

THE HARDY-WEINBERG PRINCIPLE

The frequencies of different alleles and genotypes within a population will remain constant through time, as long as there are no evolutionary influences present.

This means:

- the population is very large
- there are no new mutations
- there is no migration
- there is no natural selection
- there is no sexual selection (mating is random)

THE HARDY-WEINBERG EQUATIONS

p = frequency of allele A in population

q = frequency of allele a in population

If there are only 2 alleles for a gene then:

$$p + q = 1$$

Allele frequencies can be used to determine genotype frequencies too!

$$p^2 + 2pq + q^2 = 1$$

EXAMPLE: If there are 200 M alleles in the gene pool and 800 m alleles, then

$$\underset{\text{M}}{0.2} + \underset{\text{m}}{0.8} = 1$$

and

$$\underset{\text{MM}}{(0.2)^2} + 2(\underset{\text{Mm}}{0.2 \times 0.8}) + \underset{\text{mm}}{(0.8)^2} = 1$$

0.04

0.32

0.64

The Hardy-Weinberg equilibrium is never achieved in nature, but it's very useful in studying populations.

Hardy Weinberg Equation Cheat Sheet

RJ Alexander

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Hardy Weinberg Equation Cheat Sheet:

Unveiling the Magic of Words: A Report on "**Hardy Weinberg Equation Cheat Sheet**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Hardy Weinberg Equation Cheat Sheet**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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