



Hardy-Weinberg Equilibrium

p = the frequency of the dominant allele

q = the frequency of the recessive allele

For a population in genetic equilibrium:

- $p + q = 1.0$ (The sum of the frequencies of both alleles is 100%)
- $(p + q)^2 = 1$, so $p^2 + 2pq + q^2 = 1$
- The three terms of this binomial expansion indicate the

frequencies of the three genotypes: p^2 = frequency of homozygous dominant, $2pq$ = frequency of heterozygous, and q^2 = frequency of homozygous recessive.

TA Expectations:

- Give a review of Hardy-Weinberg and how we can use that in a bi-allelic scenario to determine allele frequency in a random mating population. The TAs should probably work through an example in lab.
- Review the phenotypes of the mutants involved and the possible epistatic interactions that were observed from Lab 3 and how those interactions need to be dealt with when determining allele frequency.

Materials & Supplies:

- There are ~130 ears that are part of a "large breeding population" of maize, which has been "randomly mated". Each lab section will have ~12 ears that need to be phenotyped. Each ear will be segregating for up to 4 kernel traits and 2 maternal traits. It is important to note that not all ears will be segregating for the same kernel traits.
 - The genotype of the original cross was: ($R1/r1$ $C1/c1$ $Su1/Su1$ $Pr1/pr1$ $Y1/y1$) $\times$ ($r1/r1$ $c1/c1$ $Pr1/Pr1$ $su1/su1$ $Y1/Y1$). In other words, there are 5 genes segregating in this population that control the 4 kernel characteristics.
 - The following recessive genotypes and their corresponding phenotypes are segregating in the population: white ($p1/p1$) vs. red cob ($P1/-$), sugary kernel ($su1/su1$) vs. normal ($Su1/-$), colored ($C1$) vs. colorless ($c1$) kernels, blue ($Pr1/-$) vs. red kernels ($pr1/pr1$), yellow ($Y1/-$) vs. white endosperm ($y1/y1$).
 - Note that all loci are unlinked.
 - Starting allele frequency of population should be $q=0.5$ for $su1$, $q=0.25$ for $pr1$ & $y1$, and $q=0.75$ for $c1$ & $r1$.

Hardy Weinberg Equilibrium Study Guide

Puja Mehta



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