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-Weinburg principle are shown below:

$$p + q = 1.0 \text{ AND } p2 + 2pq + q2 = 1$$

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)We can now use these equations to determine the probability of q2 = frequency of aa (homozygous receipting) the 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 \(\frac{1}{25000}\) or 0.00004.
- The probability of aa is q².
- 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 beterozygous 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.

- In this case, 2pq = (2 × 0.9937 × 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.

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Holt Rinehart & Winston, Holt, Rinehart and Winston Staff

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