

LAB #4 - Human Genetics: Pedigrees, Karyotypes, & Genetic Diseases

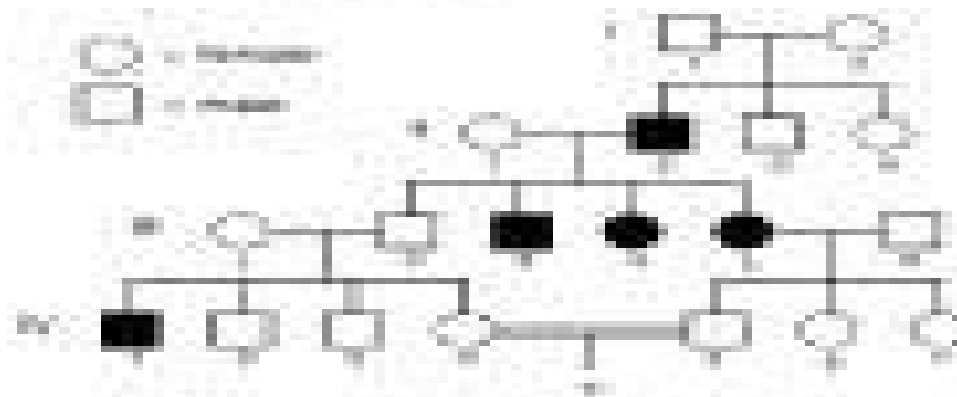
Goals:

1. Students will analyze karyotypes/pedigrees.
2. Students will create a pedigree based on family history.
3. Students will analyze human karyotypes for chromosomal conditions.
4. Students will understand the principles behind genetic counseling.

Human Genetics Introduction

Since the 1950s, geneticists through careful study human chromosomes are collected the chromosomes, collecting family data (pedigrees) and analysis of these principles. Pedigrees, human karyotype and some human genetic tests within karyotype, chromosome mapping. Since the inception of the Human Genome Project in 1990, scientists around, more the complete mapping of the human genome in 2003, thousands of human genetic and the human proteins associated with human inheritance has taken off and very rapid pace chromosome has developed as chromosomes in the future.

Pedigree analysis is often used to study an inheritance disease is familial form. This type of analysis is looking any inheritance trait and can often help scientists diagnosed and inheritance that the trait follows. However is shown all of the phenotype that an individual has and its descendants. The example of pedigree below.



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