

13.1 Genetic Variation within Populations

A population change a consistent gene pool.

Genetic variation in a population increases if the chance that some individuals will survive.

- Genetic variation leads to phenotypic variation.
- Phenotypic variation is necessary for natural selection.
- Genetic variation is shared in a population's gene pool.
 - made up of all alleles in a population
 - allele combinations form when organisms form offspring
- Allele frequencies remain in genetic variation.
 - measure the frequency of alleles in a population
 - can be calculated but don't affect the gene pool
- Mutations in a random change in DNA of a gene.
 - can form new alleles
 - can be passed on by offspring if the organism can
 - molecular level: base pair, amino acid, substitution, all alleles
 - usually occurs during division
 - genetic alleles can be passed to other individuals
 - Genetic variation comes from several sources.
 - Hybridization by the crossing of two different species.
 - sexual partner individuals can't breed together and create offspring
 - high cell survival rate of the population



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