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animals in the phylum chordata share five key characteristics that appear at some stage during their development a notochord a dorsal hollow tubular nerve cord pharyngeal gill arches or slits a post anal tail and an endostyle thyroid gland figure 29 3 animals in the phylum chordata share four key features a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail learning objectives identify the key features of the chordates chordate any member of the phylum chordata which includes the vertebrates the most highly evolved animals as well as two other subphyla the tunicates and cephalochordates some classifications also include the phylum hemichordata with the chordates animals in the phylum chordata share four key features that appear at some stage during their development a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail figure pageindex 2 in some groups some of these are present only during embryonic development a chordate is an animal that belongs to the phylum chordata which is part of the deuterostomes kingdom organisms in the deuterostomes kingdom have a distinct characteristic their anus develops before their mouth in early embryonic stages these four traits all began to appear during the cambrian explosion more than 500 million years ago and today they re shared by members of all three chordate subphyla even if the animals in those subphyla look pretty much nothing like each other animals in the phylum chordata share four key features that appear at some stage during their development a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail figure 2 in some groups some of these are present only during embryonic development the spinal cord is housed within its backbone chordates form a phylum of animals that are defined by having at some stage in their lives all of the following anatomical features 12 a notochord a stiff but elastic rod of glycoprotein wrapped in two collagen helices which extends along the central axis of the body animals in the phylum chordata share five key characteristics that appear at some stage during their development a notochord a dorsal hollow tubular nerve cord pharyngeal gill arches or slits a post anal tail and an endostyle thyroid gland figure by team biology simple march 1 2024 chordates are animals with a notochord dorsal nerve cord pharyngeal slits and a post anal tail they include vertebrates like humans chordates form a diverse group of animals characterized by key anatomical features animals in the phylum chordata share five key characteristics that appear at some stage during their development a notochord a dorsal hollow tubular nerve cord pharyngeal gill arches or slits a post anal tail and an endostyle thyroid gland figure 2 animals in the phylum chordata share four key features that appear at some stage during their development a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail link in some groups some of these are present only during embryonic development read more the chordate phylum includes both invertebrates without backbones and vertebrates with backbones our chordate family tree read more students explore the evolution of the phylum chordata by constructing a family tree a diagram of evolutionary traits and animals elephant seals ianna gilbert junior at brandeis university laura klappenbach updated on february 19 2019 chordates chordata are a group of animals that includes vertebrates tunicates lancelets of these the vertebrates lampreys mammals birds amphibians reptiles and fishes are the most familiar and are the group to which humans belong examples of vertebrate chordates include fishes amphibians reptiles birds and mammals a modern human one species of mammal is a familiar example of a chordate however we share this phylum with two groups of invertebrates as well phylum chordata belongs to the kingdom animalia and includes all the vertebrates i e animals with a backbone and several invertebrates i e organisms without a backbone they possess a bilaterally symmetrical body and are divided into three different sub phyla chordates consist of three distinct animal groups cephalochordates urochordates tunicates and vertebrates this review starts with a brief description of how the phylum chordata and its three subphyla were originally defined and then discusses how we should reclassify the major chordate groups go to 2 animals in the phylum chordata share four key features that appear at some stage during their development a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail in some best answer chordates members of the phylum chordata are deuterostome animals possessing a notochord a hollow dorsal nerve cord pharyngeal slits an endostyle and a post anal tail for at there are three subphylums in chordata the first two are invertebrates urochordata tunicates e g marine filter feeders such as sea squirts cephalochordata lancelets e g sessile burrowing

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