

Animal Phylogeny - Chordates

Are bilaterians monophyletic?

- *Yes. Monophyletic Group*

Are pseudocoelomates monophyletic?

- *No. Evolved seperately many times*

Phylum Chordata

humans

All chordates have all of these characteristics

1. Dorsal Neural Tube

- *spinal cord in humans. Main nervous tissue*

2. Notochord

- *may be replaced by vertebral column*
- *Cartilage that provides support and becomes spinal column in humans from posterior to anterior*

3. Pharyngeal Slits (become gills in fish)

- *pharyngeal pouches present in all vertebrate embryos*

4. Post-anal tail

- *humans have this during embryo*

Gator

What makes a gator a vertebrate?

Head

- Distinct and well-differentiated possessing sensory organs.
- The brain is enclosed in a protective box

Vertebral Column

- Enclosed and protects the dorsal nerve cord

Vertebrates also have

- Internal Organs: liver, kidneys, endocrine glands, heart and closed circulatory system
- Endoskeleton: made of cartilage or bone

Makes possible great size and extraordinary movement

How is a gator a chordate?

- Dorsal Neural Tube
- Notochord
- Pharyngeal Slits (during development)
- Post-anal tails



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Page 1 of 1.

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