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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.

The Big BLAST Lab! - AP Biology Lab

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Ap Biology Lab 21 Have A Blast Answers

BLAST Database is used to find similarities between biological sequences. The program compares nucleotide sequences and calculates the significance of matches. BLAST helps its users draw conclusions about evolutionary relationships among different species. One of, if not the most important pieces of evidence for evolution is DNA/proteins.

AP Biology BLAST Lab by Emma Smith - Prezi

Blast Lab - AP Biology Lab Notebook By: 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

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because proteins only have 20 amino acids and are specific in function, shape, and size.

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1) What Species in the BLAST result has the most similar gene sequence to the gene of interest ? - The species in the BLAST lab is the Dorsophilla Melangoblaster F102063. 2) Where is the species located on the cladogram? - The species is within the 4th leaf under the flies. 3) How similar is that gene sequence?

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Investigation 3: Undercovering Fossil Specimen using BLAST
A. MORPHOLOGICAL OBSERVATION OF THE FOSSIL SPECIMEN AND FORMING THE HYPOTHESIS Make some general observations about the morphology (physical structure) of the fossil and record your observations in the space provided. The morphology of the fossil indicates that it is not a human.

Gotta Blast! - AP Biology Blog

Once you have found the gene on the site, copy the gene sequence and input it into a BLAST query. Follow the instructions below to BLAST your own gene of interest: 1. On the Entrez Gene website search the term "keratin 18". 2.

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Click on the first link that appears and scroll down to “NCBI Reference Sequences”. 3.

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Answer Sheet for BLAST Lab - Name AP Biology Using BLAST ... Java Project Tutorial - Make Login and Register Form Step by Step Using NetBeans And MySQL Database - Duration: 3:43:32. 1BestCsharp blog Recommended for you AP BLAST Lab Lab Manual Overview. The AP Biology Investigative Labs: An Inquiry-Based Approach was developed

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In this laboratory investigation, you will use BLAST to

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compare several genes, and then use the information to construct a cladogram. A cladogram is treelike, with the endpoints of each branch representing a specific species. The closer two species are located to each other, the more recently they share a common ancestor.

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AP Lab 3: Comparing DNA Sequences to Understand Evolutionary Relationships with BLAST. Background Information . Between 1990–2003, scientists working on an international research project known as the Human Genome Project were able to identify and map the 20,000–25,000 genes that define a human being.

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AP Biology - Investigation 3 – DNA BLAST

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Baum and Smith, both professors evolutionary biology and researchers in the field of systematics, present this highly accessible introduction to phylogenetics and its importance in modern biology. Ever since Darwin, the evolutionary histories of organisms have been portrayed in the form of branching trees or "phylogenies." However, the broad significance of the phylogenetic trees has come to be appreciated only quite recently. Phylogenetics has myriad applications in biology, from discovering the features present in ancestral organisms, to finding the sources of invasive species and infectious diseases, to identifying our closest living (and extinct) hominid

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relatives. Taking a conceptual approach, Tree Thinking introduces readers to the interpretation of phylogenetic trees, how these trees can be reconstructed, and how they can be used to answer biological questions. Examples and vivid metaphors are incorporated throughout, and each chapter concludes with a set of problems, valuable for both students and teachers. Tree Thinking is must-have textbook for any student seeking a solid foundation in this fundamental area of evolutionary biology.

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