

## Guided Inquiry • Skills Lab

## Chapter 16 Lab

# Amino Acid Sequences: Indicators of Evolution

## Problem

How can you use proteins to determine how closely organisms are related?

## Introduction

Biologists have many ways to study evolution. They can use fossils to learn about ancient species. They can compare the anatomy of modern species. They can observe the order in which cells develop in embryos. All these clues reflect what took place over time at the molecular level. DNA and proteins, the genes and the products of genes, provide powerful evidence for descent with modification.

As DNA changes over time, the proteins that are produced by the DNA change too. The result is that many organisms have similar, but not identical, versions of a given protein. Differences among these homologous proteins provide clues to evolution.

In Part A of this lab, you will compare amino acid sequences of hemoglobin from eight mammals. In Part B, you will analyze data about sequences in a second protein—cytochrome c. In Part B, the organisms will be more varied.

## Skills Focus

Analyze Data, Graph, Draw Conclusions



## Build Vocabulary

Term	Definition
compare	To examine two or more things in order to discover ways in which they are alike, or <i>comparable</i> , and ways in which they are different
sequence	The order in which things are arranged, actions are carried out, or events happen
related	Connected by a common, or shared, origin; descended from a common ancestor
identical	Exactly the same or alike in every way

## Big Idea

Molecular biology provides evidence for evolution.

## Skills Objectives

Students will be able to:

- analyze amino acid sequences of proteins.
- infer the relatedness of species from differences in proteins.

## Class Time

40 minutes

## Group Size

Individuals

## Build Vocabulary

Students will have a more successful lab experience if they understand these terms.

# Lab Amino Acid Sequences Indicators Of Evolution

**Wolfgang Guggemos**



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