

11.1 GENETIC VARIATION WITHIN POPULATIONS

KEY CONCEPT A population shares a common gene pool.

In most populations, individuals have different characteristics, or traits. A phenotype is a trait produced by one or more genes, and a single population may have a range of phenotypes for any given trait. In order for natural selection to occur, a population must have different phenotypes to be selected for or against. In this way, a variety of phenotypes makes it more likely that certain individuals will survive different environmental pressures.

In order for a population to have a variety of phenotypes, it must have genetic variation. Genetic variation comes in the form of different alleles for any given gene. A population's **gene pool** is the combined alleles of all the individuals in a population.

Biologists measure the genetic diversity of a population by calculating the frequencies, or rates, of each allele in the gene pool. An **allele frequency** is therefore a measure of how common a certain allele is in the gene pool.

Genetic variation comes from two main sources:

- **Mutations** are random changes in DNA. Some mutations cause a new allele to form. If a mutation occurs in a reproductive cell, it can be passed on to offspring.
- **Recombination** is a process by which new allele combinations can form in offspring. Most recombination occurs during meiosis, when the alleles in each parent's genome are arranged in new ways.

Some biologists are studying hybridization as another source of genetic variation. Hybridization occurs when individuals of two related but different species mate.

1. What makes up a population's gene pool?
2. How is genetic variation measured in a population?
3. Describe how mutation and recombination provide genetic variation in populations.
4. Why must a population have genetic variation in order for natural selection to occur?

Genetic Variation Within Population Study Guide Answers

Yi-Tong Ma



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web nov 16 2022 anzeichen der verliebtheit ob du auf die liebe beim ersten blick glaubst oder nicht es kann nicht bestritten werden dass es sie tatsächlich gibt das prickelnde gefühl wenn du jemanden zum ersten mal siehst die schmetterlinge in deinem bauch sind keine illusionen

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web mar 22 2021 diese verhaltensweisen sprechen für liebe auf den ersten blick beim mann und bei der frau anzeichen für liebe auf den ersten blick merkwürdiges sprunghaftes verhalten nur auf das objekt seiner liebe fixiert cocktailrausch aus hormonen der die sinne vernebelt immerwährender zustand des glücks durch viel

10 absolut verträumte zeichen der liebe auf den ersten blick - Aug 24 2022

web sep 21 2020 diese symptome der liebe auf den ersten blick sind kaum zu übersehen 1 ihr magen fällt um wenn sie jemanden erblicken und es ist liebe auf den ersten blick wird ihr adrenalin sofort durch ihre adern zu pumpen beginnen wenn adrenalin freigesetzt wird ist das gefühl von schmetterlingen in der magengrube die folge

gibt es liebe auf den ersten blick wirklich das sagt die - Jun 02 2023

web jul 28 2023 gibt es liebe auf den ersten blick wirklich das sagt die wissenschaft laut forschung gibt es liebe auf den ersten blick wirklich das sagt die wissenschaft 28 07 2023 14 12 uhr 6 min lesezeit anzeige man stelle sich zwei menschen

vor die sich noch nie vorher begegnet sind

liebe auf den ersten blick wiktionary - Oct 06 2023

web lie be auf den ers ten blick aussprache ipa 'li:bə aʊ f de:n 'e:ɐ stn blik hörbeispiele liebe auf den ersten blick

bedeutungen 1 das sich verlieben zumeist in einen anderen menschen beim ersten ansehen beispiele 1 als meine frau und ich uns das erste mal sahen war es liebe auf den ersten blick

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liebe auf den 1 blick das steckt hinter eurer ersten anziehung - Mar 31 2023

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liebe auf den 1 blick so wahrscheinlich ist sie heute at - May 21 2022

web sep 21 2023 der renommierten cleveland clinic zufolge glauben etwa 60 prozent der menschen an liebe auf den ersten blick die psychologin susan albers meint dass liebe auf den ersten blick zwar ein