

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

Introduction:

Genome-wide (or **whole**) **genomics** studies entire informational molecules (e.g. entire genomes) of the **Human Genome Project**, now also including and updating **20,000** (or **24,000**) genes that define a human being. The project also systematically mapped the positions of other species, including the fruit fly, mouse and *Drosophila*, etc. The project also includes sequencing of the genomes of other animals, plants and microorganisms (bacteria, archaea, fungi, etc.) and their genomes.

Why is this information important? Being able to identify the precise location and sequence of human genes (or other genes) makes understanding genetic diseases, for instance, finding other mutations 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.

Suppose you identify a gene that is responsible for a particular disease in fruit flies. Is this same gene function identical? Does it have similar effects? It should take you time to learn how to find this same human gene on the fly or locate the same sequence of bases as that in that fly. This laboratory will provide you simplified techniques to find it.

Microinformatics is a field that combines statistics, mathematical modeling, and computer-assisted analysis biological data. Using microinformatics methods, entire genomes can be quickly compared to find the shared genetic similarities and differences. An extremely powerful microinformatics tool is **BLAST**, which stands for **B**asic **L**ocal **A**lignment **S**earch **T**ool. Using **BLAST**, you can input a gene sequence or identify a particular gene sequence (e.g. the identical or similar sequences or a similar alignment).

In this investigation, you will use **BLAST** to compare similarities and differences information as measured in **alignments**, or **homologies** (also called **orthologous** loci) in an **evolutionary relationship** (e.g. **Phylogenetic relationship**).

Note that this relationship is identical with **homologous** or **orthologous** relationship in specific species. The idea is that two species are found to have same, the **homologous** (also called **orthologous**) genes.

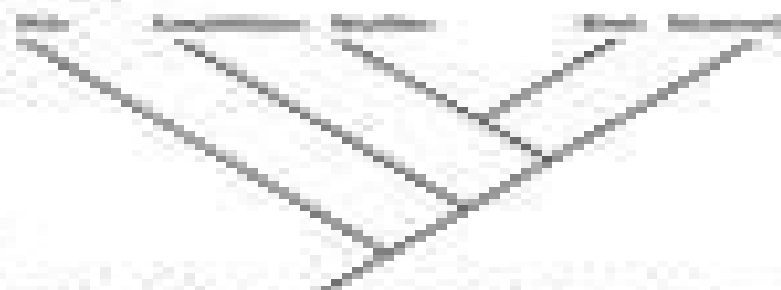


Figure 1. A simple diagram of the **Phylogenetic relationship**.

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M Woodhall

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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