

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

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Table of Contents Lab Amino Acid Sequences Indicators Of Evolution

1. Understanding the eBook Lab Amino Acid Sequences Indicators Of Evolution
 - The Rise of Digital Reading Lab Amino Acid Sequences Indicators Of Evolution
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Amino Acid Sequences Indicators Of Evolution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Amino Acid Sequences Indicators Of Evolution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Amino Acid Sequences Indicators Of Evolution
 - Personalized Recommendations
 - Lab Amino Acid Sequences Indicators Of Evolution User Reviews and Ratings
 - Lab Amino Acid Sequences Indicators Of Evolution and Bestseller Lists
5. Accessing Lab Amino Acid Sequences Indicators Of Evolution Free and Paid eBooks
 - Lab Amino Acid Sequences Indicators Of Evolution Public Domain eBooks
 - Lab Amino Acid Sequences Indicators Of Evolution eBook Subscription Services
 - Lab Amino Acid Sequences Indicators Of Evolution Budget-Friendly Options

6. Navigating Lab Amino Acid Sequences Indicators Of Evolution eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Amino Acid Sequences Indicators Of Evolution Compatibility with Devices
 - Lab Amino Acid Sequences Indicators Of Evolution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Amino Acid Sequences Indicators Of Evolution
 - Highlighting and Note-Taking Lab Amino Acid Sequences Indicators Of Evolution
 - Interactive Elements Lab Amino Acid Sequences Indicators Of Evolution
8. Staying Engaged with Lab Amino Acid Sequences Indicators Of Evolution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Amino Acid Sequences Indicators Of Evolution
9. Balancing eBooks and Physical Books Lab Amino Acid Sequences Indicators Of Evolution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Amino Acid Sequences Indicators Of Evolution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Amino Acid Sequences Indicators Of Evolution
 - Setting Reading Goals Lab Amino Acid Sequences Indicators Of Evolution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Amino Acid Sequences Indicators Of Evolution
 - Fact-Checking eBook Content of Lab Amino Acid Sequences Indicators Of Evolution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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