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## Lab - Biochemical Evidence of Evolution

**Objectives:** To examine amino acid sequences from different species and, using this information, determine the evolutionary relationships that may exist between them.

**Background:** The biochemical comparison of proteins is a technique used to determine evolutionary relationships among groups of organisms. Proteins are composed of specific sequences of amino acids, and this sequence determines the shape and nature of the protein. This sequence is determined by the sequence of nucleotide bases in the DNA molecule. Any mutation or change in the DNA sequence may cause a change in the amino acid sequence and therefore a change in the protein. The more amino acids two organisms have in common, the greater the chance that they are closely related by evolution and may have a more recent common ancestor. Conversely, the greater the time organisms have been diverging from a common ancestor, the greater the differences in their amino acid sequences which can change their proteins.

Two proteins are commonly studied in attempting to deduce evolutionary relationships from differences in amino acid sequences. One is **cytochrome c**, which is a protein used in cellular respiration, and the other is **hemoglobin**, which is the oxygen-carrying molecule found in red blood cells.

### Procedure:

#### Part I. Cytochrome c

The cytochrome c molecule consists of a chain of 104 amino acids. Table 1 shows the same amino acid sequences of the cytochrome c molecules of nine vertebrates. The numbers along the side of the chart refer to the position of these amino acids in the chain. Each letter is an abbreviation for a specific amino acid in the chain.

1. Compare the amino acid sequence of human cytochrome c with that of the other 8 vertebrates. Circle each amino acid that differs from the human amino acid. Record the number of differences in the amino acid sequences in the space at the bottom of each column.
2. In Table 2, list the vertebrates in order from the *fewest* differences to the *most* differences.
  - a. Frog and turtle cytochrome c molecules have the same number of differences from human cytochrome c. Which vertebrate (frog or turtle) will you put higher (more closely related to humans) on the list? (Hint - think about how each organism gets its oxygen from its environment).
3. **AFTER** you have completed Table 2, answer the 3 questions below.

1. According to the evidence, which organism is most closely related to humans? \_\_\_\_\_

2. Which organism is least closely related to humans? \_\_\_\_\_

3. Fully explain why you put Frog or Turtle as more closely related to humans.

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# Biochemical Evidence For Evolution Lab 41 Answers

**Chao Zhang**



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