

LAB#23: Biochemical Evidence of Evolution

Name: _____

Period _____

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Laboratory Experience #23

Worth 80 Lab Minutes

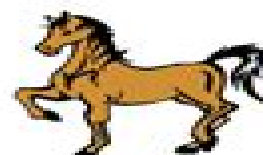
Bridge



If two organisms have similar portions of DNA (genes), these organisms will probably make similar proteins. If two organisms have identical or almost identical proteins, the *amino acid sequence* within the protein is similar. Scientists believe that organisms with similar DNA have common origins. The more similar their DNA

is, the more similar their proteins will be and the more closely related the organisms are likely to be. Thus, scientists use *biochemical evidence* (the amino acid sequence of proteins) to establish how organisms have evolved. Hemoglobin, a component of red blood cells, is one of the most widely studied of all proteins. In this activity, you will analyze the amino acid sequence of the hemoglobin protein in three species: human, horse and gorilla. You will establish evolutionary relationships based on this analysis.

Which organism do predict are most similar horse, gorilla, or human?
Explain why?



Objective:

To show how biochemical evidence can be used to support evolution

Essential Question:

How can biochemical evidence support evolution?

Biochemical Evidence For Evolution Lab 12 Answer

IM Harris



Biochemical Evidence For Evolution Lab 12 Answer:

Biochemistry of Lipids, Lipoproteins and Membranes Dennis E. Vance, J.E. Vance, 2002-12-06 The first edition of this book was published in 1985 The content of the 4th edition reflects the enormous advances that have occurred since that time in the field of lipid biochemistry This publication is unique in that it represents a bridge between the superficial coverage of the lipid field found in basic biochemistry text books and the highly specialized material contained in scientific review articles and monographs The book is not a collection of exhaustive reviews but a current and readable summary of diverse aspects of lipids It is intended as an advanced and up to date textbook for teachers and students who are familiar with the basic concepts of lipid biochemistry and will also serve as a general reference book for scientists studying lipids lipoproteins and membranes *Cumulated Index Medicus* ,1989 **Biochemistry Abstracts** ,1983-07 **Biological Investigations Lab Manual** Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology *Genetics Abstracts* ,2000 **Cornell University Courses of Study** Cornell University, 1992 *Biological Abstracts* Jacob Richard Schramm, 1929 **Cambridge Scientific Biochemistry Abstracts** ,1991 **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1993-10 **Proceedings of the National Academy of Sciences of the United States of America** ,2000 *U.S. Government Research and Development Reports* ,1965 **Aerospace Medicine and Biology** ,1969 *Proceedings of the Society for Experimental Biology and Medicine* Society for Experimental Biology and Medicine (New York, N.Y.), 1984 List of members in each volume *Current Advances in Protein Biochemistry* ,1997 *Current Advances in Ecological & Environmental Sciences* ,1990 **Journal of Experimental Biology** ,2005 *American Chemical Society Directory of Graduate Research* ,1987 American Chemical Society, Committee on Professional Training Staff, Committee On American Chemical Society, 1987 **The New York Times Index** ,1965

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