

Populations and evolution

Population genetics

A **population** is a group of organisms of the same species occupying a particular space at a particular time that can potentially interbreed. The total number of alleles that are present in a population is known as the **gene pool** whilst the **allelic frequency** expresses as a decimal or percentage the proportion of a certain allele in a gene pool.

The **Hardy-Weinberg Equation** can be used to **estimate the frequency of alleles in a population** and to see whether a change in allele frequency is occurring in a population over time. In order to do this the following points are assumed:

- **no mutations** occur to create new alleles.
- there is **no movement of alleles** into or out of the population by migration.
- the **population is large**.
- there is **no selection**, so every allele has an equal chance of being passed to the next generation.
- **mating is random**.

The formulae for the Hardy-Weinberg principle are shown below:

$$p + q = 1.0 \text{ AND } p^2 + 2pq + q^2 = 1$$

Where:

p = the frequency of the dominant allele (represented by A)

q = the frequency of the recessive allele (represented by a)

p² = frequency of AA (homozygous dominant)

2pq = frequency of Aa (heterozygous)

q² = frequency of aa (homozygous recessive)

We can now use these equations to determine the probability of any allele in a population. For example, suppose that a particular characteristic is the result of the recessive allele **a**, and we know that one person in 25 000 displays the character.

- The character, being recessive, will only be observed in individuals who have two recessive alleles **aa**.
- The probability of **aa** must be $\frac{1}{25\,000}$ or 0.00004.
- The probability of **aa** is q^2 .
- If $q^2 = 0.00004$, then $q = \sqrt{0.00004}$ or 0.0063 approximately.
- We know that the probability of both alleles **A** and **a** is $p + q$ and is equal to 1.0.
- If $p + q = 1.0$, and $q = 0.0063$ then:
- $p = 1.0 - 0.0063 = 0.9937$, that is, the probability of allele **A** = 0.9937.
- We can now calculate the probability of heterozygous individuals (and therefore the probability of genotypes and phenotypes) in the population.
- From the Hardy-Weinberg equation we know that the probability of the heterozygotes is $2pq$.

Variation in phenotype

- In this case, $2pq = (2 \times 0.9937 \times 0.0063) = 0.0125$.
- Heterozygous individuals act as a reservoir of recessive alleles in the population, although they themselves do not express the allele in their phenotype.

Biology Section 1 Populations Answers

Daniel M. Weinreich



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Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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