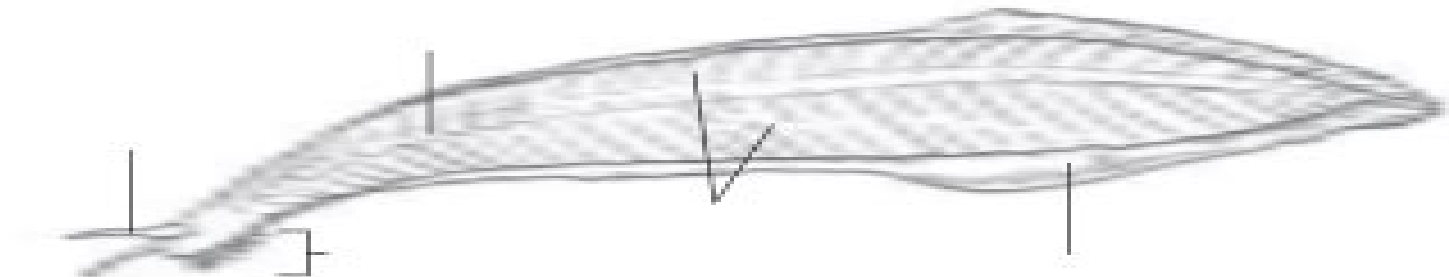


**Chapter 33 Comparing Chordates****Section 33–1 Chordate Evolution (pages 849–852)****Key Concepts**

- 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

**Bernd Rosslenbroich**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

### **Section 33 Chordate Evolution Answer Key:**

**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](http://www.phindia.com) pandey mathur **Biology, Evolution, Chapters 33-35** Gilbert D. Brum,Larry McKane,Gerry Karp,1994-01-13 A Note to the Student Wiley is dedicated to meeting faculty and student needs by providing flexible educational materials for your Introductory Biology course Wiley has divided Biology Exploring Life into six separate paperback volumes to allow maximum utility Hardcover Contents ISBN Biology Exploring Life Chapters 1 44 0471 54408 6 Paperback Units Contents ISBN Volume 1 Cell Biology and Genetics Chapters 1 17 0471 01827 9 Volume 2 Form and Function of Plant Life Chapters 18 21 0471 01831 7 Volume 3 Form and Function of Animal Life Chapters 22 32 0471 01830 9 Volume 4 Evolution Chapters 33 35 0471 01829 5 Volume 5 Diversity and Classification Chapters 36 39 0471 01828 7 Volume 6 Ecology and Animal Behavior Chapters 40 44 0471 01832 5 This is just one of the many ways Wiley helps you make your education experience a positive one In the opening pages of these paperbacks you will find important information about how to maximize the value of the book **Competition Science Vision** ,2008-08 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

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Giribet, W. Wheeler, 2013-03-08 Important practical implications are established by case reports and specific examples. The present book is the ideal complement to the practitioner's manual *Techniques in Molecular Systematics and Evolution* recently published by the same editors in the Birkhäuser MTBM book series. The first part of this book deals with important applications of evolutionary and systematic analysis at different taxonomic levels. The second part discusses DNA multiple sequence alignment, species designations using molecular data, evo devo and other topics that are problematic or controversial. In the last part, novel topics in molecular evolution and systematics like genomics, comparative methods in molecular evolution and the use of large data bases are described. The final chapter deals with problems in bacterial evolution considering the increasing access to large numbers of complete genome sequences. **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue. Medical subject headings Cumulated Index Medicus, 1996 **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. Handbook of Epigenetics Trygve O Tollefsbol, 2017-07-10 *Handbook of Epigenetics: The New Molecular and Medical Genetics* Second Edition provides a comprehensive analysis of epigenetics from basic biology to clinical application. Epigenetics is considered by many to be the new genetics in that many biological phenomena are controlled not through gene mutations but rather through reversible and heritable epigenetic processes. These epigenetic processes range from DNA methylation to prions. The biological processes impacted by epigenetics are vast and encompass effects in lower organisms and humans that include tissue and organ regeneration, X chromosome inactivation, stem cell differentiation, genomic imprinting and aging. The first edition of this important work received excellent

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*Molecular Physiology in Molluscs of Economic or Ecological Importance* Xiaotong Wang, Youji Wang, 2019-10-24 As the largest marine phylum molluscs comprise 23% of all named marine organisms Many molluscs have economic or ecological importance With the development of molecular biology and omics techniques significant gains have been made for molecular physiology in molluscs of economic or ecological importance

*Advances in Comparative Immunology* Edwin L. Cooper, 2018-08-07 Immunologists perhaps understandably most often concentrate on the human immune system an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the animal kingdom However knowledge of animal immune function could help not only to better understand human immunology but perhaps more importantly it could help to treat and avoid the blights that affect animals which consequently affect humans Take for example the mass death of honeybees in recent years their demise resulting in much less pollination poses a serious threat to numerous crops and thus the food supply There is a similar disappearance of frogs internationally signaling ecological problems among them fungal infections This book aims to fill this void by describing and discussing what is known about non human immunology It covers various major animal phyla its chapters organized in a progression from the simplest unicellular organisms to the most complex vertebrates mammals Chapters are written by experts covering the latest findings and new research being conducted about each phylum Edwin L Cooper is a Distinguished Professor in the Laboratory of Comparative Immunology Department of Neurobiology at UCLA s David Geffen School of Medicine

*Biology*, 1963

**Handbook of Biologically Active Peptides** Abba Kastin, 2013-01-26 Handbook of Biologically Active Peptides Second Edition is the definitive indispensable reference for peptide researchers biochemists cell and molecular biologists neuroscientists pharmacologists and endocrinologists Its chapters are designed to be a source for workers in the field and enable researchers working in a specific area to examine related areas outside their expertise Peptides play a crucial role in many physiological processes including actions as neurotransmitters hormones and antibiotics Research has shown their importance in such fields as neuroscience immunology pharmacology and cell biology The second edition of Handbook of Biologically Active Peptides presents this tremendous body of knowledge in the field of biologically

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