

Lab I - Sequence Analysis

In this lab you will receive your mitochondrial DNA sequence, which was sequenced off site after the PCR amplification. You will compare it to many other sequences, an analysis that will allow you to determine your probable egg-parental lineage based on human migration patterns. You will annotate your sequence.

Concepts:

- Understand dideoxy sequencing method
- Understand human migration patterns and haplogroups
- Interpret data obtained from BLAST
- Interpret a phylogenetic tree

Skills:

- Use Chromas to clean up a DNA sequence
- Use BLAST to search for a haplogroup
- Annotate a sequence