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Guide Answer

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

mitochondrial DNA. DNA only  
found in the mitochondria,

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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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Top Answer Upgma and

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molecular clocks are similar because upgma is used for the creation of phenetic trees and it was designed for use in protien electrophoresis studies ,but it is currently most ofen used to produse 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

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proportional to time). You over or underestimate the time at which the species actually diverged from each other.

## **[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

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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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understood, completion does not suggest that you have fantastic points.

## **Molecular Clocks Study Guide Answer Key**

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 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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## 17.4 Molecular Evolution Flashcards | Quizlet

Answer to Explain, with details, the molecular clock discovered in *Drosophila melanogaster*. CS Scanned with CamScanner...

### **Solved: Explain, With Details, The Molecular Clock Discover ...**

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

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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 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 ... -**

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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  
accumulated

## **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?

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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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Science, Biology, General  
Science. ... so they can  
answer the questions  
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Beyond Linnaeus ☆Dinosaur  
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