

GENE MUTATIONS AND TRAITS

35+ QUESTIONS

**GRADE
7**

- 4. How can mutations affect proteins?
 - a. They create different proteins.
 - b. They can change how proteins work.
 - c. They never affect proteins.
 - d. They make proteins larger.
- 5. What might a mutation in a pigment gene cause?
 - a. Change in flower color.
 - b. Change in flower size.
 - c. Change in leaf shape.
 - d. Change in root length.
- 6. What can be the effect of a mutation in an organism?
 - a. Only harmful effects.
 - b. Only beneficial effects.
 - c. Harmful, beneficial, or neutral effects.
 - d. No effects at all.
- 7. What is the purpose of using models in genetics?
 - a. To model actual systems.
 - b. To understand how genes change affect cells.
 - c. To make models from DNA.
 - d. To make them impervious to change.
- 8. Which part of the cell contains chromosomes?
 - a. Nucleus
 - b. Cytoplasm
 - c. Mitochondria
 - d. Cell membrane
- 9. How many alleles does one gene usually have?
 - a. One specific protein.
 - b. Many chromosomes.
 - c. Only chromosomes.
 - d. One allele.
- 10. Why might some mutations have no visible effect on a trait?
 - a. Most genes are mutation only, changing non-coding DNA.
 - b. Mutations produce never change.
 - c. Mutations are only determined by the environment.
 - d. Mutations are determined by the environment.

Name: _____

Gene Mutations and Traits

Genes are instructions found on chromosomes made of DNA. These instructions tell cells how to make proteins. Proteins are important molecules that help determine an organism's traits, such as hair color, height, or the ability to digest certain foods. Each gene codes for a specific protein, and the sequence of DNA in a gene decides how that protein is made.

Sometimes, changes can happen in the DNA sequence of a gene. These changes are called mutations. Mutations can alter the protein that the gene codes for. Some mutations may cause the protein to work differently, or not work at all. This change in the protein can affect the traits of the organism, sometimes causing harmful effects, sometimes beneficial effects, or sometimes no noticeable effect at all.

For example, a mutation in a gene that controls pigment production in flowers might change the color of the petals. If the protein changes so that it produces a different pigment, the flower's color changes. This is a visible trait change caused by a mutation. Scientists use models to help understand how changes in genes lead to changes in proteins and traits. These models can show how a mutation in DNA leads to a different protein and then to a change in a trait that can be observed.

85. Mark the best answer for each question.

81. About six genes primarily control coat color in dogs.

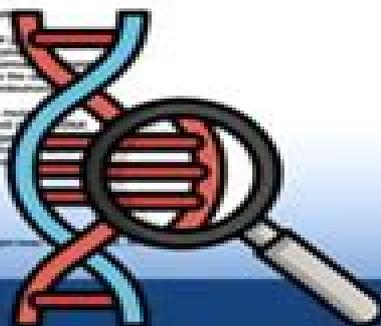
- a. Chromosomes
- b. Proteins
- c. Cells
- d. DNA

82. Genes are

- a. in the nucleus.
- b. in the cytoplasm.
- c. in the mitochondria.
- d. in the membrane.

83. What is a trait?

- a. A protein
- b. A change
- c. The result of a mutation
- d. An allele



84. What is the effect of a mutation in a gene?

- a. It always changes the protein produced.
- b. It always causes a change in an organism's trait.
- c. It never has an effect on a cell.
- d. It sometimes has no effect.

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- b. A change
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87. What is a mutation?

- a. A change in the DNA sequence
- b. A change in the protein produced
- c. A change in the trait
- d. A change in the cell

88. What is the effect of a mutation in a gene?

- a. It always changes the protein produced.
- b. It always causes a change in an organism's trait.
- c. It never has an effect on a cell.
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89. What is the purpose of using models in genetics?

- a. To model actual systems
- b. To understand how genes change affect cells
- c. To make models from DNA
- d. To make them impervious to change

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