

# *Classification of Mammals* *Above the Species Level*

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E. Eoc., M. and/or L. Eoc., ?E. Olig.; As. E. Eoc.-E. Olig.; Eu. M. and/or L. Eoc.; Mediterranean.

<sup>1</sup> (Paulow).

†*Propachynolophus* Lemoine, 1891:285, 286.

[= or including †*Hyracotherhyus* Lemoine, 1891:266.]

E. Eoc.; As. E.-M. Eoc.; Eu.

†*Palaeotherium* G. Cuvier, 1804:275-303.

[= or including †*Monacrum* Aymard, 1853:309, 311.<sup>1</sup>] [Including †*Franzenitherium* Remy, 1992:212.<sup>2</sup>]

M. Eoc.-E. Olig.; Eu.

<sup>1</sup> Named as subgenus of †*Palaeotherium*; raised to generic rank by Aymard, 1854:674.

<sup>2</sup> As subgenus.

†*Propalaeotherium* Gervais, 1849:383.

E. and/or M. Eoc.; As. E.-L. Eoc.; Eu.

†*Plagiolophus* Pomel, 1847:586.

[Including †*Paloplotherium* Owen, 1848:20-36.]

M. and/or L. Eoc.; Mediterranean. M. Eoc.-E. Olig.; Eu.

†*Pachynolophus* Pomel, 1847:327.<sup>1</sup>

M.-L. Eoc.; Eu.

<sup>1</sup> Described as subgenus of †*Lophodon*; raised to generic rank by Gervais, 1849.

†*Leptolophus* Remy, 1965:4362.

M. Eoc.; Eu.

†*Gobihippus* Dashzeveg, 1979:15.

M. and/or L. Eoc.; As.<sup>1</sup>

<sup>1</sup> E. Asia.

†*Paraplagiolophus* Depéret, 1917:60.

M. Eoc.; Eu.

†*Cantabrotherium* Casanovas-Cladellas & Santafé-Llopis, 1987:245.

L. Eoc.; Eu.

†*Franzenium* Casanovas-Cladellas & Santafé-Llopis, 1989:45.

M.-L. Eoc.; Eu.

†*Qianohippus* Miao, 1982:526.

?E. Olig.; As.

†*Pseudopalaeotherium* Franzen, 1972:317.

E. Olig.; Eu.

Suborder **CERATOMORPHA** Wood, 1937:106.<sup>1</sup>

[= TRICHENAE Gray, 1821:306; TRIDACTYLA Latreille, 1825:61.]

<sup>1</sup> We continue to use Wood's taxon for reasons of stability.

Infraorder †**SELENIDA**, new.<sup>1</sup>

[Including †TITANOTHERIOMORPHA Hooker, 1989:98; †BRONTOTHERIA Kalandadze & Rautian, 1992:111.<sup>2</sup>]

<sup>1</sup> Definition: for the most recent common ancestor of †Brontotherioidea and Chalicotherioidea, and all its descendants.

<sup>2</sup> Named as an infraorder.

Superfamily †**Brontotherioidea** Marsh, 1873:486.

[= †Brontotheriidae Marsh, 1873:486; †Brontotherioidea Hay, 1902:629;

†BRONTOTHERIA Kalandadze & Rautian, 1992:111.<sup>1</sup>] [Including †Titanotherioidea Osborn, 1898:79.]

<sup>1</sup> Named as an infraorder.

Family †**Brontotheriidae** Marsh, 1873:486.

[= †Brontotheridae Marsh, 1873:486.] [Including †Titanotheridae Flower, 1876:327;

†Titanotheriidae Flower, 1876:109; †Lambdotheriidae Cope, 1889:152;

†Palaeosyopidae Osborn, 1910:556.]

?E. Eoc., M. Eoc.-E. Olig.; As. E.-L. Eoc.; N.A. ?M. Eoc., L. Eoc., ?E. Olig.; Eu.

†*Astrohippus* Stirton, 1940:190.<sup>1</sup>

L. Mioc.-E. Plioc.; N.A.

<sup>1</sup> Proposed as a subgenus of †*Pliohippus*.

†*Hippidion* Owen, 1869:268.

[= †*Hippidium* Burmeister, 1875:5<sup>1</sup>; †*Rhinippus* Burmeister, 1875:15n.] [= †*Hippidion* including †*Hippaphlous* F. Ameghino, 1885:98<sup>2</sup>; †*Hippaphlus* F. Ameghino, 1889:502<sup>3</sup>; †*Stereohippus* F. Ameghino, 1904:275.] [Including †*Plagiohippus* Ameghino, 1908:423; †*Parahipparion* F. Ameghino, 1904:273; †*Hyperhippidion* Sefve, 1910:5.<sup>4</sup>]

L. Mioc., L. Plioc. and/or E. Pleist.; N.A. L. Plioc.-R.; S.A.<sup>5</sup>

<sup>1</sup> And almost all later writers.

<sup>2</sup> *Nomen nudum* in Ameghino, 1882.

<sup>3</sup> Correction of †*Hippaphlous*.

<sup>4</sup> Considered a subgenus of †*Parahipparion* by Sefve, 1912.

<sup>5</sup> Extinct by about 8000 BP.

†*Onohippidium* Moreno, 1891:65.

[= †*Onohippus* Burmeister, 1891:470<sup>1</sup>; †*Onohippidion* Boule & Thevin, 1920:7<sup>2</sup>; E. Plioc.; N.A. L. Plioc. and/or Pleist.; S.A.]

<sup>1</sup> *Lapsus calami*.

<sup>2</sup> Replacement name for †*Onohippidium*, which did not require replacement.

†*Dinohippus* Quinn, 1955:43.

L. Mioc.-E. Plioc.; N.A.

*Equus* Linnaeus, 1758:73. Horses, tarpan, asses, donkeys, kiang, onager, quagga, zebras, etc. [= *Caballus* Rafinesque, 1815:55.<sup>1</sup>] [Including *Asinus* Frisch, 1775:244-248<sup>2</sup>; Gray, 1824:244<sup>3</sup>; *Onager* Boddaert, 1785; *Hemionus* F. Cuvier, 1823<sup>3</sup>; *Hippopotamus* Smith, 1841:321<sup>3</sup>; †*Tomolabis* Cope, 1892:125; *Zebra* Allen, 1909:163<sup>4</sup>; *Dolichohippus* Heller, 1912:1<sup>3</sup>; *Megacephalon* Hilzheimer, 1912:95<sup>5</sup>; *Grevya* Hilzheimer, 1912:476<sup>6</sup>; †*Neohippus* Abel, 1913:754a; *Ludolphozecora* Griffini, 1913:332<sup>6</sup>; †*Euhippus* von Reichenau, 1915:150<sup>3</sup>; †*Microhippus* von Reichenau, 1915:152<sup>3</sup>; *Microhippus* Matschie, 1924:68<sup>7</sup>; †*Plesippus* Matthew, 1924:2; †*Sterrohippus* van Hoepen, 1930:6; †*Kraterohippus* van Hoepen, 1930:7; †*Kolpohippus* van Hoepen, 1930:8; †*Quagga* Shortridge, 1934:397; †*Allohippus* Kretzoi, 1938:93<sup>3</sup>; †*Macrohippus* Kretzoi, 1938:149; †*Hypsohipparion* Dietrich, 1941:219; *Megacephalonella* Strand, 1943:216<sup>6</sup>; †*Amerhippus* Hoffstetter, 1950:195; *Pseudoquagga* Hoffstetter, 1950:690<sup>3</sup>; †*Hesperohippus* Hibbard, 1955:66<sup>8</sup>; †*Allohippus* Trumler, 1961:115; *Asinohippus* Trumler, 1961:118<sup>9</sup>; †*Praehemionus* Trumler, 1961:119<sup>9</sup>; †*Hydruntinus* Radulesco & Samson, 1962:174<sup>10</sup>; †*Quaggoides* Willoughby, 1974:35<sup>3</sup>; †*Parastilidequus* Mooser & Dalquest, 1975:807.<sup>3</sup>]

E. Plioc.-L. Pleist.; N.A. L. Plioc.-R.; Af. L. Plioc.-R.; As. L. Plioc.-R.; Eu. L. Pleist.; S.A. L. Pleist.; Cent. A.<sup>11</sup>

<sup>1</sup> New name for *Equus*.

<sup>2</sup> Not published in a consistently binominal work. See the International Code of Zoological Nomenclature, Article 11(c).

<sup>3</sup> Sometimes as subgenus.

<sup>4</sup> Not *Zebra* Shuttleworth, 1856, a mollusk.

<sup>5</sup> Not *Megacephalon* Temminck, 1844, a bird.

<sup>6</sup> Replacement name for *Megacephalon* Hilzheimer. Antedated by *Dolichohippus*.

<sup>7</sup> Sometimes as subgenus. Not *Microhippus* von Reichenau, 1915.

<sup>8</sup> Proposed as a subgenus of *Equus*.

<sup>9</sup> Described as subgenus of *Hemionus*.

<sup>10</sup> (Rădulescu).

<sup>11</sup> Also introduced and now feral in North America, W. Indies (Hispaniola), South America (Colombia), Pacific (Galapagos Islands, Hawaii), Australia, New Zealand, the Chagos Islands of the Indian Ocean, and probably on other oceanic islands. Recent practically worldwide in domestication.

Family †*Palaeotheriidae* Bonaparte, 1850: unpagged chart.

[= †*Palaeotheriina* Bonaparte, 1850: unpagged chart; †*Palaeotheriidae* Girard, 1852:328; †*Palaeotherida* Haeckel, 1866:clviii; †*Palaeotheriidae* Gill, 1872:12; †*Palaeotheriinae* Remy, 1976:122; †*Palaeotheriini* Remy, 1976:122.] [Including †*Paloplotheriinae* Osborn, 1892:93; †*Pachynolophynae* Pavlow, 1877<sup>1</sup>; †*Pachynolophidae* Pavlow, 1888:136, 145.]

†*Itanzatherium* Belyaeva, 1966:92-143.  
L. Plioc. and/or E. Pleist.; As.

Subfamily **Rhinocerotinae** Gray, 1821:306. Rhinoceroses.

[= Rhynocerotidae Gray, 1821:306; Rhinocerotina C. L. Bonaparte, 1837:8<sup>1</sup>; Rhinocerotinae Dollo, 1885:295.] [Including †Elasmotheriinae Dollo, 1885:295; †Aceratheriinae Dollo, 1885:295; Ceratorhinae Osborn, 1898:121; †Atelodinae Breuning, 1923:120; Dicerorhinae Ringström, 1924:5; Dicerorhininae Simpson, 1945:142; †Caenopinae Breuning, 1924:16; †Menoceratinae Prothero, Manning & Hanson, 1986:348-349.]  
M. Eoc.-R.; As. M. Eoc.-L. Pleist.; Eu. L. Eoc.-E. Plioc.; N.A. E. Mioc.-R.; Af. E. Mioc., L. Mioc.; Cent. A. ?M. and/or ?L. Mioc.; Mediterranean. R.; E. Indies.<sup>2</sup>

<sup>1</sup> As subfamily.

<sup>2</sup> Java, Sumatra, Borneo.

†*Huananodon* You, 1977:46.

L. Eoc.; As.<sup>1</sup>

<sup>1</sup> S.E. Asia.

†*Guixia* You, 1977:48.

L. Eoc.; As.<sup>1</sup>

<sup>1</sup> S.E. Asia.

Tribe †**Diceratheriini** Dollo, 1885:295, **new rank**.

[= †Diceratheriinae Dollo, 1885:295.] [Including †Trigoniadini Heissig, in Prothero & Schoch, eds., 1989:405, 406; †Caenopini Kalandadze & Rautian, 1992:116; †Menoceratinae Prothero, Manning & Hanson, 1986:348, 349.]  
M. Eoc.-E. Olig., E.-L. Mioc., ?E. Plioc.; As. M. Eoc.-L. Mioc., ?E. Plioc.; Eu. L. Eoc.-M. Mioc.; N.A. E. Mioc.; Cent. A.

Subtribe †**Caenopina** Cope, 1887:992, **new rank**.

[= †Caenopidae Cope, 1887:992; †Caenopinae Breuning, 1924:16; †Caenopini Kalandadze & Rautian, 1992:116.] [Including †Ronzotheriinae Kretzoi, 1940:87-98; †Trigoniadini Heissig, in Prothero & Schoch, eds., 1989:405, 406.<sup>1</sup>]  
M. Eoc.-E. Olig.; As. M. Eoc.-L. Olig.; Eu. L. Eoc.-E. Olig., E. Mioc.; N.A.

<sup>1</sup> Polyphyletic or paraphyletic as described.

†*Prohyracodon* Koch, 1897:481-490.

[= or including †*Meninatherium* Abel, 1910:26.]

M. Eoc.-E. Olig.; As.<sup>1</sup> M.-L. Eoc.; Eu.<sup>2</sup>

<sup>1</sup> E. Asia.

<sup>2</sup> E. Europe.

†*Trigonias* Lucas, 1900:221.

L. Eoc.; N.A.

†*Amphicaenopus* H. E. Wood, 2nd, 1927:72.

L. Eoc.-E. Olig.; N.A.

†*Subhyracodon* Brandt, 1878:30-32.

[= or including †*Anchisodon* Cope, 1879:233; †*Anchirodon* Forbes, 1881:19.]  
[Including †*Caenopus* Cope, 1880:611; †*Leptaceratherium* Osborn, 1898:132.]  
L. Eoc.-E. Olig.; N.A.

†*Epiaceratherium* Abel, 1910:20.

E.-L. Olig.; Eu.

†*Ronzotherium* Aymard, 1854:676.

[= †*Badactherium* Croizet, 1842:49.<sup>1</sup>] [Including †*Paracaenopus* Breuning, 1923:120; †*Symphysorrhachis* Belyaeva, 1954:192, 195; †*Tongriceros* Misonne, 1957:9.]  
E. Olig.; As. E.-L. Olig.; Eu.

<sup>1</sup> *Nomen nudum*.

†*Moschoedestes* Stevens, 1969:23.

E. Mioc.; N.A.

†*Rhodopagus* Radinsky, 1965:207.  
M.-L. Eoc.; As.

†*Pataecops* Radinsky, 1966:222.  
[= †*Pataecus* Radinsky, 1965:212.<sup>1</sup>]  
M.-L. Eoc.; As.

<sup>1</sup> Not †*Pataecus* Richardson, 1844, a perciform fish.

†*Veragromovia* Gabunia, 1961.  
M. and/or L. Eoc.; As.<sup>1</sup>  
<sup>1</sup> Kazakhstan.

†*Yimengia* Wang, 1988:20.  
M. Eoc.; As.

†*Hyracodon* Leidy, 1856:91-92.  
M. Eoc.-L. Olig.; N.A.

††*Triplopides* Radinsky, 1967:30.  
L. Eoc.; N.A.

†*Ardynia* Matthew & Granger, 1923:2.  
[Including †*Ergilia* Gromova, 1952:99-119; †*Parahyracodon* Belyaeva, 1952:120-121, plate 1.]  
M. Eoc.-L. Olig.; As.

†*Epitriplopus* H. E. Wood, 2nd, 1927:19.  
M. Eoc.; N.A.

Subfamily †**Triplopodinae** Cope, 1881:340.  
[= †*Triplopodidae* Cope, 1881:340; †*Triplopodinae* Osborn, 1892:93; †*Triplopini* Kalandadze & Rautian, 1992:115.]  
M.-L. Eoc., ?L. Olig.; As. M. Eoc.; N.A.

†*Triplopus* Cope, 1880:382-383.  
[Including †*Prothyracodon* Scott & Osborn, 1887:260; †*Eotrigonias* H. E. Wood, 1927:28.]  
M. Eoc., ?L. Olig.; As. M. Eoc.; N.A.

†*Urania* Qi, 1990:218.  
L. Eoc.; As.

Subfamily †**Eggsodontinae** Breuning, 1923:119.  
[= †*Allaceropinae* H. E. Wood, 2nd, 1932:170; †*Eggsodontinae* Viret, 1958:441.]  
?E. Olig., L. Olig.; Eu. L. Olig.; As.

†*Eggsodon* Roman, 1910:1558-1560.<sup>1</sup>  
[= †*Engyodon* Stehlin, 1930:644-648<sup>2</sup>; †*Allacerops* H. E. Wood, 2nd, 1932:170.]  
?E. Olig., L. Olig.; Eu.

<sup>1</sup> Possibly referable to †*Paraceratheriinae*.

<sup>2</sup> Attempted emendation.

†*Tenisia* Reshetov, Spassov & Baishashov, 1993:716.  
L. Olig.; As.

Family **Rhinocerotidae** Gray, 1821:306.  
[= *Nasicornia* Illiger, 1811:97<sup>1</sup>; *Rhynocerotidae* Gray, 1821:306<sup>2</sup>; *Rhinocerina* Gray, 1825:343; *Rhinocerosidae* Burnett, 1830:352; *Rhinocerotidae* Owen, 1845:587; *Rhinocorida* Haeckel, 1866:clviii.<sup>3</sup>] [Including †*Elasmotheriidae* Gill, 1872:12; *Amyndodontidae* Scott & Osborn, 1883:4, 12, etc.; †*Caenopidae* Cope, 1887:926.]  
M. Eoc.-R.; As. M. Eoc.-L. Pleist.; Eu. M. Eoc.-E. Plioc.; N.A. E. Mioc.-R.; As. E. Mioc., L. Mioc.; Cent. A. ?M. and/or ?L. Mioc.; Mediterranean. R.; E. Indies.<sup>4</sup>

<sup>1</sup> Used as a family but not based upon a generic name.

<sup>2</sup> Gray spelled the Linnaeus's type genus correctly in 1821.

<sup>3</sup> Used as a family by Haeckel (1866:clviii).

<sup>4</sup> Java, Sumatra, Borneo.

†*Teletaceras* Hanson, 1989:380.  
M.-L. Eoc.; N.A. L. Eoc.; As.

†*Plesiaceratherium* Young, 1937:214.

[= †*Dromoceratherium* Crusafont Pairó, de Villalta Comella & Truyols, 1955:152-156.<sup>1</sup>]

E.-L. Mioc.; Eu. M.-L. Mioc.; As.

<sup>1</sup> *Nomen nudum* in de Villalta Comella, 1954:107-114.

†*Diaceratherium* Dietrich, 1931:203.

L. Olig.-E. Mioc.; Eu.

†*Aphelops* Cope, 1873:1-2.

M. Mioc.-E. Plioc.; N.A.

†*Hoploaceratherium* Ginsburg & Heissig, 1989:418.

M. Mioc.; As. M.-L. Mioc.; Eu.

†*Peraceras* Cope, 1880:540.

M. and/or L. Mioc.; N.A.

Subtribe **Rhinocerotina** Gray, 1821:306.

[= Rhynocerotidae Gray, 1821:306; Rhinocerina Gray, 1825:343<sup>1</sup>; Rhinocerotina Prothero & Schoch, 1989:536.] [Including †*Elasmotherina* Bonaparte, 1845:4; †*Elasmotheriina* Prothero & Schoch, 1989:536; †*Elasmotheriini* Kalandadze & Rautian, 1992:116; *Ceratorhinae* Osborn, 1898:121<sup>2</sup>; †*Atelodinae* Breuning, 1923:120; *Dicerorhinae* Ringström, 1924:5; *Dicerorhinina* Prothero & Schoch, 1989:536; *Dicerinae* Ringström, 1924:97; *Dicerotina* Prothero & Schoch, 1989:536; †*Iranotheriinae* Kretzoi, 1942:315; †*Iranotheriini* Kalandadze & Rautian, 1992:116; †*Iranotheriina* Kalandadze & Rautian, 1992:117; †*Coelodontina* Kalandadze & Rautian, 1992:116.]

L. Olig.-R.; As. L. Olig.-L. Pleist.; Eu. E. Mioc.-R.; Af. M. Mioc.-E. Plioc.; N.A. ?L. Mioc.; Mediterranean.<sup>3</sup> L. Mioc.; Cent. A. R.; E. Indies.<sup>4</sup>

<sup>1</sup> As tribe.

<sup>2</sup> Objective synonym of *Dicerorhininae* Ringstrom.

<sup>3</sup> Sicily.

<sup>4</sup> Java, Sumatra, Borneo.

Infratribe †**Teleocerati** Hay, 1902:646, **new rank**.

[= †*Teleoceratinae* Hay, 1902:646; †*Teleoceratini* Heissig, 1972:71.]

L. Olig.-L. Mioc.; As. E. Mioc.-L. Plioc.; Af. E.-L. Mioc.; Eu. M. Mioc.-E. Plioc.; N.A. L. Mioc.; Cent. A.

†*Aprotodon* Forster Cooper, 1915:408.

[= or including †*Indotherium* Kretzoi, 1942:315.]

?L. Olig., L. Mioc.; As.

†*Brachypotherium* Roger, 1904:13.

L. Olig.-M. Mioc.; As. E. Mioc.-L. Plioc.; Af. E.-L. Mioc.; Eu. ?M. Mioc.; N.A.<sup>1</sup>

<sup>1</sup> The North American reference is apparently based on a long-legged rhino that may not be true †*Brachypotherium*.

†*Teleoceras* Hatcher, 1894:149-150.

[Including †*Mesoceras* Cook, 1930:49.<sup>1</sup>]

M. Mioc.-E. Plioc.; N.A. L. Mioc.; Cent. A.

<sup>1</sup> Described as subgenus.

†*Prosantorhinus* Heissig, 1974:37.<sup>1</sup>

[= †*Brachypodella* Heissig, 1972:65.<sup>2</sup>]

E.-M. Mioc.; Eu.

<sup>1</sup> New name for †*Brachypodella* Heissig.

<sup>2</sup> Not *Brachypodella* Beck, 1837: 89, a genus of gastropods.

Infratribe †**Elasmotherii** Bonaparte, 1845:4, **new rank**.

[= †*Elasmotherina* Bonaparte, 1845:4; †*Elasmotheriina* Prothero & Schoch, 1989:536; †*Elasmotheriini* Kalandadze & Rautian, 1992:116.] [Including †*Iranotheriinae* Kretzoi, 1942:237, 315; †*Iranotheriini* Kalandadze & Rautian, 1992:116; †*Iranotheriina* Kalandadze & Rautian, 1992:117; †*Begertheriinae* Belyaeva, 1971:80.]

E. Mioc.-E. Plioc., E.-M. Pleist.; As. M. Mioc., E. Pleist.; Eu. L. Mioc.; Af.

## A CLASSIFICATION OF MAMMALS

Subtribe †*Diceratheriina* Dollo, 1885:295, new rank.  
 [= †*Diceratheriinae* Dollo, 1885:295.] [Including †*Menoceratinae* Prothero, Mann  
 & Hanson, 1986:348-349.]  
 E. Olig.-L. Mioc., ?E. Plioc.; Eu. L. Olig.-M. Mioc.; N.A. E.-L. Mioc., ?E. P.  
 As. E. Mioc.; Cent. A.

†*Protaceratherium* Abel, 1910:10.

[Including †*Proaceratherium* Ginsburg & Huguency, 1980:274.<sup>1</sup>]  
 E. Olig.-E. Mioc.; Eu. E. Mioc.; As.

<sup>1</sup> Misspelling.

†*Diceratherium* Marsh, 1875:242.

[Including †*Metacoenopus* Cook, 1909:245; †*Brachydiceratherium* Lavocat,  
 1951:113.<sup>1</sup>]  
 L. Olig.; Eu. L. Olig.-M. Mioc.; N.A. E. Mioc.; Cent. A.

<sup>1</sup> Described as a subgenus.

†*Pleuroceros* Roger, 1898:25, 26.<sup>1</sup>

L. Olig.-L. Mioc., ?E. Plioc.; Eu. E.-L. Mioc., ?E. Plioc.; As.  
<sup>1</sup> "As H. E. Wood has noted, this name is not preoccupied by †*Pleuroceros* Hyatt, 1868. The later Ter  
 species referred to this genus probably do not belong to it" (Simpson 1945:142).

†*Menoceras* Troxell, 1921:206-207.  
 E.-M. Mioc.; N.A.

Tribe *Rhinocerotini* Gray, 1821:306.

[= *Rhynocerotidae* Gray, 1821:306; *Rhinocerina* Gray, 1825:343<sup>1</sup>; *Rhinocerotini*  
 Heissig, 1972:16.] [Including *Dicerotini* Loose, 1975:7; †*Aceratheriini* Heissig,  
 1972:59; †*Teleoceratini* Heissig, 1972:71; †*Elasmotherini* Heissig, 1972:50;

†*Elasmotheriini* Kalandadze & Rautian, 1992:116; †*Dicerorhinini* Kalandadze &  
 Rautian, 1992:116; †*Iranotheriini* Kalandadze & Rautian, 1992:116.]  
 L. Olig.-R.; As. L. Olig.-L. Pleist.; Eu. E. Mioc.-R.; Af. E. Mioc.-E. Plioc.;

?M. and/or ?L. Mioc.; Mediterranean.<sup>2,3</sup> L. Mioc.; Cent. A. R.; E. Indies.<sup>4</sup>

<sup>1</sup> As tribe.

<sup>2</sup> Crete in the ?middle Miocene.

<sup>3</sup> Sicily in the late Miocene?

<sup>4</sup> Java, Sumatra, Borneo.

Subtribe †*Aceratheriina* Dollo, 1885:295, new rank.

[= †*Aceratherinae* Dollo, 1885:295; †*Aceratherini* Heissig, 1972:59; †*Aceratherini*  
 Kalandadze & Rautian, 1992:115; †*Turkanatheriinae* Deraniyagala, 1951:24.]  
 L. Olig.-L. Plioc., ?Pleist.; As. L. Olig.-E. Plioc.; Eu. E.-L. Mioc.; Af. E. Mio

E. Plioc.; N.A. ?M. Mioc.; Mediterranean.<sup>1</sup>

<sup>1</sup> Crete.

†*Aceratherium* Kaup, 1832:898-904.<sup>1</sup>

[= †*Turkanatherium* Deraniyagala, 1951:24.] [Including †*Mesaceratherium* Heissig,  
 1969:90<sup>2</sup>; †*Alicornops* Ginsburg & Guérin, 1979:114.<sup>2</sup>]  
 L. Olig.-L. Mioc., ?E. Plioc., ?Pleist.; As. L. Olig.-L. Mioc.; Eu. E.-L. Mioc.; A

?M. Mioc.; Mediterranean.<sup>3</sup>

<sup>1</sup> Proposed as subgenus of *Rhinoceros*.

<sup>2</sup> Proposed as subgenus of †*Aceratherium*.

<sup>3</sup> Crete.

†*Subchilotherium* Heissig, 1972.  
 M.-L. Mioc.; As.

†*Chilotherium* Ringström, 1924:26.  
 E. Mioc.-L. Plioc.; As. L. Mioc.-E. Plioc.; Eu.

†*Chilotheridium* Hooijer, 1971:342.  
 E.-M. Mioc.; Af.

†*Acerorhinus* Kretzoi, 1942:311.  
 Mioc.; Eu. L. Mioc.; As.

†*Floridaceras* H. E. Wood, 2nd, 1964:364.  
 E. Mioc.; N.A.

L. Plioc.-R.; As. M.-L. Pleist.; Eu.

<sup>1</sup> Preoccupied by *Gryphus* Humphries, 1797, a genus of mollusks. Also used by Brisson, 1760, for a genus of birds.

<sup>2</sup> A *lapsus*.

<sup>3</sup> Proposed as subgenus of *Rhinoceros*.

†*Gaindatherium* Colbert, 1934:1.

E. and/or M. Mioc.; Eu. M.-L. Mioc.; As.

*Rhinoceros* Linnaeus, 1758:56. One-horned rhinoceros, Indian rhinoceros, Javanese rhinoceros.

[= *Eurhinoceros* Gray, 1867:1009-1015; *Naricornis* Frisch, 1775: table.<sup>1</sup>] [= or including †*Shansirhinus* Kretzoi, 1942:311; †*Monocorerhinus* Wust, 1922:654.] [Including †*Sinorhinus* Kretzoi, 1942:317.]

?L. Mioc.; Af. E. Plioc.-R.; As. R.; E. Indies.<sup>2</sup>

<sup>1</sup> Substitute name. Invalid because not published in a consistently binominal work.

<sup>2</sup> Sumatra (now extinct) and Java.

†*Punjabitherium* Kahn, 1971:105-109.

L. Plioc.; As.<sup>1</sup>

<sup>1</sup> S. Asia (India).

†*Paradiceros* Hooijer, 1968:78.

M.-L. Mioc.; Af.

*Ceratotherium* Gray, 1868:1027. African white rhinoceros.

L. Mioc.-R.; Af. L. Mioc.; As.<sup>1</sup> ?L. Mioc.; Mediterranean.<sup>2</sup> L. Mioc.; Eu.

<sup>1</sup> W. Asia.

<sup>2</sup> Sicily.

*Diceros* Gray, 1821:306. African black rhinoceros.

[= *Opsiceros* Gloger, 1841:xxxii, 125; *Rhinaster* Gray, in Gerrard, 1862:282<sup>1</sup>; *Keitloa* Gray, 1867:1025; †*Colobognathus* Brandt, 1878:51.]

?L. Mioc., E. Plioc.-R.; Af.

<sup>1</sup> Not *Rhinaster* Wagler, 1830, a condylurine mole.

Subfamily †*Amyndontinae* Scott & Osborn, 1883:4, 12.

[= †*Amyndontidae* Scott & Osborn, 1883:4, 12; †*Amyndontinae* Kretzoi, 1942:144.]

[Including †*Cadurcotheriinae* Kretzoi, 1942:144; †*Rostriamyndontinae* Wall & Manning, 1986:911; †*Cadurcodontinae* Prothero & Schoch, 1989:534.]

M. Eoc.-E. Olig., ?L. Olig.; As. M. Eoc.-E. Olig.; N.A. L. Eoc., ?E. Olig., L. Olig., ?E. Mioc.; Eu.

†*Rostriamynodon* Wall & Manning, 1986:911.

M. Eoc.; As.

†*Gigantamynodon* Gromova, 1954:161.

L. Eoc.-E. Olig., ?L. Olig.; As.

†*Teilhardia* Matthew & Granger, 1926:4.<sup>1</sup>

M. Eoc.; As.

<sup>1</sup> Assignment to †*Amyndontinae* is questionable.

†*Caenolophus* Matthew & Granger, 1925:6.<sup>1</sup>

L. Eoc.; As.

<sup>1</sup> Assignment to †*Amyndontinae* is questionable.

†*Hypsamynodon* Gromova, 1954:165.

E. Olig.; As.

Tribe †*Amyndontini* Scott & Osborn, 1883:4, 12, **new rank**.

[= †*Amyndontidae* Scott & Osborn, 1883:4, 12.]

M. Eoc.-E. Olig.; As. M.-L. Eoc.; N.A.

†*Amyndontopsis* Stock, 1933:762.

M. Eoc.; N.A. L. Eoc.; As.<sup>1</sup>

<sup>1</sup> E. Asia (Inner Mongolia).

†*Lushiamynodon* Chow & Xu, 1965:190.

M.-L. Eoc.; As.



- †*Shennongtherium* Huang & Yan, 1983:223.  
Mioc.; As.<sup>1</sup>  
<sup>1</sup> China.
- †*Hispanotherium* Crusafont Pairó & Villalta, 1947:867.  
[Including †*Begertherium* Beliajeva, 1971:80.]  
M.-L. Mioc.; As.<sup>1</sup> M. Mioc.; Eu.  
<sup>1</sup> W. Asia (Turkey).
- †*Caementodon* Heissig, 1972:50.  
M.-L. Mioc.; As.
- †*Beliajevina* Heissig, 1974:27.  
L. Mioc.; As.<sup>1</sup>  
<sup>1</sup> W. Asia.
- †*Tesselodon* Yan, 1979:189-199.  
Mioc.; As.<sup>1</sup>  
<sup>1</sup> E. Asia (Hubei).
- †*Ninxiatherium* Chen, 1977:143.  
L. Mioc.; As.<sup>1</sup>  
<sup>1</sup> E. Asia.
- †*Iranotherium* Ringström, 1924:147.  
[Including †*Gobitherium* Kretzoi, 1943:268-271.]  
E.-M. Mioc., ?E. Plioc.; As.
- †*Kenyatherium* Aguirre & Guérin, 1974:232.  
L. Mioc.; Af.
- †*Sinootherium* Ringström, 1922.  
[Including †*Parelasmotherium* Killgus, 1923.]  
L. Mioc.-E. Plioc.; As.
- †*Elasmotherium* Fischer de Waldheim, 1808:23-28.  
[= †*Stereoceros* Duvernoy, 1853:109.]  
E.-M. Pleist.; As. E. Pleist.; Eu.

**Infratribe Rhinoceroti Gray, 1821:306, new rank.**

[= Rhinocerotidae Gray, 1821:306; Rhinocerotina Prothero & Schoch, 1989:536.]  
[Including Ceratorrhinae Osborn, 1898:121<sup>1</sup>; †Atelodinae Breuning, 1923:120;  
Dicerorhinae Ringström, 1924:5; Dicerorhinina Groves, 1983:312; Dicerinae  
Ringström, 1924:97; Dicerina Kalandadze & Rautian, 1992:116; Dicerotina Prothero  
& Schoch, 1989:536; †Lartetotheriina Groves, 1983:312; †Coelodontina Kalandadze  
& Rautian, 1992:116.]  
L. Olig.-R.; As. L. Olig.-L. Pleist.; Eu. E. Mioc.-R.; Af. ?L. Mioc.;  
Mediterranean.<sup>2</sup> R.; E. Indies.<sup>3</sup>

<sup>1</sup> Objective synonym of Dicerorhininae Ringström, 1924.

<sup>2</sup> Sicily.

<sup>3</sup> Java, Sumatra, Borneo.

*Dicerorhinus* Gloger, 1841:125. Steppe rhinoceros, Asiatic two-horned rhinoceros, Sumatran  
rhinoceros.

[= *Didermocerus* Brookes, 1828:75<sup>1</sup>; *Ceratorhinus* Gray, 1867:1021.] [Including  
†*Dihoplus* Brandt, 1878:48-51; †*Stephanorhinus* Kretzoi, 1942:348; †*Lartetotherium*  
Ginsburg, 1974:597.]  
L. Olig.-R.; As.<sup>2</sup> L. Olig.-L. Pleist.; Eu. E.-L. Mioc., L. Plioc., L. Pleist.; Af.  
E. Indies.<sup>3</sup>

<sup>1</sup> Rejected by the International Commission on Zoological Nomenclature, Opinion 1080, 1977.

<sup>2</sup> Extant in S.E. Asia.

<sup>3</sup> Sumatra, Borneo.

†*Coelodonta* Bronn, 1831:51-61. Woolly rhinoceros.

[= †*Gryphus* Schubert, 1823:718<sup>1</sup>; †*Tichorhinus* Brandt, 1849:393; †*Coelorhinus*  
Frech, 1904: table 10<sup>2</sup>; †*Procerorhinus* Kretzoi, 1942:314.] [= or including  
†*Hysterotherium* Giebel, 1847:54, 456; †*Atelodus* Pomel, 1853:114.<sup>3</sup>]

†*Zaisanamynodon* Belyaeva, 1971:39-61.

L. Eoc., ?Olig.; As.<sup>1,2</sup>

<sup>1</sup> Kazakhstan in the late Eocene.

<sup>2</sup> Mongolia in the Oligocene.

Superfamily **Tapiroidea** Gray, 1825:343.

[= *Tapirina* Gray, 1825:343; *Tapirina* Van der Hoeven, 1858; *Tapiroidea* Gill, 1872:12.] [Including †*Lophiodontoidea* Gill, 1872:83.]

†*Sastrilophus* Sahni & Khare, 1971:45.

M. and/or L. Eoc.; As.<sup>1</sup>

<sup>1</sup> S. Asia (India).

†*Indolophus* Pilgrim, 1925:22.

M. Eoc.; As.<sup>1</sup>

<sup>1</sup> S.E. Asia (Burma).

Family †**Helaletidae** Osborn, 1892:127.

[= †*Helaletinae* Wortman & Earle, 1893:173.] [Including †*Colodontinae* Wortman & Earle, 1893:173.]

E. Eoc.-E. Olig., ?L. Olig.; As. E. Eoc.; Eu. E. Eoc.-E. Olig.; N.A.

†*Cymbalophus* Hooker, 1984:230.

?E. Eoc.; As. E. Eoc.; Eu.

†*Heptodon* Cope, 1882:1029.

E.-M. Eoc.; As.<sup>1</sup> E. Eoc.; N.A.

<sup>1</sup> E. Asia.

†*Selenaletes* Radinsky, 1966:740.

E. Eoc.; N.A.

†*Helaletes* Marsh, 1872:218.

[Including †*Desmatotherium* Scott, 1883:46; †*Chasmotheroides* H. E. Wood, 2nd, 1934:187.]

M.-L. Eoc.; As. M. Eoc.; N.A.

†*Colodon* Marsh, 1890:524.

[= †*Mesotapirus* Osborn, 1889:470, 524.] [Including †*Paracolodon* Matthew & Granger, 1925:4.]

?M. Eoc., L. Eoc.-E. Olig., ?L. Olig.; As. M. Eoc.-E. Olig.; N.A.

†*Plesiocolopirus* Schoch, 1989:306-7.

L. Eoc. and/or E. Olig.; N.A.

Family †**Isectolophidae** Peterson, 1919:115.

[= †*Isectolophinae* Peterson, 1919:116; †*Isectolophomorpha* Prothero & Schoch, 1989:532.<sup>1</sup>] [Including †*Homogalaxinae* Peterson, 1919:116.]

E.-M. Eoc.; As. E.-M. Eoc.; N.A.

<sup>1</sup> Proposed as subinfraorder of infraorder MOROPOMORPHA (PERISSODACTYLA, MESAXONIA).

†*Homogalax* Hay, 1899:593.<sup>1</sup>

E.-M. Eoc.; As.<sup>2</sup> E. Eoc.; N.A.

<sup>1</sup> "In the older literature this genus is called †*Systemodon* Cope, 1881, but the type of †*Systemodon* belongs to †*Hyracotherium*" (Simpson 1945:140).

<sup>2</sup> E. Asia.

†*Orientolophus* Ding, 1993:202.<sup>1</sup>

E. Eoc.; As.

<sup>1</sup> (Ting).

†*Cardiolophus* Gingerich, 1991:194.

E. Eoc.; N.A.

†*Isectolophus* Scott & Osborn, 1887:260.

[Including †*Parisectolophus* Peterson, 1919:121; †*Schizolophodon* Peterson, 1919:122.]

M. Eoc.; N.A.

†*Amynodon* Marsh, 1877:251-252.  
 [= †*Orthocynodon* Scott & Osborn, 1882:223-225.]  
 M. Eoc.-E. Olig.; As. M. Eoc.; N.A.

†*Euryodon* Xu, Yan, Zhou, Han & Zhang, 1979:428.  
 M. Eoc.; As.<sup>1</sup>  
<sup>1</sup> E. Asia.

†*Armania* Gabuniya & Dashzeveg, 1988:244.  
 L. Eoc.; As.

†*Sharamynodon* Kretzoi, 1942:145.  
 L. Eoc.; As.

†*Mesamynodon* Peterson, 1931:71.  
 M. Eoc.; N.A.

†*Toxotherium* H. E. Wood, 2nd, 1961:1.  
 M.-L. Eoc.; N.A.

†*Penetrigonias* Tanner & Martin, 1976:212.  
 L. Eoc.; N.A.

Tribe †**Cadurcotheriini** Kretzoi, 1942:144, **new rank**.

[= †*Cadurcotheriinae* Kretzoi, 1942:144.] [Including †*Cadurcodontini* Kalandadze & Rautian, 1992:115.]  
 M.-L. Eoc., Olig.; As. M. Eoc.-E. Olig.; N.A. L. Eoc., ?E. Olig., L. Olig., ?E. Mioc.; Eu.

Subtribe †**Cadurcotheriina** Kretzoi, 1942:144, **new rank**.

[= †*Cadurcotheriinae* Kretzoi, 1942:144.] [Including †*Cadurcodontini* Wall, 1982:564. †*Cadurcodontinae* Prothero & Schoch, 1989:534.]  
 L. Eoc., Olig.; As. L. Eoc., ?E. Olig., L. Olig., ?E. Mioc.; Eu. L. Eoc. and/or E. Olig.; N.A.

†*Cadurcodon* Kretzoi, 1942:146.  
 [Including †*Paracadurcodon* Xu, 1966:145.]  
 L. Eoc., Olig.; As. L. Eoc., L. Olig.; Eu.<sup>1</sup>  
<sup>1</sup> E. Europe.

†*Procadurcodon* Gromova, 1960:129.  
 L. Eoc. and/or E. Olig.; As.

†*Sianodon* Xu, 1965:83.  
 L. Eoc. and/or E. Olig.; As.

†*Cadurcopsis* Kretzoi, 1942:140.  
 L. Eoc. and/or E. Olig.; N.A.

†*Cadurcotherium* Gervais, 1873:106.  
 Olig.; As. Olig., ?E. Mioc.; Eu.

†*Cadurcamynodon* Kretzoi, 1942:146.  
 L. Olig.; Eu.

Subtribe †**Metamynodontina** Kretzoi, 1942:145, **new rank**.

[= †*Metamynodontinae* Kretzoi, 1942:145; †*Metamynodontini* Wall, 1982:564.]  
 [Including †*Paramynodontinae* Kretzoi, 1942:145.]  
 M.-L. Eoc., Olig.; As. M. Eoc.-E. Olig.; N.A.

†*Metamynodon* Scott & Osborn, 1887:165-169.  
 M. Eoc.-E. Olig.; N.A. Olig.; As.

†*Megalamynodon* H. E. Wood, 2nd, in Scott, 1945:250.  
 M. Eoc.; N.A.

†*Paramynodon* Matthew, 1929:512.  
 M. Eoc.; As.<sup>1</sup>  
<sup>1</sup> S.E. Asia (Burma).