

LAB#23: Biochemical Evidence of Evolution

Name: _____

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Laboratory Experience #23

Worth 80 Lab Minutes

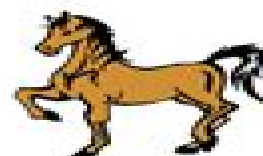
Bridge



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 2answer Key

Zondervan



Biochemical Evidence For Evolution Lab 2answer Key:

Dictionary of Christianity and Science Zondervan, 2017-04-25 The definitive reference work on science and Christian belief How does Christian theology relate to scientific inquiry What are the competing philosophies of science and do they work with a Christian faith based on the Bible No reference work has covered this terrain sufficiently until now Featuring entries from over 140 international contributors the Dictionary of Christianity and Science is a deeply researched peer reviewed fair minded work that illuminates the intersection of science and Christian belief In one volume you get reliable summaries and critical analyses of over 450 relevant concepts theories terms movements individuals and debates You will find answers to your toughest questions about faith and science from the existence of Adam and Eve to the age of the earth evolution and string theory FEATURES INCLUDE Over 450 entries that will help you think through some of today's most challenging scientific topics including climate change evolution bioethics and much more Essays from over 140 leading international scholars including Francis Beckwith Michael Behe Darrell Bock William Lane Craig Hugh Ross Craig Keener Davis Young John Walton and many more Multiple view essays on controversial topics allow you to understand and compare differing Christian viewpoints Learn about flesh and blood figures who have shaped the interaction of science and religion Augustine Aquinas Bacon Darwin and Stephen Hawking are just the beginning Fully cross referenced entries include references and recommendations for further reading Advance Praise Every Christian studying science will want a copy within arm's reach Scot McKnight Northern Seminary This is an invaluable resource that belongs in every Christian's library I will be keeping my copy close by when I'm writing Lee Strobel Elizabeth and John Gibson chair of apologetics Houston Baptist University Sparkles with passion controversy and diverse perspectives Karl Giberson professor of science and religion Stonehill College An impressive resource that presents a broad range of topics from a broad tent of evangelical scholars Michael R Licona Houston Baptist University I am certain that this dictionary will serve the church for many years in leading many to demonstrate that modern science can glorify our Creator and honor his creation Denis O Lamoureux University of Alberta Dictionary is too humble a label for what this is I anticipate that this will offer valuable guidance for Christian faithfulness C John Collins Covenant Theological Seminary Get answers to the difficult questions surround faith and science Adam and Eve the Age of the Earth Climate Change Evolution Fossil Record Genesis Flood Miracles Cosmology Big Bang theory Bioethics Darwinism Death Extraterrestrial Life Multiverse String theory and much much more [The Scientist](#), 1999-07 [Index Medicus](#), 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings [Hospital Literature Index](#), 1984 **AIAA Journal** American Institute of Aeronautics and Astronautics, 2002 **Forthcoming Books** Rose Arny, 1992-10 [Bibliography of Agriculture](#), 1992-11

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