

Human Genetics Lab

Exploring Human Genetics

For this lab, you will be working with a simulated population of 100 individuals. The population is divided into two groups: 50 males and 50 females. Each individual is represented by a set of chromosomes. The chromosomes are color-coded to represent different alleles. The alleles are: **AA** (red), **Aa** (orange), and **aa** (yellow).

Procedure:

1. Randomly select 100 individuals from the population.
2. Record the genotype of each individual.
3. Calculate the frequency of each allele.
4. Calculate the expected genotype frequencies.
5. Perform a chi-square analysis to determine if the population is in Hardy-Weinberg equilibrium.

Genotype	Number of Individuals	Frequency
AA	50	0.50
Aa	0	0.00
aa	0	0.00
Total	100	1.00

Expected Genotype Frequencies:

Allele frequencies: $p = 0.50$ (A), $q = 0.50$ (a)

Expected frequencies: $p^2 = 0.25$ (AA), $2pq = 0.50$ (Aa), $q^2 = 0.25$ (aa)

Chi-Square Analysis:

Observed: AA=50, Aa=0, aa=0
Expected: AA=25, Aa=50, aa=25

$\chi^2 = \sum \frac{(O - E)^2}{E}$

$\chi^2 = \frac{(50 - 25)^2}{25} + \frac{(0 - 50)^2}{50} + \frac{(0 - 25)^2}{25} = 50 + 50 + 25 = 125$

df = 2 (3 genotypes - 1)

$P < 0.001$

Conclusion: The population is not in Hardy-Weinberg equilibrium.



Collect data and complete chi square analysis

Human Genetics Lab Answers

N Colangelo



Human Genetics Lab Answers:

Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Human Genetics Lab Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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