

# 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	... T A C G T A G T C A C C T A A T G G A T C ...
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	Met His Gln Trp Ile Thr stop

### Sequence 2 (substitution)

DNA sequence	... T A C G T A G T C A G C T A A T G G A T C ...
mRNA sequence	A U G C A U C A G U C G A U U A C C U A G
Amino acid sequence	Met His Gln Ser Ile Thr stop

### Sequence 3 (insertion)

DNA sequence	... T A C G T A T G T C A C C T A A T G G A T C ...
mRNA sequence	A U G C A U A C A G U G G A U U A C C U A G ...
Amino acid sequence	Met His Thr Val Asp Tyr Leu...

### 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	A U G C A U C A G G G A U U A C C U A G ...
Amino acid sequence	Met His Gln Gly Leu Pro...

1. How many nucleotides are present in the "normal" DNA sequence in Model 1?
2. How many codons are contained in the mRNA that is produced by the "normal" DNA in Model 1?
3. How many amino acids will be in the polypeptide produced by the normal DNA/mRNA sequence?

# What Mistakes Can Occur When Dna Is Replicated

## Answers

**L Darling-Hammond**



## **What Mistakes Can Occur When Dna Is Replicated Answers:**

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*Molecular Medicine Demystified* Nikhil Moorchung, J R Bhardwaj, 2018-08-28 This book explains the basic concepts of macromolecules and describes the different molecular biology methods which are used in laboratory practice It explains the practical utilities of these techniques and their use in day to day practice and research It has a large number of illustrations and real life examples which would be of interest to doctors The book is meant for undergraduate and post graduate students who want to comprehend the basic concepts of molecular biology before moving on to more advanced textbooks It will also serve as a comprehensive textbook for practicing doctors in various specialities who are interested in molecular biology

*Gene Organisation, Replication and Repair* Mr. Rohit Manglik, 2024-06-24 Covers DNA structure replication and repair mechanisms focusing on molecular processes and their implications in genetic stability and disease **Alcamo's**

**Fundamentals of Microbiology: Body Systems** Jeffrey C. Pommerville, 2009-03-03 **Ebook: Biology**

**BROOKER**, 2014-09-16 Ebook Biology **Philosophy and Conceptual History of Science in Taiwan** Cheng-Hun

Lin, Daiwie Fu, 2012-12-06 Scholarly studies of mathematics and the sciences carried out by philosophers and historians in Taiwan in recent years have two main goals first positive and critical participation in the logical analysis of scientific theories and scientific explanation and second conceptual clarification joined with faithful historical investigation of the sciences of traditional and modern China In this book Professors Cheng hung Lin and Daiwie Fu have gathered fine representative essays from both endeavors Their two introductory discussions guide the reader in three ways First we have insightful remarks concerning the development of science studies in Taiwan during the past three decades Then we see the place of such studies particularly those in the logic and methodology of science in the philosophy of science as that discipline has evolved in the West in recent years Finally we have an account of the changes that have occurred among philosophers and historians of Chinese science as they have turned away from an assumption of Western definitions of scientific achievement a turn that is common to Taiwanese Chinese Japanese and Western scholars **Biological Science** Jon Scott, Anne Goodenough, Gus

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**of Assemblies and Machines** Alasdair Steven, Wolfgang Baumeister, Louise N. Johnson, Richard N. Perham, 2016-02-18

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