

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.

Amino Acid Sequences And Evolution Answer Key

M Lipman

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The Neutral Theory of Molecular Evolution Motoo Kimura, 1985-01-10 Motoo Kimura as founder of the neutral theory is uniquely placed to write this book. He first proposed the theory in 1968 to explain the unexpectedly high rate of evolutionary change and very large amount of intraspecific variability at the molecular level that had been uncovered by new techniques in molecular biology. The theory which asserts that the great majority of evolutionary changes at the molecular level are caused not by Darwinian selection but by random drift of selectively neutral mutants has caused controversy ever since. This book is the first comprehensive treatment of this subject and the author synthesises a wealth of material ranging from a historical perspective through recent molecular discoveries to sophisticated mathematical arguments all presented in a most lucid manner.

[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.

Visualizing Human Biology Kathleen A. Ireland, 2017-12-19 Visualizing Human Biology is a visual exploration of the major concepts of biology using the human body as the context. Students are engaged in scientific exploration and critical thinking in this product specially designed for non science majors. Topics covered include an overview of human anatomy and physiology, nutrition, immunity and disease, cancer biology and genetics. The aim of Visualizing Human Biology is a greater understanding, appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions.

Cumulated Index Medicus, 1979 *Thomas' Hematopoietic Cell Transplantation* Karl G. Blume, Stephen J. Forman, Frederick R. Appelbaum, 2008-04-15 NEW the leading book in its field now fully updated and revised. Click here to access two FREE sample chapters. An Essential resource for all hematologists, oncologists, pathologists, pediatricians, immunologists and all others interested in this dynamic area of medicine. Why you should buy this book: Extensive coverage of subject area from the scientific basis to the view of the future. Includes all experimental research and clinical application. Combined the knowledge and expertise of over 170 international specialists. Clear structure and layout. Over 500 illustrations including a colour plate section. Why buy the NEW edition? New and fully revised to reflect the latest developments in this fast moving field. 10 new chapters covering some of the latest developments see below for the complete tables of content.

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