

Flinders Academic

Science Club

**direct.me/flasc**

LEGEND

SCIENTIFIC TAXON NAME

(Selected taxon trait)

SCIENTIFIC TAXON NAME

Common name(s), or ‘e.g.’ then major examples. Singular/plural terms refer to one/many species

Num. extant species

**Created 2024. Branch lengths & unlabeled intersections have no meaning. The  
full tree incl. extinct species is far more complex. Data is subject to ongoing research. All information was adapted from Kurzgesagt’s much prettier ‘Map of Evolution’ poster, created in 2021 and available for sale online. Their data was primarily from Open Tree of Life, accessed via OneZoom Tree of Life Explorer.**

Cercopithecidae

e.g. Macaques, Baboons & Colobines

122

Hominidae

e.g. Gibbons & Great Apes

24

CatArrhini

(Opposable Thumbs)

(Prehensile Tail)

Playtyrrhini

e.g. Marmosets & Tamarins

95

SimiiFormes

TarsiIformes

Tarsiers

7

Loriformes

e.g. Lorises & Galagos

25

Haplorrhini

Hystricomorpha

e.g. Porcupines, Chinchillas & Guinea Pigs

238

Castorimorpha

e.g. Beavers, Kangaroo Rats & Pocket Gophers

98

Lemuriformes

Lemurs

96

Strepsirrhini

Myomorpha

e.g. Mice,

Rats &

Gerbils

1,447

Sciuromorpha

e.g. Squirrels, Chipmunks & Flying Squirrels

304

Primates

Rodentia

Dermoptera

Flying Lemurs

4

Lagomorpha

Hares, Pikas & Rabbits

86

Scandentia

Tree Shrews

20

Euarchonta

Bovidae

e.g. Sheep, Cows & Duikers

137

Cervidae

e.g. Deer & Moose

45

Giraffidae

Giraffes & Okapi

2

Ruminantia

(Multichambered Stomach)

Cetacea

Whales, Dolphins & Porpoises

83

Hippopotamidae

Hippopotamuses

2

Suidae

Pigs & Hogs

18

Camelidae

e.g. Camels & Llama

6

ArtiodactylA

(Bearing Body Weight on an Even Number of Toes per Foot)

PerissoDactyla

Horses, Zebra, Rhinoceroses & Tapirs

16

(Bearing Body Weight on an Odd Number of Toes per Foot)

PinniPedia

Seals, Sea Lions & Walrus

35

MustEloidea

e.g. Otters, Skunks, Badgers, Raccoons & Red Panda

86

Ursidae

Bears & Giant Panda

8

Canidae

e.g. Dogs, Wolves & Foxes

34

Felidae

e.g. Tigers,  
Cats, Leopards & Cheetah

40

Herpestidae

Mongooses

33

Hyaenidae

Hyenas

4

Caniformia

Feliformia

Carnivora

(Carnassials)

Pholidota

Pangolins

8

YinpteroChiroptera

e.g. Megabats,

Horseshoe Bats &

False Vampire Bats

331

Yangochiroptera

e.g. Vesper Bats & Leaf-Nosed Bats

724

Chiroptera

(Flight)

Eulipotyphla

e.g. Moles, Desmans, Solenodons, Hedgehogs & Shrews

392

Laurasiatheria

Sirenia

Sea Cows

4

Proboscidea

Elephants

3

Hyracoidea

Hyraxes

4

Paenungulata

(Prominent Incisors)

Afroinsectivora

e.g. Elephant Shrews, Golden Moles & Tenrecs

57

Tubulidentata

Aardvark

1

Afrotheria

Cingulata

Armadillos

20

Pilosa

Sloths & Anteaters

10

Xenarthra

Atlantogenata

Macropodiformes

e.g. Kangaroos & Wallabies

65

Phalangeriformes

e.g. Possums & Gliders

57

Vombatiformes

Wombats & Koala

4

Diprotodontia

DasyUroMorphia

e.g. Quolls,

Dunnarts,

Numbat &

Tasmanian Devil

64

Microbiotheria

Monito Del

Monte

1

PauCitUBerculata

Shrew Opossums

5

Didelphimorphia

Opossums

84

Marsupiala

(Marsupial Pouch)

Tachyglossidae

Echidnas

4

Ornithorhynchidae

Platypus

1

Monotrema

Neoaves

e.g. Flamingos, Pigeons, Owls, Falcons, Parrots & Songbirds

9,491

Galloanserae

e.g. Ducks, Swans, Curassows & Pheasants

448

Neognathae

Palaeognathae

e.g. Tinamous, Ostrich, Emu & Kiwis

61

Aves

(Toothless Beak)

✝︎Archaeopterygidae

e.g. Archaeopteryx

0

Avialae

(Flight)

✝︎Dromaeosauridae

e.g. Velociraptor

0

Pennaraptora

(Complete, Wing-Forming Feathers)

✝︎Tyranosauridae

e.g. Tyrannosaurus

0

Therapoda

(Wishbone)

✝︎Thyreophora

e.g. Ankylosaurus & Stegosaurus

0

Saurischia

(Air-Filled Bones)

✝︎CeraPoda

e.g. Parasaurolophus, Triceratops & Iguanodon

0

✝︎Ornithischia

✝︎SAUROPODOMORPHA

e.g. Brachiosaurus, Diplodocus, Apatosaurus  
& Brontosaurus

0

Dinosauria

(Flight)

✝︎Pterosauria

e.g. Quetzalcoatlus & Pterodactylus

0

Crocodylia

e.g. Crocodiles & Caimans

23

Archosauria

Testudines

Turtles

231

Iguania

e.g. Iguanas, Chameleons & Anoles

1,988

Serpentes

Snakes

3,878

Episquamata

SCINCIDAE

Skinks

1,724

UNIDENTATA

GEKKOTA

e.g. Geckos

1,912

SQUAMATA

RHYNOCHOCEPHALIA

Tuatara

1

Archelosauria

LEPIDOSAURIA

(Detachable Tail)

SAUROPSIDA

(Dry, Scaly Skin)

ANURA

Frogs & Toads

7,672

CAUDATA

e.g. Salamanders  
& Newts

778

BATRACHIA

GYMNOPHIONA

Caecilians

228

AMPHIBIA

(Permeable Skin)

DIPNOI

Lungfishes

6

Latimeriidae

Coelacanths

2

HOLOSTEI

Bowfin & Gars

8

TELEOSTEI

e.g. Eels, Elephant  
Fishes, Herrings,  
Smelts, Lantern Fishes,  
Salmon, Piranhas & Seahorses

34,381

NEOPTERYGII

(Highly Mobile Upper Jaw)

ACIPENSERIFORMES

Sturgeons & Paddlefishes

24

ACTINOPTERI

POLYPTERIFORMES

Bichirs & Reedfish

15

ACTINOPTERYGII

(Ray Fins)

(Cartilaginous Skeleton)

Chondrichtyes

e.g. Sharks, Rays & Chimaeras

1,256

CYCLOSTOMATA

e.g. Hagfishes & Lampreys

114

TUNICATA

e.g. Sea Squirts, Salps, Sea Tulips & Ascidians

3,210

CEPHALOCHORDATA

Lancelets

31

ECHINODERMATA

e.g. Starfish, Sea Cucumbers, Sea Urchins & Sea Lilies

8,741

Heterobranchia

e.g. Sea Slugs, Leaf Snails

& Helicid Snails

30,512

CAENOGASTROPODA

e.g. Cowries, Margin Snails

& Murexes

34,966

GASTROPODA

BIVALVIA

e.g. Clams, Oysters, Scallops & Mussels

14,063

Decapodiformes

Squids &

Cuttlefishes

549

(Tentacles)

OCTOPODIFORMES

Octopuses & Vampire Squid

324

COLOIDEA

(Soft Body without an Outer Shell)

nautilidae

Nautiluses

49

CEPHALOPODA

(Grasping Appendages)

POLYPLACOPHORA

Chitons

1,276

MOLLUSCA

(Pallium)

ANNELIDA

e.g. Earthworms & Leeches

22,053

TROCHOZOA

PLATYHELMINTHES

e.g. Tapeworms, Flukes & Marine Flatworms

24,307

SPIRALIA

DICTYOPTERA

Termites, Cockroaches & Mantises

10,573

ORTHOPTERA

e.g. Grasshoppers, Crickets & Katydids

27,600

POLYNEOPTERA

(Connected Wings)

HYMENOPTERA

Ants, Bees & Wasps

135,912

DIPTERA

True Flies, Mosquitoes & Gnats

160,944

LEPIDOPTERA

Butterflies & Moths

178,567

COLEOPTERA

Beetles

283,402

NEOPTERA

(Folding Wing)

HEMIPTERA

e.g. True Bugs, Cicadas, Leafhoppers

& Aphids

102,090

HOLOMETABOLA

(Complete Metamorphosis)

ODONATA

Dragonflies & Damselflies

6,154

PTERYGOTA

(Flight)

ZYGENTOMA

Silverfish & Firebrats

139

INSECTA

COLLEMBOLA

Springtails

4,798

HEXAPODA

(Three Pairs of Legs)

BRANCHIOPODA

e.g. Fairy Shrimps, Clam Shrimps & Water Fleas

1,816

EUCARIDA

e.g. Lobsters, Crabs, Shrimps & Krill

19,127

ISOPODA

e.g. Woodlice & Fish Doctors

11,065

AMPHIPODA

e.g. Skeleton Shrimps & Gammarid Amphipods

10,906

MALACOSTRACA

Pancrustacea

MYRIAPODA

e.g. Millipedes & Centipedes

18,169

Mandibulata

(Mandibles)

ARACHNIDA

e.g. Spiders, Scorpions & Mites

93,436

XIPHOSURA

Horseshoe Crabs

13

CHELICERATA

(Pincer-Shaped Mouthparts)

ARTHROPODA

(Hardened Cuticles Made of Chitin & Jointed Limbs)

ONYCHOPHORA

Velvet Worms

218

TARDIGRADA

Waterbears

1,317

NEMATODA

Round Worms

18,509

ECDYSOZOA

(Ecdysis)

PROTOSTOMIA

(Blastopore Develops into Mouth)

ACOELA

Acoels

412

ANTHOZOA

e.g. Corals

8,789

MEDUSOZOA

e.g. Jellyfish & Hydras

4,511

CNIDARIA

(Cnidocytes = Stinging Cells)

CTENOPHORA

Comb Jellies

191

(Ascus)

AscoMYCHoTA

e.g. Cup Fungi, Truffles,

Morels & Bakers Yeast

180,301

BASIDIOMYCHoTA

e.g. Mushrooms, Jelly Fungi, Polypores & Rusts

76,347

AMOEBOZOA

e.g. Amoeba, Chaos & Slime Moulds

1,739

PORIFERA

Sponges

7,427

FUNGI

(Chitin Cell Walls)

euARCHONTOGLIRES

Boreoeutheria

MAGNOLIDAE

e.g. Magnolias, Peppers & Avocado

12,752

MAP OF EVOLUTION

LILIOPSIDA

e.g. Grains, Palms, Bananas & Bamboos

81,651

EUDICOTYLEDONAE

e.g. Apples, Sunflowers, Coffee, Cacti & Maples

263,110

(NakedιSeeds)

ANGIOSPERMAE

(Flowers & Enclosed Seeds)

(Cell Wall with Peptidoglycan)

(Cell Wall with Pseudo-Peptidoglycan)

DIPHODA

(Two Flagella)

ARCHAEPLADISTA

(Chloroplasts)

CHLOROPLASTIDA

(Green Chloroplast)

Embryophyta

TRACHEOPHYTA

(Vascular Tissue)

EUPHYLLOPHYTA

(Roots & Leaves)

SPERMATOPHYTA

(Seeds)

ACROGYMNOSPERMAE

e.g. Pines, Cedars, Sequoias & Yews

1,961

POLYPODIOPSIDA

Ferns

13,025

BRYOPHYTA

Mosses

16,860

Chlorophyta

Green Algae

6,456

Rhodophyceae

Red Algae

8,993

Excavata

e.g. Euglenoids, Giardia & Trichomonas

2,653

ARCHAEA

2,082

BACTERIA

116,464

GLIRES

(Continually Growing Incisors)

EUTHERIA

(Complex Placenta with

Extended Pregnancy)

THERIA

(Placenta & External Ears)

MAMMALIA

(Milk)

AMNIOTA

(Amniotic Egg)

TETRAPODA

(Four Limbs)

SARCOPTERYGII

(Lobed Fins)

EUTELEOSTOMI

(Bony Internal Skeleton & Lungs)

GNATHOSTOMATA

(Jaws)

VERTEBRATA

(Vertebral Column & Branchial Arches)

OLFACTORES

CHORDATA

(Notochord)

DEUTEROSTOMIA

(Blastopore Develops into Anus)

NEPHROZOA

(True Nervous System)

BILATERIA

(Bilateral Symmetry)

EUMETAZOA

(True Tissues, Neurons, & Muscles)

METAZOA

OPISTHOKONTA

(Single Posterior Flagellum)

AMORPHEA

(Single Flagellum)

EUKARYOTA

2,174,439

(Mitochondria & Cell Nucleus)

Last Universal  
Common Ancestor