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Chordate Origins and Evolution: The Molecular Evolutionary Road to Vertebrates focuses on echinoderms (starfish, sea urchins, and others), hemichordates (acorn worms, etc.), cephalochordates (lancelets), urochordates or tunicates (ascidians, larvaceans and others), and vertebrates. In general, evolution of these groups is discussed independently, on a larger scale: ambulacrarians (echi+hemi) and chordates (cephlo+uro+vert).

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The Origin and Early Evolution of the Chordata

Covers the most significant advances in this field to give readers an understanding of the interesting biological issues involved Provides a unified presentation of essential information regarding each phylum and an integrative understanding of molecular mechanisms involved in the origin and evolution of chordates Discusses the evolutionary scenario of chordates based on two major characteristic features of animals—namely modes of feeding (energy sources) and reproduction—as the two main ...

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Evolution and paleontology Many scientists maintain that chordates originated sometime earlier than 590 million years ago; that is, they predate the fossil record. Such early representatives were soft-bodied and therefore left a poor fossil record.

Chordate - Evolution and paleontology | Britannica

These interpretations sum up very well not only the potential that fossils have to influence our thinking about the evolution of chordate development, but also the problems associated with them, since the affinities of both *Haliptilon* and *Yunnanozoon* are still hotly debated (Mallat and Chen, 2003; Mallat et al., 2003; Shu and Conway-Morris, 2003; Shu et al., 2003), with alternative views linking them to possible basal deuterostomes such as

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vetulicolians ...

Chordate origins and evolution, Genesis: the Journal of ...

Origin of chordates | Zoology for IAS, IFoS and other competitive exams. Chordates evolved sometime during Cambrian period, 500 million years ago during Cambrian explosion, almost at the same time when invertebrates were beginning to evolve. They may have evolved from some freshwater forms as Chamberlain (1900) pointed out that all modern chordates possess glomerular kidneys that are designed to remove excess water from body.

Origin of chordates | Zoology for IAS, IFoS and other ...

Since Charles Darwin proposed the evolution of animals by means of natural selection, the origin and evolution of chordates from common ancestor(s) of deuterostomes have been investigated and discussed for more than 150 years [2-20].

Chordates consist of three distinct animal groups:

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cephalochordates, urochordates (tunicates) and vertebrates.

Chordate evolution and the three-phylum system ...

The chordate body plan is characterized by a central notochord, a pharynx perforated by gill pores, and a dorsal central nervous system. Despite progress in recent years, the evolutionary origin ...

(PDF) Chordate Origins and Evolution - ResearchGate

The origin of chordates remains one of the major puzzles of zoology, even after more than a century of intense scientific inquiry, following Darwin's "Origin of Species". The chordates exhibit a...

CHORDATE ORIGINS, EVOLUTION AND DEVELOPMENT | Billie J ...

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to vertebrates Aug 28, 2020 Posted By William Shakespeare Publishing TEXT ID 47725751 Online PDF Ebook Epub Library neto 2008 the phylum chordata consists of three on the other hand vertebrates represent majority of the chordates vertebrates have a vertebral column furthermore

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Chordate fossils have been found from as early as the Cambrian explosion, 541 million years ago. Cladistically (phylogenetically), vertebrates - chordates with the notochord replaced by a vertebral column during development - are considered to be a subgroup of the clade Craniata, which consists of chordates with a skull.

Chordate - Wikipedia

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to Vertebrates. Academic Press. pp. 17-30 Chapter 2 - Hypotheses on Chordate Origins. ISBN 978-0128029961. The appearance of chordates has been debated for more than 150 years, and many hypotheses have been offered to explain this evolutionary event.

Walter Garstang - Wikipedia

Yeah, it's a mouthful, and in order to understand what it means, you're gonna have to understand the most complex group of animals on earth, and what it takes to get from this, to this. (upbeat music) The phylum Chordata accounts for all 52,000 species of vertebrates on Earth, and several thousand species of invertebrates.

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