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Biochemical Evidence for Evolution Lab Activity. The study of evolution using homology consists 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

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of each sample.

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Lab - Biochemical  
Evidence of Evolution .  
Objectives: To examine  
amino acid sequences  
from different species  
and, using this  
information, determine  
the evolutionary  
relationships that may  
exist between them.  
Background: The  
biochemical  
comparison of proteins  
is a technique used to

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determine evolutionary relationships among groups of organisms.

## **Lab Biochemical Evidence of Evolution**

Thus, scientists use biochemical evidence (the amino acid sequence of proteins) to establish how organisms have evolved. Hemoglobin, a component of red blood cells, is one of the most widely



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studied of all proteins. In this activity, you will analyze the amino acid sequence of the hemoglobin protein in three species: human, horse and gorilla.

## **Student Work** **Evolution LAB#23:** **Biochemical** **Evidence of ...**

Biochemical Evidence  
for Evolution -Adapted  
from McDougal Littell -  
Biology Labs

INTRODUCTION: One

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method scientists use to help determine the 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.

## **Biochemical Evidence for Evolution**

With all of the evidence for evolution gathered

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by biochemical means,  
the theory has gained  
popularity not only  
within the scientific  
community but also  
the general public.

Compatibility.

Divergence of Species  
and the formation of  
New Species.

Population Pressures:  
Bottle Neck, Founders  
Effect. Charles Darwin  
and Fitness.

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**Evolution by Alex  
Posley**

BIOCHEMICAL  
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EVOLUTION. If two  
organisms have similar  
DNA molecules, they  
have similar proteins.  
Similar proteins have  
similar. amino acid  
sequences (orders).  
Thus, if amino acid  
sequences are similar,  
DNA of the organisms  
is. similar. Scientists  
believe that similar  
DNA sequences

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indicate a common origin. The more similar the DNA of

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The theory of evolution is supported by biochemical evidence; many of the same molecules and biochemical processes occur within all living organisms, from single-cell bacteria to

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

## **What Biochemical Evidence Is There for Evolution?**

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

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

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acid or the protein?

**Origins and  
biochemical**

**evidence - Evolution**

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. Ape  
clarification, Natural



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selection and the owl butterfly.

## Answer Key **Evidence for evolution (article) | Khan Academy**

With the technology available to scientists today, there are many ways to support the Theory of Evolution with evidence. DNA similarities between species, knowledge of developmental biology, and other evidence for microevolution are

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abundant, but scientists haven't always had the capabilities to examine these types of evidence.

## **Anatomical Evidence of Evolution - ThoughtCo**

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Lab Activity. The study  
of evolution using

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homology consists 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.

## **Biochemical Evidence For Evolution Lab 26 Answer Key | id ...**

16) biochemistry is considered the best

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evidence for evolution.

An important protein in

animals called

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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Lab.

Answer Key  
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in Amino Acids  
Sequences Lab**

Here's a brief summary of the evidence that supports the theory of evolution by natural selection: Biochemistry is the study of the basic chemistry and processes that occur in cells. The biochemistry of all living things on Earth is incredibly

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similar, showing that all of Earth's organisms share a common ancestry.

## **What Evidence Supports the Theory of Evolution? - dummies**

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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 evidence for this theory can be broken down into the fossil

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record, embryology,  
comparative anatomy,  
and molecular biology.

## **Evidence of Evolution-Answers in gray Background Fossils**

Sterol biosynthesis is nearly ubiquitous among eukaryotes; conversely, it is almost completely absent in prokaryotes (1). As a result, the presence of diverse steranes in ancient rocks is used



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as evidence for  
eukaryotic evolution  
>2.7 billion years ago  
(2). However, the  
occasional presence of  
sterols in prokaryotes  
is poorly understood.

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