

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 leaf color.
- 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 impossible larger.
- 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 code for?
 - a. One specific protein.
 - b. Many chromosomes.
 - c. Only chromosomes.
 - d. One allele.
- 10. Why might some mutations have no visible effect on bodies?
 - a. Mutations can be neutral only, changing non-coding DNA.
 - b. Mutations produce neutral change.
 - c. Mutations are only determined by the environment.
 - d. Mutations chromosomes repeat chromosomes history.

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 cells 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 the genes, primary traitless code is used?

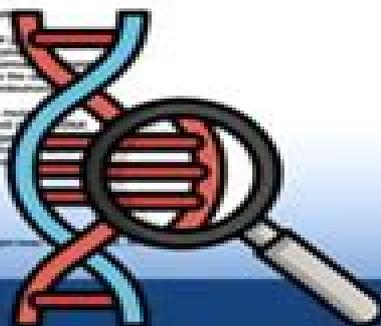
- a. Chromosomes
- b. Genomes
- c. Genes
- d. Cell walls

82. Which are

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

83. What is a gene?

- a. A protein
- b. A chromosome
- c. The part of the cell that contains chromosomes
- d. The part of the cell that contains DNA



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

- a. It always causes a harmful effect on an organism.
- b. It always causes a beneficial effect on an organism.
- c. It always causes a change in an organism's trait.
- d. It always causes no change in an organism's trait.

85. What is the purpose of using models in genetics?

86. What is a gene?

87. What is a chromosome?

88. What is a mutation?

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

ANSWER KEY
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Gene Regulation Worksheet

Christian Drosten



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