

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

230

ARRANGEMENT

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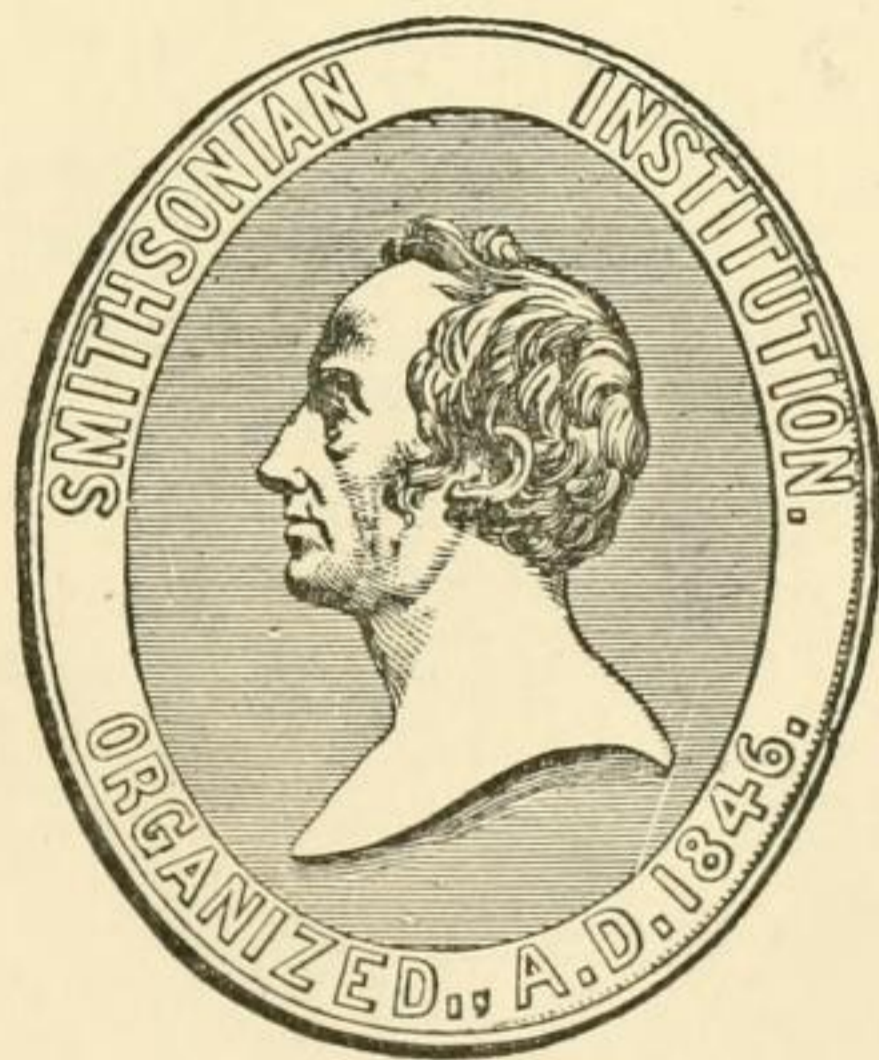
FAMILIES OF MAMMALS.

WITH ANALYTICAL TABLES.

PREPARED FOR THE SMITHSONIAN INSTITUTION.

BY

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ADVERTISEMENT.

THE following list of families of Mammals, with analytical tables, has been prepared by Dr. THEODORE GILL, at the request of the Smithsonian Institution, to serve as a basis for the arrangement of the collection of Mammals in the National Museum; and as frequent applications for such a list have been received by the Institution, it has been thought advisable to publish it for more extended use. In provisionally adopting this system for the purpose mentioned, the Institution, in accordance with its custom, disclaims all responsibility for any of the hypothetical views upon which it may be based.

JOSEPH HENRY,
Secretary, S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, October, 1872.

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ARRANGEMENT
OF
FAMILIES AND SUB-FAMILIES
OF MAMMALS.

[Adopted provisionally by the Smithsonian Institution.]

N. B.—The Fossil Families are indicated by Italics.

CLASS A.—MAMMALIA.
SUB-CLASS PLACENTALIA.
SUPER-ORDER EDUCABILIA.

(GYRENCEPHALA = MEGASTHENA + ARCHENCEPHALA =
ARCHONTIA.)

(PRIMATE SERIES.)

ORDER I.—PRIMATES.

SUB-ORDER ANTHROPOIDEA.

(*Bimana.*)

1. Hominidae = Anthropini, Huxl., M. T. & G.,
1864, i, 153.

(*Simiae.*)

(*Simiae catarrhinae.*)

2. Simiidae = Anthropomorpha, Huxl., M.
T. & G. 1864, i, 648.

- a. Simiinae = Simiina, Gray, M., L., & Fr.-eat. B., 6.
- b. Hylobatinae = Hylobatina, Gray, M., L., & Fr.-eat. B., 9.
3. Cynopithecidae = Cynopithecini, Huxl., M. T. & G., 1864, i, 671.
- a. Semnopithecinae = Sub-Family II, Mart., Man and Monkeys, 445.
- b. Cynopithecinae = Sub-Family III, Mart., Man and Monkeys, 503.

(*Simiae platyrrhinae.*)

4. Cebidae = Platyrrhini, Huxl., M. T. & G., 1864, ii, 93.
- a. Mycetinae = Mycetinae, Miv., P. Z. S., 1865, 547.
- b. Cebinae = Cebinae, Miv., P. Z. S., 1865, 547.
- c. Nyctipithecinae = Nyctipithecinae, Miv., P. Z. S., 1865, 547.
- d. Pitheciinae = Pitheciinae, Miv., P. Z. S., 1865, 547.
5. Mididae = Arctopithecini, Huxl., M. T. & G., 1864, ii, 124.

SUB-ORDER PROSIMIAE.

(*Lemuroidea.*)

6. Lemuridae = Lemuridae, Geoff., Cat. Primates, 66.

- a. Indrisinae = Indrisinae, Miv., P. Z. S.,
1866, 151.
- b. Lemurinae = Lemurinae, Miv., P. Z. S.
1867, 960.
- c. Nycticebinae = Nycticebinae, Miv., P. Z.
S., 1864, 643.
- d. Galagininae = Galagininae, Miv., P. Z. S.,
1864, 645.
7. Tarsiidae = Tarsidae, Geoff., Cat. Pri-
mates, 83.

(*Daubentoniidea.*)

8. Daubentoniidae = Cheiromyidae, Geoff., Cat.
Primates, 85.

(FERAL SERIES.)

ORDER II.—FERÆ.

SUB-ORDER FISSIPEDIA.

(*Aeluroidea.*)

(*Aeluroidea typica.*)

9. Felidae = Felidae, Fl., P. Z. S., 1869,
15-18.
- a. Felinae = Felidae, § 1, Gray, P. Z. S.,
1867, 261.
- b. Guepardinae = Felidae, § 2, Gray, P. Z. S.,
1867, 277.

c. *Machaerodontinae* > Felinae, Burm., A. M. P. B.
-A. i, 122-138.

10. Cryptoproctidae = Cryptoproctidae, Fl., P. Z.
S., 1869, 22.

(*Aeluroidea hyaeniformia.*)

11. Protelidae = Protelidae, Fl., P. Z. S.,
1869, 27, 474.

12. Hyaenidae = Hyaenidae, Fl., P. Z. S.,
1869, 26.

(*Aeluroidea viverriformia.*)

13. Viverridae = Viverridae, Fl., P. Z. S.,
1869, 18.

a. Viverrinae { Viverrina, } Gray, C. P. &
{ Genettina, } E. M., 46, 49.

b. Prionodontinae = Prionodontina, Gray, C.
P. & E. M., 52.

c. Galidiinae = Galidiina, Gray, C. P. &
E. M., 55.

d. Hemigalinae = Hemigalina, Gray, C. P. &
E. M., 56.

e. Arctictidinae = Arctictidina, Gray, C. P.
& E. M., 57.

f. Paradoxurinae = Paradoxurina, Gray, C. P.
& E. M., 59.

g. Cynogalinae = Cynogalina, Gray, P. Z. S.,
1867, 521. = *Cynogalidae.*

- h. Herpestinae = Herpestina, Gray, C. P. & E. M., 144. (h-i < *Herpestidae*.)
- i. Cynictidinae = Cynictidina, Gray, C. P. & E. M., 169.
- j. Rhinogalinae = Rhinogalina, Gray, C. P. & E. M., 172. j-k < *Rhinogalidae*.
- k. Crossarchinae < Crossarchina, Gray, C. P. & E. M., 176.
14. Eupleridae = Eupleréens, Doy., A. S. N., 2e s., iv, 1835, Z., 281.

(*Cynoidea*.)

15. Canidae = Canidae, Fl., P. Z. S., 1869, 23.
- a. Caninae = Canidae, Gray, C. P. & E. M., 178.
- b. Megalotinae = Megalotidae, Gray, C. P. & E. M., 210.

(*Arctoidea*.)

(*Arctoidea musteliformia*.)

16. Mustelidae = Mustelidae, Fl., P. Z. S., 1869, 11-14.
- a. Mustelinae = Mustelina, Gray, C. P. & E. M., 81.
- b. Melinae = Melina, Gray, C. P. & E. M., 122. (b-f < *Melinidae*.)

- c. Mellivorinae = Mellivorina, Gray, C. P. & E. M., 131.
- d. Mephitinae = Mephitina, Gray, C. P. & E. M., 133.
- e. Zorillinae = Zorillina, Gray, C. P. & E. M., 139.
- f. Helictidinae = Helictidina, Gray, C. P. & E. M., 141.
- g. Lutrinae = Lutrina, Gray, C. P. & E. M. 100. (g-h < *Mustelidae*.)
- h. Enhydrinae = Enhydrina, Gray, C. P. & E. M., 118.

(*Arctoidea typica*.)

17. Ursidae = Ursidae, Fl., P. Z. S., 1869, 6-9.

(*Arctoidea procyoniformia*.)

18. Aeluridae = Ailuridae, Fl., P. Z. S., 1869, 11, 36.
19. Cercoleptidae > Procyonidae, Fl., P. Z. S., 1869, 9, 32.
20. Procyonidae > Procyonidae, Fl., P. Z. S., 1869, 9, 32.
- a. Nasuinae = Nasuidae, Gray, C. P. & E. M., 238.
- b. Procyoninae = Procyonidae, Gray, C. P. & E. M., 242.

21. Bassarididae = Bassaridae, Gray, C. P. & E.
M., 245.

(*Fissipedia sedis incertae.*)

22. *Simocyonidae* = *Famille aujourd'hui éteinte*,
Gaudry, (320), 37.

23. *Arctocyonidae*, < *Arctocyoninae*, Giebel, Säuge-
thiere, 755.

?

24. *Hyaenodontidae* = *Hyaenodontidae*, Leidy, Ext.
Mamm. Dak. & Neb., 38.

( )

SUB-ORDER PINNIPEDIA.

(*Phocoidea.*)

25. Otariidae = Otariadae, Allen, B. M. C. Z.,
ii, 1; Gill, A. N., iv., 675.

26. Phocidae = Phocidae, Gill, C. E. I., 1866,
5, 8.

- a. Phocinae = Phocinae, Gill, C. E. I.,
1866, 5.

- b. Cystophorinae = Cystophorinae, Gill, C. E.
I., 1866, 6.

- c. Stenorhynchinae = Stenorhynchinae, Gill, C.
E. I., 1866, 6.

(*Rosmaroidea.*)

27. Rosmaridae = Rosmaridae, Gill, C. E. I.,
1866, 7.

(UNGULATE SERIES.)

ORDER III.—UNGULATA.

SUB-ORDER ARTIODACTYLI.

(*Pecora s. Ruminantia.*)

(*Pecora ? edentata.*)

- 27a. *Chalicotheriidae* = *Chalicotherium*, Falc., Pal.
Mem., i, 190, 208, 523.

(*Pecora tylopoda s. phalangigrada.*)

28. Camelidae = Camélidés, Gerv., Mamm. ii.
223.

(*Pecora unguigrada.*)

(*Pecora unguigrada typica.*)

(*Girafoidea.*)

29. Giraffidae = Girafidés, Gerv. Mamm. ii,
210.

(*Booidea.*)

(*Booidea typica.*)

30. Saigiidae = Saigiinae, Mur., P. Z. S.,
1870, 451.

31. Bovidae = Bovidés, Gerv., Mamm. ii,
174.

- a. Bovinae = Bovina, Rutim., N. D. S. G.
N., xxiii, 21.

- b. Ovibovinae < Boveae, Gray, Mamm., iii,
15.
- c. Antilopinae { Antilopeae, } G. M., iii,
{ Strepsicereae, } 45, 131.
- d. Caprinae = Capreae, Gray, Mamm., iii,
142.
- e. Ovinae = Oveae, Gray, Mamm., iii,
160.
32. Antilocapridae = Antilocapridae, Mur., P. Z. S.,
1870, 334.

(*Booidea cerviformia.*)

33. Cervidae = Cervidae, Scl., P. Z. S., 1870,
114.
- a. Cervinae = Cervinae, Scl., P. Z. S.,
1870, 114.
- b. Cervulinae = Cervulinae, Scl., P. Z. S.,
1870, 115.
- c. Moschinae = Moschinae, Scl., P. Z. S.,
1870, 115.

(*Pecora unguigrada traguloidea.*)

34. Tragulidae = Tragulidae, A. Milne Edw., A.
S. N., 5e s., ii, Z., 1864, 157.

(*Pecora unguigrada incertae sedis.*)

35. *Sivatheriidae* = *Sivatherium*, Falc., Pal. Mem.,
i, 247.

36. *Helladotheriidae* = *Famille aujourd'hui éteinte*,
Gaudry, A. F. Att. (321), 252.

(*Pecora dentata.*)

(*Oreodontoidea.*)

37. *Oreodontidae.*

a. *Oreodontinae* = *Oreodontidae*, Leidy, Ext.
Mamm. Dak. & Neb., 71.

b. *Agriochocerinae* = *Agriochoceridae*, Leidy, Ext.
Mamm. Dak. & Neb., 131.

(*Anoplotheroidea.*)

38. *Anoplotheriidae* = *Anoplotheriidae*, Leidy, Ext.
Mamm. Dak. & Neb., 206.

39. *Dichobunidae* = *Moschidae* § *Dichobunina*,
Turn, P. Z. S., 1849, 158.

(*Omnivora.*)

(*Merycopotamoidea.*)

40. *Merycopotamidae* = *Merycopotamus*, Falc., Pal.
Mem., ii, 407.

(*Hippopotamoidea.*)

41. *Hippopotamidae* = *Hippopotamidae*, Gray, C.
P. & E. M., 356.

a. *Hippopotaminae* = *Hippopotamus*, Falc., Pal.
Mem., i, 130.

b. *Choeropsinae* = *Choeropsis*, A. Milne Ed.,
R. H. N. M., 43.

*(Setifera.)**(Setifera suiiformia.)*

42. Phacochoeridae = Phacochoeridae, Gray, B. M.,
352.

43. Suidae = Suidae, Gray, C. P. & E. M.,
327.

(Setifera dicotyliformia.)

44. Dicotylidae = Dicotylidae, Gray, C. P. & E.
M., 350.

(Anthracotheroidea.)

45. *Anthracotheriidae* < Hippopotamidae, Turn., P. Z.
S., 1849, 157.

a. *Hyopotaminae* < *Anthracotheriidae*, L'dy, Ex.
Mamm. Dak. & Neb., 202.

b. *Anthracotheri-* < *Anthracotheriidae*, L'dy, Ex.
inae Mamm. Dak. & Neb., 202.

SUB-ORDER PERISSODACTYLI.

(Anchippodontoidea.)

45a. *Anchippodontidae* = Trogosus, Leidy, P. A. N.
S., Phil., 1871, 114.

(Solidungula.)

46. Equidae = Equidae, Gray, C. P. & E. M.,
2 262.

47. *Anchitheriidae* = *Anchitheridae*, Leidy, Ext.
Mamm. Dak. & Neb., 302.

(*Multungula*.)

(*Rhinocerotoides*.)

(*Rhinocerotoides rhinocerotiformis*.)

48. *Rhinocerotidae* = *Rhinocerotidae*, Gray, C. P. &
E. M., 295.

(*Rhinocerotoides macraucheniiformis*.)

49. *Macraucheniidae* = *Macrauchenia*, Burm., A. M.
B.-A., i, 32, 1864.

50. *Palaeotheriidae* < *Palaeothérioides*, Pictet, Pa-
léont., 2e ed., i, 309-313.

(*Tapiroidea*.)

51. *Tapiridae* = *Tapiridae*, Gray, C. P. & E.
M., 252.

52. *Lophiodontidae* < *Tapiroïdes*, Pictet, Paléont.,
2e ed., i, 301.

(*Pliolophoidea*.)

53. *Pliolophidae* = *Pliolophus*, Owen, Pal.,
1860, 325.

(*Perissodactyli? incertae sedis*.)

54. *Elasmothereiidae* Rhinocéroïdes, Pictet, Pa-
léont., 2e ed., i, 294.

ORDER IV.—TOXODONTIA.

55. *Nesodontidae* = *Nesodon*, Owen, Ph. T.,
1853, 291.
56. *Toxodontidae* = *Toxodon*, Burm, A. M.
B.-A., i, 254, 1864.

ORDER V.—HYRACOIDEA.

57. *Hyracidae* = *Hyracidae*, Gray, C. P. & E.
M., 279.

ORDER VI.—PROBOSCIDEA.

58. *Elephantidae* < *Proboscideae*, Falc., Pal.
Mem., ii, 1868.
- Elephantinae* = *Elephantidae*, Gray, C. P. &
E. M., 358.
- Mastodontinae* = *Mastodontidae*, Gray, C. P. &
E. M., 359.
59. *Dinothériidae* = [*Dinothériides*,] Gaudry, An.
F. Att., 321, 162.



MUTILATE SERIES.

ORDER VII.—SIRENIA.

(Halicoroidea.)

60. *Halitheriidae* < *Halicorida*, Brandt, Symb.
Siren., ii, (f. 3,) 344.

61. Halicoridae < Halicorida, Brandt, Symb.
Siren., ii, (f. 3,) 344.
62. Rhytinidae < Halicorida, Brandt, Symb.
Siren., ii, (f. 3,) 344.

(*Manatoidea.*)

63. Trichechidae = Manatida, Brandt, Symb.
Siren., ii, (f. 3,) 343.

ORDER VIII.—CETE.

SUB-ORDER ZEUGLODONTES.

64. *Basilosauridae* < *Zeuglodontes*, VanBen., Mém.
Ac. R. Belg., xxxv, 1865.
65. *Cynorcidæ* = *Cynorcidæ*, Cope, P. A. N. S.,
1867, 144.

SUB-ORDER DENTICETE.

(*Delphinoidea.*)

(*Delphinoidea platanistiformia.*)

66. Platanistidae < Platanistidae, Fl., Trans. Zool.
Soc., vi, 113, 1867.
67. Iniidae < Platanistidae, Fl., Trans.
Zool. Soc., vi, 114, 1867.

(*Delphinoidea typica.*)

68. Delphinidae > Delphinidae, Fl., Trans. Zool.
Soc., vi, 113, 1867.

- a. Pontoporiinae = Pontoporiinae, Gill, C. E. I.,
vi., 124, 1871.
- b. Delphinapterinae = Beluginae, Fl., Trans. Zool.
Soc., vi, 115, 1867.
- c. Delphininae < Delphininae, Fl., Trans.
Zool. Soc., vi, 115, 1867.
- d. Globiocephalinae < Delphininae, Fl., Trans.
Zool. Soc., vi, 115, 1867.

(*Delphinoidea ziphiiformia.*)

69. Ziphiidae = Ziphioides, Fisch, N. A. M. H.
N. P., iii, 41, 1867.
- a. Ziphiinae = Ziphiinae, Gill, C. E. I., vi,
124, 1871.
- b. Anarnacinae = Anarnacinae, Gill, C. E. I.,
vi, 124, 1871.

(*Physeteroidea.*)

70. Physeteridae = Physeteridae, Gill, A. N., iv,
727, 1871.
- a. Physeterinae = Physeterinae, Gill, A. N.,
iv, 732, 1871.
- b. Kogiinae = Kogiinae, Gill, A. N., iv,
732, 1871.

(*Denticete incertae sedis.*)

71. *Rhabdosteidae* = *Rhabdosteidae*, Gill, C. E. I.,
vi, 123, 1871.

SUB-ORDER MYSTICETE.

72. Balaenopteridae = Balaenopteridae, Fl., Proc.
Zool. Soc., 1864, 291.
- a. Agaphelinae = Agaphelinae, Gill, C. E. I.,
vi, 124, 1871.
- b. Megapterinae = Megapterinae, Fl., Proc.
Zool. Soc., 1864, 391.
- c. Balaenopterinae = Balaenopterinae, Fl., Proc.
Zool. Soc., 1864, 391.
73. Balaenidae = Balaenidae, Fl., Proc. Zool.
Soc., 1864, 389.

SUPER-ORDER INEDUCABILIA.

(LISSENCEPHALA Owen—MICROSTHENA Dana.)

(INSECTIVOROUS SERIES.)

ORDER IV.—CHIROPTERA.

SUB-ORDER ANIMALIVORA.

(Hæmatophilina.)

74. Desmodidae = Haematophilini, Huxl., P. Z.
S. L., 1865, 386.

(Histiophora.)

75. Phyllostomidae > Phyllostomidae, Gray, P. Z.
S. L., 1866, 111.

76. Mormopidae = Mormopes, Car., Handb. Zool.,
i, 83.

77. Rhinolophidae < Rhinolophidae, Gray, P. Z.
S. L., 1866, 81.
78. Megadermidae < Megadermata, Pet., M. P. A.
W. Berlin, 1865, 256.
- a. Vampyrinae = Vampiri, Pet., M. P. A. W.
Berlin, 1865, 503.
- b. Glossophaginae = Glossophagae, Pet., M. P.
A. W. Berlin, 1868, 361.
- c. Stenoderminae = Stenodermata, Pet., M. P. A.
W. Berlin, 1865, 356, 524.

(*Gymnorhina.*)

79. Vespertilionidae = Vespertiliones, Pet., M. P. A.
W. Berlin, 1865, 258, 524.
- a. Vespertilioninae = Vespertilioniens, Gerv., An.
Am. S. Cast.—Mamm., 74.
- b. Nycticejinae = Nycticéins, Gerv., Mamm.,
74.
80. Molossidae = Molossi, Pet., M. P. A. W.
Berlin, 1865, 573.
81. Noctilionidae = Brachyura, Pet., M. P. A. W.
Berlin, 1865, 257.
- a. Noctilioninae = Noctilionins, Gerv., An. Am.
S. Cast.—Mamm., 52.
- b. Emballonurinae = Noctilionins, Gerv., An. Am.
S. Cast.—Mamm., 62.

- c. Furiinae = Furia, Gerv., An. Am. S.
Cast.—Mamm., 69.

SUB-ORDER FRUGIVORA.

82. Pteropodidae = Pteropi, Pet., M. P. A. W.
Berlin, 1867, 320, 867.

ORDER VI.—INSECTIVORA.

SUB-ORDER DERMOPTERA.

83. Galeopithecidae = Galeopithecidae, Miv., J. A. &
P., ii, 1868, 124.

SUB-ORDER INSECTIVORA VERA.

(*Soricoidea.*)

84. Talpidae = Talpidae, Miv., J. A. & P., ii,
1868, 150.
a. Talpinae = Talpina, Miv., J. A. & P.,
ii, 1868, 151.
b. Myogalinae = Myogalina, Miv., J. A. &
P., ii, 1868, 152.
85. Soricidae = Soricidae, Miv., J. A. & P., ii,
1868, 153.

(*Erinaceoidea.*)

86. Erinaceidae = Erinaceidae, Miv., J. A. & P.,
ii, 1868, 146.
a. Erinaceinae = Hérissons, Gerv., H. N.
Mamm., i, 229.

b. *Gymnurinae* = *Gymnures*, Gerv., H. N. Mamm., i, 231.

(*Centetoidea.*)

87. *Centetidae* = *Centetidae*, Miv., J. A. & P., ii, 1868, 147.

a. *Centetinae* = *Tanrecs*, Gerv., H. N. Mamm., i, 233.

b. *Solenodontinae* = *Solénodontes*, Gerv., H. N. Mamm., i, 246.

88. *Pctamogalidae* = *Potamogalidae*, Allm., T. Z. S., vi, 149, 1-16.

(*Chryschloridoidea.*)

89. *Chrysochlorididae* = *Chrysochloridae*, Miv., J. A. & P., ii, 1868, 150.

(*Macroscelidoidea.*)

90. *Macroscelididae* = *Macroscelididae*, Miv., J. A. & P., ii, 1868, 143.

a. *Rhynchocyoninae* = *Rhynchocyons*, Gerv., H. N. Mamm., i, 238.

b. *Macroscelidinae* = *Macroscélidiens*, Gerv., H. N. Mamm., i, 235.

91. *Tupayidae* = *Tupaiidae*, Miv., J. A. & P., ii, 1868, 145.

(*Insectivora incertae sedis.*)

92. *Leptictidae* < *Leptictis*, Leidy, Ext. Mamm. Dak. & Neb., 345.

(RODENT SERIES.)

ORDER GLIRES.

SUB-ORDER SIMPLICIDENTATI.

(Lophiomyoidea.)

93. Lophiomyidae = Lophiomides, A. M. Edw., N.
A. M. H. N. P., iii, 114.

(Myoidea.)

94. Pedetidae = Pedetina, Car., Handb. Zool.,
i, 101.
95. Dipodidae = Dipodina, Car., Handb. Zool.,
i, 101.
96. Jaculidae = Jaculina, Car., Handb. Zool.,
i, 101.
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f. Arvicolinae = Arvicolini, Lillj., Gnag.
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98. Myoxidae = Myoxidae, Lillj., Gnag.
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99. Sacomyidae = Sacomyinae, Bd., M. N. A.,
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108. Caviidae < Caviina, Car., Handb. Zool.,
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110. Chinchillidae = Chinchillidae, Lillj., Gnag.
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112. Leporidae = Leporidae, Gray, A. & M.
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123. *Macropodidae* = *Macropodidae*, Waterh., N. H.
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124. *Tarsipedidae* = *Tarsipédidés*, Gerv., Mamm.,
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125. *Phalangistidae* = *Phalangistidae*, Owen, T. Z.
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136. *Ornithorhynchi-* > *Ornithorhynchidae*, Gray, C.
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For the information of students, and because it is information often desired, the publishers' prices of most of the works cited are given, in the currency of the country where they were published. Many of the separate monographs reprinted from journals can be obtained from the second-hand book dealers—especially the German—and from the Naturalists' Agency of Salem, Mass., but at varying prices.

In order to secure uniformity of typography, only the initial letters of the characteristic words are capital, the example of the learned brothers Grimm, as well as other German writers, sanctioning such usage for their language. The initial letters, however, of the more important words of the general titles, and to which reference is made in the list, are capitalized, corresponding with and rendering at once intelligible the abbreviated references. The punctuation of the respective title-pages is adopted. The symbol (<) denotes that the memoir after which it is inserted is contained in the volume or series whose title follows; the symbol of equality (=) denotes that the memoir is co-extensive with the volume.

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The culpable neglect of the publishers to give the dates of publication of the several fascicules has doubtless devolved upon many investigators, as upon the writer, much trouble and annoyance in ascertaining them, and to save to others similar trouble, a collation is here presented, the dates having chiefly been ascertained from Wagner’s annual reports in the “Archiv für Naturgeschichte.” The appearance of successive fascicules has not been noticed in the “Bibliographie de la France.”

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