

# Evidence of Evolution Lab (Lab 38)

## Background

Much evidence has been found to indicate that living things have evolved or changed gradually during their natural history. The study of fossils as well as work in embryology, biochemistry and comparative anatomy provides evidence for evolution

## Objective

In this lab you will learn about homologous, analogous and vestigial structures and their significance in evolution theory. You will also compare amino acids sequencing of humans to other vertebrates.

## Materials

Colored pencils

## Procedures and Observations

### Part I. HOMOLOGOUS STRUCTURES

1. Carefully examine the drawings of the bones shown in Figures 1 on the next page. Look for similarities among the various animals.
  - a. Color each part of the human arm a different color. (All bones of the wrist should be a single color, the bone groups of the hand should be a different single color.) Then color the corresponding bone in each of the other animals the same color as the human bone.
  - b. Describe the function of each set of bones below:

**Table 1**

Animal	Function
human	
whale	
cat	
bat	
bird	
crocodile	

- c. Are the bones arranged in a similar way in each animal?

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These structures are formed in similar ways during embryonic development and share like arrangements; however, they have somewhat different forms and functions. They are called *homologous structures*.

# Evidence Of Evolution Lab 38

**Hongru Du**



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