

- By chance, some alleles may be overrepresented and others underrepresented among the survivors. Some alleles may be eliminated altogether.

Genetic drift continues to change the gene pool until the population is large enough to eliminate the effect of chance fluctuations.

The bottleneck effect is an important concept in conservation biology of endangered species

16. This summer fires were raging in the western United States (California, Oregon, Washington). The burned areas in Washington are now experiencing large amounts of rain and the burned areas are having major mud slides. In one region, a mudslide has wipe out 80% of a population of purple pansies (plant). The surviving purple pansies in the population have fewer flowers than the original population. Number of flowers is controlled by a specific gene.

- What is most likely the cause of the change in the population.

Genetic drift due to a bottleneck

- Explain your reasoning.

The population experienced a dramatic decrease in numbers due to flooding and mudslides. No particular genotype had a higher survival rate due to inherited traits. Individuals with the gene for less flower became more frequent in the population by random chance.

17. There are four key points about genetic drift. List them below

- Genetic drift is significant in small populations.
- Genetic drift causes allele frequencies to change at random.
- Genetic drift leads to a loss of genetic variation within populations
- Genetic drift can cause harmful alleles to become fixed.

18. Explain the mechanism of Gene flow.

Gene flow is the transfer of alleles among populations due to the migration of fertile individuals or gametes.

Gene flow tends to reduce differences between populations.

- If extensive enough, gene flow can combine neighboring populations into a single population with a common gene pool.
 - Gene flow is an increasingly important agent of evolutionary change in human populations.
 - With increased human mobility, mating is more common between previously isolated populations, leading to an exchange of alleles and reducing genetic differences between human populations.
- If a nearby wildflower population consisted entirely of white flowers, its pollen (C^W alleles only) could be carried into another hypothetical wildflower population.
 - What would be the result of this gene flow between the two populations?
 - The result would be an increase the frequency of C^W alleles in the hypothetical population in the next generation.

19. Examine the scenario below.

Small island A contains three separate populations of a single species of cherry tree. The seed size varies between trees.

That is, some trees produce seeds that are all in the small size ranges, others produce seeds all in the middle size ranges, and others produce seeds in the large size ranges. A small population of mice is introduced to the island. The mice eat cherries and are the only predators on the cherry trees. When the mice eat a cherry, they completely digest it and the pit or seed inside it. The mice choose medium and large seeds and leave the smallest seeds uneaten.

For each scenario:

- Decide whether or not natural selection is operating. In doing this, indicate whether there is variability in the population(s).

If no, what does this imply about evolution?

If yes, what is the nature of the variation? For example, what characteristics must the variation have for selection to operate on it?

Natural selection is operating. Mice are selective choosing medium and large seeds based on some trait.

- Is there any indication that members of the population(s) differ in fitness?

If no, what does this imply about the operation of natural selection? If yes, describe the difference in fitness.

Cherry trees differ in fitness based on the size of the cherry seed. Medium and large seeds are selected against and small seeds are less likely to be eaten. Trees that produce cherries with smaller seeds are going to leave behind more offspring than trees who's seeds are larger and leave less offspring.

Biology Populations Study Guide Answer Key

**Eldon D.. Enger,Enger,Frederick C..
Ross**



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