

Genetic Mutations POGIL Answer Key Latest 2023/2024 (Verified Answers) 100% Correct

How many nucleotides are a part of a codon?

3

Does an mRNA sequence that codes for "stop" actually count as an amino acid?

no

What is the result of a substitution mutation?

ONE codon changes which causes ONE amino acid to be different from the normal amino acid sequence

What is an insertion mutation?

An additional nucleotide is inserted in the normal sequence, which lengthens the sequence

What is a deletion mutation?

An existing nucleotide is removed in the normal sequence, which shortens the sequence

Would all substitution mutations lead to a change in the amino acid sequence?

No because if the last letter in a codon changed, the same amino acid is expressed than if the last nucleotide had not been changed.

Would all insertion or deletion mutations lead to a change in the amino acid sequence?

Yes because any new nucleotide that is inserted / deleted shifts the nucleotides, changing the letters of multiple codons.

Would a substitution or insertion mutation pose more damage (or a greater benefit) to an organism?

Insertion because it has the potential to change a majority of the normal amino acid sequence, as the reading frame shifts.

Would a deletion mutation at the beginning of a DNA sequence or at the end pose more damage (or a greater benefit) to an organism?

The beginning because the codons following would all change, whereas a deletion mutation at the end would not affect the codons that were present before.

What is the range of changes in the amino acid sequence that can result from a substitution mutation?

One amino acid may change but the others can remain the same; the amino acid sequence may be stopped too early; no protein will be translated because of a lack of a start codon

Gene mutations can be _____ or _____

missense or nonsense

Gene mutations can be _____ or _____ or _____

positive, negative, neutral

What are missense mutations?

An amino acid is still produced but the wrong amino acid is produced

What are nonsense mutations?

No amino acid is produced; causes a stop codon to occur

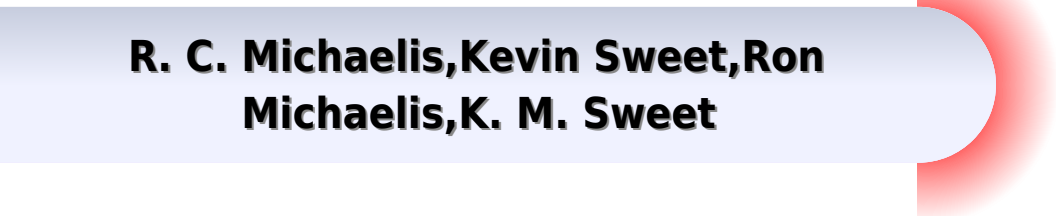
What is a neutral mutation?

The sequence is mutated but the same amino acid sequence is produced as the "normal" one

What is a positive mutation?

Answers For Pogil Genetic Mutations

**R. C. Michaelis, Kevin Sweet, Ron
Michaelis, K. M. Sweet**



Answers For Pogil Genetic Mutations:

Enjoying the Tune of Term: An Mental Symphony within **Answers For Pogil Genetic Mutations**

In some sort of consumed by screens and the ceaseless chatter of fast interaction, the melodic beauty and mental symphony developed by the prepared word usually fade in to the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, located within the pages of **Answers For Pogil Genetic Mutations** a stunning fictional prize filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this interesting masterpiece conducts visitors on a psychological journey, well unraveling the hidden songs and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching examination, we shall examine the book is key harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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