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Clocks Study Guide Answer

molecular clock. theoretical clock that used the rate of mutation to measure evolutionary time. mitochondrial DNA.

DNA only found in the mitochondria, often used as a molecular clock.

ribosomal RNA. RNA that is in the ribosome and guides the translation of mRNA into a protein; used as a molecular clock.

17.3 Molecular Clocks Flashcards | Quizlet

Molecular clocks can be useful not only for identifying when living organisms diverged over time but also viruses such as HIV. Working backwards using a molecular clock, scientists have been able...

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Problems - Study.com Key

Top Answer UPGMA and molecular clocks are similar because UPGMA is used for the creation of phenetic trees and it was designed for use in protein electrophoresis studies, but it is currently most often used to produce guide trees for more sophisticated algorithms.

[Solved] 7. Explain how UPGMA and molecular clocks are ...

7. UPGMA and Molecular clocks both assume equal mutation rates, that is, mutations develop at a constant rate. The problem here is the data produced is not ultrametric (ultrametric means data is not proportional to time). You over or underestimate the time at which the species actually diverged from each other.

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[Solved] 7. Explain how UPGMA and molecular clocks are ...

Answer to 7. Explain how UPGMA and molecular clocks are similar. How can this similarity lead to errors in the relationships they ...

Solved: 7. Explain How UPGMA And Molecular Clocks Are Simi ...

Molecular Clocks Study Guide Answer molecular clock. theoretical clock that used the rate of mutation to measure evolutionary time. mitochondrial DNA. DNA only found in the mitochondria, often used as a molecular clock. ribosomal RNA. RNA that is in the ribosome and guides the translation of mRNA into a protein; used as a molecular clock.

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molecular clock. theoretical clock that used the rate of mutation to measure evolutionary time. mitochondrial DNA. DNA only found in the mitochondria, often used as a molecular clock. ribosomal RNA. RNA that is in the ribosome and guides the translation of mRNA into a protein; used as a molecular clock.

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17.4 Molecular Evolution Flashcards | Quizlet

Answer to Explain, with details, the molecular clock discovered in *Drosophila melanogaster*. CS
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Solved: Explain, With Details, The Molecular Clock Discove ...

The molecular clock is a figurative term for a technique that uses the mutation rate of biomolecules to deduce the time in prehistory when two or more life forms diverged. The biomolecular data used for such calculations are usually nucleotide sequences for DNA, RNA, or amino acid sequences for proteins. The benchmarks for determining the mutation rate are often fossil or archaeological dates. The molecular clock was first tested in 1962 on the

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hemoglobin protein variants of various animals, and

Molecular clock - Wikipedia

Molecular Clocks: The molecular clock hypothesis suggests that number of changes in the DNA sequence occur at rates that are relatively similar between genes and between organisms. In general, the...

Biologists use molecular clocks to try to ... - Study.com

Molecular Clocks: theoretical clocks using mutation rates to measure evolutionary time How they work: assume that mutations tend to accumulate at a constant rate for a group of related species; the longer two species are separated after diverging from a common ancestor, the more mutations will have

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accumulated answer Key

Chapter 17 Power Notes Answer Sheet - Weebly

MOLECULAR CLOCKS Section Quiz
Choose the letter of the best answer.

1. What do molecular clocks use to measure evolutionary time? a. dichotomous keys b. mutation rates c. physical characteristics d. binomial nomenclature
2. Which of the following has the lowest mutation rate? a. ribosomal RNA b. protein sequences c. amino acids d. mitochondrial ...

SECTION MOLECULAR CLOCKS
17.3 Section Quiz

RNA that is in the ribosome and guides the translation of mRNA into a protein, also used as a molecular clock.

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Subject. Science, Biology, General Science. ... so they can answer the questions directly from the text, ...

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