

Chordate Embryology

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Chordate Embryology

The chordates are named for the notochord: a flexible, rod-shaped structure that is found in the embryonic stage of all chordates and also in the adult stage of some chordate species. It is located between the digestive tube and the nerve cord, providing skeletal support through the length of the body.

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Chordate Embryology By Dr. P S Verma

Chordate Embryology is a complete reference on developmental biology for undergraduate and postgraduate students of life sciences. Arpan Chatterjee rated it it was amazing May 17, Harigovind added it Nov 05, Chordate Embryology is an essential read for students preparing for various competitive examinations like National Eligibility Test.

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Introduction to Embryology in Chordata The phylum Chordata encompasses all living and extinct chordates. We, as humans, are chordates. In our embryological development, we possess a notochord --the...

Chordata Germ Layers | Study.com

Characteristics of Chordata. 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.

Characteristics of Chordates | Biology for Majors II

We found that heart progenitor cells of the simple chordate Cion ... The vertebrate heart is formed

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from diverse embryonic territories, including the first and second heart fields. The second heart field (SHF) gives rise to the right ventricle and outflow tract, yet its evolutionary origins are unclear.

Early chordate origins of the vertebrate second heart field

The phylum Chordata typically includes three subphyla, Cephalochordata, Vertebrata, and Tunicata, the last showing a chordate body plan only as a larva. Hemichordates, in contrast, have pharyngeal gill slits, an endostyle, and a postanal tail but appear to lack a notochord and dorsal neural tube.

Evolution and Development of the Chordates: Collagen and ...

A chordate is an animal of the phylum Chordata. During some period of their life cycle, chordates possess a notochord, a dorsal nerve cord, pharyngeal slits, an endostyle, and a post-anal tail: these five anatomical features define this phylum. Chordates are also bilaterally symmetric, and have a coelom, metameric segmentation, and circulatory system. The Chordata and Ambulacraria together form the superphylum Deuterostomia. Chordates are divided into three subphyla: Vertebrata; Tunicata or Uroc

Chordate - Wikipedia

As the name implies, at some time in the life cycle a chordate possesses a stiff, dorsal supporting rod (the notochord). Also characteristic of the chordates are a tail that extends behind and above the anus, a hollow nerve cord above (or dorsal to) the gut, gill slits opening from the pharynx to the exterior, and an endostyle (a mucus-secreting structure) or its derivative between the gill slits.

chordate | Definition, Characteristics, & Facts | Britannica

The notochord (axial mesoderm, notochordal process, chorda dorsalis, Wirbelsäule) is the defining structure forming in all chordate embryos (taxonomic rank: phylum Chordata). It is an early forming midline structure in the trilaminar embryo mesoderm layer initially ventral to the ectoderm, then

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neural plate and finally neural tube.

Notochord - Embryology

The chordates are named for the notochord: a flexible, rod-shaped structure that is found in the embryonic stage of all chordates and also in the adult stage of some chordate species. It is located between the digestive tube and the nerve cord, providing skeletal support through the length of the body.

29.1A: Characteristics of Chordata - Biology LibreTexts

In anatomy, the notochord is a flexible rod formed of a material similar to cartilage. If a species has a notochord at any stage of its life cycle, it is, by definition, a chordate. The notochord lies along the anteroposterior axis, is usually closer to the dorsal than the ventral surface of the animal, and is composed of cells derived from the mesoderm. The most commonly cited functions of the notochord are: as a midline tissue that provides directional signals to surrounding tissue during development.

Notochord - Wikipedia

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UNSW Embryology 2009

A pattern of development in which the functional destiny of each cell is not determined early in the development of the embryo.

Intro to Chordates and Embryology/ Zoology 225/ Tennikait ...

The notochord is an embryonic midline structure common to all members of the phylum Chordata (Fig. 1). In higher vertebrates, the notochord exists transiently and has at least two important functions. First, the notochord is positioned centrally in the embryo with respect to both the dorsal-ventral (DV) and left-right (LR) axes.

Structure and function of the notochord: an essential ...

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