



## 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) x (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

**Tim Rushing**



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web nov 18 2004 gr 7 10 kathe koja s novel farrar 2003 looks at bullying through the eyes of justin a high school sophomore who is intrigued by jinsen a new boy who shaves his head and begs for his lunch like a monk

buddha boy kathe koja google books - Feb 09 2023

web kathe koja perfection learning corporation 2004 117 pages condemned as a freak at his high school jinsen called buddha boy by his classmates is paired with justin for a class project while justin discovers jinsen s artistic side he is forced into a cruel contest with the jocks who won t leave jinsen alone

*buddha boy summary supersummary* - Jan 08 2023

web buddha boy is a 2003 young adult novel by american writer kathe koja koja first made her mark as a writer of speculative fiction for adults but as well as branching out into young adult fiction has found success with historical novels such as her under the poppy trilogy and a fictional biography of christopher marlowe

**buddha boy by kathe koja publishers weekly** - Aug 03 2022

web buddha boy kathe koja read by the author and a full cast full cast audio 17 95 0pp isbn 978 1 932076 51 6 the social landmine that is high school serves as backdrop for this thought

*buddha boy by kathe koja publishers weekly* - Dec 27 2021

web kathe koja penguin speak 5 99 117pp isbn 978 0 14 240209 2 narrated by a high school sophomore this novel explores the tenets of buddhism via an unlikely friendship between two classmates



*buddha boy kathe koja google books* - Nov 06 2022

web the kids at school call jinsen buddha boy he wears oversize tie dyed dragon t shirts shaves his head and always seems to be smiling he s clearly a freak then justin is paired with him for a class project as he gets to know jinsen and his incredible artistic talent justin questions his own beliefs

*kathe koja wikipedia* - Mar 30 2022

web koja is also the 2004 recipient of the international reading association s children s book award and the society of midland authors children s fiction award for her novel buddha boy citation needed koja s first novel in 2002

**buddha boy by kathe koja goodreads** - Jul 14 2023

web buddha boy by kathe koja goodreads author 3 56 rating details 1 187 ratings 189 reviews the kids at school call jinsen buddha boy he wears oversize tie dyed dragon t shirts shaves his head and always seems to be smiling he s clearly a freak then justin is paired with him for a class project

**buddha boy quotes by kathe koja goodreads** - Feb 26 2022

web buddha boy quotes by kathe koja 2 quotes from buddha boy do you know the concept of karma it s kind of like a circle or cause and effect like a slow tolling bell you rang maybe a y 2 quotes from buddha boy do you know the concept of karma it s kind of like a circle or cause and effect like a slow tolling bell you rang maybe a y