

Loïc COSTEUR

Martin SCHNEIDER

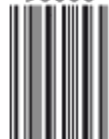
**Catalogue
of the Eocene mammal types
of the Natural History Museum Basel**

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(2011: Book 3)**

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Catalogue of the Eocene mammal types of the Natural History Museum Basel.

Loïc COSTEUR & Martin SCHNEIDER

Abstract

This catalogue presents a list of the Eocene mammalian type specimens held in the collection of the Natural History Museum Basel (Naturhistorisches Museum Basel, hereafter NMB). After a close inspection of the very rich Eocene collection (several tens of thousands of specimens), a total of 51 valid holotypes (plus 16 invalid species) were identified together with 21 valid lectotypes and several hundreds paratypes, paralectotypes and syntypes. These types belong to 123 originally described species, of which 99 are still valid, 30 having been moved to another genus.

Introduction

The vertebrate collection of the NMB is one of the most relevant of Europe regarding fossil mammals. The tradition of collecting and acquiring all kinds of fossil mammals dates back to the first curator for vertebrates at Basel, Ludwig RÜTIMEYER (1825-1895). He set the bases of this collection while collecting at various and now well-known Swiss localities. His famous successor Hans Georg STEHLIN (1870-1941), father of the "Grande Coupure" (recognition of the Eocene-Oligocene faunal renewal), largely contributed in popularizing the collection in the palaeontological community as he described several tens of species from the Swiss fossil record, and beyond, from the whole European record. His seminal works on the Eocene Swiss fauna of Egerkingen (STEHLIN, 1903, 1904, 1905a, 1905b, 1906, 1908, 1910, 1912, 1915-1916) made the Eocene collection of the NMB a reference as many later recognised widespread European species in all the mammalian orders, including primates, were then described and richly illustrated. The Eocene at the NMB represents tens of thousands of fossils which are still mostly undescribed and often not yet digitalised. More than

100 localities spanning all the Eocene MP reference levels but one, including half of the reference level localities, are well organised and 15 localities bear holotypes and associated type material. The unstudied status of many specimens makes the collection a living one and types are still being described even very recently (e.g., the apatemyid *Carcinella sigei* KOENIGSWALD *et alii*, 2009).

The purpose of this catalogue is to give a detailed and up-to-date account of the Eocene type material hosted at the NMB; some holotypes, lectotypes and syntypes are also here figured. This is the first step towards a comprehensive understanding of our fossil mammal types and it gives the opportunity to increase the standard of the collection by reviewing the validity and status of long described specimens.

Material and Methods

The types are ordered after the classification published in MCKENNA & BELL (1997) adapted from more recent sources (see below). Informations on types is given following this sequence (after TURNI & KOCK, 2008): original species name, author, year of publication, original reference, current species name, type locality when a holotype, lectotype or neotype is concerned, type category, localities for paratypes, paralectotypes and syntypes, catalogue number, nature of specimen with holotype first when at NMB followed by other kinds of types and their corresponding locality when different from that of the holotype or lectotype or neotype, collector and date of collection when known or donator and date of donation when known, comments on location of the holotype when known. When type locality is the same for paratypes, it will not be repeated in the list of paratypes.

Given the status of the collection, only those specimens for which the holotype, lectotype or neotype is in the collection are referred to. Yet, a number of paratypes for which the holotype is in another collection are given when known but others which were never labelled as such and thus are very difficult to identify can not be mentioned. Likewise, paratypes in other public collections with holotypes at Basel may exist without being known to us as not being referred to on the holotypes' labels. These will not be mentioned here but we expect their amount to be very small, if any, as our collection consists of specimens from localities which were almost entirely stored here at Basel and the type series were correspondingly given on the material stored at the NMB. Careful check of the type publications has been carried out to avoid such a problem.

Upper teeth will be written with capitals and lower teeth without. I and i stand for incisors, C and c stand for canines, P and p stand for premolars and M and m stand for molars.

It is to be noted that a nomenclatural tradition existed in Basel in the past. Curators and collection managers at the Museum, RÜTIMEYER, STEHLIN, HELBING, SCHAUB and HÜRZELER numbered premolars from posterior to anterior and not from anterior to posterior such as widely accepted now. This resulted in actual p4 being p1 or actual p2 being p3, actual p1 being p4 and actual p3 being p2 for them. We corrected this for the holotypes and lectotypes but could not go through the whole serie of syntypes, paratypes and paralectotypes to correct this here. This is thus highly possible that these kinds of types still are numbered using this nomenclature, it is also not to be excluded that others who worked on the material actually corrected this before. The bulk of the data comes from a computer database constituted by non-specialists in the 1980s and 1990s; the information was carefully taken from the literature, labels and entry books written by the curators themselves; we are confident about the great fidelity of the data although these nomenclatural problems were not systematically corrected. This is to be kept in mind when one wants to study the material of the NMB. The precise nomenclature following extant usage will be given upon requests to the authors for specific needs.

The rules and terminology of the International Commission on Zoological Nomenclature (ICZN 1999) were followed.

Besides type publications and MCKENNA & BELL (1997), various synthetic works were used to provide an up-to-date version of the systematics of the groups for which the NMB has types. These include BECKER (2003), ERFURT & MÉTAIS (2007), THEODOR *et alii* (2007), MAITRE (2008).

Type publications for the species presented here are available at the NMB.

Index of species with type material at the NMB and found in this catalogue

(classified by Order and Family following MCKENNA & BELL (1997) or more recent revisions; valid and invalid names are given here. When a species is not valid anymore, valid names are indented below).

Didelphimorphia

DIDELPHIDAE

- 1- Valid name: *Amphiperatherium bastbergense* CROCHET, 1979
- 2- Valid name: *Amphiperatherium dormaalense* CROCHET, 1978
- 3- Valid name: *Amphiperatherium goethei* CROCHET, 1979
- 4- Valid name: *Peratherium lavergnense* CROCHET, 1979

Rodentia

ISCHYROMYIDAE

- 5- Valid name: *Plesiarctomys huerzeleri* WOOD, 1970
- 6- *Sciurus spectabilis* (FORSYTH MAJOR, 1873)
valid name: *Plesiarctomys spectabilis* (FORSYTH MAJOR, 1873)
- 7- Valid name: *Ailuravus stehlin-schaubi* WOOD, 1976

THERIDOMYIDAE

- 8- *Adelomys cartieri* (STEHLIN & SCHAUB, 1951)
valid name: *Protadelomys cartieri* (STEHLIN & SCHAUB, 1951)

MYOXIDAE

- 9- Valid name: *Gliravus majori* STEHLIN & SCHAUB, 1951
- 10- *Gliravus priscus* STEHLIN & SCHAUB, 1951
valid name: *Glamys priscus* (STEHLIN & SCHAUB, 1951)

Cimolesta

APATEMYIDAE

11- Valid name: *Carcinella sigei* KOENIGSWALD *et alii*, 2009

12- *Heterochiromys fortis* STEHLIN, 1916

valid name: *Heterohyus armatus* (GERVAIS, 1848)

13- *Heterochiromys gracilis* (STEHLIN, 1916)

valid name: *Heterohyus gracilis* (STEHLIN, 1916)

14- *Calamodon europaeus* RÜTIMEYER, 1890

valid name: *Heterohyus europaeus* (RÜTIMEYER, 1890)

15- *Phenacodus minor* RÜTIMEYER, 1891 (Fig. 1)

valid name: *Heterohyus europaeus* (RÜTIMEYER, 1890)

PANTOLESTIDAE

16- Valid name: *Buxolestes hammeli* JAEGER, 1970 (Fig. 2)

PAROXYCLAENIDAE

17- *Russellites simplicidens* van VALEN, 1965

valid name: *Vulpavoides simplicidens* (van VALEN, 1965)

Creodonta

HYAENODONTIDAE

18- *Prototomus torvidus* van VALEN, 1965

valid name: *Allopterodon torvidus* (van VALEN, 1965)

19- *Prodissopsalis phonax* van VALEN, 1965

valid name: *Allopterodon torvidus* (van VALEN, 1965)

20- Valid name: *Proviverra typica* RÜTIMEYER, 1862

21- *Prorhyzaena egerkingiae* RÜTIMEYER, 1891

valid name: *Proviverra typica* RÜTIMEYER, 1862

- 22- *Pseudosinopa ruetimeyeri* DEPÉRET, 1917 (Fig. 3)
valid name: *Cynohyaenodon ruetimeyeri* (DEPÉRET, 1917)
- 23- Valid name: *Cynohyaenodon trux* van VALEN, 1965
- 24- Valid name: *Praecodens acutus* LANGE-BADRÉ, 1981
- 25- Valid name: *Paracynohyaenodon schlosseri* MARTIN, 1906
- 26- Valid name: *Alienetherium buxvilleri* LANGE-BADRÉ, 1981
- 27- *Prodissopsalis theriodis* van VALEN, 1965 (Fig. 4)
valid name: *Eurotherium theriodis* (van VALEN, 1965)
- 28- *Pterodon magnus* RÜTIMEYER, 1891
valid name: *Paroxyaena galliae* (FILHOL, 1881)
- 29- *Hyaenodon ambiguous* MARTIN, 1906
valid name: *Hyaenodon gervaisi* MARTIN, 1906

Erinaceomorpha

AMPHILEMURIDAE

- 30- *Alsaticopithecus leemanni* (HÜRZELER, 1947) (Fig. 5)
valid name: *Amphilemur leemanni* (HÜRZELER, 1947)
- 31- Valid name: *Gesneropithecus peyeri* HÜRZELER, 1946

DIMYLIDAE

- 32- Valid name: *Exoedaenodus schaubi* HÜRZELER, 1944

Soricomorpha

NYCTITHERIIDAE

- 33- Valid name: *Saturninia gracilis* STEHLIN, 1940
- 34- Valid name: *Saturninia rigassii* HOOKER & WEIDMANN, 2000
- 35- Valid name: *Paradoxonycteris soricodon* REVILLIOD, 1919

Chiroptera

FAMILY INDET.

- 36- *Necromantis grandis* REVILLIOD, 1920 (Fig. 6)
valid name: *Necromantis adichaster* WEITHOFER, 1887
37- *Necromantis planifrons* REVILLIOD, 1920
valid name: *Necromantis adichaster* WEITHOFER, 1887

PALAEOCHIROPTERYGIDAE

- 38- *Nycterobius gracilis* REVILLIOD, 1919
valid name: *Stehlinia gracilis gracilis* (REVILLIOD, 1919)
39- *Pseudorhinolophus egerkingensis* REVILLIOD, 1922
valid name: *Stehlinia gracilis* (REVILLIOD, 1919)
40- *Paleunycteris minor* REVILLIOD, 1922
valid name: *Stehlinia minor* (REVILLIOD, 1920)
41- *Paleunycteris pusilla* REVILLIOD, 1922
valid name: *Stehlinia pusilla* (REVILLIOD, 1922)
42- *Paleunycteris quercyi* REVILLIOD, 1922
valid name: *Stehlinia quercyi* (REVILLIOD, 1922)
43- *Paleunycteris rutimeyeri* REVILLIOD, 1922
valid name: *Stehlinia rutimeyeri* (REVILLIOD, 1922)

EMBALLONURIDAE

- 44- Valid name: *Vespertiliavus gracilis* REVILLIOD, 1920
45- Valid name: *Vespertiliavus schlosseri* REVILLIOD, 1920
46- Valid name: *Vespertiliavus wingei* REVILLIOD, 1920

RHINOLOPHIDAE

- 47- *Rhinolophus priscus* REVILLIOD, 1920
valid name: *Vaylatsia prisca* (REVILLIOD, 1920)

48- *Rhinolophus priscus* REVILLIOD, 1920

valid name: *Vaylatsia pellisiei* MATRE, 2008

49- *Rhinolophus pumilio* REVILLIOD, 1920

valid name: *Vaylatsia pumilio* (REVILLIOD, 1920)

50- *Pseudorhinolophus schlosseri* REVILLIOD, 1917

valid name: *Hipposideros (Pseudorhinolophus) schlosseri schlosseri* (REVILLIOD, 1917)

51- *Pseudorhinolophus weithoferi* REVILLIOD, 1917

valid name: *Hipposideros (Pseudorhinolophus) weithoferi* (REVILLIOD, 1917)

52- Valid name: *Palaeophyllophora quercyi* REVILLIOD, 1917

53- *Paraphyllophora robusta* REVILLIOD, 1922 (Fig. 7)

valid name: *Palaeophyllophora quercyi* REVILLIOD, 1917

54- *Palaeophyllophora sanctaeneboulae* REVILLIOD, 1917

valid name: *Palaeophyllophora oltina* DELFORTRIE, 1873

Primates

FAMILY INDET.

55- Valid name: *Chasselasia eldredgei* SCHWARTZ & TATTERSALL, 1982

ADAPIDAE

56- Valid name: *Caenopithecus lemuroides* RÜTIMEYER, 1862

57- *Adapis sciureus* STEHLIN, 1916

valid name: *Microadapis sciureus* (STEHLIN, 1916)

58- Valid name: *Adapis sudrei* GINGERICH, 1977

59- Valid name: *Adapis ruetimeyeri* (STEHLIN, 1912)

60- *Alsatia dunaifi* TATTERSALL & SCHWARTZ, 1983

valid name: *Europolemur klatti* (WEIGELT, 1933)

61- Valid name: *Simonsia lynnae* SCHWARTZ & TATTERSALL, 1982

62- Valid name: *Anchomomys stehlini* GINGERICH, 1977

63- *Caenopithecus pygmaeus* RÜTIMEYER, 1890

valid name: *Anchomomys stehlini* GINGERICH, 1977

64- *Protadapis brachyrhynchus* (STEHLIN, 1912) (Fig. 8)

valid name: *Cercamonius brachyrhynchus* (STEHLIN, 1912)

OMOMYIDAE

65- *Pelycodus helveticus* RÜTIMEYER, 1891

valid name: *Periconodon pygmaeus* (RÜTIMEYER, 1891)

66- Valid name: *Periconodon huerzeleri* GINGERICH, 1977

MICROCHOERIDAE

67- Valid name: *Necrolemur antiquus major* STEHLIN, 1916 (Fig. 9)

68- *Nannopithecus pollicaris* STEHLIN, 1916

valid name: *Nannopithecus filholi* CHANTRE & GAILLARD, 1897

69- Valid name: *Microchoerus ornatus* STEHLIN, 1916

Artiodactyla

CHOEROPOTAMIDAE

70- Valid name: *Choeropotamus depereti* STEHLIN, 1908

71- Valid name: *Tapirulus depereti* STEHLIN, 1910

72- Valid name: *Tapirulus majori* STEHLIN, 1910

73- Valid name: *Tapirulus schlosseri* STEHLIN, 1910

"HAPLOBUNODONTIDAE"

74- *Dichobune muelleri* RÜTIMEYER, 1862

valid name: *Haplobunodon muelleri* (RÜTIMEYER, 1862)

75- Valid name: *Haplobunodon solodurensis* STEHLIN, 1908 (Fig. 10)

76- Valid name: *Rhagatherium kowalevskyi* STEHLIN, 1908

DICHOBUNIDAE

77- *Necrolemur cartieri* RÜTIMEYER, 1891

valid name: *Mouillacitherium cartieri* (RÜTIMEYER, 1891)

78- *Dichobune spinifera* STEHLIN, 1906

valid name: *Hyperdichobune spinifera* STEHLIN, 1906

79- Valid name: *Hyperdichobune hammeli* SUDRE, 1978

80- Valid name: *Hyperdichobune spectabilis* STEHLIN, 1910

81- *Dichobune langi* RÜTIMEYER, 1891

valid name: *Hyperdichobune langi* (RÜTIMEYER, 1891)

82- *Dichobune nobilis* STEHLIN, 1906

valid name: *Hyperdichobune nobilis* STEHLIN, 1906

83- Valid name: *Meniscodon picteti* RÜTIMEYER, 1888

84- *Phenacodus europaeus* (RÜTIMEYER, 1888) (Fig. 11)

valid name: *Meniscodon europaeum* (RÜTIMEYER, 1888)

85- Valid name: *Buxobune daubreei* SUDRE, 1978

86- Valid name: *Metriotherium paulum* STEHLIN, 1906

CEBOCHOERIDAE

87- Valid name: *Cebochoerus ruetimeyeri* STEHLIN, 1908

88- *Choeromorus jurensis* STEHLIN, 1908

valid name: *Cebochoerus ruetimeyeri* STEHLIN, 1908

MIXTOTHERIIDAE

89- Valid name: *Mixtotherium gresslyi* RÜTIMEYER, 1891

90- *Mixtotherium priscum* STEHLIN, 1908

valid name: *Mixtotherium gresslyi* RÜTIMEYER, 1891

91- Valid name: *Mixtotherium infans* STEHLIN, 1910

DACRYTHERIIDAE

92- Valid name: *Dacrytherium priscum* STEHLIN, 1910

- 93- Valid name: *Dacrytherium saturnini* STEHLIN, 1910
94- Valid name: *Catodontherium buxgovianum* STEHLIN, 1910
95- Valid name: *Catodontherium fallax* STEHLIN, 1910 (Fig. 12)

CAINOTHERIIDAE

- 96- *Oxacron valdense* STEHLIN, 1906
valid name: *Paroxacron valdense* (STEHLIN, 1906)

XIPHODONTIDAE

- 97- Valid name: *Xiphodon intermedium* STEHLIN, 1910
98- Valid name: *Dichodon cartieri* RÜTIMEYER, 1891
99- Valid name: *Dichodon ruetimeyeri* STEHLIN, 1910
100- Valid name: *Dichodon simplex* KOWALEVSKY, 1873 (Fig. 13)
101- Valid name: *Dichodon subtilis* STEHLIN, 1910
102- Valid name: *Haplomeryx egerkingensis* STEHLIN, 1910
103- Valid name: *Leptotheridium lugeoni* STEHLIN, 1910
104- Valid name: *Leptotheridium traguloides* STEHLIN, 1910 (Fig. 14)

AMPHIMERYCIDAE

- 105- Valid name: *Pseudamphimeryx pavlowiae* STEHLIN, 1910
106- *Xiphodontherium schlosseri* (RÜTIMEYER, 1891)
valid name: *Pseudamphimeryx schlosseri* (RÜTIMEYER, 1891)
107- Valid name: *Pseudamphimeryx valdensis* STEHLIN, 1910

Perissodactyla

INCERTAE SEDIS

- 108- *Tapinodon gresslyi* von MEYER, 1846
valid name: Equoidea indet.
109- *Lophiotherium elegans* RÜTIMEYER, 1862
valid name: Equoidea indet.

110- Valid name: *Hallensia parisiensis* FRANZEN, 1990 (Fig. 15)

EQUIDAE

111- Valid name: *Propalaeotherium helveticum* SAVAGE *et alii*, 1965

112- *Propalaeotherium parvulum* LAURILLARD, 1849

valid name: *Eurohippus parvulus* (LAURILLARD, 1849)

113- *Propalaeotherium minutum* RÜTIMEYER, 1891

valid name: *Eurohippus parvulus* (LAURILLARD, 1849)

114- *Plagiolophus minutus* RÜTIMEYER, 1862

valid name: *Eurohippus parvulus* (LAURILLARD, 1849) or *Anchilophus depereti* STEHLIN, 1905

PALAEOTHERIIDAE

115- Valid name: *Palaeotherium castrense* NOULET, 1863 (Fig. 16)

116- Valid name: *Palaeotherium pomeli* FRANZEN, 1968 (Fig. 17)

117- Valid name: *Palaeotherium renevieri* STEHLIN, 1904

118- Valid name: *Palaeotherium ruetimeyeri* STEHLIN, 1905

119- Valid name: *Plagiolophus cartieri* STEHLIN, 1904

ANCHILOPHIDAE

120- Valid name: *Anchilophus depereti* STEHLIN, 1905

LOPHIODONTIDAE

121- Valid name: *Lophiodon rhinocerodes* RÜTIMEYER, 1862

HYRACHYIDAE

122- *Lophiodon cartieri* RÜTIMEYER, 1862

valid name: *Chasmotherium cartieri* RÜTIMEYER, 1862

123- *Lophiodon annectens* RÜTIMEYER, 1891 (Fig. 18)

valid name: *Chasmotherium cartieri* RÜTIMEYER, 1862

Catalogue

Order: Didelphimorphia GILL, 1872

DIDELPHIDAE GRAY, 1821

1 - *Amphiperatherium bastbergense* CROCHET, 1979

CROCHET J.-Y. (1979).- Diversité systématique des Didelphidae (Marsupialia) européens tertiaires.- *Geobios*, vol. 12, n° 3, p. 365-378.

Valid name: *Amphiperatherium bastbergense* CROCHET, 1979

Paratypes:

Locality: Bouxwiller, France.

Bchs.164 Upper M3

Bchs.328 Upper M2

Bchs.329 Upper M1

Bchs.331 Upper M2

Bchs.332 Upper M2

Bchs.334 Upper M2

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ek.39 Upper molar

H.E.12 Upper right molar

Comment: the holotype (Bux 68.64) is at the University of Montpellier II, France.

2 - *Amphiperatherium dormaalense* CROCHET, 1978

CROCHET J.-Y. (1978).- Les Marsupiaux du Tertiaire d'Europe.- PhD Thesis Université des Sciences et Techniques du Languedoc, Montpellier, 360 p.

Valid name: *Amphiperatherium dormaalense* CROCHET, 1978

Paratypes:

Locality: Dormaal, Belgium.

Om.158 Upper M2

Om.159 Upper M2

Comment: the holotype (Ct M 1324) is at the Royal Institute of Natural Sciences, Brussels, Belgium. The species' name was given by QUINET (1964) as *Peratherium dormaalense* but is a *nomen nudum*.

**3 - *Amphiperatherium goethei*
CROCHET, 1979**

CROCHET J.-Y. (1979).- Diversité systématique des Didelphidae (Marsupialia) européens tertiaires.- *Geobios*, vol. 12, n° 3, p. 365-378.

Valid name: *Amphiperatherium goethei* CROCHET, 1979

Paratype:

Locality: Bouxwiller, France.

Bchs.221 Upper right M3

Comment: the holotype (Bux 68.89) is at the University of Montpellier II, France.

**4 - *Peratherium lavergnense*
CROCHET, 1979**

CROCHET J.-Y. (1979).- Diversité systématique des Didelphidae (Marsupialia) européens tertiaires.- *Geobios*, vol. 12, n° 3, p. 365-378.

Valid name: *Peratherium lavergnense* CROCHET, 1979

Paratypes:

Locality: Saint-Hippolyte-de-Caton, France.

St.H.1738a Lower m2-m3

St.H.1827 Lower m1

St.H.1825 Lower m1

St.H.2515 Upper M1

Comment: the holotype (LAV 1031) is at the University of Montpellier II, France.

Order: Rodentia BOWDICH, 1821

ISCHYROMYIDAE ALSTON, 1876

**5 - *Plesiarctomys huerzeleri*
WOOD, 1970**

Wood A.E. (1970).- The European Eocene Paramyid Rodent *Plesiarctomys*.- *Verhandlungen der Naturforschenden Gesellschaft in Basel*, vol. 80, n°

2, p. 237-278.

Valid name: *Plesiarctomys huerzeleri* WOOD, 1970

Paratype:

Locality: Robiac, France.

Rb.49 Upper right I1

Comment: the holotype (FSL.4912) is at the University Lyon 1, France.

6 - *Sciurus spectabilis* (FORSYTH MAJOR, 1873)

FORSYTH MAJOR C.J. (1873).- Nagerüberreste aus Bohnerzen Süddeutschlands und der Schweiz. Nebst Beiträgen zu einer Odontographie von Ungulaten und Unguiculaten.- *Palaeontographica*, vol. 22, n° 2, p. 75-130.

Valid name: *Plesiarctomys spectabilis* (FORSYTH MAJOR, 1873)

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Lectotype (WOOD, 1962):

Ef.1003a Fragment of left maxilla with P4-M1

Paralectotypes:

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ef.1003b Fragment of right maxilla with P4-M1

Eg.604 Lower m1/m2

Eg.605 Fragment of left mandible with m1-m3

Ek.228b Lower right m1/m2

Ek.192 Lower right m3

7 - *Ailuravus stehlinchaubi* WOOD, 1976

WOOD A.E. (1976). The Paramyid Rodent *Ailuravus* from the Middle and Late Eocene of Europe, and its relationships. *Palaeovertebrata*, vol. 7, n° 1-2, p. 117-149.

Valid name: *Ailuravus stehlinchaubi* WOOD, 1976

Paratype:

Locality: Mormont, Éclépens, Switzerland.

Mt.1567 Upper left M1

Comment: The holotype (MGL 39559) is at the Cantonal Museum of Geology in Lausanne, Switzerland.

THERIDOMYIDAE ALSTON, 1876

8 - *Adelomys cartieri*
STEHLIN & SCHAUB, 1951

STEHLIN H.G. & SCHAUB S. (1951).- Die Trigonodontie der simplicidentaten Nager.- *Schweizerische Palaeontologische Abhandlungen*, vol. 67, 385 p.

Valid name: *Protadelomys cartieri* (STEHLIN & SCHAUB, 1951)

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Holotype:

Ef.1002 Upper right P4-M3

Paratypes:

Eg.587 Lower right p4-m3

Eg.596 Fragment of right maxilla with P4-M2

Eg.597 Upper right M3

Eg.601 Left maxilla with P4-M2

Eh.592 Left maxilla with m1-m2

Ek.249 Upper left M1 and M2

Em.21 Fragment of right mandible with p4-m3

H.E.6 Lower left molar

H.E.14 Right maxilla with M1-M2 and alveoli for M3

MYOXIDAE GRAY, 1821

9 - *Gliravus majori*
STEHLIN & SCHAUB, 1951

STEHLIN H.G. & SCHAUB S. (1951).- Die Trigonodontie der simplicidentaten Nager.- *Schweizerische Palaeontologische Abhandlungen*, vol. 67, 385 p.

Valid name: *Gliravus majori* STEHLIN & SCHAUB, 1951

Locality: Phosphorites du Quercy, France.

Holotype:

Q.P.625 Partial skull with left P4-M2 and right P3-M3

10 - *Gliravus priscus*
STEHLIN & SCHAUB, 1951

STEHLIN H.G. & SCHAUB S. (1951).- Die Trigonodontie der simplicidentaten Nager.- *Schweizerische Palaeontologische Abhandlungen*, vol. 67, 385 p.

Valid name: *Glamys priscus* (STEHLIN & SCHAUB, 1951)

Locality: La Débruge, France.

Lectotype (BOSMA & de BRUIJN, 1979):

Db.486C Lower left m2

Paralectotypes:

Db.486A Lower left d4

Db.486B Lower left p4

Db.486D Lower right m3

Db.656 Upper right M

Locality: Mormont, Switzerland

Mt.386 Right mandible with i and p4-m3

Order: Cimolesta MCKENNA, 1975

APATEMYIDAE MATTHEW, 1909

11 - *Carcinella sigei*
KOENIGSWALD *et alii*, 2009

KOENIGSWALD W. von, RUF I. & GINGERICH P.D. (2009).- Cranial morphology of a new apatemyid, *Carcinella sigei* n. gen. n. sp. (Mammalia, Apatortheria) from the late Eocene of southern France.- *Palaeontographica, Abt. A.*, vol. 288, n° 1-3, p. 53-91.

Valid name: *Carcinella sigei* KOENIGSWALD *et alii*, 2009

Locality: Phosphorites du Quercy, France.

Holotype:

Q.H.922 Skull

Comment: this is the type species of genus *Carcinella*.

12 - *Heterochiromys fortis* (STEHLIN, 1916)

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoerus* - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.

Valid name: *Heterohyus armatus* (GERVAIS, 1848)

Locality: Egerkingen, Switzerland.

Holotype:

Eh.753 Fragment of left mandible with embedded i

Paratype:

Eh.606 Upper I

13 - *Heterochiromys gracilis* (STEHLIN, 1916)

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoerus* - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.

Valid name: *Heterohyus gracilis* (STEHLIN, 1916)

Locality: Egerkingen, Switzerland.

Holotype:

Eh.757 Right mandible with i

Paratypes:

Eh.755 Left mandible with i

Eh.603 Lower left i

Eh.604 Upper I

Eh.605 Upper I

Eh.607 Upper I

14 - *Calamodon europaeus*
RÜTIMEYER, 1890

RÜTIMEYER L. (1890).- Übersicht der eocänen Fauna von Egerkingen nebst einer Erwiderung an Prof. E.D. COPE.- *Verhandlungen der Naturforschenden Gesellschaft in Basel*, vol. 9, p. 331-362.

Valid name: *Heterohyus europaeus* (RÜTIMEYER, 1890)

Syntypes:

Locality: Egerkingen, Switzerland.

Ef.982 Lower right i

Ef.983 Left mandible with alveoli for I and m3

Ef.984 Lower left i

Ef.985 Lower left i

Ef.986 Lower left i

15 - *Phenacodus minor*
RÜTIMEYER, 1891 (Fig. 1)

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Heterohyus europaeus* (RÜTIMEYER, 1891)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.990 Upper right molar



Figure 1: NMB Ef.990: Holotype of *Phenacodus minor* RÜTIMEYER, 1891, now known as *Heterohyus europaeus* (RÜTIMEYER, 1891). Scale bar: 10 mm.

PANTOLESTIDAE COPE, 1884

**16 - *Buxolestes hammeli*
JAEGER, 1970 (Fig. 2)**

JAEGER J.-J. (1970).- Pantolestidae nouveaux (Mammalia, Insectivora) de l'Éocène moyen de Bouxwiller (Alsace).- *Palaeovertebrata*, vol. 3, n° 3, p. 63-82.

Valid name: *Buxolestes hammeli* JAEGER, 1970

Locality: Bouxwiller, France.

Holotype:

Bchs.100 Left mandible with c, p2-m3

Paratypes:

Bchs.322 Upper right M2

Bchs.324 Lower right m2

Bchs.325 Lower right m3

Bchs.483 Upper right P2-M2



Figure 2: NMB Bchs.100: Holotype of *Buxolestes hammeli* JAEGER, 1970. Scale bar: 10 mm.

PAROXYCLAENIDAE WEITZEL, 1933

**17 - *Russellites simplicidens*
van VALEN, 1965**

VALEN, L.M. van (1965a).- Paroxyclaenidae, an extinct family of Eurasian Mammals.- *Journal of Mammalogy*, vol. 46, n° 3, p. 388-397.

Valid name: *Vulpavoides simplicidens* (van VALEN, 1965)

Locality: Egerkingen, Switzerland.

Holotype:

Em.20 Fragment of left maxilla with M1-M2, and alveoli for p3

Order: Creodonta COPE, 1875

HYAENODONTIDAE LEIDY, 1869

**18 - *Prototomus torvidus*
van VALEN, 1965**

VALEN L.M. van (1965b).- Some European Proviverrini (Mammalia, Delta-theridia).- *Palaeontology*, vol. 8, n° 4, p. 638-665.

Valid name: *Allopterodon torvidus* (van VALEN, 1965)

Locality: Egerkingen, Switzerland.

Holotype:

En.522 Right maxilla with P4-M1

Paratype:

En.172 Right mandible

**19 - *Prodissopsalis phonax*
van VALEN, 1965**

VALEN L.M. van (1965b).- Some European Proviverrini (Mammalia, Delta-theridia).- *Palaeontology*, vol. 8, n° 4, p. 638-665.

Valid name: *Allopterodon torvidus* (van VALEN, 1965)

Locality: Egerkingen, Switzerland.

Holotype:

Em.16 Skull fragment

Content: POLLY & LANGE-BADRÉ (1993) synonymised it with *Allopterodon torvidus*.

**20 - *Proviverra typica*
RÜTIMEYER, 1862**

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Proviverra typica* RÜTIMEYER, 1862

Locality: Egerkingen, Switzerland.

Lectotype (van VALEN, 1965):

Em.18b Skull

Paralectotype:

Em.18a Skull with brain

**21 - *Prorhyzaena egerkingiae*
RÜTIMEYER, 1891**

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Proviverra typica* (RÜTIMEYER, 1862)

Locality: Egerkingen, Switzerland.

Holotype:

En.162 Left maxilla with P4-M2

**22 - *Pseudosinopa ruetimeyeri*
DÉPÉRET, 1917 (Fig. 3)**

DÉPÉRET C. (1917).- Monographie de la faune de Mammifères fossiles du Ludien inférieur d'Euzet-les-Bains (Gard).- *Annales de l'Université de Lyon*, (nouvelle série), I. Sciences, Médecine, vol. 40, p. 1-288.

Valid name: *Cynohyaenodon ruetimeyeri* (DÉPÉRET, 1917)

Locality: Egerkingen, Switzerland.

Lectotype (van VALEN, 1965):

En.188 Left mandible



Figure 3: NMB En.188: Lectotype of *Pseudosinopa ruetimeyeri* DÉPÉRET, 1917, now known as *Cynohyaenodon ruetimeyeri* (DÉPÉRET, 1917). Scale bar: 10 mm.

Paralectotype:

En.190 Left mandible with m1-m3

**23 - *Cynhyaenodon trux*
van VALEN, 1965**

VALEN L.M. van (1965b).- Some European Proviverrini (Mammalia, Delta-theridia).- *Palaeontology*, vol. 8, n° 4, p. 638-665.

Valid name: *Cynhyaenodon trux* van VALEN, 1965

Locality: Egerkingen γ, Switzerland.

Holotype:

En.111 Left Maxilla with P2 and M1-M2

Paratype:

Em.17 Fragment of mandible

**24 - *Praecodens acutus*
LANGE-BADRE, 1981**

LANGE-BADRE B. (1981).- Les créodontes (Mammalia) de Bouxwiller (Bas-Rhin).- *Annales de Paléontologie*, vol. 67, n° 1, p. 21-32.

Valid name: *Praecodens acutus* LANGE-BADRÉ, 1981

Locality: Bouxwiller, France.

Holotype:

Bchs.266 Upper right molar

**25 - *Paracynhyaenodon schlosseri*
MARTIN, 1906**

MARTIN R. (1906).- Revision der obereocänen und unteroligocänen Creodonten Europas - Ein Katalog der Materialien von Basel, Genf und Montauban.- *Revue suisse de Zoologie, Annales de la Société zoologique Suisse*, vol. 14, n° 3, p. 405-600.

Valid name: *Paracynhyaenodon schlosseri* MARTIN, 1906

Locality: Phosphorites du Quercy, France.

Lectotype (LANGE-BADRE, 1979):

Q.B.393 Right mandible with m1-m3

26 - *Alienetherium buxvilleri*

LANGE-BADRÉ, 1981

LANGE-BADRE B. (1981).- Les créodontes (Mammalia) de Bouxwiller (Bas-Rhin).- *Annales de Paléontologie*, vol. 67, n° 1, p. 21-32.

Valid name: *Alienetherium buxvilleri* LANGE-BADRÉ, 1981

Locality: Bouxwiller, France.

Holotype:

Bchs.481 Left mandible with p2-p4 and m2-m3

27 - *Prodissopsalis theriodis*

van VALEN, 1965 (Fig. 4)

VALEN L.M. van (1965b).- Some European Proviverrini (Mammalia, Delta-theridia).- *Palaeontology*, vol. 8, n° 4, p. 638-665.

Valid name: *Eurotherium theriodis* (van VALEN, 1965)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Em.12 Skull

Paratypes:

Em.14b Left mandible with m3



Figure 4: NMB Em.12: Holotype of *Prodissopsalis theriodis* van VALEN, 1965 now known as *Eurotherium theriodis* (van VALEN, 1965). Scale bar: 10 mm.

En.193 Upper left M2

En.247 Upper M1

28 - *Pterodon magnus*

RÜTIMEYER, 1891

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Paroxyaena galliae* (FILHOL, 1881)

Locality: Moutier, Switzerland.

Holotype:

Ms.102 Upper left M2

29 - *Hyaenodon ambiguous*

MARTIN, 1906

MARTIN R. (1906).- Revision der obereocänen und unteroligocänen Creodonten Europas - Ein Katalog der Materialien von Basel, Genf und Montauban.- *Revue suisse de Zoologie, Annales de la Société zoologique Suisse*, vol. 14, n° 3, p. 405-600.

Valid name: *Hyaenodon gervaisi* MARTIN, 1906

Locality: Phosphorites du Quercy, Lot, France.

Lectotype (LANGE-BADRE, 1979):

O.C.993 Right maxilla with P1-P4, roots for M1 and alveoli for M2

Order: Erinaceomorpha GREGORY, 1910

AMPHILEMURIDAE HILL, 1953

30 - *Alsaticopithecus leemanni*

(HÜRZELER, 1947) (Fig. 5)

HÜRZELER J. (1947).- *Alsaticopithecus leemanni* nov. gen. nov. spec., ein neuer Primate aus dem unteren Lutétien von Buchsweiler im Unterelsass.- *Eclogae Geologicae Helvetiae*, vol. 40, n° 2, p. 343-356.

Valid name: *Amphilemur leemanni* (HÜRZELER, 1947)

Locality: Bouxwiller, France.

Holotype:

Bchs.560a Lower c

Bchs.560e Upper right P1-M3
Bchs.560b Upper P4
Bchs.560c Upper right I
Bchs.560d Upper C
Bchs.560e Upper P4-M3
Bchs.560f Upper right M2-M3
Bchs.560g Lower left p4-m3
Bchs.560h Lower right m1-m3
Bchs.560i Upper P3
Bchs.560j Lower p3
Bchs.560k Lower p1



Figure 5: NMB Bchs.560e: Part of holotype of *Alsaticopithecus leemanni* (HÜRZELER, 1947) now known as *Amphilemur leemanni* (HÜRZELER, 1947). Scale bar: 10 mm.

Paratypes:

Bchs.223 Left mandible p4-m3
Bchs.320 Lower left m
Bchs.321 Lower right molar
Bchs.496 Lower left molar
Bchs.561 Fragment of right mandible with a molar

Comment: there are several specimens for the holotype; HÜRZELER (1947) indicates that they were found isolated but in such a close vicinity (without doubles) that they most probably belong to the same individual. They were all given the single number Bchs. 560 in this publication.

**31 - *Gesneropithex peyeri*
HÜRZELER, 1946**

HÜRZELER J. (1946).- *Gesneropithex peyeri* nov. gen. nov. spec., ein neuer Primate aus dem Ludien von Gösgen (Solothurn).- *Eclogae Geologicae Helvetiae*, vol. 39, n° 2, p. 354-361.

Valid name: *Gesneropithex peyeri* HÜRZELER, 1946

Syntypes:

Locality: Gösgen-Pumpstation, Switzerland.

G.P.127 Upper right M2

G.P.128 Left mandible with p4-m2

G.P.129 Right mandible with p4

G.P.130 Left mandible with m1

G.P.131 Lower left m1

G.P.163 Lower left m1

DIMYLIDAE SCHLOSSER, 1887

**32 - *Exoedaenodus schaubi*
HÜRZELER, 1944**

HÜRZELER J. (1944).- Beiträge zur Kenntnis der Dimylidae.- *Schweizerische Palaeontologische Abhandlungen*, vol. 64, p. 1-44.

Valid name: *Exoedaenodus schaubi* HÜRZELER, 1944

Locality: Phosphorites du Quercy, Tarn-et-Garonne, France.

Holotype:

Q.H.432 Right mandible with p4-m3 and alveoli for i2-p3

Order: Soricomorpha GREGORY, 1910

NYCTITHERIIDAE SIMPSON, 1928

**33 - *Saturninia gracilis*
STEHLIN, 1940**

STEHLIN H.G. (1940).- Zur Stammesgeschichte der Soriciden.- *Eclogae Geologicae Helvetiae*, vol. 33, n° 2, p. 298-306.

Valid name: *Saturninia gracilis* STEHLIN, 1940

Locality: Gösgen Kanal, Switzerland.

Lectotype (SIGÉ, 1976):

G.C.879 Left mandible with p4-m3

Paralectotypes:

G.C.364 Left mandible with p2-m1

G.C.365 Left maxilla with m2-m3

G.C.547 Mandible with m1

G.C.548 Mandible with p4-m1

G.C.549 Mandible with p2-m2

G.C.880 Right andible with m1-m3 and alveola for i1

G.C.885 Left mandible with m1-m3

Db.488 Right maxilla with P4-M2

Db.520a Right mandible with m2-m3

Db.537a Right mandible with p3-m1

Db.592a Right mandible with p4-m3

Db.593a Left mandible with p4-m2

Db.594a Right mandible with p4-m1 and m3

Db.595a Right mandible with p4-m1

Db.597a Left mandible with m1-m2

Db.598a Lower right p4

Db.599a Lower right p4

Db.600a Left mandible

Db.615 Fragment of m/p

Db.616 Fragment of m/p

Db.618 Fragment of m/p
Db.619 Fragment of m/p
Db.623 Upper right M2
Db.624 Upper right P4
Db.664 Lower left i2
Db.665 Upper left I1
Db.708 Upper right molar
Db.762 Right maxilla with P4
Db.952 Lower left i2
Db.953 Upper left M3
Db.954 Upper right molar

**34 - *Saturninia rigassii*
HOOKER & WEIDMANN, 2000**

HOOKER J. & WEIDMANN M. (2000).- The Eocene mammal faunas of Mormont, Switzerland: systematic revision and resolution of dating problems.- *Schweizerische Paläontologische Abhandlungen*, vol. 120, 140 p.

Valid name: *Saturninia rigassii* HOOKER & WEIDMANN, 2000

Locality: Éclépens B, Switzerland.

Holotype:

Mt.1229 Left mandible with p4-m2

**35 - *Paradoxonycteris soricodon*
REVILLIOD, 1919**

REVILLIOD P. (1919).- L'état actuel de nos connaissances sur les Chiroptères fossiles (Note préliminaire).- *Compte Rendu des séances de la Société de Physique et d'Histoire naturelle de Genève*, vol. 36, n° 3, p. 93-96.

Valid name: *Paradoxonycteris soricodon* REVILLIOD, 1919

Locality: Mormont, Switzerland.

Holotype:

Mt.994 Right maxilla with P4-M3

Order: Chiroptera BLUMENBACH, 1779

FAMILY INDET.

**36 - *Necromantis grandis*
REVILLIOD, 1920 (Fig. 6)**

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.



Figure 6: NMB Q.H.427: Holotype of *Necromantis grandis* REVILLIOD, 1920, now known as *Necromantis adichaster* WEITHOFER, 1887. Scale bar: 10 mm.

Valid name: *Necromantis adichaster* WEITHOFER, 1887

Locality: Phosphorites du Quercy, France.

Holotype:

Q.H.427 Fragment of left mandible with m1-m2

37 - *Necromantis planifrons*
REVILLIOD, 1920

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Necromantis adichaster* WEITHOFER, 1887

Locality: Phosphorites du Quercy, France.

Holotype:

Q.S.799 Skull fragment

PALAEOCHIROPTERYGIDAE REVILLIOD, 1917

38 - *Nycterobius gracilis*
REVILLIOD, 1919

REVILLIOD P. (1919).- L'état actuel de nos connaissances sur les Chiroptères fossiles (Note préliminaire).- *Compte Rendu des séances de la Société de Physique et d'Histoire naturelle de Genève*, vol. 36, n° 3, p. 93-96.

Valid name: *Stehlinia gracilis gracilis* (REVILLIOD, 1919)

Locality: Phosphorites du Quercy, France.

Holotype:

Q.P.632 Rostrum

39 - *Pseudorhinolophus egerkingensis*
REVILLIOD, 1922

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Stehlinia gracilis* (REVILLIOD, 1919)

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.995 Left maxilla with M1-M3

Ef.998 Fragment of maxilla with broken M2

Comment: REVILLIOD (1922) defined species *Pseudorhinolophus egerkingensis* on these 2 specimens. A third one included in the syntypes' list, Ef. 994, is now considered to belong to a new taxon described in MAÏTRE (2008) and waiting for formal publication.

40 - *Paleonycteris minor*
REVILLIOD, 1922

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Stehlinia minor* (REVILLIOD, 1922)

Locality: Phosphorites du Quercy, France.

Holotype:

Q.P.752 Right mandible with p4-m3 and alveoli

41 - *Paleonycteris pusilla*
REVILLIOD, 1922

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Stehlinia pusilla* (REVILLIOD, 1922)

Locality: Egerkingen a, Switzerland.

Holotype:

Ef.993 Left mandible with m2, (m3), and alveoli for i1-m1

42 - *Paleonycteris quercyi*
REVILLIOD, 1922

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Stehlinia quercyi* (REVILLIOD, 1922)

Locality: Phosphorites du Quercy, France.

Holotype:

Q.P.727 Right mandible with c-m3

43 - *Paleonycteris rutimeyeri*
REVILLIOD, 1922

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Stehlinia rutimeyeri* (REVILLIOD, 1922)

Locality: Egerkingen β , Switzerland.

Holotype:

Ef.992 Fragment of left mandible with P3-M3

Comment: REVILLIOD (1922) names the new species "*Paleunycteris rütimeyeri*" (now *Stehlinia rutimeyeri*), a proper way of spelling it would be "*S. ruetimeyeri*" but common usage and the last revision of the species (MAÎTRE, 2008) spell it "*S. rutimeyeri*".

EMBALLONURIDAE GERVAIS (*IN DE CASTELNAU*, 1855)

44 - *Vespertiliavus gracilis* REVILLIOD, 1920

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vespertiliavus gracilis* REVILLIOD, 1920

Locality: Phosphorites du Quercy, Tarn-et-Garonne, France.

Lectotype (SIGÉ, 1988):

Q.P.977 Left mandible with p2 and p4-m2

Paralectotypes:

Q.H.101 Palate with teeth

Q.H.385 Fragment of mandible

Q.P.728 Anterior part of skull with upper teeth

Q.P.816 Fragment of mandible

45 - *Vespertiliavus schlosseri* REVILLIOD, 1920

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vespertiliavus schlosseri* REVILLIOD, 1920

Paralectotypes:

Locality: Phosphorites du Quercy, France.

Q.P.773 Mandible

Q.P.813 Mandible

Locality: Sainte-Néboule de Béduer, Phosphorites du Quercy, Lot, France.

Q.P.793a Mandible

Locality: Mouillac, Phosphorites du Quercy, Tarn-et-Garonne, France.

Q.P.766 Fragment of right mandible with p1-m1

Comment: MAÎTRE (2008) designated specimen numbered "Quercy 1" from the collections of the Natural History Museum Geneva as lectotype.

46 - *Vespertiliavus wingei*
REVILLIOD, 1920

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vespertiliavus wingei* REVILLIOD, 1920

Locality: Phosphorites du Quercy, France.

Lectotype (MAÎTRE, 2008):

Q.P.855 Fragment of maxilla with P3-M3

Paralectotypes:

Q.H.48 Mandible

Q.H.412 Mandible

Q.H.421 Fragment of mandible

Q.H.422 Fragment of mandible

Q.H.423 Fragment of mandible

Q.H.425 Fragment of mandible

Q.H.426 Fragment of mandible

Q.H.429 Fragment of mandible

Q.H.430 Fragment of mandible

Q.H.431 Fragment of mandible

Q.P.730 Fragment of maxilla

Q.P.731 Fragment of right maxilla with P3-M1

RHINOLOPHIDAE GRAY, 1825

**47 - *Rhinolophus priscus*
REVILLIOD, 1920**

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vaylatsia prisca* (REVILLIOD, 1920)

Locality: Mormont, Éclépens, Switzerland.

Lectotype (HOOKER & WEIDMANN, 2000):

Mt.992 Left mandible with m3-p1 and alveoli for p2, p3, c

**48 - *Rhinolophus priscus*
REVILLIOD, 1920**

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vaylatsia pellisiei* MAITRE, 2008

Locality: Mormont, Éclépens, Switzerland.

Holotype:

Q.H.200 Fragment of rostrum

Paratypes:

Q.H.88 Fragment of mandible

Q.H.228 Fragment of rostrum

Q.P.747 Fragment of mandible

Comment: this species is published in MAITRE (2008), a PhD thesis.

**49 - *Rhinolophus pumilio*
REVILLIOD, 1920**

REVILLIOD P. (1920).- Contribution à l'étude des Chiroptères des terrains tertiaires (2ème partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 44, p. 61-130.

Valid name: *Vaylatsia pumilio* (REVILLIOD, 1920)

Locality: Phosphorites du Quercy, Tarn-et-Garonne, France.

Holotype:

Q.P.999 Fragment of right mandible with p4-m3.

50 - *Pseudorhinolophus schlosseri*
REVILLIOD, 1917

REVILLIOD P. (1917).- Contribution à l'étude des Chiroptères des terrains tertiaires (1ère partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 43, p. 1-60.

Valid name: *Hipposideros (Pseudorhinolophus) schlosseri schlosseri* (REVILLIOD, 1917)

Locality: Phosphorites du Quercy, France.

Lectotype (SIGÉ, 1978):

Q.P.875 Right maxilla with C-M3

Paralectotypes:

Q.D.101 Humerus

Q.D.102 Humerus

Q.D.104 Humerus

Q.D.106 Humerus right

Q.D.107 Fragment of Humerus

Q.D.116 Humerus

Q.D.117 Humerus

Q.D.133 Fragment of Humerus

Q.D.150 Humerus

Q.D.151 Fragment of Humerus

Q.D.152 Humerus

Q.D.153 Humerus

Q.D.157 Fragment of Humerus

Q.D.158 Fragment of Humerus

Q.D.163 Humerus

Q.D.165 Fragment of Humerus

Q.D.166 Humerus

Q.D.168 Humerus

Q.D.169 Humerus

Q.D.171 Humerus

Q.D.172 Femur
Q.D.173 Femur
Q.D.174 Humerus
Q.D.593 Humerus
Q.D.1000 Femur
Q.D.1002 Femur
Q.H.7 Fragment of mandible
Q.H.14 Fragment of mandible
Q.H.15 Fragment of mandible
Q.H.16 Fragment of mandible
Q.H.19 Fragment of mandible
Q.H.20 Fragment of mandible
Q.H.21 Fragment of mandible
Q.H.22 Fragment of mandible
Q.H.25 Fragment of mandible
Q.H.26 Fragment of mandible
Q.H.27 Fragment of mandible
Q.H.28 Fragment of mandible
Q.H.29 Fragment of mandible
Q.H.30 Fragment of mandible
Q.H.31 Fragment of mandible
Q.H.32 Fragment of mandible
Q.H.33 Fragment of mandible
Q.H.34 Fragment of mandible
Q.H.35 Fragment of mandible
Q.H.36 Fragment of mandible
Q.H.37 Fragment of mandible
Q.H.38 Fragment of mandible
Q.H.39 Fragment of mandible
Q.H.40 Fragment of mandible
Q.H.41 Fragment of mandible
Q.H.42 Fragment of mandible

Q.H.47 Fragment of mandible
Q.H.64 Fragment of mandible
Q.H.66 Fragment of mandible
Q.H.68 Fragment of mandible
Q.H.69 Fragment of mandible
Q.H.70 Fragment of mandible
Q.H.71 Fragment of mandible
Q.H.73 Fragment of mandible
Q.H.74 Fragment of mandible
Q.H.75 Fragment of mandible
Q.H.76 Fragment of mandible
Q.H.77 Fragment of mandible
Q.H.78a Fragment of mandible
Q.H.80 Fragment of mandible
Q.H.82 Fragment of mandible
Q.H.83 Fragment of mandible
Q.H.85a Fragment of mandible
Q.H.90 Humerus
Q.H.91c Rostrum
Q.H.99 Fragment of rostrum
Q.H.106 Skull fragment with mandible
Q.H.107 Fragment of rostrum
Q.H.108 Fragment of rostrum
Q.H.109 Fragment of rostrum
Q.H.110 Fragment of rostrum
Q.H.111 Fragment of rostrum
Q.H.112 Fragment of rostrum
Q.H.113 Fragment of rostrum
Q.H.114 Fragment of rostrum
Q.H.116 Fragment of rostrum
Q.H.118 Fragment of rostrum
Q.H.120 Fragment of rostrum

Q.H.122 Fragment of rostrum
Q.H.126 Fragment of rostrum
Q.H.128 Fragment of rostrum
Q.H.129 Fragment of rostrum
Q.H.130 Fragment of rostrum
Q.H.131 Fragment of rostrum
Q.H.132 Fragment of rostrum
Q.H.133 Fragment of rostrum
Q.H.137 Fragment of rostrum
Q.H.138 Fragment of rostrum
Q.H.139 Fragment of rostrum
Q.H.140 Fragment of rostrum
Q.H.142 Fragment of rostrum
Q.H.143 Fragment of rostrum
Q.H.144 Fragment of rostrum
Q.H.145 Fragment of rostrum
Q.H.147 Fragment of rstrum
Q.H.148 Fragment of rostrum
Q.H.149 Fragment of rostrum
Q.H.150 Fragment of rostrum
Q.H.151 Fragment of rostrum
Q.H.152 Fragment of rostrum
Q.H.153 Fragment of rostrum
Q.H.154 Fragment of rostrum
Q.H.155 Fragment of rostrum
Q.H.156 Fragment of rostrum
Q.H.157 Fragment of rostrum
Q.H.161 Fragment of rostrum
Q.H.162 Fragment of rostrum
Q.H.165 Fragment of rostrum
Q.H.168 Fragment of rostrum
Q.H.169 Fragment of rostrum

Q.H.170 Fragment of rostrum
Q.H.171 Fragment of rostrum
Q.H.172 Fragment of rostrum
Q.H.173 Fragment of rostrum
Q.H.178 Fragment of rostrum
Q.H.190 Fragment of rostrum
Q.H.191 Fragment of rostrum
Q.H.194 Fragment of rostrum
Q.H.198 Fragment of rostrum
Q.H.201 Fragment of rostrum
Q.H.202 Fragment of rostrum
Q.H.203 Fragment of rostrum
Q.H.206 Fragment of rostrum
Q.H.207 Fragment of rostrum
Q.H.208 Fragment of rostrum
Q.H.208a Fragment of rostrum
Q.H.210 Fragment of rostrum
Q.H.213 Fragment of rostrum
Q.L.234 Humerus
Q.L.527 Humerus
Q.P.637 Fragment of mandible
Q.P.638 Fragment of mandible
Q.P.639 Fragment of mandible
Q.P.643 Mandible
Q.P.644 Mandible
Q.P.645 Mandible
Q.P.647 Fragment of mandible
Q.P.648 Fragment of mandible
Q.P.649 Fragment of mandible
Q.P.650 Fragment of mandible
Q.P.651 Fragment of mandible
Q.P.652 Fragment of mandible

Q.P.654 Fragment of mandible
Q.P.655 Fragment of mandible
Q.P.657 Fragment of mandible
Q.P.658 Fragment of mandible
Q.P.659 Fragment of mandible
Q.P.660 Fragment of mandible
Q.P.661 Fragment of mandible
Q.P.662 Fragment of mandible
Q.P.664 Fragment of mandible
Q.P.674 Fragment of mandible
Q.P.690 Fragment of mandible
Q.P.698 Fragment of mandible
Q.P.732 Fragment of mandible
Q.P.733 Fragment of mandible
Q.P.734 Fragment of mandible
Q.P.735 Fragment of mandible
Q.P.736 Fragment of mandible
Q.P.737 Fragment of mandible
Q.P.738 Fragment of mandible
Q.P.739 Fragment of mandible
Q.P.741 Fragment of mandible
Q.P.742 Fragment of mandible
Q.P.744 Fragment of mandible with p4-m2, with pathology
Q.P.745 Fragment of mandible
Q.P.746 Fragment of mandible
Q.P.749 Fragment of mandible
Q.P.750 Fragment of mandible
Q.P.751 Fragment of mandible
Q.P.753 Fragment of mandible
Q.P.754 Fragment of mandible
Q.P.755 Fragment of mandible
Q.P.756 Fragment of mandible

Q.P.758 Fragment of mandible
Q.P.759 Fragment of mandible
Q.P.760 Fragment of mandible
Q.P.761 Fragment of mandible
Q.P.762 Fragment of mandible
Q.P.764 Fragment of mandible
Q.P.764a Fragment of mandible
Q.P.787 Rostrum
Q.P.806 Fragment of rostrum
Q.P.807 Fragment of rostrum
Q.P.811 Fragment of rostrum
Q.P.819 Fragment of mandible
Q.P.820 Fragment of mandible
Q.P.821 Fragment of mandible
Q.P.822 Fragment of mandible
Q.P.823 Fragment of mandible
Q.P.824 Fragment of mandible
Q.P.825 Fragment of mandible
Q.P.826 Fragment of mandible
Q.P.828 Mandible
Q.P.829 Mandible
Q.P.830 Mandible
Q.P.831 Mandible
Q.P.832 Mandible
Q.P.833 Mandible
Q.P.834 Mandible
Q.P.835a Mandible
Q.P.838a Mandible
Q.P.847 Mandible
Q.P.852 Fragment of rostrum
Q.P.856 Fragment of mandible
Q.P.858 Fragment of mandible

Q.P.860 Fragment of mandible
Q.P.861 Fragment of mandible
Q.P.862 Fragment of mandible
Q.P.865 Skull fragment
Q.P.870 Fragment of rostrum
Q.P.871 Fragment of rostrum
Q.P.872 Fragment of rostrum
Q.P.873 Fragment of rostrum
Q.P.876 Fragment of rostrum
Q.P.877 Fragment of rostrum
Q.P.878 Fragment of rostrum
Q.P.879 Fragment of rostrum
Q.P.880 Fragment of rostrum
Q.P.881 Fragment of rostrum
Q.P.882 Fragment of rostrum
Q.P.883 Fragment of rostrum
Q.P.885 Fragment of rostrum
Q.P.887 Fragment of rostrum
Q.P.888 Fragment of rostrum
Q.P.890 Fragment of mandible
Q.P.891 Fragment of mandible
Q.P.892 Fragment of mandible
Q.P.893 Fragment of mandible
Q.P.894 Fragment of mandible
Q.P.895 Fragment of mandible
Q.P.896 Fragment of mandible
Q.P.897 Fragment of mandible
Q.P.898 Fragment of mandible
Q.P.900 Fragment of mandible
Q.P.901 Fragment of mandible
Q.P.902 Fragment of mandible
Q.P.903 Fragment of mandible

Q.P.904 Fragment of mandible
Q.P.905 Fragment of mandible
Q.P.906 Fragment of mandible
Q.P.907 Fragment of mandible
Q.P.908 Fragment of mandible
Q.P.909 Fragment of mandible
Q.P.910 Fragment of mandible
Q.P.911 Fragment of mandible
Q.P.912 Fragment of mandible
Q.P.913 Fragment of mandible
Q.P.914 Fragment of mandible
Q.P.915 Fragment of mandible
Q.P.916 Mandible
Q.P.917 Mandible
Q.P.918 Mandible
Q.P.920 Fragment of mandible
Q.P.921 Fragment of mandible
Q.P.922 Fragment of mandible
Q.P.923 Fragment of mandible
Q.P.924 Fragment of mandible
Q.P.925 Fragment of mandible
Q.P.926 Fragment of mandible
Q.P.927 Fragment of mandible
Q.P.928 Fragment of mandible
Q.P.929 Fragment of mandible
Q.P.930 Fragment of mandible
Q.P.931 Fragment of mandible
Q.P.932 Fragment of mandible
Q.P.933 Fragment of mandible
Q.P.934 Fragment of mandible
Q.P.935 Fragment of mandible
Q.P.936 Fragment of mandible

Q.P.938 Mandible
Q.P.940 Fragment of mandible
Q.P.941 Mandible
Q.P.943 Fragment of mandible
Q.P.944 Fragment of mandible
Q.P.945 Fragment of mandible
Q.P.946 Fragment of mandible
Q.P.947 Fragment of mandible
Q.P.948 Fragment of mandible
Q.P.949 Fragment of mandible
Q.P.950 Fragment of mandible
Q.P.951 Fragment of mandible
Q.P.952 Fragment of mandible
Q.P.953 Fragment of mandible
Q.P.954 Fragment of mandible
Q.P.955 Mandible
Q.P.956 Mandible
Q.P.957 Mandible
Q.P.958 Mandible
Q.P.959 Mandible
Q.P.960 Mandible
Q.P.960a Mandible
Q.P.961 Mandible
Q.P.962 Mandible
Q.P.963 Mandible
Q.P.964 Fragment of mandible
Q.P.965 Fragment of mandible
Q.P.966 Fragment of mandible
Q.P.967 Fragment of mandible
Q.P.968 Fragment of mandible
Q.P.969 Fragment of mandible
Q.P.970 Mandible

Q.P.971 Fragment of mandible
Q.P.972 Fragment of mandible
Q.P.973 Fragment of mandible
Q.P.974 Fragment of mandible
Q.P.975 Fragment of mandible
Q.P.976a Fragment of mandible
Q.P.979 Fragment of mandible
Q.P.980 Fragment of mandible
Q.P.981 Fragment of mandible
Q.P.982 Fragment of mandible
Q.P.983 Fragment of mandible
Q.P.984 Fragment of mandible
Q.P.986 Fragment of mandible
Q.P.987a Fragment of mandible
Q.P.988 Fragment of mandible
Q.P.989 Fragment of mandible
Q.P.990 Fragment of mandible
Q.P.991 Fragment of mandible
Q.P.992 Fragment of mandible
Q.P.993 Fragment of mandible
Q.P.994 Mandible
Q.P.995 Mandible
Q.P.997 Mandible
Q.P.998 Mandible
Q.S.796 Skull fragment
Q.S.797 Skull fragment
Q.S.798 Skull fragment
Q.S.800 Fragment of rostrum
Q.S.801 Fragment of rostrum
Q.S.802 Fragment of rostrum
Q.S.803 Fragment of rostrum
Q.S.804 Mandible

Q.S.805 Fragment of rostrum
Q.S.806 Fragment of rostrum
Q.S.808 Fragment of rostrum
Q.S.809 Fragment of rostrum
Q.S.810 Fragment of rostrum
Q.S.942 Fragment of Humerus
Q.U.68 Fragment of Humerus
Q.U.135 Fragment of Humerus
Q.U.196 Fragment of Humerus
Q.U.226 Fragment of Femur
Q.U.263 Rostrum
Q.U.264 Fragment of rostrum
Q.U.265a Skull fragment
Q.U.267 Fragment of rostrum
Q.U.269 Fragment of rostrum
Q.U.271 Rostrum
Q.U.274 Rostrum
Q.U.276 Rostrum
Q.U.983 Fragment of Humerus
Q.V.72 Humerus
Q.V.370 Rostrum
Q.V.490a Humerus
Q.V.509 Fragment of Femur
Q.W.536 Fragment of mandible
Q.W.621a Fragment of mandible
Q.W.622a Left distal Humerus
Q.W.628 Left maxilla with P4-M3

51 - *Pseudorhinolophus weithoferi*
REVILLIOD, 1917

REVILLIOD P. (1917).- Contribution à l'étude des Chiroptères des terrains tertiaires (1ère partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 43, p. 1-60.

Valid name: *Hipposideros (Pseudorhinolophus) weithoferi* (REVILLIOD, 1917)

Locality: Phosphorites du Quercy, France.

Lectotype (MAITRE, 2008):

Q.P.804 Right mandible

Paralectotypes:

Q.H.51 Mandible

Q.H.55 Mandible

Q.H.56 Mandible

Q.H.57 Mandible

Q.H.59 Mandible

Q.H.61 Mandible

Q.H.428 Mandible

Q.P.634 Mandible

Q.P.672a Fragment of mandible

Q.P.675 Fragment of mandible

Q.P.678 Fragment of mandible

Q.P.687 Mandible

Q.P.713/Q.P.723 Fragments of mandible associated

Q.P.719 Mandible

Q.P.810 Skull fragment

Q.P.842 Mandible

Q.P.844 mandible

Q.P.845 Right mandible with m1-m3

Q.P.846 Mandible

Q.P.850 Mandible

Q.P.859 Fragment of mandible

Locality: Bach, Lot, Phosphorites du Quercy, France.

Q.H.102 Skull fragment

Q.W.535 Mandible

Locality: Mouillac, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.H.174 Skull fragment

Q.H.177 Skull fragment

Q.H.182 Skull fragment

Q.H.187/Q.H.192 Skull fragments associated

Q.H.193 Skull fragment

Q.H.197 Skull fragment

Q.H.199 Skull fragment

Q.H.205 Skull fragment

Q.P.765 Mandible

Q.P.767 Mandible

Q.P.768 Mandible

Q.P.769 Mandible

Q.P.770 Mandible

Q.P.771 Mandible

Q.P.776 Mandible

Q.P.777 Skull

52 - *Palaeophyllophora quercyi* REVILLIOD, 1917

REVILLIOD P. (1917).- Contribution à l'étude des Chiroptères des terrains tertiaires (1ère partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 43, p. 1-60.

Valid name: *Palaeophyllophora quercyi* REVILLIOD, 1917

Locality: Phosphorites du Quercy, France.

Lectotype (SIGÉ, 1978):

Q.P.884 Left maxilla with P4-M3

Paralectotypes:

Locality: Phosphorites du Quercy, France.

Q.D.73a Humerus

Q.D.79a Humerus
Q.D.80 Fragment of Humerus
Q.D.85 Fragment of Humerus
Q.D.87 Fragment of Humerus
Q.D.92 Fragment of Humerus
Q.D.100 Fragment of Humerus
Q.D.134 Femur
Q.D.147 Fragment of Humerus
Q.D.159 Femur
Q.D.499 Humerus
Q.D.1001 Femur
Q.H.10 Fragment of rostrum
Q.H.23 Fragment of mandible
Q.H.25a Fragment of mandible
Q.H.43 Fragment of mandible
Q.H.44 Fragment of mandible
Q.H.50 Fragment of mandible
Q.H.52 Fragment of mandible
Q.H.53 Fragment of mandible
Q.H.58 Fragment of mandible
Q.H.60 Fragment of mandible
Q.H.61a Fragment of mandible
Q.H.62 Fragment of mandible
Q.H.63 Fragment of mandible
Q.H.163 Skull and Atlas
Q.H.163a Fragment of rostrum
Q.H.166 Fragment of rostrum
Q.H.167 Fragment of rostrum
Q.H.424a Fragment of mandible
Q.H.424b Fragment of mandible
Q.P.605 Right mandible with m1, m3
Q.P.633 Fragment of mandible

Q.P.635 Fragment of mandible
Q.P.636 Fragment of mandible
Q.P.640 Fragment of mandible
Q.P.641 Fragment of mandible
Q.P.646 Fragment of mandible
Q.P.656 Fragment of mandible
Q.P.665 Fragment of mandible
Q.P.667 Fragment of mandible
Q.P.668 Fragment of mandible
Q.P.669 Fragment of mandible
Q.P.670 Fragment of mandible
Q.P.671 Fragment of mandible
Q.P.674 Fragment of mandible
Q.P.676 Fragment of mandible
Q.P.677 Fragment of mandible
Q.P.679 Fragment of mandible
Q.P.680 Fragment of mandible
Q.P.681 Fragment of mandible
Q.P.682 Fragment of mandible
Q.P.683 Fragment of mandible
Q.P.684 Fragment of mandible
Q.P.686 Fragment of mandible
Q.P.691 Fragment of mandible
Q.P.692 Fragment of mandible
Q.P.693 Fragment of mandible
Q.P.694 Fragment of mandible
Q.P.695 Fragment of mandible
Q.P.697 Fragment of mandible
Q.P.699 Fragment of mandible
Q.P.700 Fragment of mandible
Q.P.701 Fragment of mandible
Q.P.703 Fragment of mandible

Q.P.705 Fragment of mandible
Q.P.706 Fragment of mandible
Q.P.707 Fragment of mandible
Q.P.708 Fragment of left mandible with p4-m3 and Alveoli
Q.P.709 Fragment of mandible
Q.P.711 Fragment of mandible
Q.P.712 Fragment of mandible
Q.P.714 Fragment of mandible
Q.P.715 Fragment of mandible
Q.P.716 Fragment of mandible
Q.P.720 Fragment of mandible
Q.P.721 Fragment of mandible
Q.P.722 Fragment of mandible
Q.P.724 Fragment of mandible
Q.P.726 Fragment of mandible
Q.P.818 Fragment of mandible
Q.P.839 Fragment of mandible
Q.P.840a Fragment of mandible
Q.P.849 Fragment of mandible
Q.P.854a Skull fragment and mandible
Q.S.224 Fragment of Humerus
Q.S.260 Fragment of Humerus
Q.V.499 Fragment of Humerus
Q.V.500 Fragment of Humerus
Q.V.501 Fragment of Humerus
Q.V.502 Fragment of Humerus
Q.V.503 Fragment of Humerus
Q.V.504 Fragment of Humerus
Q.V.505 Fragment of Humerus
Q.V.507 Fragment of Humerus
Q.V.508 Fragment of Humerus
Q.V.510 Fragment of Humerus

Locality: Mouillac, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.H.175 Fragment of rostrum

Q.H.176 Right mandible and fragment of left mandible; fragment of maxilla
with C

Q.H.182a Fragment of rostrum

Q.H.183 Fragment of rostrum

Q.H.186 Fragment of rostrum

Q.H.188 Fragment of maxilla

Q.H.193a Fragment of rostrum

Q.H.210a Fragment of rostrum

Q.H.211 Fragment of rostrum

Q.H.212 Fragment of rostrum

Q.H.213a Fragment of rostrum

Q.H.214 Fragment of rostrum

Q.H.215 Fragment of rostrum

Q.P.774 Fragment of mandible

Q.P.814 Fragment of mandible

Locality: Caylus, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.P.865a Skull fragment

Q.P.866 Fragment of maxilla

Q.P.868 Fragment of maxilla

Q.P.869 Fragment of maxilla

Q.P.874 Fragment of maxilla

Q.P.889 Fragment of mandible

Q.P.937 Fragment of mandible

Q.P.939 Fragment of mandible

Q.P.996 Fragment of mandible

Locality: Sainte-Néboule de Bédrier, Lot, Phosphorites du Quercy,
France.

Q.P.780 Fragment of rostrum

Q.P.782a Fragment of mandible

Locality: Bach, Lot, Phosphorites du Quercy, France.

Q.H.90b Fragment of rostrum
Q.H.91a-b Fragment of rostrum
Q.H.92 Maxilla, fragment of mandible and isolated C
Q.H.95 Fragment of rostrum
Q.H.96 Fragment of rostrum
Q.H.96a Fragment of rostrum
Q.H.98a Fragment of rostrum
Q.H.105 Fragment of rostrum
Q.H.106a Fragment of rostrum
Q.H.117 Fragment of rostrum
Q.H.117a Fragment of rostrum
Q.H.119 Fragment of rostrum
Q.H.121 Fragment of rostrum
Q.H.123 Fragment of rostrum
Q.H.124 Fragment of rostrum
Q.H.125 Fragment of rostrum
Q.H.127 Fragment of rostrum
Q.H.134 Fragment of maxilla
Q.H.135 Fragment of rostrum
Q.H.141 Fragment of rostrum
Q.H.146 Fragment of rostrum
Q.P.856a Fragment of rostrum
Q.P.857 Fragment of rostrum
Q.U.943 Fragment of Humerus

53 - *Paraphyllophora robusta*
REVILLIOD, 1922 (Fig. 7)

REVILLIOD P. (1922).- Contribution à l'étude des Chiroptères des terrains tertiaires (3ème partie et fin).- *Mémoires de la Société Paléontologique Suisse*, vol. 45, p. 131-195.

Valid name: *Paraphyllophora quercyi* REVILLIOD, 1922

Locality: Phosphorites du Quercy, France.

Holotype:

Q.P.1000 Skull and mandible



Figure 7: NMB Q.P.1000: Part of holotype (skull not figured) of *Paraphyllophora robusta* REVILLIOD, 1922, now known as *Paraphyllophora quercyi* REVILLIOD, 1922. Scale bar: 10 mm.

**54 - *Palaeophyllophora sanctaeneboulae*
REVILLIOD, 1917**

REVILLIOD P. (1917).- Contribution à l'étude des Chiroptères des terrains tertiaires (1ère partie).- *Mémoires de la Société Paléontologique Suisse*, vol. 43, p. 1-60.

Valid name: *Palaeophyllophora oltina* DELFORTRIE, 1873

Locality: Phosphorites du Quercy, France.

Lectotype (SIGE, 1978):

Q.P.780a Rostrum

Paralectotypes:

Locality: Phosphorites du Quercy, France.

Q.P.710 Fragment of mandible

Q.P.841 Fragment of mandible

Q.P.843 Fragment of mandible

Q.W.31 Fragment of rostrum

Q.W.32 Right mandible with c-m3

Locality: Mouillac, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.H.179 Skull fragment

Locality: Sainte-Néboule de Béduer, Lot, Phosphorites du Quercy,

France.

- Q.H.54 Fragment of mandible
- Q.H.46 Fragment of mandible
- Q.H.419 Fragment of mandible
- Q.P.666 Fragment of mandible
- Q.P.688 Fragment of mandible
- Q.P.689 Fragment of mandible
- Q.P.778 Skull
- Q.P.779 Skull
- Q.P.781 Skull
- Q.P.782 Skull
- Q.P.783 Skull
- Q.P.784 Skull
- Q.P.785 Skull
- Q.P.786 Skull
- Q.P.788 Skull
- Q.P.789 Skull
- Q.P.790 Skull
- Q.P.791 Skull
- Q.P.792 Skull
- Q.P.793 Skull
- Q.P.794 Skull
- Q.P.795 Skull
- Q.P.796 Skull
- Q.P.797 Skull
- Q.P.798 Skull
- Q.P.799 Skull
- Q.P.800 Skull
- Q.P.801 Skull
- Q.P.802 Skull
- Q.W.620b Skull fragment
- Q.W.623a Proximal left Femur

Q.W.624a Proximal right Femur

Q.W.625a Scapula

Locality: Bach, Lot, Phosphorites du Quercy, France.

Q.U.265 Fragment of rostrum

Q.W.629 Right mandible with c-m3

Order: Primates LINNAEUS, 1758

FAMILY INDET.

**55 - *Chasselasia eldredgei*
SCHWARTZ & TATTERSALL, 1982**

SCHWARTZ J.H. & TATTERSALL I. (1982).- Relationships of *Microadapis sciureus* (STEHLIN, 1916), and two new primate genera from the Eocene of Switzerland.- *Folia Primatologica*, vol. 39, p. 178-186.

Valid name: *Chasselasia eldredgei* SCHWARTZ & TATTERSALL, 1982

Locality: Egerkingen γ, Switzerland.

Holotype:

Eh.751 Fragment of right mandible with m1-m2

Comment: this is the type species of genus *Chasselasia*.

ADAPIDAE TROUESSART, 1829

**56 - *Caenopithecus lemuroides*
RÜTIMEYER, 1862**

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Caenopithecus lemuroides* RÜTIMEYER, 1862

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.383 Fragment of right maxilla with M1-M3

**57 - *Adapis sciureus*
STEHLIN, 1916**

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoe-*

rus - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.

Valid name: *Microadapis sciureus* (STEHLIN, 1916)

Locality: Egerkingen γ, Switzerland.

Lectotype (SZALAY, 1974):

Eh.750 Fragment of Left mandible with C-M3

Paralectotype:

Eh.772 Left upper M1/2

58 - *Adapis sudrei* GINGERICH, 1977

GINGERICH P.D. (1977).- New species of Eocene Primates and the phylogeny of European Adapidae.- *Folia Primatologica*, vol. 28, p. 60-80.

Valid name: *Adapis sudrei* GINGERICH, 1977

Paratype:

Locality: Robiac, France.

Rb.54 Left mandible with m2 and Alveoli for m3

Comment: the holotype (RBN-5120) is at the University of Montpellier II, France.

59 - *Adapis ruetimeyeri* STEHLIN, 1912

STEHLIN H.G. (1912).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, erste Hälfte: *Adapis*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 38, p. 1165-1298.

Valid name: *Adapis ruetimeyeri* STEHLIN, 1912

Syntypes:

Locality: Egerkingen α, Switzerland.

Ef.391 Lower right d4

Ef.400 Fragment of right maxilla with P2-P3

Ef.401 Fragment of left maxilla with P4-M3

Ef.402 Fragment of left mandible with p3-p4

Ef.403 Upper right d3

Ef.405 Upper left M2
Ef.407 Lower left m3
Ef.408 Upper right M3
Ef.409 Upper right P4
Ef.410 Fragment of left maxilla with P4-M2 and alveoli for M3
Ef.411 Right maxilla with M1-M3
Ef.412 Upper left P4
Ef.413 Left lower m2
Ef.414 Left lower m2
Ef.415 Right maxilla with P4-M1
Ef.416 Fragment of left mandible with p3-m2
Ef.417 Left maxilla with M2-M3
Ef.418 Right mandible with p2-m1
Ef.950 Right maxilla with M1-M3
Ef.951 Fragment of right maxilla with M1-M3
Ef.952 Fragment of right maxilla with P4-M2
Ef.953 Fragment of right maxilla with P4-M2
Ef.954 Fragment of right maxilla with M1-M2
Ef.955 Fragment of left maxilla with M3 and roots for M2
Ef.961 Upper left P4
Ef.962 Upper left M3
Ef.963 Fragment of right mandible with p3-m3
Ef.964 Fragment of right mandible with m1-m3
Ef.966 Fragment of right mandible with m1-m2
Ef.967 Fragment of right mandible with m1-m2
Ef.968 Fragment of left Left mandible with with p3-m2
Ef.969 Lower left m3
Ef.970 Fragment of left maxilla with P3-M2
Ef.971 Upper left C
Ef.972 Lower left c

Locality: Egerkingen γ, Switzerland.

Em.2 Right mandible with p2-m3

60 - *Alsatia dunaifi*
TATTERSALL & SCHWARTZ, 1983

TATTERSALL I. & SCHWARTZ J.H. (1983).- A new genus and species of adapid primate from the Middle Eocene of Alsace, and a new genus for "*Adapis ruetimeyeri* STEHLIN, 1912.- *Folia primatologica*, vol. 41, p. 231-239.

Valid name: *Europolemur klatti* (WEIGELT, 1933)

Locality: Bouxwiller, France.

Holotype:

Bsch.648 Right upper M1

Paratypes:

Bsch.274 Right upper M1/2

Bsch.305 Right upper M1/2

Bsch.315 Left upper M1/2

Comment: The original species name (TATTERSALL & SCHWARTZ, 1983) was synonymised to *Europolemur klatti* by FRANZEN (2004).

61 - *Simonsia lynnae*
SCHWARTZ & TATTERSALL, 1982

SCHWARTZ J.H. & TATTERSALL I. (1982).- Relationships of *Microadapis sciureus* (STEHLIN, 1916), and two new primate genera from the Eocene of Switzerland.- *Folia Primatologica*, vol. 39, p. 178-186.

Valid name: *Simonsia lynnae* SCHWARTZ & TATTERSALL, 1982

Locality: Egerkingen γ, Switzerland.

Holotype:

Eh.770 Fragment of left mandible with m2-m3

Paratypes:

Locality: Egerkingen γ, Switzerland.

Eh.760 Right Mandible with m2-m3

Eh.764 Fragment of left mandible with m2-m3

Locality: Egerkingen - Oberbuchsiten, Switzerland.

En.2 Fragment of right mandible with p4-m2

Locality: Egerkingen α, Switzerland.

Ef.381 Lower left m1/2

Comment: this is the type species of genus *Simonsia*

**62 - *Anchomomys stehlini*
GINGERICH, 1977**

GINGERICH P.D. (1977).- New species of Eocene Primates and the phylogeny of European Adapidae.- *Folia Primatologica*, vol. 28, p. 60-80.

Valid name: *Anchomomys stehlini* GINGERICH, 1977

Locality: Egerkingen γ, Switzerland.

Holotype:

En.1 Right mandible with p4-m3

Paratypes:

Eh.748a left mandible with m1-m2

Eh.749 Left mandible with m3

**63 - *Caenopithecus pygmaeus*
RÜTIMEYER, 1890**

RÜTIMEYER L. (1890).- Übersicht der eocänen Fauna von Egerkingen nebst einer Erwiderung an Prof. E.D. COPE.- *Verhandlungen der Naturforschenden Gesellschaft in Basel*, vol. 9, p. 331-362.

Valid name: *Anchomomys stehlini* GINGERICH, 1977

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.367 Upper right M1

Paratype:

Ef.372 Upper right M2

Comment: It was first moved to new genus *Anchomomys* by STEHLIN (1916) and later synonymised with the newly defined species *A. stehlini* by GINGERICH (1977).

**64 - *Protadapis brachyrhynchus*
(STEHLIN, 1912) (Fig. 8)**

STEHLIN H.G. (1912).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, erste Hälfte: *Adapis*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 38, p. 1165-1298.

Valid name: *Cercamonius brachyrhynchus* (STEHLIN, 1912)

Locality: Prajoux, Lot, Phosphorites du Quercy, France.

Holotype:

Q.V.619 Fragment of left mandible with p4-m2



Figure 8: NMB Q.V.619: Holotype of *Protadapis brachyrhynchus* (STEHLIN, 1912) now known as *Cercamonius brachyrhynchus* (STEHLIN, 1912). Scale bar: 10 mm.

OMOMYIDAE TROUËSSART, 1879

**65 - *Pelycodus helveticus*
RÜTIMEYER, 1891**

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Periconodon pygmaeus* (RÜTIMEYER, 1891)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.366 Left maxilla with P3 and M1-M2

**66 - *Periconodon huerzeleri*
GINGERICH, 1977**

GINGERICH P.D. (1977).- New species of Eocene Primates and the phylogeny of European Adapidae.- *Folia Primatologica*, vol. 28, p. 60-80.

Valid name: *Periconodon huerzeleri* GINGERICH, 1977

Locality: Bouxwiller, France.

Holotype:

Bchs.495 Right mandible with p4-m3

Paratypes:

Bchs.222 Fragment of maxilla with M2-M3

Bchs.270 Lower left m2

Bchs.275 Left mandible with m2-m3
Bchs.305a Upper right molar
Bchs.312 Upper right molar
Bchs.313 Lower right m1-m2
Bchs.314 Lower left m2
Bchs.315 Upper left molar
Bchs.316 Upper right molar
Bchs.317 Fragment of right mandible with d1-m1
Bchs.318 Lower right m3
Bchs.319 Lower right m2
Bchs.450 Upper molar
Bchs.451 Upper molar
Bchs.452 Upper premolar
Bchs.453 Upper premolar
Bchs.454 Upper P2
Bchs.455 Lower right molar
Bchs.494 Lower right m1-m3
Bchs.639 Upper left m3
Bchs.640a Upper left m1
Bchs.640b Upper left m2
Bchs.640c Upper left m3
Bchs.6358 Lower right m3

MICROCHOERIDAE LYDEKKER, 1887

**67 - *Necrolemur antiquus major*
STEHLIN, 1916 (Fig. 9)**

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoerus* - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.



Figure 9: NMB Q.H.441: One of the syntypes of *Necrolemur antiquus major* STEHLIN, 1916. Scale bar: 10 mm.

Valid name: *Necrolemur antiquus major* STEHLIN, 1916

Syntypes:

Locality: Larnagol, Lot, Phosphorites du Quercy, France.

Q.H.470a Skull

Locality: Lamandine, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.H.441 Right mandible with c-m3

Q.H.468 Right maxilla with P3-M3

Locality: Cajarc, Lot, Phosphorites du Quercy, France.

Q.H.442 Left mandible with c-m3

68 - *Nannopithecus pollicaris* STEHLIN, 1916

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoerus* - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.

Valid Name: *Nannopithecus filholi* CHANTRE & GAILLARD, 1897

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.369 Fragment of right maxilla with M1-M3

**69 - *Microchoerus ornatus*
STEHLIN, 1916**

STEHLIN H.G. (1915-1916).- Die Säugetiere des schweizerischen Eocaens, Siebenter Teil, zweite Hälfte: *Caenopithecus* - *Necrolemur* - *Microchoerus* - *Nannopithecus* - *Anchomomys* - *Periconodon* - *Amphichiromys* - *Heterochiromys* - Nachträge zu *Adapis* - Schlussbetrachtungen zu den Primaten.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 41, p. 1299-1552.

Valid name: *Microchoerus ornatus* STEHLIN, 1916

Locality: Entreroches, Mormont, Switzerland.

Holotype:

Mt.132 Right maxilla with P2-M3

Order: Artiodactyla OWEN, 1848

CHOEROPOTAMIDAE OWEN, 1845

Tapirus is here included after HOOKER & THOMAS (2001) followed by ERFURT & MÉTAIS (2007).

**70 - *Choeropotamus depereti*
STEHLIN, 1908**

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus* - *Cebochoerus* - *Choeromorus* - *Haplobunodon* - *Rhagatherium* - *Mixtotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

Valid name: *Choeropotamus depereti* STEHLIN, 1908

Locality: Saint Hippolyte de Caton - Euzet-les-Bains, France.

Holotype:

St.H.20 Right mandible with m1-m2

St.H.21 Lower right D4

Paratype:

Locality: Mormont, Éclépens, Switzerland

Mt.21 Fragment of lower left molar

Comment: both specimens of the holotype were given 2 numbers but they might well belong to the same individual.

**71 - *Tapirulus depereti*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodotherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Tapirulus depereti* STEHLIN, 1910

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.127 Upper left M2

Ef.915 Upper left M1

Ef.916 Right mandible with p4-m3

Ef.917 Right mandible with p4-m1

Ef.921 Left mandible with m3

**72 - *Tapirulus majori*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodotherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Tapirulus majori* STEHLIN, 1910

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

Ef.128 Upper left M2

Ef.918 Right maxilla with M2-M3

Ef.919 Lower right m3

Ef.920 Lower left m3

73 - *Tapirulus schlosseri*
STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Tapirulus schlosseri* STEHLIN, 1910

Syntype:

Locality: Mormont, Éclépens, Switzerland.

Mt.45 2 Lower right m1

"HAPLOBUNODONTIDAE" SUDRE, 1978

ERFURT & MÉTAIS (2007) follow GENTRY & HOOKER (1988) who ascribe haplobunodontids to family Choeropotamidae.

74 - *Dichobune muelleri*
RÜTIMEYER, 1862

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Haplobunodon muelleri* (RÜTIMEYER, 1862)

Locality: Egerkingen (old collection), Switzerland.

Lectotype (STEHLIN, 1908):

Ef.2 Left mandible with m1-m3 and alveoli for p4

Paralectotypes (STEHLIN, 1908):

Ef.1 Left mandible with m1-m2

Ef.3 Left mandible with m1-m3

75 - *Haplobunodon solodurens*
STEHLIN, 1908 (Fig. 10)

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus* - *Cebochoerus* - *Choeromorus* - *Haplobunodon* - *Rhagatherium* - *Mixtotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

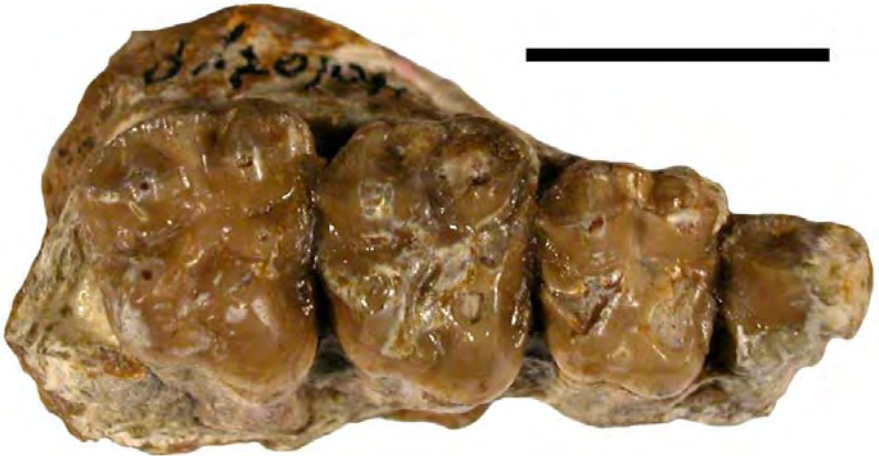


Figure 10: NMB Ef.43: Holotype of *Haplobunodon solodurens* STEHLIN, 1908. Scale bar: 10 mm.

Valid name: *Haplobunodon solodurens* STEHLIN, 1908

Locality: Egerkingen a, Switzerland.

Holotype:

Ef.43 Right maxilla with P4-M3

Paratypes:

Locality: Egerkingen a, Switzerland.

Eb.27 Upper right M3

Ef.41 Right maxilla with M1-M3

Ef.45 Left maxilla with P4-M2

Ef.50 Left maxilla with P4-M1

Ef.54 Upper left M1

Ef.57 Upper left M3

Ef.63 Right mandible with m2-m3

Ef.67 Lower right m3

Ef.70 Upper M2

Ef.73 Left maxilla with M2-M3

Ef.99 Upper left P3

Ef.107 Left mandible with p4 and alveoli for p3

Ef.109 Left mandible with p3-p4
Ef.172 Lower left M3
Ef.208 Lower right p3
Ef.225 Upper right P3
Ef.250 Lower right p3
Ef.265 Upper right M1/2
Ef.266 Left maxilla with M2-M3
Ef.267 Right maxilla with M2-M3
Ef.268 Left maxilla with M1-M2
Ef.269 Left maxilla with P2-P3
Ef.270 Upper M1/2
Ef.272 Upper right M3
Ef.273 Upper M1/2
Ef.274 Upper left P3
Ef.275 Upper P3
Ef.291 Upper M1/2
Ef.294 Right mandible with m1-m2
Ef.295 Left mandible with m2-m3
Ef.295 Left mandible with m2-m3
Ef.296 Right mandible with m2-m3
Ef.297 Right mandible with m2-m3
Ef.298 Lower left m3
Ef.299 Lower left m3
Ef.301 Lower right m3
Ef.302 Lower right m3
Ef.304 Lower left m3
Ef.304 Lower left m3
Ef.307 Lower left m3
Ef.309 Lower left m3
Eg.80 Upper M1/2
Eg.81 Upper right M1/2
Eg.82 Upper M1/2

Eg.102 Left mandible with m2-m3

Eg.103 Left mandible with m1-m2

Eg.114 Lower left m1/2

Locality: Egerkingen (old collection), Switzerland.

Ef.42 Lower right m3

Ef.49 Upper left M1/2

Ef.51 Upper left M3

Ef.214 Lower left d3

Ef.245 Lower right p4

Ef.280 Upper M1/2

Ef.292 Upper M1/2

Ef.293 Upper right D4

Ef.300 Lower right m3

Ef.306 Lower left m3

Ef.308 Lower right m3

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ef.69 Lower left m3

Ef.117 Lower right p4

Locality: Egerkingen β , Switzerland.

Ef.302a Lower left m3

Ef.303 Lower left m3

Ef.305 Lower left m3

76 - *Rhagatherium kowalevskyi* STEHLIN, 1908

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus - Cebochoerus - Choeromorus - Haplobunodon - Rhagatherium - Mixtotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

Valid name: *Rhagatherium kowalevskyi* STEHLIN, 1908

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.160 Left maxilla with P4-M1

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ef.122 Upper right M1/2

Ef.125 Upper left M1/2

Ef.322 Upper left M1

Ef.324 Upper M1

Locality: Egerkingen α , Switzerland.

Ef.123 Left maxilla with D3-D4

Eg.127 Lower left m2

Ef.130 Left mandible with m2-m3

Ef.321 Right maxilla with P4-M2

Ef.323 Upper left M2-M3

Ef.325 Upper M1

Ef.326 Upper left D4

Ef.327 Upper M1

Eg.116 Left mandible with m1, m2, m3 (3 fragments)

DICHOBUNIDAE TURNER, 1849

**77 - *Necrolemur cartieri*
RÜTIMEYER, 1891**

RÜTIMEYER L. (1891).- Die eocäne Säugethier- Welt von Egerkingen.-
Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft, vol.
18, p. 1-153.

Valid name: *Mouillacitherium cartieri* (RÜTIMEYER, 1891)

Locality: Egerkingen α , Switzerland.

Lectotype (STEHLIN, 1906):

Eg.529 Left maxilla with P4-M3

Paralectotypes:

Locality: Egerkingen (old collection), Switzerland.

En.254 Lower m2

Locality: Egerkingen α , Switzerland.

Eg.550 Upper left M2

Eg.551 Upper right M2

**78 - *Dichobune spinifera*
STEHLIN, 1906**

STEHLIN H.G. (1906).- Die Säugetiere des schweizerischen Eocaens, Vierter Teil: *Dichobune - Mouillacitherium - Meniscodon - Oxacron*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 33, p. 596-690.

Valid name: *Hyperdichobune spinifera* (STEHLIN, 1906)

Locality: Entreroches, Mormont, Switzerland.

Holotype:

Mt.147 Right maxilla with D3-M2

Comment: this is the type species of genus *Hyperdichobune*.

**79 - *Hyperdichobune hammeli*
SUDRE, 1978**

SUDRE J. (1978).- Les Artiodactyles de l'Éocène moyen et supérieur d'Europe occidentale (Systématique et évolution).- *Mémoires et Travaux de l'Institut de Montpellier de l'École Pratique des Hautes Études*, vol. 7, 229 p.

Valid name: *Hyperdichobune hammeli* SUDRE, 1978

Locality: Bouxwiller, France.

Holotype:

Bchs.570 Right mandible with p4-m2

Paratypes:

Bchs.233a Upper right M3

Bchs.233b Upper right M2

Bchs.235 Left mandible with m2-m3

Bchs.262a Upper right M3

Bchs.262b Upper right M2

Bchs.273a Lower m3

Bchs.398 Upper M

Bchs.430 Upper right M1

Bchs.432 Upper left D

Bchs.521 Upper right M

Bchs.522 Upper right D4

Bchs.572 Upper right M2-M3

80 - *Hyperdichobune spectabilis*

STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodotherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Hyperdichobune spectabilis* STEHLIN, 1910

Locality: Entreroches, Mormont, Switzerland.

Holotype:

Mt.392 Left mandible with p4-m3

81 - *Dichobune langi*

RÜTIMEYER, 1891

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Hyperdichobune langi* (RÜTIMEYER, 1891)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.213 Right maxilla with M1-M3

82 - *Dichobune nobilis*

STEHLIN, 1906

STEHLIN H.G. (1906).- Die Säugetiere des schweizerischen Eocaens, Vierter Teil: *Dichobune* - *Mouillacitherium* - *Meniscodon* - *Oxacron*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 33, p. 596-690.

Valid name: *Hyperdichobune nobilis* (STEHLIN, 1906)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.210 Right maxilla with M2-M3

83 - *Meniscodon picteti*
RÜTIMEYER, 1888

RÜTIMEYER L. (1888).- Über einige Beziehungen zwischen den Säugethierstämmen Alter und Neuer Welt. Erster Nachtrag zu der eocänen Fauna von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 15, p. 1-63.

Valid name: *Meniscodon picteti* RÜTIMEYER, 1888

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.513 Upper left M2

Comment: this is the type species of genus *Meniscodon*.

84 - *Phenacodus europaeus*
(RÜTIMEYER, 1888) (Fig. 11)

RÜTIMEYER L. (1888).- Über einige Beziehungen zwischen den Säugethierstämmen Alter und Neuer Welt. Erster Nachtrag zu der eocänen Fauna von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 15, p. 1-63.

Valid name: *Meniscodon europaeum* (RÜTIMEYER, 1888)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.514 Upper right M1

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Eg.512 Upper Left M2

Eg.518 Left maxilla with M1-M3

Eg.523 Right maxilla with D3-D4 and alveoli for D2, M1-M2

Eg.556a Right maxilla with M2-M3 + isolated Humerus fragment

Eg.557a Upper right M2

Eg.558a Upper right M2

Eg.559a Right maxilla with M2-M3



Figure 11: NMB Eg.514: Holotype of *Phenacodus europaeus* (RÜTIMEYER, 1888) now known as *Meniscodon europaeum* (RÜTIMEYER, 1888). Scale bar: 10 mm.

**85 - *Buxobune daubreei*
SUDRE, 1978**

SUDRE J. (1978).- Les Artiodactyles de l'Éocène moyen et supérieur d'Europe occidentale (Systématique et évolution).- *Mémoires et Travaux de l'Institut de Montpellier de l'École Pratique des Hautes Études*, vol. 7, 229 p.

Valid name: *Buxobune daubreei* SUDRE, 1978

Locality: Bouxwiller, France.

Holotype:

Bchs.516 Upper M1 or M2

Paratypes:

Bchs.97 Lower m2-m3

Bchs.206 Upper right M1

Bchs.395 Lower m1-m3
Bchs.396 Mandible with p4-m3
Bchs.431 Upper M1 or M2
Bchs.433 Lower m2
Bchs.517 Upper m3
Bchs.520 Lower m3
Bchs.569 Mandible with p2-m3
Bchs.571 Lower m3
Bchs.641 Upper left P4
Bchs.653 Upper D3-D4

Comment: this is the type species of monospecific genus *Buxobune*.

86 - *Metriotherium paulum*
STEHLIN, 1906

STEHLIN H.G. (1906).- Die Säugetiere des schweizerischen Eocaens, Vierter Teil: *Dichobune* - *Mouillacitherium* - *Meniscodon* - *Oxacron*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 33, p. 596-690.

Valid name: *Metriotherium paulum* STEHLIN, 1906

Locality: Phosphorites du Quercy, Lot, France.

Holotype:

Q.A.127 Upper M1-M2

CEBOCHOERIDAE LYDEKKER, 1883

87 - *Cebochoerus ruetimeyeri*
STEHLIN, 1908

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus* - *Cebochoerus* - *Choeromorus* - *Haplobunodon* - *Rhagatherium* - *Mixtotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

Valid name: *Cebochoerus ruetimeyeri* STEHLIN, 1908

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.201 Right mandible with p1-m3

Eg.26 Left mandible with p4-m2

88 - *Choeromorus jurensis*
STEHLIN, 1908

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus - Cebochoerus - Choeromorus - Haplobunodon - Rhagatherium - Mixtotherium.*- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

Valid name: *Cebochoerus ruetimeyeri* STEHLIN, 1908

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.103 Lower right p4

Ef.254 Right mandible with p4-m1

Eg.54 Lower right c

MIXTOTHERIIDAE LYDEKKER, 1883

89 - *Mixtotherium gresslyi*
RÜTIMEYER, 1891

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Mixtotherium gresslyi* RÜTIMEYER, 1891

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.169 Right maxilla with P2-M1

Eg.157 Right maxilla with M2-M3

Eg.159 Right maxilla with P2-P4

90 - *Mixtotherium priscum*
STEHLIN, 1908

STEHLIN H.G. (1908). Die Säugetiere des schweizerischen Eocaens, Fünfter Teil: *Choeropotamus - Cebochoerus - Choeromorus - Haplobunodon - Rhagatherium - Mixtotherium.*- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 35, p. 691-837.

Valid name: *Mixtotherium gresslyi* RÜTIMEYER, 1891

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.151 Left maxilla with P3-M3

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ef.204 Lower left p4

Ef.205 Lower left m2

Ef.209 Lower right d4

Ef.210 Lower left p4

Ef.332 Upper left M3

Ef.333 Upper left P4

Ef.334 Upper right P3

Ef.337 Upper right P4

Ef.349 Right mandible with m1-m2

Ef.350 Lower left m3

Ef.355 Lower left m3

Ef.364 Left mandible with m1-m3

Locality: Egerkingen α , Switzerland.

Ef.164 Right maxilla with P4-M2

Ef.339 Upper left M3

Ef.340 Right maxilla with M1-M3

Ef.344 Upper left M3

Ef.345 Upper left M3

Ef.347 Lower left m3

Ef.361 Right mandible with m2-m3

Ef.365 Lower left m1

Eg.154 Upper right M1

Eg.156 Upper left P4

Locality: Chamblon, Switzerland.

Cha.17 Right mandible with P1-M2

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ef.238 Lower left P4 or D4

Comment: HOOKER (1986) synonymised *M. priscum* to *M. gresslyi*.

**91 - *Mixtotherium infans*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Mixtotherium infans* STEHLIN, 1910

Syntypes:

Locality: Egerkingen a, Switzerland.

Ef.936 Upper right M3

Ef.937 M2 Upper right

ANOPLOTHERIIDAE GRAY, 1821

**92 - *Dacrytherium priscum*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Dacrytherium priscum* STEHLIN, 1910

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.171 Left maxilla with P1-M3

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ef.11 Left mandible with d4-m2

Ef.40 Left mandible with p2-p3 and alveoli for p1

Ef.81 Upper left D4

Ef.83 Left maxilla with M1-M2

Ef.86 Right maxilla with M2-M3
Ef.91 Left mandible with p3-m3
Ef.93 Right maxilla with P4-M3
Ef.166 Upper right P2
Ef.521 Upper M1/2
Ef.542a Upper right M2
Ef.549 Right maxilla with P4-M2
Ef.550 Right maxilla with M1-M3
Ef.551 Upper M3
Ef.552 Upper M3
Ef.553 Upper M3
Ef.554 Upper M3
Ef.555 Upper M3
Ef.556 Upper M1/2
Ef.557 Upper M1/2
Ef.558 Upper M1/2
Ef.559 Upper M1/2
Ef.560 Upper M1/2
Ef.561 Upper M1/2
Ef.562 Upper M1/2
Ef.563 Upper M1/2
Ef.564 Upper M1/2
Ef.565 Upper M1/2
Ef.566 Upper M1/2
Ef.567 Upper M1/2
Ef.581 Fragment of right maxilla with M2-M3
Ef.650 Upper P3
Ef.652 Upper P2
Ef.653 Upper P2
Ef.655 Upper left D4
Ef.677 Left mandible with m1-m2
Ef.678 Right mandible with m2-m3

- Ef.679 Left mandible with m2-m3
- Ef.680 Right mandible with p4-m1
- Ef.680a Lower left m3
- Ef.681 Lower m3
- Ef.682 Lower m3
- Ef.683 Lower M3
- Ef.684 Lower m3
- Ef.685 Lower m1/2
- Ef.686 Lower m1/2
- Ef.687 Lower m1/2
- Ef.688 Lower m1/2
- Ef.689 Lower m1/2
- Ef.690 Fragment of mandible with m1/2
- Ef.691 Lower m1/2
- Ef.692 Lower m1/2
- Ef.706 Left mandible with m1 and alveoli for p1-p4
- Ef.707 Left mandible with p2 and alveoli for p1 and c
- Ef.708 Lower left p3
- Ef.709 Lower left P1
- Ef.758 Right mandible with d3 and alveoli for D2

**93 - *Dacrytherium saturnine*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Dacrytherium saturnini* STEHLIN, 1910

Locality: La Débruge, France.

Lectotype (SUDRE, 1978):

Db.511 Upper right M1-M3

94 - *Catodontherium buxgovianum*
STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Catodontherium buxgovianum* STEHLIN, 1910

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

- Ef.22 Upper right M1/2
- Ef.35 Lower left pP3
- Ef.176 Lower right p2
- Ef.430 Upper M3
- Ef.449 Upper P4
- Ef.471 Lower m1/2
- Ef.472 Lower m1/2
- Ef.474 Lower m1/2
- Ef.476 Lower m1/2
- Ef.485 Lower p3
- Ef.503 Fragment of maxilla with P4-M2
- Ef.504 Upper M3

Locality: Egerkingen - Oberbuchsiten, Switzerland.

- Ef.510 Upper P3

Locality: Egerkingen a, Switzerland.

- Ef.12 Right maxilla with P3-P4
- Ef.13 Right mandible with p3-m2 and left mandible with p4-m2
- Ef.14 Left mandible with p2-p3
- Ef.19 Right maxilla with P1-P2
- Ef.20 Lower right m3
- Ef.25 Upper right P2
- Ef.28 Upper left M1/2

Ef.30 Right mandible with p4-m3
Ef.33 Lower left p4
Ef.34 Lower left p1
Ef.36 Lower right d4
Ef.61 Upper right P1
Ef.88 Left maxilla with D3-D4
Ef.90 Upper left D3
Ef.96a Left maxilla with D4-M1
Ef.161 Right mandible with d2-d4
Ef.174 Upper left P1
Ef.188 Lower left p4
Ef.198 Lower left m2
Ef.221 Upper right P1
Ef.244 Lower left c
Ef.419 Skull fragment and upper right P4-M3
Ef.420 Left maxilla with M1-M2
Ef.421 Left maxilla with P4-M2
Ef.422 Left maxilla with M2-M3
Ef.423 Left maxilla with M2-M3
Ef.424 Left maxilla with M1-M2
Ef.425 Upper M3
Ef.427 Upper M3
Ef.429 Upper M3
Ef.431 Upper M3
Ef.432 Upper M3
Ef.433 Upper M3
Ef.434 Upper M3
Ef.435 Upper M3
Ef.436 Upper M3
Ef.438 Upper M1/2
Ef.439 Fragment of maxilla with M1/2
Ef.440 Upper M1/2

Ef.441 Fragment of maxilla with M1/2
Ef.442 Fragment of maxilla with M1/2
Ef.443 Fragment of maxilla with M1/2
Ef.444 Right maxilla with P3-M1
Ef.445 Fragment of maxilla with P3-P4
Ef.446 Upper P4
Ef.447 Upper P4
Ef.450 Right maxilla with P2-P3
Ef.451 Upper P3
Ef.452 Upper P3
Ef.453 Upper P3
Ef.454 Upper P3
Ef.455 Upper P3
Ef.456 Upper P2
Ef.458 Upper P2
Ef.459 Left mandible with p4 and m1-m2
Ef.460 Right mandible with m2-m3
Ef.461 Left mandible with m2-m3
Ef.462 Right mandible with m1-m2
Ef.463 Left mandible with p4-m1
Ef.464 Left mandible with p4-m1
Ef.465 Left mandible with p4-m1
Ef.466 Fragment of mandible with m3
Ef.467 Fragment of mandible with m3
Ef.470 Lower m1/2
Ef.473 Lower m1/2
Ef.475 Lower m1/2
Ef.477 Lower m1/2
Ef.478 Lower m1/2
Ef.479 Lower m1/2
Ef.480 Lower m1/2
Ef.481 Right mandible with p3-p4

Ef.482 Lower p4
Ef.483 Lower p4
Ef.486 Lower p3
Ef.487 Lower p3
Ef.489 Lower p3
Ef.490 Lower p3
Ef.491 Lower p2
Ef.492 Lower p2
Ef.493 Lower p2
Ef.494 Lower right d4
Ef.495 Fragment of Left mandible with d3
Ef.496 Left mandible with d3-m2
Ef.502 Left maxilla with P4-M2
Ef.505 Upper M1/2
Ef.506 Upper P4
Ef.507 Left maxilla with D4-M1
Ef.508 Upper P3
Ef.509 Upper P1
Ef.511 Lower p2
Ef.514 Upper P1
Ef.515 Upper P1
Ef.519 Upper right D4
Ef.541 Upper M1/2
Ef.632 Upper P4
Ef.633 Upper P4
Ef.634 Upper P4
Ef.644 Upper P1
Ef.651 Lower p4
Ef.657 Right mandible with m3
Ef.658 Right mandible with m2-m3
Ef.701 Lower left d3
Ef.710 Lower right d4

Ef.711 Lower right d4
Ef.1004 Lower right c
Eg.140 Upper left P3
Eg.141 Right maxilla with M2-M3
Eg.147 Left maxilla with P4-M3

Locality: Egerkingen β , Switzerland.

Ef.21 Lower left m3
Ef.23 Upper right P4
Ef.24 Upper right P3
Ef.26 Upper right M3
Ef.27 Upper left P4
Ef.426 Upper M3
Ef.428 Upper M3
Ef.437 Upper M1/2
Ef.448 Upper P4
Ef.468 Lower M3
Ef.469 Lower m3
Ef.484 Lower p3
Ef.488 Lower P3
Ef.516 Upper right D3

**95 - *Catodontherium fallax*
STEHLIN, 1910 (Fig. 12)**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Catodontherium fallax* STEHLIN, 1910

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

Ef.15 Right mandible with p4-m2
Ef.18 Right mandible with p4-m3

Ef.31 Right mandible with d4-m1



Figure 12: NMB Eg.149: One of the syntypes of *Catodontherium fallax* STEHLIN, 1910. Scale bar: 10 mm.

Ef.37 Lower left m2

Ef.58 Lower right d4

Ef.60 Upper right P1

Ef.74 Upper left M3

Ef.95 Upper left M2

Ef.110 Lower left p4

Ef.155 Lower left m3

Ef.156 Left mandible with d3-d4

Ef.157 Lower right m3

Ef.158 Right mandible with p3-p4

Ef.160 Lower left p3

Ef.163 Lower right m3

Ef.167 Upper left P3

Ef.168 Upper left P4

Ef.170 Right maxilla with D4-M1 and alveoli for D3 and M2

Ef.177 Lower right p4
Ef.179 Upper right M1
Ef.180 Upper right P3
Ef.183 Lower right m3
Ef.187 Upper left M1
Ef.194 Lower left m2
Ef.196 Left maxilla with M2 and alveoli for D2-D3, D4, M1 and for P1
Ef.243 Lower right P2
Ef.517 Left maxilla with P4-M3
Ef.520 Right maxilla with M2-M3
Ef.522 Upper M3
Ef.523 Upper M3
Ef.524 Upper M3
Ef.525 Upper M3
Ef.526 Upper M3
Ef.527 Upper M3
Ef.528 Upper M1
Ef.529 Upper M1
Ef.530 Upper M1
Ef.531 Upper M1
Ef.532 Upper M1
Ef.533 Upper M1
Ef.534 Upper M1
Ef.535 Upper M1
Ef.536 Upper M1
Ef.537 Upper M1
Ef.538 Upper M1
Ef.539 Upper M1
Ef.540 Upper M1
Ef.542 Upper M1
Ef.543 Upper M1
Ef.544 Upper M1

Ef.625 Upper P4
Ef.626 Upper P4
Ef.627 Upper P4
Ef.628 Upper P4
Ef.629 Upper P4
Ef.630 Upper P4
Ef.631 Upper P4
Ef.635 Upper P3
Ef.636 Upper P3
Ef.637 Upper P3
Ef.638 Upper P3
Ef.639 Upper P3
Ef.641 Upper D4
Ef.642 Upper D4
Ef.643 Upper D4
Ef.645 Upper P1
Ef.648 Upper P2
Ef.660 Left mandible with m2-m3
Ef.661 Left mandible with m2-m3
Ef.662 Mandible with m2-m3
Ef.663 Left mandible with m1-m2
Ef.664 Mandible with m1-m2
Ef.665 Left mandible with m1-m2
Ef.666 Right mandible with alveoli for p2-p4
Ef.667 Lower left m1/2
Ef.668 Lower left m1/2
Ef.669 Lower left m1/2
Ef.670 Lower left m1/2
Ef.671 Lower left m1/2
Ef.672 Lower right m1/2
Ef.673 Lower left m1/2
Ef.675 Lower right m3

Ef.676 Lower right m3
Ef.693 Lower p4
Ef.694 Lower p4
Ef.695 Lower p4
Ef.697 Lower p4
Ef.698 Lower p4
Ef.699 Lower p4
Ef.700 Lower p4
Ef.702 Lower p3
Ef.703 Lower p3
Ef.704 Lower p3
Ef.705 Lower p3
Ef.713 Lower p3
Ef.713a Lower left d2
Ef.714 Lower d4
Ef.761 Left mandible with m3
Eg.149 Left maxilla with M2-M3
Eg.152 Right maxilla with P4-M3
Eg.153b Right maxilla with M1-M3

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ef.185 Lower right p1
Ef.647 Upper P4
Ef.674 Mandible with m1-m3

Locality: Egerkingen α , Switzerland.

Ef.501 Right maxilla with M1-M3
Ef.640 Upper P3
Ef.646 Upper P1
Ef.696 Lower p4
Ef.739 Lower right m1/2

Locality: Egerkingen β , Switzerland.

Ef.251 Lower left d2

CAINOTHERIIDAE COPE, 1881

**96 - *Oxacron valdense*
STEHLIN, 1906**

STEHLIN H.G. (1906).- Die Säugetiere des schweizerischen Eocaens, Vierter Teil: *Dichobune - Mouillacitherium - Meniscodon - Oxacron*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 33, p. 596-690.

Valid name: *Paroxacron valdense* (STEHLIN, 1906)

Locality: Éclépens-village, Mormont, Switzerland.

Lectotype (HOOKER & WEIDMANN, 2000):

Mt.230 Right maxilla with P2-M3

Paralectotypes:

Mt.232 Distal part of left mandible, no teeth preserved

Mt.233 Left mandible with m1-m3

XIPHODONTIDAE FLOWER, 1884

**97 - *Xiphodon intermedium*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium - Dacrytherium - Leptotheridium - Anoplotherium - Diplobune - Xiphodon - Pseudamphimeryx - Amphimeryx - Dichodon - Haplomeryx - Tapirulus - Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Xiphodon intermedium* STEHLIN, 1910

Locality: Phosphorites du Quercy, France.

Holotype:

Q.A.396 Fragment of right mandible with p2-p3

**98 - *Dichodon cartieri*
RÜTIMEYER, 1891**

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Dichodon cartieri* RÜTIMEYER, 1891

Syntypes:

Locality: Egerkingen a, Switzerland.

Eg.231 Left maxilla with M3 and alveoli for M1-M2

Eg.244 Right maxilla with P4-M2

Eg.254 Upper right M2

**99 - *Dichodon ruetimeyeri*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Dichodon ruetimeyeri* STEHLIN, 1910

Locality: Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eg.229 Left maxilla with P3-M3 and alveoli for P2

Paratypes:

Ef.5 Upper left P4

Ef.239 Upper left D3

Ef.242 Lower left p4

Ef.851 Upper P4

Ef.852 Upper P4

Ef.853 Upper P4

Ef.854 Upper P4

Ef.855 Upper P3

Ef.860 Upper D4

Ef.863 Upper left P2

Ef.864 Upper right P1

Ef.893 Right mandible with m2-m3

Ef.894 Fragment of mandible with m3 and alveoli for m1-m2

Ef.895 Left mandible with p4 and m1-m2

Ef.896 Left mandible with m1-m2

- Ef.897 Fragment of right mandible with m3
- Ef.898 Right mandible with m1-m3
- Ef.899 Right mandible with m2-m3
- Ef.900 Left mandible with m3
- Ef.901 Left mandible with m3
- Ef.902 Lower left m3
- Ef.903 Lower right m1/2
- Ef.904 Lower right m1/2
- Ef.905 Lower right m1/2
- Ef.906 Lower right m1/2
- Ef.907 Left mandible with p4-m1
- Ef.908 Upper M3
- Eg.234 Right maxilla with M2-M3
- Eg.235 Upper right M1
- Eg.236 Upper left M1
- Eg.242 Fragment of Left maxilla with M3, and roots for M2
- Eg.249 Upper left D4
- Eg.250 Upper right M1/2
- Eg.255 Upper right M1/2
- Eg.256 Upper right M1/2
- Eg.257 Upper right M1/2
- Eg.258 Upper left M1/2
- Eg.261 Fragment of right maxilla with M3
- Eg.265 Upper right M3
- Eg.266 Upper left D4

**100 - *Dichodon simplex*
KOWALEVSKY, 1873 (Fig. 13)**

KOWALEVSKY W. (1873).- On the osteology of the Hyopotamidae.- *Philosophical Transactions of the Royal Society of London*, vol. 163, p. 16-94.

Valid name: *Dichodon simplex* KOWALEVSKY, 1873

Locality: Locality: Egerkingen (old collection), Switzerland.



Figure 13: NMB Eg.228: Holotype of *Dichodon simplex* KOWALEVSKY, 1873. Scale bar: 10 mm.

Holotype:

Eg.228 Right maxilla with P4-M3

**101 - *Dichodon subtilis*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodotherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus*- *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Dichodon subtilis* STEHLIN, 1910

Syntypes:

Locality: Mormont, Éclépens, Switzerland.

Mt.27 Upper right M2

Mt.28 Lower molar

Mt.33 Mandible with m1-m2

Mt.46 Upper right M3

102 - *Haplomeryx egerkingensis*
STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Haplomeryx egerkingensis* STEHLIN, 1910

Locality: Egerkingen a, Switzerland.

Holotype:

Ef.126 Left maxilla with M2-M3

Paratype:

Locality: Locality: Egerkingen (old collection), Switzerland

Ef.124 Upper right M1/2

103 - *Leptotheridium lugeoni*
STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Leptotheridium lugeoni* STEHLIN, 1910

Paratypes:

Locality: Mormont, Éclépens, Switzerland.

Mt.36 Lower molar

Locality: Phosphorites du Quercy, France.

Q.A.378 Right mandible with p4-m3

Q.A.380 Fragment of left mandible with m3

Q.A.383 Fragment of left mandible with m2-m3

Q.A.385 Right mandible with m1-m3

Q.A.386 Right mandible with m2-m3

Q.B.195 Right mandible with p4-m2

Q.V.420 Lower left molar

Locality: Bach (Lalbenque), Lot, Phosphorites du Quercy, France.

Q.A.381 Left mandible with p4-m3

Locality: Caylus, Tarn et Garonne, Phosphorites du Quercy, France.

Q.A.392 Left maxilla with P3-M2

Locality: Larganol (Carjac), Lot, Phosphorites du Quercy, France.

Q.V.243 Right mandible with p4-m2

Comment: the holotype (MGL 8989) is at the Museum of Geology in Lausanne. This is the type species of genus *Leptotheridium*.

**104 - *Leptotheridium traguloides*
STEHLIN, 1910 (Fig. 14)**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.



Figure 14: NMB Ef.120: Holotype of *Leptotheridium traguloides* STEHLIN, 1910. Scale bar: 10 mm.

Valid name: *Leptotheridium traguloides* STEHLIN, 1910

Locality: Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ef.120 Right maxilla with M1-M3

Paratypes:

Locality: Locality: Egerkingen (old collection), Switzerland.

Ef.220 Lower right p4

Locality: Egerkingen α , Switzerland.

Ef.118 Right maxilla with D3-M1

Ef.190 Left maxilla with P3-P4

Ef.215 Left mandible with m3

Ef.234 Lower right p4

Ef.771 Right maxilla with M2-M3

Ef.772 Upper right M2

Ef.773 Upper left M2

Ef.776 Upper right D4

Ef.777 Upper left D4

Ef.781 Lower right m3

Ef.784 Left mandible with d2-d4, m1

Locality: Egerkingen β , Switzerland.

Ef.189 Upper left M2

Ef.192 Upper left M3

AMPHIMERYCIDAE STEHLIN, 1910

105 - *Pseudamphimeryx pavloviae* STEHLIN, 1910

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodontherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Pseudamphimeryx pavloviae* STEHLIN, 1910

Locality: Phosphorites du Quercy, France.

Lectotype (SUDRE, 1978):

Q.A.490 Left mandible with c-m3

Paralectotypes:

Locality: Phosphorites du Quercy, France.

Q.A.423 Upper left M2-M3

Q.A.441 Upper right P3-M1

Q.A.957 Fragment of right mandible with p4-m3

Q.A.958 Right mandible with p4-m3

Q.A.959 Fragment of right mandible with m1-m3

Q.A.960 Fragment of right mandible with m3

Q.A.961 Fragment of right mandible with m1-m3

Q.A.962 Fragment of left mandible with p4-m3

Locality: Prajoux, Memerlin, Lot, Phosphorites du Quercy, France.

Q.A.494 Fragment of right mandible with p4-m3

Q.V.546 Left mandible with m2-m3

Q.V.749 Fragment of left mandible with p3-m3

Q.V.923 Left mandible with m1-m3

Q.V.924 Right mandible with p3-m3 and alveoli for p2

Q.V.925 Left mandible with p4, m2-m3

Q.V.926 Left mandible with m1-m3 and alveoli for p2-p4

Q.V.927 Right mandible with p4-m3

Q.V.928 Right mandible with p4-m3

Q.V.929 Right mandible with m1-m2

Q.V.930 Right mandible with m1, m2-m3

Q.V.931 Left mandible with m1-m2

Locality: Bach, Lot, Phosphorites du Quercy, France.

Q.A.445 Upper left M1-M3

Q.A.451 Upper left P4-M3

Locality: Caylus, Tarn-et-Garonne, Phosphorites du Quercy, France.

Q.A.418 Right maxilla with P2-M3

Q.A.484 Fragment of left mandible with p4-m3

Q.A.496 Left mandible with d2-m3

Locality: Larnagol, Lot, Phosphorites du Quercy, France.

Q.A.488 Left mandible with p4-m3

Q.A.491 Left mandible with p4-m3

**106 - *Xiphodontherium schlosseri*
(RÜTIMEYER, 1891)**

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.-
Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft, vol. 18, p. 1-153.

Valid name: *Pseudamphimeryx schlosseri* (RÜTIMEYER, 1891)

Locality: Locality: Egerkingen (old collection), Switzerland.

Lectotype (STEHLIN, 1910):

Eg.216 Left maxilla with M1-M3

Paralectotypes:

Locality: Egerkingen a, Switzerland.

Ef.794 Lower left m1

Eg.217 Left maxilla with P4-M2

Eg.218 Left maxilla with M1-M3

Locality: Egerkingen (old collection), Switzerland.

Eg.503 Left mandible with m1-m2

Eg.506 Right mandible with m3

**107 - *Pseudamphimeryx valdensis*
STEHLIN, 1910**

STEHLIN H.G. (1910).- Die Säugetiere des schweizerischen Eocaens, Sechster Teil: *Catodotherium* - *Dacrytherium* - *Leptotheridium* - *Anoplotherium* - *Diplobune* - *Xiphodon* - *Pseudamphimeryx* - *Amphimeryx* - *Dichodon* - *Haplomeryx* - *Tapirulus* - *Gelocus* - div. Nachträge.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 36, p. 838-1164.

Valid name: *Pseudamphimeryx valdensis* STEHLIN, 1910

Syntype:

Locality: Phosphorites du Quercy, France.

Q.A.453 Upper Molar

Order: Perissodactyla OWEN, 1848

INCERTAE SEDIS

**108 - *Tapinodon gresslyi*
von MEYER, 1846**

MEYER H. von (1846).- Mittheilungen an Professor BRONN gerichtet. Frankfurt am Main, 4. Mai 1846, p. 471.

Valid name: Equoidea indet.

Locality: Egerkingen (old collection), Switzerland.

Lectotype (STEHLIN, 1905):

Ee.196 Lower right m3

**109 - *Lophiotherium elegans*
RÜTIMEYER, 1862**

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: Equoidea indet.

Paralectotypes:

Locality: Egerkingen (old collection), Switzerland.

Eb.543 C

Ee.195 Fragment of right mandible with m3

Comment: the lectotype (A/V212) is at the paläontologisches Institut und Museum Zürich under the name Equoidea indet.

Comment: the material of *Tapinodon gresslyi* seems to be lost since 1862 and the NMB only holds plates of the description by STEHLIN (1905) where he described it as a "Palaeohippidae indet.". As far as *Lophiotherium elegans* is concerned, the NMB only has a cast of a lower m3 (cast number Ee.194) and the rest of the material seems to be lost, only plates of the material published in STEHLIN (1905) are currently kept, the material is also referred to as "Palaeohippidae indet."

110 - *Hallensia parisiensis*
FRANZEN, 1990 (Fig. 15)

FRANZEN J.L. (1990).- *Hallensia* (Mammalia, Perissodactyla) aus Messel und dem Pariser Becken sowie Nachträge aus dem Geiseltal.- *Bulletin de l'Institut royal des sciences naturelles de Belgique*, vol. 60, p. 175-201.

Valid name: *Hallensia parisiensis* FRANZEN, 1990

Locality: Monthelon, France.



Figure 15: NMB T.S.631: Holotype of *Hallensia parisiensis* FRANZEN, 1990. Scale bar: 10 mm.

Holotype:

T.S.631 Right maxilla with P4-M1

Paratype:

T.S.367 Right maxilla with D2-D3

EQUIDAE GRAY, 1821

**111 - *Propalaeotherium helveticum*
SAVAGE *et alii*, 1965**

SAVAGE D.E., RUSSELL D.E. & LOUIS P. (1965).- European Eocene Equidae (Perissodactyla).- *University of California Publications in Geological Sciences*, vol. 56, 94 p.

Valid name: *Propalaeotherium helveticum* SAVAGE *et alii*, 1965

Locality: Egerkingen a, Switzerland.

Holotype:

Ed.1b Right maxilla with P1-M3

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ec.454 Upper M1

Ec.782a Upper right P4

Ec.786 Upper P3

Ec.980 Upper left D2

Ed.7 Right maxilla with M1-M3

Ed.9 Upper M3

Ed.10 Upper M2

Ed.11 Upper left M3

Ed.12 Right maxilla with M1-M2

Ed.28 Upper right D3

Ed.29 Upper left D3

Ed.36 Upper P3/4

Ed.38 Upper P2

Ed.40 Upper left D4

Ed.41 Upper P3

Ed.42 Upper right P3

Ed.43 Upper P2

Ed.48 Upper left P4
Ed.51 Upper P2
Ed.52 Upper P4
Ed.56 Upper right D4
Ed.58 Upper P2
Ed.66 Upper right M3
Ed.69 Upper right M3
Ed.74 Lower m1
Ed.75 Lower m2
Ed.82 Upper P2
Ed.83 Upper P3
Ed.84 Upper right D3
Ed.87 Upper left M2
Ed.90 Upper M1
Ed.96 Upper right M3
Ed.98 Upper M3
Ed.101 Lower m2
Ed.103 Lower right p3
Ed.109 Lower d3
Ed.117 Lower d4
Ed.119 Lower m2
Ed.120 Upper left m3
Ed.127 Lower m3
Ed.128 Lower right m1
Ed.132 Lower left d4
Ed.135 Lower right d3
Ed.138 Lower m2
Ed.140 Lower left d4
Ed.143 Lower m3
Ed.146 Lower p4
Ed.147 Lower m1
Ed.150 Lower m2

Ed.153 Left mandible with m1-m2
Ed.162 Lower p4
Ed.163 Lower m1
Ed.164 Lower m2
Ed.165 Lower m2
Ed.166 Lower p4
Ed.167 Lower d4
Ed.172 Lower left p3
Ed.174 Lower p3
Ed.175 Lower p4
Ed.176 Lower right d4
Ed.181 Lower left m1
Ed.182 Lower d4
Ed.183 Lower p4
Ed.187 Lower right p2
Ed.190 Lower d4
Ed.192 Lower d3
Ed.193 Lower d3
Ed.194 Lower d3
Ed.195 Lower d3
Ed.196 Lower right d3
Ed.201 Lower d2
Ed.203 Lower d2
Ed.204 Lower right p3
Ed.210 Lower d2
Ed.223 Lower p3
Ed.224 Lower right p4
Ed.228 Lower d2
Ed.230 Lower left p2
Ed.233a Lower d3
Ed.239 Lower d2
Ed.244 Lower p2

Ed.300 Lower m2
Ed.331 Lower m1
Ed.334 Upper right D4
Ed.340 Lower right p3
Ed.348 Lower right p3
Ed.395 Lower d2

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ed.105 Lower right d3
Ed.155 Left mandible with p4-m3

Locality: Egerkingen a, Switzerland.

Ec.118 Lower d3
Ec.964 Lower p2
Ed.1a Left maxilla with P2-M3
Ed.1c Mandible with left p2-m3 and right p3-m3
Ed.2 Right maxilla with M2-M3
Ed.3 Left maxilla with P3-M1
Ed.4 Left maxilla with M2-M3
Ed.5 Left maxilla with M2-M3
Ed.6 Right maxilla with P4-M1
Ed.17 Right maxilla with roots for C, and alveoli for P1, and with P2
Ed.18 Upper left C
Ed.19 Right maxilla with alveoli for P3-P4, D4-M1 (+isolated P4)
Ed.20a,b Maxilla with left D3-M1
Ed.21 Upper D3
Ed.22 Upper D3
Ed.24 Upper D3
Ed.25 Upper D4
Ed.30 Upper right D2
Ed.31 Upper left D2
Ed.32 Upper left P2/D2
Ed.33 Upper P4

Ed.34 Upper P4
Ed.35 Upper P3
Ed.37 Upper P3/4
Ed.39 Upper P4
Ed.44 Upper P4
Ed.45 Upper M1
Ed.46 Upper left D3/4
Ed.47 Upper right M2
Ed.49 Upper P2
Ed.54 Upper D3
Ed.55 Upper M3
Ed.57 Upper left P2
Ed.60 Upper P4
Ed.61 Upper D4
Ed.62 Upper D4
Ed.63 Upper P2
Ed.64 Upper P2
Ed.68 Upper left P4
Ed.73 Upper right D4
Ed.76 Upper D3
Ed.79 Upper D4
Ed.81 Upper P4
Ed.91 Upper P3
Ed.93 Upper M2
Ed.97 Upper left C
Ed.102 Lower d3
Ed.111 Lower d4
Ed.113 Lower right d2
Ed.114 Lower d3
Ed.122 Lower m2
Ed.123 Lower right m3
Ed.124 Lower m2

Ed.125 Lower m3
Ed.126 Lower m3
Ed.129 Lower m1
Ed.130 Lower right p2
Ed.133 Lower m1
Ed.136 Lower m1
Ed.141 Lower m3
Ed.142 Lower m2
Ed.144 Lower m3
Ed.145 Lower p4
Ed.149 Lower m2
Ed.151 Left mandible with p3-m1
Ed.152 Right mandible with roots for p2-p3 and with p4-m1
Ed.154 Right mandible with m2-m3
Ed.160 Lower right m3
Ed.161 Lower left p2
Ed.168 Lower p2
Ed.178 Lower p4
Ed.189 Lower left m2
Ed.191 Lower d4
Ed.197 Lower left m2
Ed.198 Lower right d3
Ed.199 Fragment of right mandible with d3-d4
Ed.200 Lower right d3
Ed.255 Lower d2

Locality: Egerkingen β , Switzerland.

Ec.362 Lower right d3
Ed.112 Lower d3
Ed.170 Lower right p3
Ed.369 Upper left P1

112 - *Propalaeotherium parvulum*
LAURILLARD, 1849

LAURILLARD C.L. (1849).- *In*: d'ORBIGNY: Dictionnaire Universel d'Histoire Naturelle, vol. 7, p. 438.

Valid name: *Eurohippus parvulum* (LAURILLARD, 1849)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Eb.172 Upper right D4

113 - *Propalaeotherium minutum*
RÜTIMEYER, 1891

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Eurohippus parvulum* (LAURILLARD, 1849)

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

Ec.10 Right mandible with d2-d4

Ec.73 Lower right m1

Ec.277 Lower left p3

Ec.293 Lower left m1

Locality: Egerkingen a, Switzerland.

Ec.20 Left mandible with d3-m2

114 - *Plagiolophus minutus*
RÜTIMEYER, 1862

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Eurohippus parvulum* (LAURILLARD, 1849) or *Anchilophus depereti* STEHLIN, 1905

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ec.201 Left mandible with m1-m2

Comment: *P. minutus* is a *nomen dubium* and the material synonymised

either to *E. parvulum* or *A. depereti* (STEHLIN, 1904)

PALAEOTHERIIDAE BONAPARTE, 1850

**115 - *Palaeotherium castrense*
NOULET, 1863 (Fig. 16)**

NOULET J.-B. (1863).- Étude sur les fossiles du terrain Éocène supérieur du bassin de l'Agout (Tarn).- *Mémoires de l'Académie Impériale des Sciences, Inscriptions, et Belles-Lettres de Toulouse*, vol. 6, n° 1, p. 181-206.



Figure 16: NMB Ec.403: Lectotype of *Palaeotherium castrense* NOULET, 1863. Scale bar: 10 mm.

Valid name: *Palaeotherium castrense* NOULET, 1863

Locality: Egerkingen a, Switzerland.

Lectotype (FRANZEN, 1968):

Ec.403 Left maxilla with P1-P4

Paralectotypes:

Locality: Egerkingen (old collection), Switzerland.

Ec.414 Upper left P4

Locality: Egerkingen a, Switzerland.

Ec.412 Upper left P3

Ec.413 Upper left P2

116 - *Palaeotherium pomeli*
FRANZEN, 1968 (Fig. 17)

FRANZEN J.L. (1968).- Revision der Gattung *Palaeotherium* CUVIER 1804 (Palaeotheriidae, Perissodactyla, Mammalia).- PhD Thesis, Naturwissenschaftlich-mathematische Fakultät der Albert-Ludwigs-Universität zu Freiburg, 181 p.



Figure 17: NMB Cst.157: Holotype of *Palaeotherium pomeli* FRANZEN, 1968. Scale bar: 10 mm.

Valid name: *Palaeotherium pomeli* FRANZEN, 1968

Locality: La Badayre, Sables du Castrais, France.

Holotype:

Cst.157 Right mandible with p2-m3

117 - *Palaeotherium renevieri*
STEHLIN, 1904

STEHLIN H.G. (1904).- Die Säugetiere des schweizerischen Eocaens, Zweiter Teil: *Palaeotherium - Plagiolophus - Propalaeotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 31, p. 154-258.

Valid name: *Palaeotherium renevieri* STEHLIN, 1904

Locality: Entreroches, Mormont, Switzerland.

Lectotype (FRANZEN, 1968):

Mt.151 Skull fragment with left C, D1, P2-M3

Paralectotypes:

Mt.109 Lower left c

Mt.135 Lower left d3

Mt.152 Skull fragment with left D1-D3 and M1

Mt.154 Fragment of mandible with right p2-m3 and left p4-m1

118 - *Palaeotherium ruetimeyeri*
STEHLIN, 1904

STEHLIN H.G. (1905a).- Die Säugetiere des schweizerischen Eocaens, Zweiter Teil (Fortsetzung): *Palaeotherium - Plagiolophus – Propalaeotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 32, p. 259-445.

Valid name: *Palaeotherium ruetimeyeri* STEHLIN, 1905

Locality: Egerkingen a, Switzerland.

Holotype:

Ec. 552 Right maxilla with P4-M3

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ec.512 Upper left D3

Ec.518 Upper M2

Ec.519 Upper D4

Ec.521 Upper P4

Ec.529 Upper P2

Ec.533 Upper D3

Ec.538 Upper left D2

Ec.539 Upper right D2

Ec.541 Upper right D2

Ec.543 Upper left D2

Ec.547 Upper left D2

Ec.551 Left maxilla with M2-M3

Ec.555 Upper left M3

Ec.556 Upper M2

Ec.557 Upper M3

Ec.558 Upper M1

Ec.560 Upper P2

Ec.634 Upper D3

Ec.690 Upper right P1

Ec.747 Upper right M1
Ec.765a Upper right M3
Ec.768 Upper P1
Ec.780 Upper P1
Ec.781 Upper right P1
Ec.805 Fragment of mandible with p4
Ec.811 Upper P2
Ec.825 Lower p3
Ec.826 Lower left d3
Ec.828 Lower p3
Ec.829 Lower m3
Ec.832 Lower m1
Ec.838 Lower m2
Ec.840 Lower p4
Ec.841 Lower right m2
Ec.842 Lower d4
Ec.844 Lower left p4
Ec.846 Lower left d3
Ec.849 Lower left d4
Ec.867 Lower left d4
Ec.897 Lower right d4
Ec.953 Lower p1
Ec.956 Lower p1
Ec.960 Lower p1
Ec.965 Lower p2
Ec.975 Lower p2
Ed.214 Lower left d2
Ed.215 Lower p1
Ed.220 Lower left d2
Ed.221 Lower p1
Ed.232 Lower p1
Ed.246 Lower p2

Ed.249 Lower left p2

Ed.254 Lower left p2

Ed.333 Lower left d4

Ed.440 Lower left m1

Locality: Egerkingen - Oberbuchsiten, Switzerland.

Ec.577 Upper M2

Locality: Egerkingen α , Switzerland.

Ec.487 Upper M1

Ec.510 Upper left D2

Ec.511 Upper right p1

Ec.535 Upper D3

Ec.540 Upper D4

Ec.542 Upper P1

Ec.546 Upper right D2

Ec.553a Right maxilla with P2-P3

Ec.553b Left maxilla with P2 and P3-P4

Ec.554 Right maxilla with M2-M3

Ec.559 Upper M2

Ec.617 Lower p2

Ec.780a Right mandible with p2-m1, and m3

Ec.822 Lower right p4

Ec.827 Lower m3

Ec.833 Lower right p3

Ec.843 Upper left D2/3

Ec.845 Lower left d3

Ed.324 Lower p3

Locality: Egerkingen β , Switzerland.

Ec.509 Upper left M3

Ec.527 Upper right P2/3

Ec.551a Upper P3

Ec.553c Right maxilla with M2-M3

Ec.555a Upper P3
Ec.556a Upper P2
Ec.557a Upper left P2
Ec.558a Upper right P4
Ec.559a Upper P4
Ec.561 Upper D4
Ec.562 Lower left m3
Ec.563 Upper P4
Ec.564 Upper right M1
Ec.565 Lower p2
Ec.567 Upper right P3
Ec.569 Lower left p4
Ec.570 Lower p2
Ec.571 Lower p2
Ec.572 Lower p2
Ec.575 Upper P2
Ec.576 Upper left P2
Ec.579 Upper D4
Ec.580 Upper D3
Ec.582 Upper right D4
Ec.584 Upper P4
Ec.593 Upper P2
Ec.594 Upper M1
Ec.597 Upper P2
Ec.601 Lower p2
Ec.603 Lower m3
Ec.615 Lower p2
Ec.836 Lower left p3
Ec.850 Lower p3
Ec.855 Lower right m1
Ec.858 Lower m3
Ec.859 Lower m3

Ec.860 Lower m1
Ec.861 Upper right M3
Ec.862 Lower m3
Ec.865 Lower m2
Ec.870 Lower p4
Ec.871 Fragment of mandible with m2
Ec.872 Lower p3/4
Ec.875 Lower p4
Ec.877 Lower m2
Ec.878 Lower m1
Ec.880 Lower p4
Ec.881 Lower right d4
Ec.882 Lower d4
Ec.883 Lower left p2
Ec.884 Lower p3
Ec.885 Lower p4
Ec.890 Lower p3/4
Ec.896 Lower m3
Ec.898 Lower d4
Ed.351 Lower d4
Ed.372 Lower right d4
Ed.373 Lower m2
Ed.390 Lower right p1
Ed.392 Lower left p1
Ed.400 Upper D3
Ed.406 Upper left P1

119 - *Plagiolophus cartieri*
STEHLIN, 1904

STEHLIN H.G. (1904).- Die Säugetiere des schweizerischen Eocaens, Zweiter Teil: *Palaeotherium - Plagiolophus - Propalaeotherium*.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 31, p. 154-258.

Valid name: *Plagiolophus cartieri* STEHLIN, 1904

Locality: Egerkingen α, Switzerland.

Lectotype (RÉMY, 2004):

Ed.454 Fragment of right maxilla with M1-M3

Paralectotypes:

Ec.779 Fragment of right maxilla with P2-P3

Ec.790 Upper right P4

Locality: Egerkingen (old collection), Switzerland.

Ed.116 Lower left d3

Ed.158 Lower left d3

Ed.217 Lower left p3

Ed.424 Lower right d4

Locality: Egerkingen β, Switzerland.

Ed.311 Upper right P4

Ed.358 Lower left d2

Ed.387 Lower left d2

ANCHILOPHIDAE MCKENNA & BELL, 1997

120 - *Anchilophus depereti* STEHLIN, 1905

STEHLIN H.G. (1905b).- Die Säugetiere des schweizerischen Eocaens, Dritter Teil: *Lophiotherium* - *Anchilophus* - *Pachynolophus* - Nachträge – Schlussbetrachtungen über die Perissodactylen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 32, p. 446-595.

Valid name: *Anchilophus depereti* STEHLIN, 1905

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

Eb.148 Upper D3

Eb.149 Upper right M3

Eb.152 Upper left M1

Eb.154 Upper M3

Eb.160 Upper left D3

Eb.161 Upper M3
Eb.163 Upper M2
Eb.212 Upper right M3
Eb.217 Upper P3
Eb.222 Upper M3
Eb.223 Upper M1
Eb.224 Upper M2
Eb.227 Upper right M3
Eb.228 Upper left M2
Eb.230 Upper M1
Eb.231 Upper M3
Eb.240 Upper left P3
Eb.242 Upper M2
Eb.247 Upper M1
Eb.434 Upper P2
Eb.442 Upper right P1
Eb.453 Upper right D3
Eb.458 Upper D3

Locality: Egerkingen a, Switzerland.

Eb.144 Upper M1
Eb.153 Upper right P4
Eb.164 Upper left M3
Eb.210 Upper D3
Eb.213 Upper M3
Eb.220 Upper right D4
Eb.232 Upper left M2
Eb.325 Upper P2
Eb.414 Upper P2
Eb.452 Right maxilla with P1-D2
Ed.67 Upper P3

Locality: Egerkingen β, Switzerland.

- Eb.147 Upper right D4
- Eb.151 Upper M3
- Eb.238 Upper right D4
- Eb.376a Fragment of maxilla with M1-M2
- Eb.466 Upper P2
- Eb.480 Upper right P3/4
- Eb.488 Upper M2
- Eb.500 Upper left P3
- Eb.503 Upper left P3
- Eb.504 Upper M1
- Eb.510 Upper M3
- Eb.511 Upper M3
- Eb.512 Upper left P4
- Eb.516 Upper M1
- Eb.533 Right maxilla with D2-D3

LOPHIODONTIDAE GILL, 1872

**121 - *Lophiodon rhinoceros*
RÜTIMEYER, 1862**

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Lophiodon rhinoceros* RÜTIMEYER, 1862

Syntypes:

Locality: Egerkingen (old collection), Switzerland.

- Ea.162 Lower right m1
- Ea.164 Lower left m1
- Ea.188 Lower left p2
- Ea.189 Lower right p3
- Ea.231 Upper right C
- Ea.234 Upper left M

Ea.237 Lower right i

HYRACHYIDAE OSBORN & WORTMANN, 1892

**122 - *Lophiodon cartieri*
RÜTIMEYER, 1862**

RÜTIMEYER L. (1862).- Eocaene Säugethiere aus dem Gebiet des Schweizerischen Jura.- *Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften*, vol. 19, p. 1-98.

Valid name: *Chasmothorium cartieri* (RÜTIMEYER, 1862)

Locality: Egerkingen (old collection), Switzerland.

Holotype:

Ea.1 Right maxilla with M1-M2

Paratypes:

Locality: Egerkingen (old collection), Switzerland.

Ea.56 Lower right p2

Ea.57 Lower left p2

Ea.79 Lower left p3

Comment: the holotype was described as *Lophiodon cartieri* by RÜTIMEYER (1862) and later associated to *Chasmothorium cartieri* by STEHLIN (1903). The paratypes were described by RÜTIMEYER (1862) as *Chasmothorium cartieri*.

**123 - *Lophiodon annectens*
RÜTIMEYER, 1891 (Fig. 18)**

RÜTIMEYER L. (1891).- Die eocäne Säugethier-Welt von Egerkingen.- *Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft*, vol. 18, p. 1-153.

Valid name: *Chasmothorium cartieri* (RÜTIMEYER, 1862)

Locality: Egerkingen (old collection), Switzerland.

Lectotype (STEHLIN, 1903):

Ea.5 Left maxilla with P1-P3

Paralectotypes:

Locality: Egerkingen (old collection), Switzerland.

Ea.7 Upper right P3

Ea.8 Upper right P3

Ea.9 Upper left P2

Ea.10 Upper left P2



Figure 18: NMB Ea.5: Lectotype of *Lophiodon annectens* RÜTIMEYER, 1891, now known as *Chasmothorium cartieri* (RÜTIMEYER, 1862). Scale bar: 10 mm.

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