

Mutations Worksheet Answer Key

1.

Original DNA Sequence

Original Amino Acid Sequence: MET-TRYP-ASN-ARG-CYS

Mutated DNA Sequence #1

Amino Acid Sequence: MET

Kind of Mutation: Nonsense Substitution

Mutated DNA Sequence #2

Amino Acid Sequence: MET-TRYP-GLU-PRO-LEU-LEU

Kind of Mutation: Insertion Frameshift

Mutated DNA Sequence #3

Amino Acid Sequence: MET-TRYP-ASP-ARG-CYS

Kind of Mutation: Silent Substitution

Mutated DNA Sequence #4

Amino Acid Sequence: MET-TRYP-ASP-ARG

Kind of Mutation: Nonsense Substitution

Mutated DNA Sequence #5

Amino Acid Sequence: MET-TRYP-ASP-PRO-ALA

Kind of Mutation: Deletion Frameshift

2. Mutations are changes in the DNA sequences of nucleotides in the DNA.

3. Two causes of mutations are: Spontaneous or mutagens. **Spontaneous mutations** are those that result from errors during DNA replication and repair. Many of these can be repaired by the enzyme exonuclease. **Mutagens** are a number of physical and chemical agents that interact with DNA in ways that cause mutations. Examples include radiation (X rays, UV rays), chemicals, heat, cigarette smoke, pollution, etc.

4. Many mutations have little to no negative impact on the organism because many are repaired during transcription/translation/replication or during the cell cycle. In addition, mutations may occur in non-coding regions of DNA. Some mutations are considered to be silent mutations, which do not change the order of amino acids in the protein.

5. A **substitution mutation** occurs when one nucleotide is replaced by another. They are often called "point mutations" because a single base is changed at one point in the gene. The three consequences are negative, or neutral (no consequence). Two examples of negative consequences may occur in missense and nonsense mutations. A **missense** substitution mutation is a replacement of a single nucleotide that produces an incorrect amino acid, which produces a malfunctioning protein. In a **nonsense** substitution mutation, the replacement of a single nucleotide leads to an early stop codon, which causes the protein to be shortened and thus more vulnerable to degradation. Neutral consequences occur in silent mutations. **Silent** mutations occur when the replaced nucleotide codes for the same amino acid as the original DNA. The amino acid sequence remains the same, and therefore there are no negative effects of this mutation on the cell.

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Victor M. Corman



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