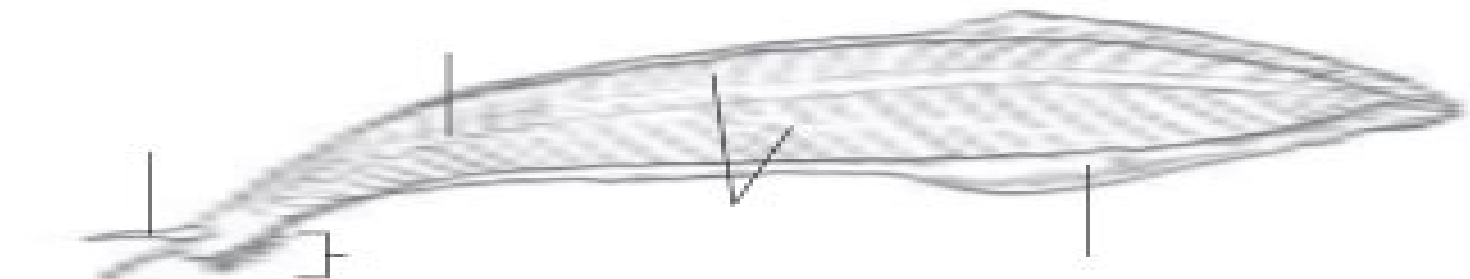


**Chapter 33 Comparing Chordates****Section 33–1 Chordate Evolution (pages 849–852)****Key Concepts**

- 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.

# Chapter 33 Comparing Chordates Answer Key

**Starr, John D. Jackson**



## Chapter 33 Comparing Chordates Answer Key:

**Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004** Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level *Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c* Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students **Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world s leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information **Evolution of Nervous Systems** Georg F. Striedter, Theodore H. Bullock, Todd M. Preuss, John Rubenstein, Leah A. Krubitzer, 2016-11-23 Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully

restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion 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 The American Sea Rezneat Milton Darnell,2015-05-13 For more than a decade Rezneat Darnell worked on this major synthesis of what is known about the Gulf of Mexico His goal to bring a deeper understanding of the American Sea to students scientists managers and educated citizens of the public at large The American Sea builds on Darnell s own research the research of his graduate students government agency research reports data synthesis reports and literature summaries to present a holistic view of the Gulf of Mexico Although he is recognized as a pioneer in the study of continental shelf ecology Darnell largely resisted specialization remaining throughout his career the writer and bringer together of things Here he has written a book that embraces history geology geography meteorology chemistry biology ecology and human relations in one comprehensive reference Although it is thorough and meticulous in coverage what comes through in these pages is the enormity complexity and mystery of the world that lies just beyond the Texas vacation beach the Louisiana wetland or the Mexico fishing village In addition to photographs of deep water and other organisms that are included in the book a number of illustrations have been added to provide excellent visual material including historical and ocean floor maps and many works of original art depicting marine species sea turtles fish and crustaceans **Fundamental Immunology** William E. Paul,1993 The defining reference work in immunology today is now available in an entirely new text This edition places greater emphasis on molecular mechanisms underlying cellular function and physiology and includes outstanding new chapters on neuroimmunology and immunotherapy completely updated coverage of immune suppression and regulatory T cells and new and expanded chapters on lymphocytes the immunology of aging autoimmunity and more A free CD ROM provides one click access to all of the content and illustrations from the text plus Internet links to PubMed and 50 other sites Nothing else competes with it JAMA review of the previous edition Merriam-Webster's Collegiate Dictionary Merriam-Webster Inc.,2004 Contains 165 000 entries more than 225 000 definitions and over 40 000 usage examples and includes biographical and geographical sections

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