

# LAB#23: Biochemical Evidence of Evolution

Name: \_\_\_\_\_

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Laboratory Experience #23

Worth 80 Lab Minutes

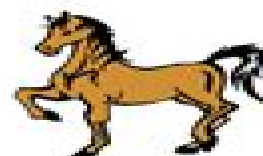
## Bridge



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 Answer Key

**Scripps Institution of Oceanography.  
Physiological Research Laboratory**



## **Biochemical Evidence For Evolution Lab Answer Key:**

**Cambridge Scientific Biochemistry Abstracts** ,1990      Genetics Abstracts ,1998      **FEMS Microbiology Letters**  
Federation of European Microbiological Societies,2002 An international journal providing for the rapid publication of short  
reports on microbiological research      *Shellfish Life Histories and Shellfishery Models* David E. Aiken,S. L. Waddy,Gérard Y.  
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*America* National Academy of Sciences (U.S.),2007      **Annual Report - Marine Biological Station, University of**  
**Liverpool, Port Erin, Isle of Man** Marine Biological Station at Port Erin, Isle of Man,      **Abridged Index Medicus**  
,1997-07      Seminars in Diagnostic Pathology ,1984      **Drosophila Information Service** ,1978      Sierra Nevada  
Ecosystem Project Final Report to Congress Sierra Nevada Ecosystem Project,1996      **Canadian Journal of Fisheries and**  
**Aquatic Sciences** ,1994      *Government Reports Announcements* ,1971-05      **Proceedings of the International**  
**Symposium on Genetics of Subarctic Fish and Shellfish** ,1994      Bibliography of Scientific and Industrial Reports  
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