

# Chapter 34 - Vertebrates

## Chapter 34 Vertebrates Lecture Outline

### Overview: Half a Billion Years of Backbones

- Vertebrates are named for vertebrae, the series of bones that make up the vertebral column or backbone.
- There are about 52,000 species of vertebrates, far fewer than the 1 million insect species on Earth.
  - Plant-eating dinosaurs, at 40,000 kg, were the heaviest animals to walk on land.
  - The biggest animal that ever existed is the blue whale, at 100,000 kg.
  - Humans and our closest relatives are vertebrates.
- This group includes other mammals, birds, lizards, snakes, turtles, amphibians, and the various classes of fishes.

### Concept 34.1 Chordates have a notochord and a dorsal, hollow nerve cord

- The vertebrates belong to one of the two major phyla in the Deuterostomia, the chordates.
  - Chordates are bilaterian animals, belonging to the Deuterostomia.
- The phylum Chordata includes three subphyla, the vertebrates and two phyla of invertebrates—the urochordates and the cephalochordates.

#### Four derived characters define the phylum Chordata.

- Although chordates vary widely in appearance, all share the presence of four anatomical structures at some point in their lifetime.
- These chordate characteristics are a notochord, a dorsal, hollow nerve cord, pharyngeal slits, and a muscular, post-anal tail.
  1. The notochord, present in all chordate embryos, is a longitudinal, flexible rod located between the digestive tube and the nerve cord.
    - It is composed of large, fluid-filled cells encased in fairly stiff, fibrous tissue.
    - It provides skeletal support throughout most of the length of the animal.
    - While the notochord persists in the adult stage of some invertebrate chordates and primitive vertebrates, it remains only as a remnant in vertebrates with a more complex, jointed skeleton.
    - For example, it is the gelatinous material of the disks between vertebrae in humans.
  2. The dorsal, hollow nerve cord of a chordate embryo develops from a plate of ectoderm that rolls into a tube dorsal to the notochord.
    - Other animal phyla have solid nerve cords, usually located ventrally.

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