

When Darwin proposed the theory of evolution by natural selection, scientists did not know about genes and DNA; he was just trying to explain the appearance and frequency of outward traits. We now know this phenomenon is the result of alleles, and we know how dominant genes and recessive genes control outward traits.

The Hardy-Weinberg Principle

The Hardy-Weinberg principle states that the frequency of genes stays constant in a population unless some mechanism of change occurs. Without forces of change, evolution doesn't occur and a population is at genetic equilibrium.



In a population of 100 sweet pea plants,

- 45 are homozygous dominant (TT),
- 35 are heterozygous (Tt), and
- 20 are homozygous recessive (tt).

So, this population has $(45 \times 2) + 35 = 125$ dominant alleles and $(20 \times 2) + 35 = 75$ recessive alleles.

The frequency of the dominant allele, T, is given by $p = \frac{125}{200} = 0.625$.

The frequency of the recessive allele, t, is given by $q = \frac{75}{200} = 0.375$.

The frequency of the homozygous dominant genotype, TT, is given by $p^2 = 0.625^2 = \frac{1}{4}$.

The frequency of the heterozygous genotype, Tt, is given by $2pq = 2(0.625)(0.375) = \frac{1}{2}$.

The frequency of the homozygous recessive genotype, tt, is given by $q^2 = 0.375^2 = \frac{1}{16}$.



The Hardy-Weinberg Equilibrium Equation

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

p = frequency of ☒ dominant ☐ recessive allele in a population

→ p^2 = equilibrium frequency of homozygous ☒ dominant ☐ recessive genotype

q = frequency of ☐ dominant ☒ recessive allele in a population

→ q^2 = equilibrium frequency of homozygous ☐ dominant ☒ recessive genotype

→ $2pq$ = equilibrium frequency of heterozygous genotype

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