

Chapter 23 - Evolution of Populations

Genetic Variation:

Genetic Variation: differences among individuals in genes/DNA sequences

- Can be quantified as average percentage of loci that are heterogeneous
- Can be measured at molecular level with nucleotides-little phenotype variation because of introns and exons

Formation of New Alleles:

- Mutations occur-point mutations
- Natural selection removes harmful alleles
- Harmful alleles can be recessive in diploid

Harmful Protection: dominant allele masks harmful recessive allele

Neutral Variation: difference in DNA sequence in introns

Non-heritable Variation: varied traits that aren't heritable

Rapid Reproduction: prokaryotes reproduce quickly-more genetic variation-less mutations

Sexual Reproduction: different mechanisms causing variation-crossing over, independent assortment, fertilization

Sexual Selection:

- Intrasexual: male and male combat
- Intersexual: female chooses male

Hardy-Weinberg Equation:

Population:

- Group of individuals, same species, same area and interbreed
- Different populations of species may be geographically isolated exchanging genetic material rarely
- INDIVIDUALS DO NOT EVOLVE, POPULATIONS EVOLVE

Gene Pool: populations genetic makeup, copies of every type of allele at every locus in all members of population

- If only one allele exists-allele is fixed in gene pool

Hardy-Weinberg Equation:

Test to assess whether natural selection/factors cause evolution at particular locus

Compare scenario with data observed-no differences=not evolving

Equation for allele frequency: $p + q = 1$

- P = frequency of dominant allele (A)
- Q = frequency of recessive allele (a)

Equation for genotype frequency: $p^2 + 2pq + q^2 = 1$

- P^2 = frequency of homozygous dominant
- $2pq$ = frequency of heterozygous
- Q^2 = frequency of homozygous recessive

Chapter 23 The Evolution Of Populations Study Guide Answers

Martha R. Taylor



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