

Assignment 8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Above is an allozyme gel showing 1 locus with two alleles sampled from 20 individuals in a population.

Please do a complete Hardy-Weinberg analysis.

1. Calculate the genotype numbers
2. Calculate the genotype frequencies
3. Calculate the allele frequencies
4. Calculate the expected genotypic frequencies based on p and q calculated in step 3
5. Calculate the expected genotype numbers
6. Use X^2 to determine whether the genotype numbers that you observe are **significantly different** than the genotype numbers you have estimated.
7. If there is a significant deviation, what could be a potential cause?

X^2 p-value calculator can be found at:
<http://www.danielsoper.com/statcalc/calc11.aspx>

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