

Human Genetics Lab

Exploring Human Genetics

In this lab, you will explore how simple Mendelian genetics can be observed in human populations by surveying easily identifiable phenotypes. These traits are often controlled by a single gene with dominant and recessive alleles, making them ideal for studying inheritance patterns. By collecting data from classmates, friends, or family members, you will observe frequencies of these phenotypes in the wild, not under controlled conditions like Mendel did with his pea plants.

Experimental Design

Review the underlined sections in your lab.

Independent Variable: Formed two traits.

Trait	Description/Phenotype	Traditional Inheritance Pattern
Winged Knees	Bumping when exposed to bright light	Dominant
Thumb Rolling	Ability to roll the thumb into a "U" shape	Dominant
Melancholic Face	Yellowed gaze in the face	Dominant
Clasp	Interlocking of the thumb when smiling	Dominant
Right Handiness	Right vs. left hand usage	Dominant
Mid-right ear	How on the middle finger	Dominant
Melancholic Thumb	Thumb can bend backwards at a large angle	Recessive
Melancholic Knees	Knees connected directly to the foot	Recessive

Dependent Variable: Survey results.

Null Hypothesis: State your null hypothesis. It should explain your expected results. For the null hypothesis in this scenario, an example of what you might see is, "There is no difference between the dominant (genotype) test, and the recessive (genotype) test."

Procedure

1. Assign your traits to trials, record it above your data table. (Example 2 for two variables, a for different variables)
2. Set up your data table to include every possible combination of the 2 traits.
3. Survey at least 50 random people (friends, classmates, teachers, family members) and record

Collect data and complete
chi square analysis



Human Genetics Lab Answers

Mark Steyvers



Human Genetics Lab Answers:

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