## Genetic Mutations

What mistakes can occur when DNA is replicated?

## Why?

The genes encoded in your DNA result in the production of proteins that perform specific functions within your cells. Various environmental factors and spontaneous events can lead to changes in genes. These changes, called mutations, can lead to alterations in the structure and activity of the proteins your cells use in their daily activities. In other words, changes to your genotype can result in changes to your phenotype. We all have mutations in most of our body cells—yet we are, for the most part, normal and functional human beings. How can that be?

#### Model 1 – Gene Mutations

#### Sequence 1 (normal) DNA sequence ...TACGTAGTCACCTAATGGATC... mRNA sequence A U G C A U C A G U G G A U U A C C U A G Amino acid sequence Mex His Gln. Time He: The Sequence 2 (substitution) ... TACGTAGTCAGCTAATGGATC... DNA sequence mRNA sequence G C A U C A G U C G A U U A C C U A G Amino acid sequence Mee His Gla. He stoop-Sequence 3 (insertion) Lameshift mutation DNA sequence mRNA sequence A U A C A G U G G A U U A C C U A G... His Wall Amino acid sequence Met Leum Sequence 4 (deletion) DNA sequence ... T A C G T A G T C C C T A A T G G A T C... mRNA sequence G C A U C A G G G A U U A C C U A G... Amino acid sequence Mick His Cilm. frame shift mutation

- How many nucleotides are present in the "normal" DNA sequence in Model 1?
  nucleotides
- How many codons are contained in the mRNA that is produced by the "normal" DNA in Model 1?
   7 codons (triplets)
- How many amino acids will be in the polypeptide produced by the normal DNA/mRNA sequence?
   7 amino acids

# **Genetic Mutations Pogil Answers**

**Tao Wei** 

**Genetic Mutations Pogil Answers:** 

### Genetic Mutations Pogil Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Genetic Mutations Pogil Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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