

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

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Analyzing Amino Acid Sequences Answer Key:

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

Bioinformatics Mr. Rohit Manglik, 2024-06-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Basics of Bioinformatics Rui Jiang, Xuegong Zhang, Michael Q. Zhang, 2013-11-26 This book outlines 11 courses and 15 research topics in bioinformatics based on curriculums and talks in a graduate summer school on bioinformatics that was held in Tsinghua University The courses include Basics for Bioinformatics Basic Statistics for Bioinformatics Topics in Computational Genomics Statistical Methods in Bioinformatics Algorithms in Computational Biology Multivariate Statistical Methods in Bioinformatics Research Association Analysis for Human Diseases Methods and Examples Data Mining and Knowledge Discovery Methods with Case Examples Applied Bioinformatics Tools Foundations for the Study of Structure and Function of Proteins Computational Systems Biology Approaches for Deciphering Traditional Chinese Medicine and Advanced Topics in Bioinformatics and Computational Biology This book can serve as not only a primer for beginners in bioinformatics but also a highly summarized yet systematic reference book for researchers in this field Rui Jiang and Xuegong Zhang are both professors at the Department of Automation Tsinghua University China Professor Michael Q Zhang works at the Cold Spring Harbor Laboratory Cold Spring Harbor NY USA

Knowledge-Based Systems in Biomedicine and Computational Life Science Tuan D. Pham, Lakhmi C. Jain, 2012-12-14 This book presents a sample of research on knowledge based systems in biomedicine and computational life science The contributions include personalized stress diagnosis system image analysis system for breast cancer diagnosis analysis of neuronal cell images structure prediction of protein relationship between two mental disorders detection of cardiac abnormalities holistic medicine based treatment and analysis of life science data

Voet's Principles of Biochemistry Donald Voet, Charlotte W. Pratt, Judith G. Voet, 2018 Voet's Principles of Biochemistry Global Edition addresses the enormous advances in biochemistry particularly in the areas of structural biology and bioinformatics It provides a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future New information related to advances in biochemistry and experimental approaches for studying complex systems are introduced Notes on a variety of human diseases and pharmacological effectors have been expanded to reflect recent research findings While continuing in its tradition of presenting complete and balanced coverage this Global Edition includes new pedagogy and enhanced visuals that provide a clear pathway for student learning 4e de couverture

DNA and Biotechnology Molly Fitzgerald-Hayes, Frieda Reichsman, 2009-09-08 Appropriate for a wide range of disciplines from biology to non biology law and nursing majors DNA and Biotechnology uses a straightforward and comprehensive writing style that gives the educated layperson a survey of

DNA by presenting a brief history of genetics a clear outline of techniques that are in use and highlights of breakthroughs in hot topic scientific discoveries Engaging and straightforward scientific writing style Comprehensive forensics chapter Parallel Pedagogic material designed to help both readers and teachers Highlights in the latest scientific discoveries Outstanding full color illustration that walk reader through complex concepts *A Guide to Asking about Life for Teachers and TAs* Donald L. Cronkite, 2001 *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 *The Proterozoic Biosphere* J. William Schopf, Cornelis Klein, 1992-06-26 First published in 1992 The Proterozoic Biosphere was the first major study of the paleobiology of the Proterozoic Earth

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 books 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

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