

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.

Evolution Lab Amino Acids Olympia High School Ohs

François Blachier



Evolution Lab Amino Acids Olympia High School Ohs:

The Evolutionary Journey of Amino Acids François Blachier, 2025-06-24 This book takes readers on a journey from the very fundamental and chemical beginnings of amino acids on Earth to their role in human metabolism. It provides background on how amino acid metabolism has changed across the evolutionary tree and discusses their physico-chemical properties as well as their biochemical roles across various forms of life. Amino acids are emerging as key players in numerous physiological functions and are being increasingly recognized as playing a mechanistic role for the communication between the gut microbiota and the host in healthy state and in some pathophysiological situations. However, understanding these associations requires a multidisciplinary approach combining chemistry, biochemistry, physiology, nutrition, molecular, cellular biology, and microbiology. This book aims to describe the science behind amino acids from their first appearance and evolutionary significance all the way through the tree of life to humans and then to consider how gut microbial amino acid metabolism regulates human physiology and risk in some chronic diseases. It covers key concepts such as the characteristics of different amino acids found in living organisms, their existence in the pre-living world, and their vital roles in metabolism and physiology. It also explores intriguing questions about microbial communication and the effect of amino acid-derived microbial metabolites on mammalian cells. With this multidisciplinary approach and accessible structure, this book will appeal not only to students and researchers with a background in biochemistry and related fields but also to non-specialists with an interest in the foundations of life at the intersection of evolutionary biology and metabolism.

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Table of Contents Evolution Lab Amino Acids Olympia High School Ohs

1. Understanding the eBook Evolution Lab Amino Acids Olympia High School Ohs
 - The Rise of Digital Reading Evolution Lab Amino Acids Olympia High School Ohs
 - Advantages of eBooks Over Traditional Books
2. Identifying Evolution Lab Amino Acids Olympia High School Ohs
 - 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 Evolution Lab Amino Acids Olympia High School Ohs
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evolution Lab Amino Acids Olympia High School Ohs
 - Personalized Recommendations
 - Evolution Lab Amino Acids Olympia High School Ohs User Reviews and Ratings
 - Evolution Lab Amino Acids Olympia High School Ohs and Bestseller Lists
5. Accessing Evolution Lab Amino Acids Olympia High School Ohs Free and Paid eBooks
 - Evolution Lab Amino Acids Olympia High School Ohs Public Domain eBooks
 - Evolution Lab Amino Acids Olympia High School Ohs eBook Subscription Services
 - Evolution Lab Amino Acids Olympia High School Ohs Budget-Friendly Options
6. Navigating Evolution Lab Amino Acids Olympia High School Ohs eBook Formats
 - ePub, PDF, MOBI, and More
 - Evolution Lab Amino Acids Olympia High School Ohs Compatibility with Devices
 - Evolution Lab Amino Acids Olympia High School Ohs Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evolution Lab Amino Acids Olympia High School Ohs
 - Highlighting and Note-Taking Evolution Lab Amino Acids Olympia High School Ohs
 - Interactive Elements Evolution Lab Amino Acids Olympia High School Ohs

8. Staying Engaged with Evolution Lab Amino Acids Olympia High School Ohs
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evolution Lab Amino Acids Olympia High School Ohs
9. Balancing eBooks and Physical Books Evolution Lab Amino Acids Olympia High School Ohs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Evolution Lab Amino Acids Olympia High School Ohs
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Evolution Lab Amino Acids Olympia High School Ohs
 - Setting Reading Goals Evolution Lab Amino Acids Olympia High School Ohs
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Evolution Lab Amino Acids Olympia High School Ohs
 - Fact-Checking eBook Content of Evolution Lab Amino Acids Olympia High School Ohs
 - 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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