



DNA MUTATIONS PRACTICE WORKSHEET

PDF WITH ANSWER KEY

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MUTATIONS Name _____

A mutation is any change in a DNA sequence. Mutations can occur naturally and are repaired in the cell. They can be inherited or acquired during a person's lifetime. Mutations can be harmful, beneficial, or neutral. Some mutations can lead to cancer, while others can lead to genetic diseases. Mutations are the source of genetic diversity in a population.

Types of Mutations

Point mutations: A single nucleotide is changed, inserted, or deleted. This can result in a silent mutation (no change in amino acid), a missense mutation (change in amino acid), or a nonsense mutation (premature stop codon).

Insertion and Deletion: A segment of DNA is added or removed. This can result in a frameshift mutation, which changes the reading frame of the gene.

Chromosomal Mutations: Large segments of DNA are rearranged, including duplications, deletions, inversions, and translocations.

Effects of Mutations

Most mutations are neutral and have no effect on the organism. Some mutations are harmful and can lead to genetic diseases or cancer. Some mutations are beneficial and can lead to adaptations that improve an organism's survival.

Examples of Mutations

Sickle Cell Anemia: A single nucleotide change in the hemoglobin gene leads to a change in the shape of red blood cells, causing them to clump together and block blood flow.

Phenylketonuria: A mutation in the phenylalanine hydroxylase gene leads to a buildup of phenylalanine in the body, which can cause intellectual disability.

Applications of Mutation Knowledge

Genetic testing: Identifying mutations associated with disease risk or ancestry.

Biotechnology: Using mutations to create new products, such as insulin and enzymes.

Evolutionary biology: Studying mutations to understand the relationships between different species.

MUTATIONS Name _____

1. Which gene mutation (insertion, deletion, or substitution) caused the following changes in the DNA sequence? Explain your answer.

2. What mutation caused the following change in the protein?

3. Which type of mutation (insertion, deletion, or substitution) caused the following change in the protein?

4. Why do insertion and deletion mutations cause frameshift mutations?

5. Describe the difference in a frameshift mutation and a point mutation.

6. True/False: A mutation can be passed from parent to offspring.

7. True/False: Mutations can be passed from parent to offspring.

8. Label each of the following mutations as insertion, deletion, or substitution.

_____ → ~~ATG~~ → CTTG

_____ → ~~ATG~~ → ATG

MUTATIONS Name _____

Read the scenarios and their mutations.

1. **Scenario:** A person has a mutation in the hemoglobin gene that causes sickle cell anemia. **Mutation:** A single nucleotide substitution (GAG to GTG).

2. **Scenario:** A person has a mutation in the hemoglobin gene that causes sickle cell anemia. **Mutation:** A single nucleotide substitution (GAG to GAG).

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MUTATIONS Name _____

1. **Original DNA:** ATG CTA TTT AAG GCA

Mutation: ATG CTA TTT AAG GCA

Type of Mutation: _____

2. **Original DNA:** ATG CTA TTT AAG GCA

Mutation: ATG CTA TTT AAG GCA

Type of Mutation: _____

3. **Original DNA:** ATG CTA TTT AAG GCA

Mutation: ATG CTA TTT AAG GCA

Type of Mutation: _____

4. **Original DNA:** ATG CTA TTT AAG GCA

Mutation: ATG CTA TTT AAG GCA

Type of Mutation: _____

5. **Original DNA:** ATG CTA TTT AAG GCA

Mutation: ATG CTA TTT AAG GCA

Type of Mutation: _____

Mutations Practice Answer Key

Padhraic Smyth



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