino Zoological Garden, 1 Mount
(MACUT 30, dead in captivity in 1886. Adult 1 Skull
3746) 1 Skeleton

Genus ***Symphalangus*** (Gloger, 1841)***Symphalangus syndactylus*** (Raffles, 1821)

MZUT T 172 (1, M183) INDONESIA, Sumatra, 1824, from MNHN Paris 1 Mount

CATARRHINI indet.

MZUT T 186 (MACUT 5343) w.d., 1902 1 Skeleton

MZUT T 191 (MACUT 4170, w.d. 1 Skeleton
4710) 1 Skull

MZUT T 196 (MACUT 5342) w.d., 1902 1 Skeleton

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		w.d.	1 Skeleton
MZUT T 212	(MACUT 5413, 5414)	w.d., 1902	1 Skeleton 1 Skull
MZUT T 218	(MACUT 5407, 5408)	w.d., 1902	1 Skeleton 1 Skull
MZUT T 219	(MACUT 5403, 5404)	w.d., 1902. Immature	1 Skeleton 1 Skull
MZUT T 223	(MACUT 5169, 5421, 5422)	w.d., 1902	1 partial Skeleton 1 Skull
MZUT T 229	(MACUT 5377, 5378)	w.d., 1902. Immature	1 Skeleton 1 Skull
MZUT T 231	(MACUT 5381, 5382)	w.d., 1902. Immature	1 Skeleton 1 Skull
MZUT T 232	(MACUT 5415, 5416)	w.d., 1902. Immature	1 Skeleton 1 Skull
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)

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)

MZUT T 51		w.d.	1 Mount
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MZUT T 174	(2816, M186)	w.d., 1930, purchased, dead in captivity	1 Mount
MZUT T 176	(15) (MACUT 6951)	GUINEA, 1831. Juvenile	1 Mount 1 Skeleton
MZUT T 177		w.d.	1 Mount
MZUT T 178	(10, M184)	GUINEA. Adult, F	1 Mount
MZUT T 187	(MACUT 3)	w.d.	1 Skeleton
MZUT T 387	(MACUT 6952)	w.d. Adult	1 Skeleton
MZUT T 391	(MACUT 7034)	w.d., 1911, from Bajnotti. Juvenile	1 Skeleton
MZUT T 398	(MACUT 7699)	DEM. REP. OF CONGO, Aba, High Uelè, 1916, Neri don. Adult	1 Skeleton

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.

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.

MZUT T 210	(MACUT 5379, 5380)	w.d., 1902. Adult	1 Skull 1 Skeleton
MZUT T 214	(MACUT 5387, 5388)	w.d., 1902	1 Skull 1 Skeleton
MZUT T 221	(MACUT 5385, 5386)	w.d., 1902	1 Skull 1 Skeleton
MZUT T 224	(MACUT 5409, 5410)	w.d., 1902. Juvenile	1 Skull 1 Skeleton
MZUT T 225	(MACUT 5391)	w.d., 1902	1 partial Skeleton
MZUT T 226	(MACUT 5392, 5394)	w.d., 1902. Juvenile	1 Skeleton 1 Skull
MZUT T 227	(MACUT 5393)	w.d., 1902	1 partial Skeleton
MZUT T 228	(MACUT 5397, 5398)	w.d., 1902. Juvenile	1 Skull 1 Skeleton
MZUT T 230	(MACUT 5405, 5406)	w.d., 1902. Adult	1 Skull 1 Skeleton
MZUT T 242	(MACUT 3561)	w.d. Juvenile	1 Skull
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 Skull 1 Skeleton