

Classification of the Phylum Chordata: (February 20, 2019)

Subphylum Urochordata (the tunicates)

Subphylum Cephalochordata (including *Pikaia*)

Subphylum Vertebrata (vertebrates)

Class Agnatha (including *Myllokunmingia*, ostracoderms, lamprey eels)

Class Placodermi (placoderms)

Class Chondrichthyes (sharks and rays)

Class Acanthodii (spiny fish)

Class Osteichthyes (bony fish)

Subclass Actinopterygii (ray-fins; most fish today)

Subclass Sarcopterygii (lobe-fins; including *Tiktaalik*)

Class Amphibia (amphibians, including labyrinthodonts like *Acanthostega*)

Class Reptilia (reptiles)

Subclass Anapsida

Order Captorhinida (stem group reptiles)

Subclass Diapsida

Order Chelonia (turtles and tortoises)

Order Ichthyosauria (ichthyosaurs)

Order Plesiosauria (plesiosaurs)

Order Sphenodonta (including the tuatara)

Order Squamata (lizards, snakes and mosasaurs)

“Archosaurs”:

Order Crocodylia (crocodiles and alligators)

Order Pterosauria (pterosaurs)

Dinosaurs:

Theropods (“lizard-hipped” bipedal carnivores; birds)

Sauropods (“lizard-hipped” long-necked herbivores)

Ornithischians (“bird-hipped” herbivores)

Subclass Synapsida

Superorder Pelycosauria (including *Dimetrodon*)

Superorder Therapsida (mammal-like reptiles)

Class Mammalia (mammals)