

Class **Mammalia** Linnaeus, 1758<sup>1,2</sup> (2 subclasses)

Subclass **Prototheria** Gill, 1872 (1 order)

Order **Monotremata** Bonaparte, 1837 (2 families)

Family **Tachyglossidae** Gill, 1872 (2 genera, 4 species)

Family **Ornithorhynchidae** Gray, 1825 (1 genus, 1 species)

Subclass **Theria** Parker and Haswell, 1897 (2 infraclasses)

Infraclass **Marsupialia** Illiger, 1811 (7 orders)

Order **Didelphimorphia** Gill, 1872 (1 family)

Family **Didelphidae** Gray, 1821 (18 genera, 93 species)

Order **Paucituberculata** Ameghino, 1894 (1 family)

Family **Caenolestidae** Trouessart, 1898 (3 genera, 7 species)

Order **Microbiotheria** Ameghino, 1889 (1 family)

Family **Microbiotheriidae** Ameghino, 1887 (1 genus, 1 species)

Order **Notoryctemorphia** Kirsch, in Hunsaker, 1977 (1 family)

Family **Notoryctidae** Ogilby, 1892 (1 genus, 2 species)

Order **Dasyuromorphia** Gill, 1872 (3 families)

Family **Thylacinidae** Bonaparte, 1838 (1 genus, 1 species)

Family **Myrmecobiidae** Waterhouse, 1841 (1 genus, 1 species)

Family **Dasyuridae** Goldfuss, 1820 (20 genera, 70 species)

Order **Paramelemorphia** Ameghino, 1889 (3 families)

Family **Thylacomyidae** Bensley, 1903 (1 genus, 2 species)

Family **Chaeropodidae** Gill, 1872 (1 genus, 1 species)

Family **Peramelidae** 6 genera, 19 species)

Order **Diprotodontia** Owen, 1866 (3 suborders)

Suborder **Vombatiformes** Burnett, 1830 (2 families)

Family **Phascolarctidae** Owen, 1839 (1 genus, 1 species)

Family **Vombatidae** Burnett, 1830 (2 genera, 3 species)

Suborder **Phalangeriformes** Szalay, in Archer, 1982 (2 superfamilies)

Superfamily **Phalangeroidea** Thomas, 1888 (2 families)

Family **Burramyidae** Broom, 1898 (2 genera, 5 species)

Family **Phalangeridae** Thomas, 1888 (6 genera, 30 species)

Superfamily **Petauroidea** Bonaparte, 1838 (4 families)

Family **Pseudocheiridae** Winge, 1893 (6 genera, 17 species)

Family **Petauridae** Bonaparte, 1838 (3 genera, 11 species)

Family **Tarsipedidae** Gervais and Verreaux, 1842 (1 genus, 1 species)

Family **Acrobatidae** Aplin, 1987 (2 genera, 2 species)

Suborder **Macropodiformes** Ameghino, 1889 (3 families)

Family **Hypsiprymmodontidae** Collett, 1877 (1 genus, 1 species)

Family **Potoroidae** Gray, 1821 (4 genera, 10 species)

Family **Macropodidae** Gray, 1821 (11 genera, 65 species)

Infraclass **Placentalia** Owen, 1837 (21 Orders)

Order **Afrosoricida** Stanhope, 1998 (2 suborders)

Suborder **Tenrecomorpha** Butler, 1792 (1 family)

Family **Tenrecidae** Gray, 1821 (10 genera, 31 species)

Suborder **Chrysochloridea** Bloom, 1915 (1 family)

Family **Chrysochloridae** Gray, 1825 (9 genera, 22 species)

Order **Macroscelidea** Butler, 1956 (1 family)

Family **Macroscelididae** Bonaparte, 1838 (4 genera, 15 species)

Order **Tubulidentata** Huxley, 1872 (1 family)

1. **BY** D.E. Wilson & D.M. Reeder (for full contact details, see **Author names and addresses** after **References**). The title of this contribution should be cited as "Class Mammalia Linnaeus, 1758. *In*: Zhang, Z.-Q. (Ed.) *Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness*".
2. Classification of Recent Mammalia based on Wilson & Reeder (2005), with numbers updated in some cases. Recent Mammalia currently includes 157 families, 1,230 genera and 5,750 species

- Family Orycteropodidae Gray, 1821 (1 genus, 1 species)
- Order **Hyracoidea** Huxley, 1869 (1 family)
  - Family Procaviidae Thomas, 1892 (3 genera, 5 species)
- Order **Proboscidea** Illiger, 1811 (1 family)
  - Family Elephantidae Gray, 1821 (2 genera, 3 species)
- Order **Sirenia** Illiger, 1811 (2 families)
  - Family Dugongidae Gray, 1821 (1 genus, 1 species)
  - Family Trichechidae Gill, 1872 (1 genus, 3 species)
- Order **Cingulata** Illiger, 1811 (1 family)
  - Family Dasypodidae Gray, 1821 (9 genera, 21 species)
- Order **Pilosa** Flower, 1883 (2 suborders)
  - Suborder Folivora Delsuc et al., 2001 (2 families)
    - Family Bradypodidae Gray, 1821 (1 genus, 4 species)
    - Family Megalonychidae Ameghino, 1889 (1 genus, 2 species)
  - Suborder Vermilingua Illiger, 1811 (2 families)
    - Family Cyclopedidae Pocock, 1924 (1 genus, 1 species)
    - Family Myrmecophagidae Gray 1825 (2 genera, 3 species)
- Order **Scandentia** Wagner, 1855 (2 families)
  - Family Tupaiidae Gray, 1825 (4 genera, 19 species)
  - Family Ptilocercidae Lyon, 1913 (1 genus, 1 species)
- Order **Dermoptera** Illiger, 1811 (1 family)
  - Family Cynocephalidae Simpson, 1945 (2 genera, 2 species)
- Order **Primates** Linnaeus, 1758 (2 suborders)
  - Suborder Strepsirrhini Geoffroy Saint-Hilaire, 1812 (3 infraorders)
    - Infraorder Lemuriformes Gray, 1821 (2 superfamilies)
      - Superfamily Cheirogaleoidea Gray, 1873 (1 family)
        - Family Cheirogaleidae Gray, 1873 (5 genera, 25 species)
      - Superfamily Lemuroidea Gray, 1821 (3 families)
        - Family Lemuridae Gray, 1821 (5 genera, 20 species)
        - Family Lepilemuridae Gray, 1870 (1 genus, 11 species)
        - Family Indridae Burnett, 1828 (3 genera, 12 species)
    - Infraorder Chiromyiformes Anthony & Coupin, 1931 (1 family)
      - Family Daubentoniidae (1 genus, 1 species)
    - Infraorder Lorisiformes Gregory, 1915 (2 families)
      - Family Lorisidae Gray, 1821 (5 genera, 9 species)
      - Family Galagidae Gray, 1825 (3 genera 19 species)
  - Suborder Haplorrhini Pocock, 1918 (2 infraorders)
    - Infraorder Tarsiiformes Gregory, 1915 (1 family)
      - Family Tarsiidae Gray, 1825 (1 genus, 8 species)
    - Infraorder Simiiformes Haeckel, 1866 (2 parvorders)
      - Parvorder Platyrrhini Geoffroy St. Hilaire, 1812 (4 families)
        - Family Cebidae Bonaparte, 1831 (6 genera, 60 species)
        - Family Aotidae Elliot, 1913 (1 genus, 8 species)
        - Family Pitheciidae Mivart, 1865 (4 genera, 42 species)
        - Family Atelidae Gray, 1825 (5 genera, 25 species)
      - Parvorder Catarrhini Geoffroy St. Hilaire, 1812 (2 superfamilies)
        - Superfamily Cercopithecoidea Gray 1821 (1 family)
          - Family Cercopithecidae Gray, 1821 (21 genera, 135 species)
        - Superfamily Hominoidea Gray, 1825 (2 families)
          - Family Hylobatidae Gray, 1871 (4 genera, 14 species)
          - Family Hominidae Gray, 1825 (4 genera, 7 species)
- Order **Rodentia** Bowdich, 1821 (5 suborders)
  - Suborder Sciuromorpha Brandt, 1855 (3 families)
    - Family Aplodontiidae Brandt, 1855 (1 genus, 1 species)

- Family Sciuridae Fischer, 1817 (58 genera, 285 species)
- Family Gliridae Muirhead, 1819 (9 genera, 28 species)
- Suborder Castorimorpha Wood, 1955 (3 families)
  - Family Castoridae Hemprich 1820 (1 genus, 2 species)
  - Family Heteromyidae Gray, 1868 (6 genera, 62 species)
  - Family Geomyidae Bonaparte, 1845 (6 genera, 40 species)
- Suborder Myomorpha Brandt, 1855 (2 superfamilies)
  - Superfamily Dipodoidea Fischer, 1817 (1 family)
    - Family Dipodidae Fischer, 1817 (16 genera, 51 species)
  - Superfamily Muroidea Illiger, 1811 (6 families)
    - Family Platacanthomyidae (2 genera, 2 species)
    - Family Spalacidae Gray, 1821 (6 genera, 37 species)
    - Family Calomyscidae Vorontsov & Potapova, 1979 (1 genus, 8 species)
    - Family Nesomyidae Major, 1807 (21 genera, 65 species)
    - Family Cricetidae Fischer, 1817 (130 genera, 700 species)
    - Family Muridae Illiger, 1811 (150 genera, 752 species)
  - Suborder Anomaluromorpha Bugge, 1974 (2 families)
    - Family Anomaluridae Gervais, 1849 (3 genera, 7 species)
    - Family Pedetidae Gray, 1825 (1 genus, 2 species)
- Suborder Hystricomorpha Brandt, 1855 (2 infraorders)
  - Infraorder Ctenodactylomorphi Chaline & Mein, 1979 (2 families)
    - Family Ctenodactylidae Chaline & Mein, 1979 (4 genera, 5 species)
    - Family Diatomyidae Mein & Ginsberg, 1997 (1 genus, 1 species)
  - Infraorder Hystricognathi Tullberg, 1899 (18 families)
    - Family Bathyergidae Waterhouse, 1841 (5 genera, 16 species)
    - Family Hystricidae Fischer, 1817 (3 genera, 11 species)
    - Family Petromuridae Tullberg, 1899 (1 genus, 1 species)
    - Family Thryonomyidae Fitzinger, 1867 (1 genus, 2 species)
    - Family Erethizontidae Bonaparte, 1845 (5 genera, 16 species)
    - Family Chinchillidae Bennett, 1833 (3 genera, 7 species)
    - Family Dinomyidae Peters, 1873 (1 genus, 1 species)
    - Family Caviidae Fischer, 1817 (6 genera, 20 species)
    - Family Dasyproctidae Bonaparte, 1838 (2 genera, 13 species)
    - Family Cuniculidae Miller & Gidley, 1918 (1 genus, 2 species)
    - Family Ctenomyidae Lesson, 1842 (1 genus, 60 species)
    - Family Octodontidae Waterhouse, 1840 (8 genera, 13 species)
    - Family Abrocomidae Miller & Gidley, 1918 (2 genera, 10 species)
    - Family Echimyidae Gray, 1825 (21 genera, 92 species)
    - Family Myocastoridae Ameghino, 1904 (1 genus, 1 species)
    - Family Capromyidae Smith, 1842 (8 genera, 20 species)
    - Family Heptaxodontidae Anthony, 1917 (4 genera, 4 species)
- Order **Lagomorpha** Brandt, 1855 (3 families)
  - Family Ochotonidae Thomas, 1897 (1 genus, 30 species)
  - Family Prolagidae Gureev, 1964 (1 genus, 1 species)
  - Family Leporidae Fischer, 1817 (11 genera, 61 species)
- Order **Erinaceomorpha** Gregory, 1910 (1 family)
  - Family Erinaceidae Fischer, 1814 (10 genera, 24 species)
- Order **Soricomorpha** Gregory, 1910 (3 families)
  - Family Solenodontidae Gill, 1872 (1 genus, 4 species)
  - Family Soricidae Fischer, 1814 (26 genera, 385 species)
  - Family Talpidae Fischer, 1814 (17 genera, 39 species)
- Order **Chiroptera** Blumenbach, 1779 (18 families)
  - Family Pteropodidae Gray, 1821 (42 genera, 190 species)
  - Family Rhinolophidae Gray, 1825 (1 genus, 80 species)

- Family Hipposideridae Lydekker, 1891 (9 genera, 85 species)
- Family Megadermatidae Allen, 1864 (4 genera, 5 species)
- Family Rhinopomatidae Bonaparte, 1838 (1 genus, 4 species)
- Family Craseonycteridae Hill, 1974 (1 genus, 1 species)
- Family Emballonuridae Gervais, 1855 (13 genera, 51 species)
- Family Nycteridae Van der Hoeven, 1855 (1 genus, 16 species)
- Family Myzopodidae Thomas, 1904 (1 genus, 1 species)
- Family Mystacinidae Dobson, 1875 (1 genus, 2 species)
- Family Phyllostomidae Gray, 1825 (55 genera, 180 species)
- Family Mormoopidae Saussure, 1860 (2 genera, 10 species)
- Family Noctilionidae Gray, 1821 (1 genus, 2 species)
- Family Furipteridae Gray, 1866 (2 genera, 2 species)
- Family Thyropteridae Miller, 1907 (1 genus, 4 species)
- Family Natalidae Gray, 1866 (3 genera, 9 species)
- Family Molossidae Gervais, 1856 (16 genera, 104 species)
- Family Vespertilionidae Gray, 1821 (48 genera, 425 species)
- Order **Pholidota** (1 family)
  - Family Manidae Gray, 1821 (1 genus, 8 species)
- Order **Carnivora** Bowdich, 1821 (2 suborders)
  - Suborder Feliformia Kretzoi, 1945 (7 families)
    - Family Nandiniidae Pocock, 1929 (1 genus, 1 species)
    - Family Felidae Fischer, 1817 (14 genera, 40 species)
    - Family Prionodontidae Pocock, 1933 (1 genus, 2 species)
    - Family Viverridae Gray, 1821 (14 genera, 34 species)
    - Family Hyaenidae Gray, 1821 (4 genera, 4 species)
    - Family Herpestidae Bonaparte, 1845 (15 genera, 34 species)
    - Family Eupleridae Chenu, 1850 (7 genera, 8 species)
  - Suborder Caniformia Kretzoi, 1938 (9 families)
    - Family Canidae Fischer, 1817 (13 genera, 35 species)
    - Family Ursidae Fischer, 1817 (5 genera, 8 species)
    - Family Otariidae Gray, 1825 (7 genera, 16 species)
    - Family Odobenidae Allen, 1880 (1 genus, 1 species)
    - Family Phocidae Gray, 1821 (13 genera, 19 species)
    - Family Ailuridae Gray, 1843 (1 genus, 1 species)
    - Family Procyonidae Gray, 1825 (6 genera, 12 species)
    - Family Mephitidae Bonaparte, 1845 (4 genera, 12 species)
    - Family Mustelidae Fischer, 1817 (22 genera, 57 species)
- Order **Perissodactyla** Owen, 1848 (3 families)
  - Family Equidae Gray, 1821 (1 genus, 7 species)
  - Family Rhinocerotidae Gray, 1821 (4 genera, 5 species)
  - Family Tapiridae Gray, 1821 (1 genus, 4 species)
- Order **Artiodactyla** Owen, 1848 (10 families)
  - Family Camelidae Gray, 1821 (3 genera, 6 species)
  - Family Suidae Gray, 1821 (6 genera, 17 species)
  - Family Tayassuidae Palmer, 1897 (3 genera, 3 species)
  - Family Hippopotamidae Gray, 1821 (2 genera, 2 species)
  - Family Tragulidae Milne-Edwards, 1864 (3 genera, 10 species)
  - Family Moschidae Gray, 1821 (1 genus, 7 species)
  - Family Cervidae Goldfuss, 1820 (18 genera, 53 species)
  - Family Bovidae Gray, 1821 (54 genera, 280 species)
  - Family Antilocapridae Gray, 1866 (1 genus, 1 species)
  - Family Giraffidae Gray, 1821 (2 genera, 2 species)
- Order **Cetacea** Brisson, 1762 (2 suborders)
  - Suborder Mysticeti Flower, 1864 (4 families)

- Family Balaenidae Gray, 1821 (2 genera, 4 species)
- Family Balaenopteridae Gray, 1864 (2 genera, 8 species)
- Family Eschrichtiidae Ellerman & Morrison-Scott, 1951 (1 genus, 1 species)
- Family Neobalaenidae Gray, 1873 (1 genus, 1 species)
- Suborder Odontoceti Flower, 1867 (7 families)
  - Family Delphinidae Gray, 1821 (17 genera, 36 species)
  - Family Monodontidae Gray, 1821 (2 genera, 2 species)
  - Family Phocoenidae Gray, 1825 (3 genera, 6 species)
  - Family Physeteridae Gray, 1821 (1 genus, 1 species)
  - Family Kogiidae Gill, 1871 (1 genus, 2 species)
  - Family Platanistidae Gray, 1846 (1 genus, 2 species)
  - Family Iniidae Gray, 1846 (1 genus, 2 species)
  - Family Lipotidae Zhou, Quian & Li, 1978 (1 genus, 1 species)
  - Family Pontoporiidae Gray, 1870 (1 genus, 1 species)
  - Family Ziphiidae Gray, 1865 (6 genera, 21 species)

## References

Wilson, D.E. & Reeder, D.M. (2005) *Mammal Species of the World, Third Edition*. Johns Hopkins University Press, 2 volumes, 2,142 pages.

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