

Blast Lab Answer Key

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Blast Lab Unknown Organism. The organism appears to have a tail, long legs, short arms, and could potentially have been a predator. The kingdom it belongs to is most likely Animalia and its anatomy is most closely related to a bird or even a reptile.

Gene 1

Blast Lab - AP Biology Lab NotebookBy: Stephanie Strong

The Big BLAST Lab! - AP Biology Lab Answer: The percentage of similarity in the protein is always higher than the percentage of similarity in the genes for each species because proteins only have 20 amino acids and are specific in function, shape, and size. Genes on the other hand are more flexible and can have 64 possible codon communications.

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Ap Biology Lab 21 Have A Blast Answers

BLAST Lab Objective/purpose: Compare DNA sequence/genes to understand evolutionary relationships using BLAST. Gene 1 Gene 2 Where is that species located on your cladogram? Gene 3 The gallus gallus gene is located at the bottom/end of the cladogram because it appears to have

BLAST Lab by Sabiana Joseph - Prezi

BLAST Lab 1. Observations about the unknown fossil. The unknown fossil is a heterotroph and has vertebrae. It generally resembles the modern-day crocodile. The fossil does not appear to have feathers, fur, or opposable thumbs, which allowed for estimated placement on the cladogram. 2. Analysis Questions. Gene 1. Gene 2. Gene 3.

Blast - AP Biology Lab Notebook

Investigation 4: BLAST Your Own Genes of Interest My Gene:

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Keratin 18 Hypothesis: If Keratin is a key component in the making of the hair and nails of humans, it is a key component in the hair and nails of primates because of the close genetic relationship. Materials: computer with internet access
Procedures:

BLAST Lab - AP Biology Blog

Comparing DNA Sequences to Understand Evolutionary Relationships with BLAST Literature Cited Problem "Basic Local Alignment Search Tool." BLAST:. N.p., n.d. Web. 11 ...

BLAST lab by Alex Patti - Prezi

Comparing DNA Sequences to Understand Evolutionary Relationships With Blast How can bioinformatics be used as a tool to determine evolutionary relationships and to better understand genetic diseases? In this laboratory investigation, you will use BLAST to compare several genes, and then use the

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information to construct a cladogram. A cladogram is treelike, with the endpoints of each...

BLAST Lab | LHS AP Biology Class

The Big BLAST Lab! 10/4/2015 11 Comments ... Answer: The percentage of similarity in the protein is always higher than the percentage of similarity in the genes for each species because proteins only have 20 amino acids and are specific in function, shape, and size. Genes on the other hand are more flexible and can have 64 possible codon ...

The Big BLAST Lab! - AP Biology Lab

Name: _____ AP Biology - Lab 21 Page 4 of 12 3) The following four alien species were discovered, and it was realized that species "A" is very primitive - therefore it is the outgroup for the bunch. Use the pictures of each species to answer the following questions. a.

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LAB 21 - Have a BLAST!

Pre-Lab Questions Name: 1. Use the following data to construct a cladogram of the major plant groups. Table 1: Characteristics of Major Plant Groups eeds rganism ... When BLAST is done with its search, you can scroll down and see a chart of your results. Note your result in 9. the chart below.

KM 654e-20150310152519

Lab Investigation 3: BLAST ... Explain your answer. 4. If you found the same protein in all organisms you test, what does this suggest about the evolution of this gene in the history of life one earth? Justify your answer with evidence. Title: 2017 BLAST Lab 3 ST cah

Lab Investigation 3: BLAST

On BLAST, finding a species that had the least similarity in gene

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sequence could of been incorrect because it was inferred that it would be located at the bottom. After further inspection, the percentage of similarity in gene sequence were mixed up after 50%.

Gotta Blast! - AP Biology Blog

Lab Investigation 3: BLAST Lab Procedure - Read the paragraphs at the bottom of page S44. This is an enlarged photo of Figure 3. This fossil specimen was found near the Liaoning Province in China. It is a newly discovered species. (Remember: DNA nucleotide sequences were extracted from soft tissue in this fossil.)

Comparing DNA Sequences to Understand Evolutionary ...

An extremely powerful bioinformatics tool is BLAST, which stands for Basic Local Alignment Search Tool. Using BLAST, you can input a gene sequence of interest and search entire genomic

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libraries for identical or similar sequences in a matter of seconds. In this laboratory investigation, students will use BLAST to compare several genes,

Big Evolution 1 - AP Central

Click on “nucleotide blast” under the Basic BLAST menu. Paste the sequence into the box where it says “Enter Query Sequence.” Give the query a title in the box provided if you plan on saving it for later. Under “Choose Search Set” select the type or genome you want to search (human genome, mouse genome, or all genomes available).

Determining Evolutionary Relationships Using BLAST ...

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student lab manual on pages 41-42. Define the vocabulary and answer the questions based on the background information in your lab notebook. As well, list the three learning objectives in your lab notebook. Key Vocabulary Human Genome Project Genome Bioinformatics BLAST Cladogram Common Ancestor Derived Characteristics

Constructing Evolutionary Lineages using DNA BLAST

Kiani Oro AP Biology Period: 6 Blast Lab Write-up In this experiment, three genes that were previously extracted from a fossil specimen found in Liaoning, China were analyzed in order to determine the placement of this specimen on a cladogram. The initial hypothesis was that this specimen should be placed

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between crocodilians and birds (Figure...

BLAST Lab - AP Biology

All links to online resources were verified before publication. In cases where links are no longer working, we suggest that you try to find the resource by doing a keyword Web search. AP Biology Investigative Labs: Comprehensive Links The following resources appear in the second printing of the AP Biology Investigative Labs: An Inquiry-Based Approach, Teacher Manual. General Overview Mahjongg ...

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