

Name: _____

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Biology: Biochemical Evidence for Evolution

Background Information: If two organisms have similar DNA molecules, they must have similar amino acids and thus similar proteins. Therefore, DNA comparisons can be made by examining the sequences of amino acids within a protein.

Scientists have long believed that similar DNA sequences indicate a common origin and ancestor. The more similar the DNA of two living organisms, the more closely related they may be to one another. Hemoglobin, a protein in red blood cells, has been studied. Scientists know the specific amino acids and their arrangements in hemoglobin molecules of humans, gorilla, and horses.

In this investigation, you will

- count and record the molecules of each amino acid present in similar portions of humans, gorilla, and horse hemoglobin.
- Count and record differences in the sequence of amino acids in similar portions of human, gorilla, and horse hemoglobin.
- Use this data to show how biochemical evidence can be used to support evolution.

Procedure

Part A: Amino Acid Sequence

- Read the amino acid sequences from left to right beginning at the upper right hand corner of figure 39-1. Compare the sequences of humans to the sequences of gorillas and horses. An example of a sequence difference between humans and horses is shown on figure 39-1.
- Record in Table 39-1 the total number of differences in the sequences of gorilla and human amino acids. Then repeat this for horse and human, and for gorilla and horse.

Table 39-1. Number of Amino Acid Sequence Differences

Organisms	Number of Differences
Gorilla and Human	
Horse and Human	
Gorilla and Horse	

Using the information you collected, graph the differences between the three organisms below. Be sure to title your graph and label both axes.



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Emilie Sanchez



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Table of Contents Biochemical Evidence For Evolution Lab 28 Answers

1. Understanding the eBook Biochemical Evidence For Evolution Lab 28 Answers
 - The Rise of Digital Reading Biochemical Evidence For Evolution Lab 28 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biochemical Evidence For Evolution Lab 28 Answers
 - 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 Biochemical Evidence For Evolution Lab 28 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biochemical Evidence For Evolution Lab 28 Answers
 - Personalized Recommendations
 - Biochemical Evidence For Evolution Lab 28 Answers User Reviews and Ratings
 - Biochemical Evidence For Evolution Lab 28 Answers and Bestseller Lists

5. Accessing Biochemical Evidence For Evolution Lab 28 Answers Free and Paid eBooks
 - Biochemical Evidence For Evolution Lab 28 Answers Public Domain eBooks
 - Biochemical Evidence For Evolution Lab 28 Answers eBook Subscription Services
 - Biochemical Evidence For Evolution Lab 28 Answers Budget-Friendly Options
6. Navigating Biochemical Evidence For Evolution Lab 28 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biochemical Evidence For Evolution Lab 28 Answers Compatibility with Devices
 - Biochemical Evidence For Evolution Lab 28 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biochemical Evidence For Evolution Lab 28 Answers
 - Highlighting and Note-Taking Biochemical Evidence For Evolution Lab 28 Answers
 - Interactive Elements Biochemical Evidence For Evolution Lab 28 Answers
8. Staying Engaged with Biochemical Evidence For Evolution Lab 28 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biochemical Evidence For Evolution Lab 28 Answers
9. Balancing eBooks and Physical Books Biochemical Evidence For Evolution Lab 28 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biochemical Evidence For Evolution Lab 28 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biochemical Evidence For Evolution Lab 28 Answers
 - Setting Reading Goals Biochemical Evidence For Evolution Lab 28 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biochemical Evidence For Evolution Lab 28 Answers
 - Fact-Checking eBook Content of Biochemical Evidence For Evolution Lab 28 Answers
 - 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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