

13.1 Genetic Variation within Populations

A population change is sometimes 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 in reproductive cells
 - molecular level: base, sugar, phosphate, all affected
 - usually occurs during division
 - genetic alleles can result in new types of proteins
 - Genetic variation comes from several sources.
 - Hybridization by the crossing of two different species.
 - sexual partner's chromosomes don't blend together and cross-over
 - high cell survival rate of the parents



Genetic Variation Within Populations Study Guide Answers

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Genetic Variation Within Populations Study Guide Answers:

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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Study Guide for Genetics, Third Edition, Daniel L. Hartl Rowland H. Davis, Stephen J. Weller, John P. Carulli, 1994

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Study Guide George Karleskint, 1991

Inquiry Into Life, Study Guide Sylvia S. Mader, 1982

Student Study Guide to Accompany Botany, Second Edition, Moore, Clark, Vodopich Rebecca McBride DiLiddo, Randy Moore, 1998

Study Guide to Accompany Biology, the Science of Life, Third Edition W. J. Leverich, 1991

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