

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

CH Cherryholmes



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Population Biology Alan Hastings, 2013-03-14 Population biology has been investigated quantitatively for many decades resulting in a rich body of scientific literature Ecologists often avoid this literature put off by its apparently formidable mathematics This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations The author only assumes acquaintance with elementary calculus and provides tutorial explanations where needed to develop mathematical concepts Examples problems extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology The book will also be useful as a supplement to introductory courses in ecology

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