

CHORDATES

PHYLUM: CHORDATA

Animals characterized by notochord, a dorsal nerve cord, an endostyle, pharyngeal slits, and a post-anal tail. There are around 80,000 species divided into three subphyla.

• VERTEBRATES •

~ 70,000 SPECIES



Lamprey and hagfish



Cartilaginous and Bony Fish

Animals with a **BONY** or **CARTILAGINOUS** VERTEBRAL COLUMN



Mammals



Amphibians



Reptiles and Birds

• TUNICATES •

~ 3,000 SPECIES



Sea Squirts



Solps



Larvaceans

Animals with **HARD** EXOSKELETON called **TUNIC**

• CEPHALOCHORDATES •

~ 30 SPECIES



Lancelets

FISH-LIKE animals lacking **DISTINCT** HEAD

Chordates

Vermont. State Geologist



Chordates:

BIOLOGY OF CHORDATES PANDEY, B.N.,MATHUR, VARTIKA,2018-03-28 Based on the integrated and holistic approach the book systematically and comprehensively covers a general account of taxonomical morphological anatomical and physiological features of chordates The text does not restrict discussion only to a representative genus in each class but also provides knowledge of other important genera and gives their general account and comparative features to help students understand animal diversity in the phylum Besides the type study the book also deals with the developmental and ecological aspects of the genera discussed The book is intended to fulfill the curriculum need of B Sc Zoology Life Sciences Biological Sciences and Animal Sciences as well as M Sc Zoology students for their core course on chordata chordates Additionally the students appearing for various competitive examinations and entrance test for postgraduate courses in the related fields will find this book useful **KEY FEATURES** Incorporates the topics of modern research such as Fish as Biocontrol Agents Mimicry in Birds Nesting and Brooding Behaviour of Birds and so on Compares important genera of the class morphological anatomical and adaptive features Well illustrated coloured diagrams with meticulous details and labelling for clear understanding of anatomy Important information nested in boxes points to remember and classification in the form of flow charts add strength to each chapter Provides a variety of pedagogically arranged interactive exercises for self assessment from fill in the blanks true false statements give reasons to MCQs Also the readers can check their answers online at www.phindia.com pandey mathur **Chordate Zoology** P.S.Verma,2010-12 FOR B Sc B Sc Hons **CLASSES OF ALL INDIAN UNIVERSITIES AND ALSO AS PER UGC MODEL CURRICULUM** Contents **CONTENTS** Protochordates Hemichordata 1 Urochordata Cephalochordata Vertebrates Cyclostomata 3 Agnatha Pisces Amphibia 4 Reptilia 5 Aves Mammalia 7 Comparative Anatomy Integumentary System 8 Skeletal System Coelom and Digestive System 10 Respiratory System 11 Circulatory System Nervous System 13 Receptor Organs 14 Endocrine System 15 Urinogenital System 16 Embryology Some Comparative Charts of Protochordates 17 Some Comparative Charts of Vertebrate Animal Types 18 Index

Advanced Chordate Zoology Aubrey Salazar,2018-11-16 The origin and evolution of chordates is one of the most mysterious and interesting phenomena in evolutionary development science Chordates are creatures characterized by possession of a notochord and pharyngeal gill openings They comprise of three taxa cephalochordates urochordates or tunicates and vertebrates Chordates belong to a supraphyletic gathering of deuterostomes together with echinoderms and hemichordates and are thought to have been derived from the regular ancestors of deuterostomes Vertebrates evolved by developing a body design with the greatest complexity among metazoans Amid the 1980s a new wave of molecular developmental science revealed that genes encoding interpretation factors and flag pathway molecules assume critical roles in the differentiation of embryonic cells arrangement of organs and tissues and morphogenesis for development of metazoan body designs Presently another wave of evolutionary developmental science studies revealed that metazoans from cnidarians

to vertebrates despite their diverse morphologies utilize a very comparable set of interpretation factors and flag pathway molecules for body development these genes are sometimes collectively called a genetic toolbox

Chordate Origins and Evolution Noriyuki Satoh, 2016-07-14 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 cephalo uro vert Until now discussion of these topics has been somewhat fragmented and this work provides a unified presentation of the essential information In the more than 150 years since Charles Darwin proposed the concept of the origin of species by means of natural selection which has profoundly affected all fields of biology and medicine the evolution of animals metazoans has been studied discussed and debated extensively Following many decades of classical comparative morphology and embryology the 1980s marked a turning point in studies of animal evolution when molecular biological approaches including molecular phylogeny MP molecular evolutionary developmental biology evo devo and comparative genomics CG began to be employed There are at least five key events in metazoan evolution which include the origins of 1 diploblastic animals such as cnidarians 2 triploblastic animals or bilaterians 3 protostomes and deuterostomes 4 chordates among deuterostomes and 5 vertebrates among chordates The last two have received special attention in relation to evolution of human beings During the past two decades great advances have been made in this field especially in regard to molecular and developmental mechanisms involved in the evolution of chordates For example the interpretation of phylogenetic relationships among deuterostomes has drastically changed In addition we have now obtained a large quantity of MP evo devo and CG information on the origin and evolution of chordates 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 forces driving animal evolution and benefiting dialogue for future studies of animal evolution

CRISP Thesaurus, 1989 The Origin of Chordates Q. Bone, 1987 *Microscopic Anatomy of Invertebrates: Hemichordata, Chaetognatha, and the invertebrate Chordates* Frederick W. Harrison, 1991 This 15 volume series is unrivaled in scope and thoroughness it is the definitive work on invertebrate anatomy Volume 15 provides specific and exhaustive coverage of hemichordata chaetognatha and the invertebrate chordates examining the basic physiology of such functions as sensation and motor control respiration digestion and reproduction

Competition Science Vision, 2007-10 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry

Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue *Synoptic Lectures on the Comparative Anatomy of the Chordates* Alfred Henry Stockard,1958 *Competition Science Vision* ,2008-04 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue Publications Indiana. Department of Conservation,1929 **Thieme Atlas of Anatomy** Michael Schünke,Erik Schulte,Edward D. Lamperti,Udo Schumacher,2006 This Softcover edition is also available in hardcover see ISBN 1 58890 358 3 The THIEME Atlas of Anatomy integrates anatomy and clinical concepts Organized intuitively with self contained guides to specific topics on every two page spread Hundreds of clinical applications integrated into the anatomical descriptions emphasizing the vital link between anatomical structure and function Beautifully illustrated with expertly rendered digital watercolors cross sections x rays and CT and MRI scans Clearly labeled images help you easily identify each structure Summary tables throughout ideal for rapid review Setting a new standard for the study of anatomy the THIEME Atlas of Anatomy is more than a collection of anatomical illustrationsit is an indispensable resource for anyone who works with the human body **Science of Animal Life** William Morton Barrows,1927 **Loose-leaf Version for Introduction to Brain and Behavior** Bryan Kolb,Ian Q. Whishaw,2016-03-16 From authors Bryan Kolb and Ian Whishaw and new coauthor G Campbell Teskey An Introduction to Brain and Behavior offers a unique inquiry based introduction to behavioral neuroscience with each chapter focusing on a central question i e How Does the Nervous System Function It also incorporates a distinctive clinical perspective with examples showing students what happens when common neuronal processes malfunction Now this acclaimed book returns in a thoroughly up to date new edition Founders of a prestigious neuroscience institute at the University of Lethbridge in Alberta Canada Kolb and Whishaw are renowned as both active scientists and teachers G Campbell Teskey of the University of Calgary also brings to the book a wealth of experience as a researcher and educator Together they are the ideal author team for guiding students from a basic understanding the biology of behavior to the very frontiers of some of the most exciting and impactful research being conducted **Elements of Chordate Anatomy** Charles Kipp Weichert,1959 *Vertebrate Zoology* Sir Gavin De Beer,1928 Functional Chordate Anatomy Ronald G. Wolff,1990 *Science* ,1908

Report of the State Geologist on the Mineral Industries and Geology of Vermont Vermont. State Geologist,1927

Report of the State Geologist on the Mineral Industries and Geology of Certain Areas of Vermont Vermont.

Office of the State Geologist,1927

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Chordates Introduction

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