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# Biology: Biochemical Evidence for Evolution

**Background Information:** If two organisms have similar DNA molecules, they must have similar amino acids and thus similar proteins. Therefore, DNA comparisons can be made by examining the sequences of amino acids within a protein.

Scientists have long believed that similar DNA sequences indicate a common origin and ancestor. The more similar the DNA of two living organisms, the more closely related they may be to one another. Hemoglobin, a protein in red blood cells, has been studied. Scientists know the specific amino acids and their arrangements in hemoglobin molecules of humans, gorilla, and horses.

In this investigation, you will

- a. count and record the molecules of each amino acid present in similar portions of humans, gorilla, and horse hemoglobin.
- b. Count and record differences in the sequence of amino acids in similar portions of human, gorilla, and horse hemoglobin.
- c. Use this data to show how biochemical evidence can be used to support evolution.

## Procedure

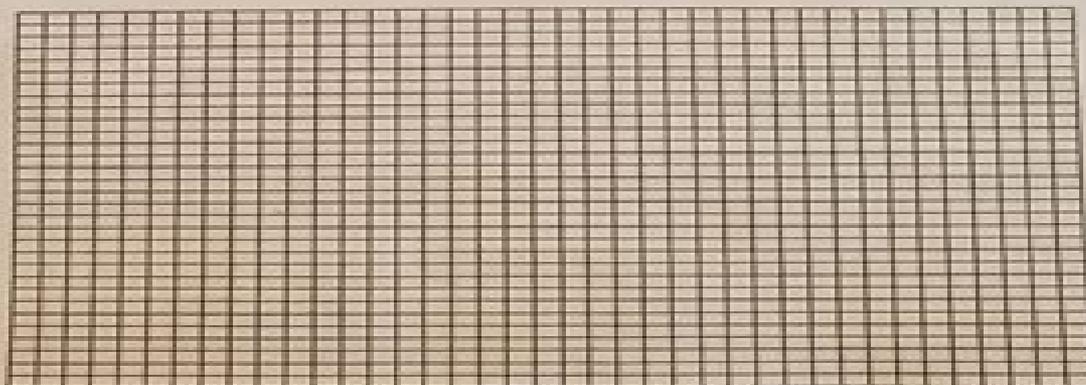
### Part A: Amino Acid Sequence

- 1) Read the amino acid sequences from left to right beginning at the upper right hand corner of figure 39-1. Compare the sequences of humans to the sequences of gorillas and horses. An example of a sequence difference between humans and horses is shown on figure 39-1.
- 2) Record in Table 39-1 the total number of differences in the sequences of gorilla and human amino acids. Then repeat this for horse and human, and for gorilla and horse.

**Table 39-1. Number of Amino Acid Sequence Differences**

Organisms	Number of Differences
Gorilla and Human	
Horse and Human	
Gorilla and Horse	

Using the information you collected, graph the differences between the three organisms below. Be sure to title your graph and label both axes.



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**Chapter Resource 13 Theory/Evolution Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Evolution Challenges Karl S. Rosengren, Sarah K. Brem, E. Margaret Evans, Gale M. Sinatra, 2012-04-23 A recent poll revealed that one in four Americans believe in both creationism and evolution while another 41% believe that creationism is true and evolution is false A minority only 13% believe only in evolution Given the widespread resistance to the idea that humans and other animals have evolved and given the attention to the ongoing debate of what should be taught in public schools issues related to the teaching and learning of evolution are quite timely Evolution Challenges Integrating Research and Practice in Teaching and Learning about Evolution goes beyond the science versus religion dispute to ask why evolution is so often rejected as a legitimate scientific fact focusing on a wide range of cognitive socio cultural and motivational factors that make concepts such as evolution difficult to grasp The volume brings together researchers with diverse backgrounds in cognitive development and education to examine children s and adults thinking learning and motivation and how aspects of representational and symbolic knowledge influence learning about evolution The book is organized around three main challenges inherent in teaching and learning evolutionary concepts folk theories and conceptual biases motivational and epistemological biases and educational aspects in both formal and informal settings Commentaries across the three main themes tie the book together thematically and contributors provide ideas for future research and methods for improving the manner in which evolutionary concepts are conveyed in the classroom and in informal learning experiences Evolution Challenges is a unique text that extends far beyond the traditional evolution debate and is an invaluable resource to researchers in cognitive development science education and the philosophy of science science teachers and exhibit and curriculum developers

**Evolution and the Big Questions** David N. Stamos, 2011-09-23 Evolution and the Big Questions David N Stamos s Evolution and the Big Questions delivers what its title promises you get to look at all of the issues such as race and ethics and religion that make the study of evolution so interesting and more than just a science The book is written in a clear and friendly manner and deserves a very wide readership Michael Ruse Florida State University This provocative text considers whether evolutionary explanations can be used to clarify some of life s biggest questions It offers a lively informative and timely look at a wide variety of key issues facing all of us today including questions of race sex gender the nature of language religion ethics knowledge consciousness and ultimately thc meaning of life Some of the questions examined are Did evolution make men and women fundamentally different Is the concept of race merely a social construction Is morality including universal human rights a mass delusion Can religion and evolution really be harmonized Docs evolution render life meaningless Designed for students and anyone with an interest in the relationship between evolutionary heritage and human nature the text takes an interdisciplinary approach and offers direction for further reading and research Each chapter presents a main topic together with discussion of related ideas and arguments from various perspectives Along the

way it poses life's biggest questions pulling no punches and presenting a challenge to thinkers on all levels **Memory, Amnesia, and the Hippocampal System** Neal J. Cohen, Howard Eichenbaum, 1993 In this sweeping synthesis Neal J. Cohen and Howard Eichenbaum bring together converging findings from neuropsychology, neuroscience, and cognitive science that provide the critical clues and constraints for developing a more comprehensive understanding of memory. Specifically, they offer a cognitive neuroscience theory of memory that accounts for the nature of memory impairment exhibited in human amnesia and animal models of amnesia that specifies the functional role played by the hippocampal system in memory and that provides further understanding of the componential structure of memory. The authors' central thesis is that the hippocampal system mediates a capacity for declarative memory, the kind of memory that in humans supports conscious recollection and the explicit and flexible expression of memories. They argue that this capacity emerges from a representation of critical relations among items in memory and that such a relational representation supports the ability to make inferences and generalizations from memory and to manipulate and flexibly express memory in countless ways. In articulating such a description of the fundamental nature of declarative representation and of the mnemonic capabilities to which it gives rise, the authors' theory constitutes a major extension and elaboration of the earlier procedural-declarative account of memory. Support for this view is taken from a variety of experimental studies of amnesia in humans, nonhuman primates, and rodents. Additional support is drawn from observations concerning the neuroanatomy and neurophysiology of the hippocampal system. The data taken from divergent literatures are shown to converge on the central theme of hippocampal involvement in declarative memory across species and across behavioral paradigms. **Trends in Teaching Experimentation in the Life**

**Sciences** Nancy J. Pelaez, Stephanie M. Gardner, Trevor R. Anderson, 2022-05-11 This book is a guide for educators on how to develop and evaluate evidence-based strategies for teaching biological experimentation to thereby improve existing and develop new curricula. It unveils the flawed assumptions made at the classroom, department, and institutional level about what students are learning and what help they might need to develop competence in biological experimentation. Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist. It includes explicit evidence-based guidelines for educators regarding the teaching, learning, and assessment of biological research competencies. The book also provides practical teacher guides and exemplars of assignments and assessments. It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain. This book contributes to the growth of public understanding of biological issues, including scientific literacy and the crucial importance of evidence-based decision making around public policy. It will be beneficial to life science instructors, biology education researchers, and science administrators who aim to improve teaching in life science departments. Chapters 6, 12, 14, and 22 are available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com). **Annotated Instructor's Edition for Investigating Biology** Judith Giles Morgan, 1999 **Navigating Our Way to**

**Solutions in Marine Conservation** Larry B. Crowder, 2025-01-30 Navigating Our Way reflects the broader insights and diverse voices revolutionizing marine conservation This volume brings together an array of scholars practitioners and experts from multiple fields creating a network of trans disciplinary and multi cultural perspectives to address the complex problems in marine conservation Larry B Crowder a leading voice in the field has curated contributions on a wide range of topics including critically endangered species in the Bahamas Argentinian penguins and the ecosystems of our coral reefs The book delves deeply into human relationships with nature the development of climate smart solutions and the governance of collective action Committed to inclusivity this volume also includes conversations across the disciplines of natural sciences social sciences and governance incorporating both Western and Indigenous knowledge traditions This volume is highly relevant to marine conservation scholars practitioners managers and students and anyone interested in preserving our marine environment

*Investigating Biology* Judith Giles Morgan, M. Eloise Brown Carter, 1999 An undergraduate lab manual containing 27 lab exercises designed to encourage students to ask questions pose hypotheses and make predications before they begin lab work Students are required to synthesize results from observations and experiments draw conclusions apply results to new problems and to design their own investigations Scientific writing is emphasized throughout Includes appendices on scientific writing chi square test and terminology and techniques for dissection as well as a section of color photos This edition contains a new lab on cellular respiration and several labs are modified based on new evidence in molecular biology Wire spiral binding Annotation copyrighted by Book News Inc Portland OR Reports of the National Center for Science Education ,2005 *The Software Encyclopedia 2001* ,2001 *Investing Biology* Pearson Education, 2002-11 **Futures** ,2014 **Stanford Bulletin** ,2006 **New Scientist and Science Journal** ,2003

**Encyclopedia of Life Science** Katherine E. Cullen, 2009 An illustrated A Z encyclopedia of facts and information on topics relevant to modern science including the cell biological evolution the behavior of organisms and more

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