

# LAB#23: Biochemical Evidence of Evolution

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

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Date: \_\_\_\_\_

Laboratory Experience #23

Worth 80 Lab Minutes

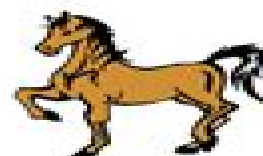
## Bridge



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 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 Answer Key

**John Janovy, Jr., Gerald W. Esch**



## Biochemical Evidence For Evolution Answer Key:

**AARP The Paleo Answer** Loren Cordain, 2012-04-23 AARP Digital Editions offer you practical tips proven solutions and expert guidance Dr Loren Cordain's bestselling *The Paleo Diet* and *The Paleo Diet Cookbook* have helped hundreds of thousands of people eat for better health and weight loss by following the diet humans were genetically designed to eat meats fish fresh fruits vegetables nuts and other foods that mimic the diet of our Paleolithic ancestors In *The Paleo Answer* he shows you how to supercharge the Paleo diet for optimal lifelong health and weight loss Featuring a new prescriptive 7 day plan and surprising revelations from the author's original research it's the most powerful Paleo guide yet Based on the author's groundbreaking research on Paleolithic diet and lifestyle Includes a new 7 day plan with recommended meals exercise routines lifestyle tips and supplement recommendations Reveals fascinating findings from the author's research over the last decade such as why vegan and vegetarian diets are not healthy and why dairy soy products potatoes and grains are not just unhealthful but may be toxic Includes health and weight loss advice for all Paleo dieters women men and people of all ages and is invaluable for CrossFitters and other athletes Written by Dr Loren Cordain the world's leading expert on Paleolithic eating styles internationally regarded as the father of Paleo Whether you've been following a Paleo friendly diet and want to take it to the next level or are just discovering the benefits of going Paleo this book will help you follow the Paleo path to the fullest for lifelong health increased energy better sleep lower stress and weight loss **Bats** John D.

Altringham, 2011-08-25 Bats are highly charismatic and popular animals that are not only fascinating in their own right but illustrate most of the topical and important concepts and issues in mammalian biology This book covers the key aspects of bat biology including evolution flight echolocation hibernation reproduction feeding and roosting ecology social behaviour migration population and community ecology biogeography and conservation This new edition is fully updated and greatly expanded throughout maintaining the depth and scientific rigour of the first edition It is written with infectious enthusiasm and beautifully illustrated with drawings and colour photographs EMRS PGT Biology Test Papers (15) , EMRS PGT

Biology teachers Test Papers 15 **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008 *Biology* Sylvia S. Mader, 2004 This text covers the concepts and principles of biology from the structure and function of the cell to the organization of the biosphere It draws upon the world of living things to bring out an evolutionary theme The concept of evolution gives a background for the study of ecological principles International Review of

Neurobiology Ronald J. Bradley, R. Adron Harris, Peter Jenner, 2006-06-07 Published since 1959 International Review of Neurobiology is a well known series appealing to neuroscientists clinicians psychologists physiologists and pharmacologists Led by an internationally renowned editorial board this important serial publishes both eclectic volumes made up of timely reviews and thematic volumes that focus on recent progress in a specific area of neurobiology research This volume is a collection of articles covering recent advances in the field of neurobiology Topics covered include chromosome 22 deletion

syndrome and schizophrenia characterization of proteome of human cerebrospinal fluid hormonal pathways regulating intermale and interfemale aggression neuronal gap junctions effects of genes and stress on the neurobiology of depression quantitative imaging with teh MicroPET small animal PET tomograph understanding myelination through studying its evolution     **Proceedings of the ... International Congress of Biochemistry** ,1963     **Fundamentals of Microbiology** I. Edward Alcamo,1997     **Proceedings of the 5th International Congress of Biochemistry, Moscow** International Congress of Biochemistry, 5th (Moscow, 1961),1963     **Proceedings of the Fifth International Congress of Biochemistry, Moscow, 10-16 August 1961** ,1963     **AQA Psychology** Michael Eysenck,2015-04-17 AQA Psychology for AS and A level Year 1 is the definitive textbook for the new 2015 curriculum Written by eminent psychologist Professor Michael Eysenck in collaboration with a team of experienced A level teachers and examiner the book enables students not only to pass their exams with flying colours but also to fully engage with the science of psychology As well as covering the six core topics students will study the book includes Activities which test concepts or hypotheses bringing theory to life Key research studies explained and explored showing the basis on which theory has developed Case studies which show how people s lives are affected by psychological phenomena Evaluation boxes which critically appraise key concepts and theories Self assessment questions which encourage students to reflect on what they ve learnt Section summaries to support the understanding of specific ideas perfect for revision Exam hints which steer students towards complete and balanced answers Key terms defined throughout so students aren t confused by new language 200 figures tables and photos End of chapter further reading to enable students to develop a deeper understanding End of chapter revision questions and sample exam papers to consolidate knowledge and practice exam technique A full companion website with a range of further resources for both students and teachers including revision aids and class materials Incorporating greater coverage of research methods as well as key statistical techniques the sixth edition of this well loved textbook continues to be the perfect introduction to psychology Accessible yet rigorous the book is the ideal textbook for students taking either the AS course or year 1 of the A level     **Molecular Evolution of Life** Herrick Baltscheffsky,Hans Jörnvall,Rudolf Rigler,1986-12-18 An interdisciplinary account of the recent advances made in understanding fundamental molecular aspects of the pre biological and biological evolution of life     *The Scientist* ,1999-07     Study Guide Johnson,Judith Stewart,2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities     **A Century of Parasitology** John Janovy, Jr.,Gerald W. Esch,2016-03-21 Reviews key areas in ecological medical and molecular parasitology Features essays from some of the world s leading parasitologists Each topic is set in context by featuring a key paper from the Journal of Paraistology over the past 100 years     **Molecular Biology of the Cell** ,2002 MBC online publishes papers that describe and interpret results of original research conserning the molecular aspects of cell structure and function     **The Illustrated Origins Answer Book** Paul Stanley Taylor,1991-03 Concise easy to understand facts

about the origin of life man and the cosmos  
James William Barrington,1979

The Lancet ,1924

Themelios ,1986

**Hormones and Evolution** Ernest

## **Biochemical Evidence For Evolution Answer Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Biochemical Evidence For Evolution Answer Key**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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