

## Lab 20 – Using Microinformatics to Investigate Evolutionary Relationships: More a BLAST!

### Introduction:

**Genome-wide** (or **whole**) **genomics** studies entire informational molecules (e.g. genomes) of the **Human Genome Project**, some also including and analyzing **20,000** or **24,000** genes that define a human being. This project also systematically mapped the genomes of other species, including the fruit fly (*Drosophila*) and *Neurospora*. The project also includes sequencing of the genomes of other organisms (e.g. plants and bacteria) and studying the genome of other species.

Why is this information important? Being able to identify the precise location and sequence of human genes and other genes (e.g. human and mouse) can help identify genes that are important for human health. It can also help identify genes that are important for human health. In addition, knowing about the sequence of genes in other species helps us understand evolutionary relationships among organisms. Many of our genes are identical or similar to those found in other species.

Human and other species genes that are identical or very similar are called **orthologs**. How do we know genes are orthologs? There is a lot of information about it. It is called **gene family** or **gene cluster** through the whole genome project. It is called **gene family** or **gene cluster** through the whole genome project. It is called **gene family** or **gene cluster** through the whole genome project. It is called **gene family** or **gene cluster** through the whole genome project.

**Microinformatics** is a field that combines statistics, mathematical modeling, and computer-aided analysis of genomic data. Using microinformatics methods, entire genomes can be quickly compared to identify genes that are similar and different. The microinformatics method is **BLAST**, which stands for **Basic Local Alignment Search Tool**. Using **BLAST**, you can input a gene sequence and find other genes that are similar to it. This is called **sequence alignment** or **sequence comparison**.

In this investigation, you will use **BLAST** to compare sequences and identify genes that are similar and different. This is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**.

Note that the sequence is identical with the sequence of the gene. This is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**. It is called **sequence alignment** or **sequence comparison**.



Figure 1. A simple phylogenetic tree of the five species shown.

## Lab 21 Blast Answers

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