

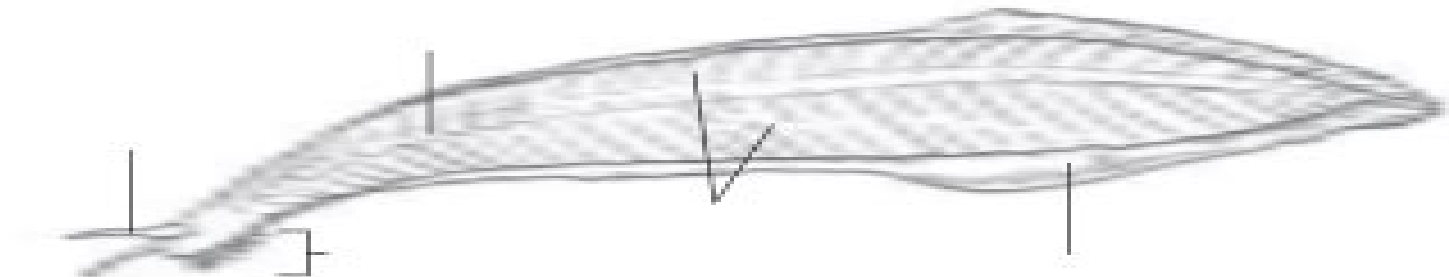
Chapter 33 Comparing Chordates**Section 33–1 Chordate Evolution (pages 849–852)****Key Concepts**

- What are the roots of the chordate family tree?
- What is a main trend in the evolution of chordates?

Chordate Origins (page 849)

1. Studies of embryos of living organisms suggest that the most ancient chordates were closely related to _____.
2. Why do scientists consider *Pikara* to be an early chordate and not a worm?

3. In the diagram below, label the notochord, head region, paired muscle blocks, tentacle, and tail fin of *Pikara*.



4. A flexible, supporting structure found only in chordates is a(an) _____.
5. Is the following question true or false? Scientists study tunicate larvae to better understand the early evolution of chordates. _____

The Chordate Family Tree (page 850)

6. Circle the letter of each sentence that is true about the chordate family tree. (See Figure 33–2 on page 850 of your textbook.)
 - a. Vertebrates share a common invertebrate ancestor with tunicates and lancelets.
 - b. Mammals and fishes share a more recent common ancestor than mammals and birds.
 - c. Lungs evolved before paired appendages.
 - d. Endothermy evolved after the amniotic egg.

Section 33 Chordate Evolution Answer Key

F Rizvi



Section 33 Chordate Evolution Answer Key:

Changing Views of the Evolution of Immunity Gary W. Litman, Larry J. Dishaw, 2014-01-22 The multitude of cells signaling pathways receptors novel genetic recombination mechanisms and interactive pathways of receptor function and cell differentiation that constitute the vertebrate adaptive immune system are integrally linked with the multicomponent innate immune system At first glance the levels of complexity seen in both systems at the phylogenetic level of mammals present what seem to be insurmountable hurdles in terms of achieving a systematic understanding of the evolution of immunity New research directions and approaches suggest that resolution of many long standing questions in this area is now possible Historically immunologists considered lower vertebrates and invertebrates as simpler forms i e they were expected to possess more basic less layered levels of immunological complexity and thus potentially would serve as important resources By considering the systematic placement of representative species in the context of phylogeny characterizing their immune receptors co receptors as well as accessory molecules and evaluating responses to immunologic stimuli it was thought that a clearer picture of immune evolution would emerge There is no doubt that this approach has achieved some notable successes but for the most part it has fallen short in terms of achieving a broad understanding of the immunologic needs of many relevant models and how adaptive change in immune function is effected Even if a structurally relevant ortholog of an immune effector is identified in a model organism there is no reason to assume that it functions in a corresponding manner in disparate phylogenetic taxa For example survival of a sessile marine invertebrate whose anatomical form puts it in open and contiguous contact with a literal sea of microorganisms and viruses would be thought to depend at least in part on a capable immune response however at present we have no real understanding of how this is achieved in an integrated manner Furthermore questions arise as to whether or not phenomena that are considered integral components of vertebrate type immunity such as memory tolerance somatic change and clonal selection exist in invertebrates and if their functions parallel those recognized in mammals More often than not our interpretations are guided by preconceived notions that are based on observations made in distant species that often do not apply to far removed taxa We anticipate that major advances in our understanding of this broad subject are now forthcoming as resources exist or are being developed for examining important model organisms in their natural environments instead of within the confines of in vitro systems of potentially remote physiological significance Taking a wide range of hypotheses observations and interpretations into account in this special topic contributors have developed a comprehensive overview emphasizing new directions and interpretations for understanding basic aspects of immunity that consider unique features inherent to various model systems their life histories and habitats Approaches applied with key model organisms maintained and confronted with relevant challenges under natural conditions are emphasized Current concepts of self and nonself are addressed not only in terms of immunity but also reproductive fitness How genetic variation in immune effector molecules is achieved and maintained in natural populations is

examined particular attention is directed to response interfaces that factor in symbiotic interactions Gene expansion and mechanisms of genetic diversification are explored How diverse molecules and a variety of effector cells contribute to our broad understanding of the evolution of a remarkably complex integrated system and how this work is facilitating our understanding of mammalian immunity is addressed

Evolutionary Neuroscience Jon H Kaas, 2009-07-28 Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference Evolution of Nervous Systems Elsevier Academic Press 2007 The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains The articles are organized in sections focused on theories and brain scaling the evolution of brains from early vertebrates to present day fishes amphibians reptiles and birds the evolution of mammalian brains and the evolution of primate brains including human brains Each chapter is written by a leader or leaders in the field and has been reviewed by other experts Specific topics include brain character reconstruction principles of brain scaling basic features of vertebrate brains the evolution of the major sensory systems and other parts of brains what we can learn from fossils the origin of neocortex and the evolution of specializations of human brains The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present day vertebrates This book would be of use to students at the graduate or undergraduate levels as well as professional neuroscientists cognitive scientists and psychologists Together the chapters provide a comprehensive list of further reading and references for those who want to inquire further The most comprehensive authoritative and up to date single volume collection on brain evolution Full color throughout with many illustrations Written by leading scholars and experts

The Dissection of Vertebrates Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation

Life's Solution Simon Conway Morris, 2003-09-04 The assassin's bullet misses the Archduke's carriage moves forward and a catastrophic war is avoided So too with the history of life Re-run

the tape of life as Stephen J Gould claimed and the outcome must be entirely different an alien world without humans and maybe not even intelligence The history of life is littered with accidents any twist or turn may lead to a completely different world Now this view is being challenged Simon Conway Morris explores the evidence demonstrating life s almost eerie ability to navigate to a single solution repeatedly Eyes brains tools even culture all are very much on the cards So if these are all evolutionary inevitabilities where are our counterparts across the galaxy The tape of life can only run on a suitable planet and it seems that such Earth like planets may be much rarer than hoped Inevitable humans yes but in a lonely Universe

Evolution of Innate Immunity in Eukarya: Advances and Implications Jean L. Scholz, Ioannis Eleftherianos, Bostjan Kobe, 2022-05-06 **Cumulated Index Medicus** ,1996 Canadian Journal of Zoology ,2005 Heads, Jaws, and Muscles Janine M. Ziermann, Raul E. Diaz Jr, Rui Diogo, 2019-01-23 The vertebrate head is the most complex part of the animal body and its diversity in nature reflects a variety of life styles feeding modes and ecological adaptations This book will take you on a journey to discover the origin and diversification of the head which evolved from a seemingly headless chordate ancestor Despite their structural diversity heads develop in a highly conserved fashion in embryos Major sensory organs like the eyes ears nose and brain develop in close association with surrounding tissues such as bones cartilages muscles nerves and blood vessels Ultimately this integrated unit of tissues gives rise to the complex functionality of the musculoskeletal system as a result of sensory and neural feedback most notably in the use of the vertebrate jaws a major vertebrate innovation only lacking in hagfishes and lampreys The cranium subsequently further diversified during the major transition from fishes living in an aquatic environment to tetrapods living mostly on land In this book experts will join forces to integrate for the first time state of the art knowledge on the anatomy development function diversity and evolution of the head and jaws and their muscles within all major groups of extant vertebrates Considerations about and comparisons with fossil taxa including emblematic groups such as the dinosaurs are also provided in this landmark book which will be a leading reference for many years to come *How Do You Feel?* A. D. Craig, 2014-12-21 A book that fundamentally changes how neuroscientists and psychologists categorize sensations and understand the origins and significance of human feelings *How Do You Feel* brings together startling evidence from neuroscience psychology and psychiatry to present revolutionary new insights into how our brains enable us to experience the range of sensations and mental states known as feelings Drawing on his own cutting edge research neurobiologist Bud Craig has identified an area deep inside the mammalian brain the insular cortex as the place where interoception or the processing of bodily stimuli generates feelings He shows how this crucial pathway for interoceptive awareness gives rise in humans to the feeling of being alive vivid perceptual feelings and a subjective image of the sentient self across time Craig explains how feelings represent activity patterns in our brains that signify emotions intentions and thoughts and how integration of these patterns is driven by the unique energy needs of the hominid brain He describes the essential role of feelings and the insular cortex in such diverse realms as music fluid

intelligence and bivalent emotions and relates these ideas to the philosophy of William James and even to feelings in dogs How Do You Feel is also a compelling insider s account of scientific discovery one that takes readers behind the scenes as the astonishing answer to this neurological puzzle is pursued and pieced together from seemingly unrelated fields of scientific inquiry This book will fundamentally alter the way that neuroscientists and psychologists categorize sensations and understand the origins and significance of human feelings On the Origin of Autonomy Bernd Rosslenbroich,2014-04-15 This volume describes features of autonomy and integrates them into the recent discussion of factors in evolution In recent years ideas about major transitions in evolution are undergoing a revolutionary change They include questions about the origin of evolutionary innovation their genetic and epigenetic background the role of the phenotype and of changes in ontogenetic pathways In the present book it is argued that it is likewise necessary to question the properties of these innovations and what was qualitatively generated during the macroevolutionary transitions The author states that a recurring central aspect of macroevolutionary innovations is an increase in individual organismal autonomy whereby it is emancipated from the environment with changes in its capacity for flexibility self regulation and self control of behavior The first chapters define the concept of autonomy and examine its history and its epistemological context Later chapters demonstrate how changes in autonomy took place during the major evolutionary transitions and investigate the generation of organs and physiological systems They synthesize material from various disciplines including zoology comparative physiology morphology molecular biology neurobiology and ethology It is argued that the concept is also relevant for understanding the relation of the biological evolution of man to his cultural abilities Finally the relation of autonomy to adaptation niche construction phenotypic plasticity and other factors and patterns in evolution is discussed The text has a clear perspective from the context of systems biology arguing that the generation of biological autonomy must be interpreted within an integrative systems approach Ascidian News ,2003 **Comparative animal consciousness** Louis Neal Irwin,Lars Chittka,Nicky S. Clayton,Eva Jablonka,Jon Mallatt,Todd E. Feinberg,2023-07-10 **Tenascins: Key Players in Tissue Homeostasis and Defense** Kim Midwood,Gertraud Orend,Kyoko Imanaka-Yoshida,2022-02-18 *Animal Lectins: Form, Function and Clinical Applications* G. S. Gupta,2012-11-13 *Animal Lectins Form Function and Clinical Applications* presents up to date knowledge of animal lectins Detailed descriptions on biological activities tissue and or subcellular distribution molecular structure gene organization possible functions clinical applications lectin ligand interactions and their intervention for therapeutic purposes are provided The recently discovered C type lectins as well as further novel super families of this group of molecules are described in detail Furthermore the clinical significance of animal lectins in inflammatory diseases defects of immune defense and autoimmunity are described and their application as drugs and therapeutic targets is discussed With the increasing interest in lectins in biomedical research and their therapeutic applications this book on animal lectins and associated proteins is a must have for researchers in the area Evolutionary Transitions to Multicellular

Life Iñaki Ruiz-Trillo, Aurora M. Nedelcu, 2015-03-27 The book integrates our understanding of the factors and processes underlying the evolution of multicellularity by providing several complementary perspectives both theoretical and experimental and using examples from various lineages in which multicellularity evolved Recent years marked an increased interest in understanding how and why these transitions occurred and data from various fields are providing new insights into the forces driving the several independent transitions to multicellular life as well as into the genetic and molecular basis for the evolution of this phenotype The ultimate goal of this book is to facilitate the identification of general and unifying principles and mechanisms **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Mechanisms of Life History Evolution Thomas Flatt, Andreas Heyland, 2011-05-12 This interdisciplinary volume unites evolutionary and molecular biologists from various fields life history theory molecular biology developmental biology aging phenotypic plasticity social behaviour and endocrinology who use studies of molecular mechanisms to solve fundamental questions in life history evolution in a variety of organisms **Evolution of Nervous Systems** Jon H. Kaas, 2007

Pituitary Adenylate Cyclase Activating Polypeptide — PACAP Dora Reglodi, Andrea Tamas, 2016-10-08 The first comprehensive book to cover all aspects of the last 25 years of PACAP pituitary adenylate cyclase activating polypeptide research this book contains contributions from virtually all the leading researchers in the field and addresses some of the following topics evolutionary aspects of PACAP distribution and occurrence of PACAP and its receptors hormonal effects of PACAP intracellular signaling effects on cellular proliferation and differentiation protective effects of PACAP behavioral effects of PACAP developmental aspects of PACAP other physiological effects of PACAP cardiovascular thermoregulatory human studies drug design metabolism and transport This compendium can serve as an important reference for researchers and students in PACAP research and can also be a thorough introduction for those in related fields *Sg and Wkbk Biology CA 5E* Starr, John D. Jackson, 2002-02 A true workbook that requires students active participation Organized to match sections in the text for ease of use

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