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28 Answers  
Lab 28

# Answers

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~~Evolution? Lab~~

~~Worksheet:~~

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The Miller-Urey  
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Lab The Theory of  
Evolution (by  
Natural Selection) |  
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Education What  
Happened Before  
History? Human  
Origins Myths and  
misconceptions  
about evolution -  
Alex Gendler How

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## Evolution works

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How we found out  
evidence for  
evolution is true:

John van Wyhe at

TEDxNTUCan

Science Explain the  
Origin of Life?

Speciation and

Macroevolution

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evidence evolution

28:19 Nexus:

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~~for evolution (OCR  
A Chapter 10.4)~~

Comparative  
Anatomy: What  
Makes Us Animals -  
Crash Course

Biology #21

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Thus, scientists use  
biochemical  
evidence (the amino  
acid sequence of

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proteins) to establish how organisms have evolved.

Hemoglobin, a component of red blood cells, is one of the most widely studied of all proteins. In this activity, you will analyze the amino acid sequence of the hemoglobin

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Protein in three species: human, horse and gorilla.  
Evidence For Evolution Lab

## Student Work

Evolution LAB# 23:

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Activity. The study of evolution using homology consists

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of a classification method based on analysis of antigen-antibody complexes found in the blood.

Using a modified Nuttall precipitation technique, students will identify the source of each sample.

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Activity | VWR

Lab – Biochemical

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Evolution.

Objectives: To examine amino acid sequences from different species and, using this information, determine the evolutionary relationships that

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may exist between them. Background: The biochemical comparison of proteins is a technique used to determine evolutionary relationships among groups of organisms.

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Evolution

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Evolution -Adapted  
from McDougal  
Littell – Biology  
Labs

INTRODUCTION:  
One method  
scientists use to  
help determine the

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Evolutionary relationships between organisms is to analyze and compare the molecular structure of proteins. Recall that proteins are made up of chains of amino acids. There are 20 amino acids

Biochemical

*Page 18/39*

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Evidence for Evolution  
biochemical evidence for evolution have amino acids  
Gortlla: of amino acid totals in 2moglobin of in Table 2. unvan amino re for horse ids hemical evide of each amino human, gor la and horse.

# Download File PDF

the seq of a  
gorillas Figure 1 of  
each kind) bin.  
Record t Table 2.  
acid in the h.

## biochemical evidence for evolution

The theory of  
evolution is  
supported by  
biochemical  
evidence; many of

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the same molecules and biochemical processes occur within all living organisms, from single-cell bacteria to humans.

Originally, scientists couldn't understand how the process of evolution began, but they later discovered that RNA possesses

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catalytic properties.

## What Biochemical Evidence Is There for Evolution?

Origins and  
Biochemical  
Evidence. N.p., n.d.  
Web. 20 Apr. 2015.

As scientist have  
gained more  
detailed knowledge  
about biochemistry  
and how it impacts

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the DNA of organisms, the idea of evolution has continued to give reason to how and why we have a such a diverse biosphere. With all of the evidence for evolution ,gathered by biochemical means, the theory has gained popularity not only

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within the scientific community but also the general public.

Biochemical

Evidence for

Evolution by Alex

Posley

Origins and biochemical evidence. By studying the basic biochemistry shared by many



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organisms, we can begin to piece together how biochemical systems evolved near the root of the tree of life.

However, up until the early 1980s, biologists were stumped by a "chicken and egg" problem: in all modern organisms,

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nucleic acids (DNA and RNA) are necessary to build proteins, and proteins are necessary to build nucleic acids - so which came first, the nucleic acid or the protein?

Origins and  
biochemical  
evidence -

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## Understanding Evolution

An interesting additional line of evidence supporting evolution involves sequences of DNA known as "pseudogenes."

Pseudogenes are remnants of genes that no longer function but continue to be

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carried along in  
DNA as excess  
baggage.

## Evidence

Supporting

Biological Evolution

| Science and ...

16) biochemistry is considered the best evidence for evolution. An important protein in animals called

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Cytochrome c is used during cellular respiration. There are fewer differences in the amino acid sequence of this protein between more closely related species.

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Evolution Lab 23  
Bio 2. Learn  
vocabulary, terms,  
and more with  
flashcards, games,  
and other study  
tools.

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Quizlet

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Evidence for evolution: anatomy, molecular biology, biogeography, fossils, & direct observation. Google Classroom Facebook Twitter. Email. Evolution and natural selection. Introduction to evolution and natural selection.

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Ape clarification.  
Natural selection  
and the owl  
butterfly.

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evolution (article) |  
Khan Academy

Directions for your  
Evolution Evidence  
in Amino Acid  
Sequences Lab

Evolution Evidence



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## in Amino Acids Sequences Lab - YouTube

The Leptin protein is central to the regulation of energy metabolism in mammals. By integrating evolutionary, structural, and biochemical information, a surface segment,

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outside of its known receptor contacts, is predicted as a second interaction site that may help to further define its roles in energy balance and its functional differences between humans and other mammals.

Evolutionary.

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## Structural and Biochemical Evidence for a ... Biochemical

Evidence For  
Evolution If two organisms have similar DNA molecules, they have similar proteins. Similar proteins have similar amino acid sequences

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(orders). Thus, if amino acid sequences are similar, DNA of the organisms is similar. Scientists believe that similar DNA sequences indicate a common origin. The more similar the

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The fossil record provides strong evidence for evolution. It shows us that evolutionary change tends to be gradual. It gives us physical proof of extinction, and of single species splitting into...

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Evolution | NOVA

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## Labs | PBS

When Charles Darwin first proposed the idea that all new species descend from an ancestor, he performed an exhaustive amount of research to provide as much evidence as possible. Today, the major pieces of

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evidence for this theory can be broken down into the fossil record, embryology, comparative anatomy, and molecular biology.

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