

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

Wenbin Ji

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.

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