

LAB#23: Biochemical Evidence of Evolution

Name: _____

Period _____

Date: _____

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 you 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?

Lab 23 Evidence Of Evolution Answer Key

Didier Musso



Lab 23 Evidence Of Evolution Answer Key:

Fusion Energy Update ,1986 *Scientific American* ,1928 Monthly magazine devoted to topics of general scientific interest **U.S. Government Research & Development Reports** ,1970 **International Catalogue of Scientific Literature** ,1903 **Energy Research Abstracts** ,1987 **International Catalogue of Scientific Literature [1901-14]** ,1903 Nuclear Science Abstracts ,1972 Ecology Abstracts ,1997 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major areas of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosystem studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands

Journal of the Chemical Society ,1907 **Journal of the American Medical Association** American Medical Association,1910 Includes proceedings of the Association papers read at the annual sessions and list of current medical literature *Chemical Abstracts* ,1908 **The Laboratory Digest** ,1949 **Government Reports Announcements & Index** ,1993 The United States Catalog Mary Burnham,Carol Hurd,1928 *Nutrition Abstracts and Reviews* ,1989

Physics Briefs ,1993 **Experiments in General Chemistry** Kenneth W. Whitten,Carl B. Bishop,Kenneth D. Gailey,1992 *International Aerospace Abstracts* ,1999 *INIS Atomindex* ,1986 Government Reports Announcements & Index ,1988

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