

Species 2 is closer related to species 1 because they have the fewest differences in amino acids.

2. What caused the differences in amino acids?

A mutation caused the differences in amino acids. It probably occurred millions of years ago.

3. If the amino acid sequences are similar in two species, will the nucleotide sequence of their DNA also be similar? Why or why not?

Yes, if the amino acids are similar, the DNA will be similar because DNA codes for proteins and proteins are made of amino acids.

4. List some other proteins that could be used for biochemical comparison.

Insulin, cytochrome, amylase, actin, myosin

5. Write the DNA sequence for the portion of species 1 Hemoglobin protein shown above. Write the *RNA and DNA codons* in the boxes below:

GLY	LYS	VAL	ASP	VAL	ASP	GLU	VAL	GLY	GLY
GGU	AAA	GUU	GAU	GUU	GAU	GAA	GUU	GGU	GGU
CCA	TTT	CAA	CTA	CAA	CTA	CTT	CAA	CCA	CCA

GLU	LYS	LEU	HIS	VAL	ASP	PRO	GLU	ASP	PHE
GAA	AAA	UUA	CAU	GUU	GAU	CCU	GAA	GAU	UUU
CTT	TTT	AAT	GTA	CAA	CTA	GGA	CTT	CTA	AAA

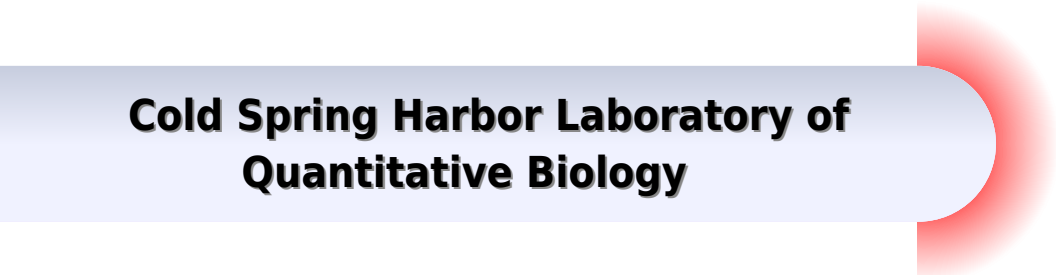
ARG	LEU
CGU	UUA
GCA	AAT

6. How is biochemical comparison different from studying the fossil record?

The fossil record deals with traces of organisms that lived long ago; biochemical comparison looks at organisms that have intact DNA. It can be used to determine evolutionary relationships among species living today.

Analyzing Amino Acid Sequences Answer Key

**Cold Spring Harbor Laboratory of
Quantitative Biology**



Analyzing Amino Acid Sequences Answer Key:

Chapter Resource 14 Class of Organisms Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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Karp's Cell and Molecular Biology Gerald Karp, Janet Iwasa, Wallace Marshall, 2020-02-19 Karp's Cell and Molecular Biology delivers a concise and illustrative narrative that helps students connect key concepts and experimentation so they better understand how we know what we know in the world of cell biology This classic text explores core concepts in considerable depth often adding experimental detail It is written in an inviting style and at mid length to assist students in managing the plethora of details encountered in the Cell Biology course The 9th Edition includes two new sections and associated assessment in each chapter that show the relevance of key cell biology concepts to plant cell biology and bioengineering Russian Journal of Genetics, 1997 **Nutrigenetics** Martin Kohlmeier, 2012-12-31 Nutrigenetics Applying the Science of Personal Nutrition provides a fully referenced readable guide to understanding the rationale and importance of nutrigenetic applications and explains why single nutrition recommendations will not fit everybody or even a majority of modern humans This book explains how genetic variation shapes individual nutrition requirements and sensitivities presents questions to ask about reported gene nutrient interactions and what needs to be done before putting nutrigenetic tests to practical use This book blends key concepts from the fields of genetics biochemistry epidemiology public health and clinical medicine to give a rich perspective on the genetically diverse nutritional needs and sensitivities of individuals in health and disease A steadily increasing number of people order genetic tests to find out what they should eat for better health well being and performance and an even greater number asks their healthcare providers about such tests Most of the currently offered tests are not grounded in current knowledge often absurdly so but few professionals can explain why they are misguided On the other hand there are more evidence supported genetic variants that can guide nutrition decisions but again most healthcare providers know little about them much less use them in their daily practice There is a great need for a solidly evidence based yet accessible book that explains the science of nutrigenetics and provides the tools to evaluate new nutrigenetic tests Comprehensive coverage of the emerging science of nutritional genetics and its promise for individually tailored nutrition guidance Presents practical examples to enhance comprehension and spur additional research Offers a logical progression from what nutrigenetics is to its possibilities in enhancing health **Life Sciences in Transition** Halldor Stefansson, 2002-08-30 These essays grew out of an effort at the EMBL to promote a new form of science communication on the social ethical and political issues that surround rapid change in the life sciences

Published in the Journal of Molecular Biology these eighteen essays address the main topics of the future of the biosciences biosciences and basic values genomics and the globalization of biology science miscommunication and reproductive technologies Hot topics such as cloning genomics reproductive technologies health care costs are addressed Key Features Significant to those in the life sciences and social sciences Features an Introduction by Halldór Stefánsson Published in conjunction with the prestigious European Molecular Biology Laboratory EMBL Think Research, 1999 Birdsong, Speech, and Language Johan J. Bolhuis, Martin Everaert, 2013 Scholars have long been captivated by the parallels between birdsong and human speech and language In this book leading scholars draw on the latest research to explore what birdsong can tell us about the biology of human speech and language and the consequences for evolutionary biology They examine the cognitive and neural similarities between birdsong learning and speech and language acquisition considering vocal imitation auditory learning an early vocalization phase babbling the structural properties of birdsong and human language and the striking similarities between the neural organization of learning and vocal production in birdsong and human speech After outlining the basic issues involved in the study of both language and evolution the contributors compare birdsong and language in terms of acquisition recursion and core structural properties and then examine the neurobiology of song and speech genomic factors and the emergence and evolution of language *Abstracts of Communications Presented at the Meeting* Federation of European Biochemical Societies, 1968 **The Scientist**, 1999 **Biochemistry** Donald Voet, Judith G. Voet, 2010-12-01 The Gold Standard in Biochemistry text books Biochemistry 4e is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge **JPRS Report**, 1993-03 **Abstracts, 23rd Annual Meetings, January 21-February 13, 1994**, 1994 *Cold Spring Harbor Symposia on Quantitative Biology* Cold Spring Harbor Laboratory of Quantitative Biology, 1933

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