

# Using Bioinformatics to Investigate Evolutionary Relationships; Have a BLAST!

Follow this following steps: <https://www.youtube.com/watch?v=6u38gk0gq08>

1. First, watch Rosemary's video about BLAST and answer the questions below:

a. Challenge: Example 1: Protein Consensus. Write down the name of subject that consensus evolved.

Did you get the correct answer? **C10C01C04C01C01**

b. Challenge: Example 2: DNA Sequences. Write down the name of subject that consensus evolved.

Did you get the name of the species? **Ford, puma, puma puma**

c. The puma is similar to what?

**Elk, deer and coyotes are related to it. It is the most related organism.**

d. What did Rosemary informally get to see that indicates, BLAST? **How the C&G is specific protein**

e. The consensus subject, BLAST, the subject what BLAST?

**The consensus subject showed the difference and part of the BLAST, and the BLAST subject C&G sequence**

f. This compares DNA sequences and brought back **111** hits

g. Challenge: How did Parulidae species show up in **Challenge**

h. What does BLAST stand for? **Basic Local Alignment Search Tool**

# Blast Lab Ap Bio Lab Manual

**L Cohen**



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