

# 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?

# Genetic Mutations What Mistakes Can Occur When Dna Is Replicated

**F Rizvi**



## **Genetic Mutations What Mistakes Can Occur When Dna Is Replicated:**

**Bioprocess Engineering** Shijie Liu, 2020-04-07 Bioprocess Engineering Kinetics Sustainability and Reactor Design Third Edition is a systematic and comprehensive textbook on bioprocess kinetics molecular transformation bioprocess systems sustainability and reaction engineering The book reviews the relevant fundamentals of chemical kinetics batch and continuous reactors biochemistry microbiology molecular biology reaction engineering and bioprocess systems engineering introducing key principles that enable bioprocess engineers to engage in the analysis optimization selection of cultivation methods design and consistent control over molecular biological and chemical transformations The quantitative treatment of bioprocesses is the central theme in this text however more advanced techniques and applications are also covered Includes biological molecules and chemical reaction basics cell biology and genetic engineering Describes kinetics and catalysis at molecular and cellular levels along with the principles of fermentation Covers advanced topics and treatise in interactive enzyme and molecular regulations also covering solid catalysis Explores bioprocess kinetics mass transfer effects reactor analysis control and design

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Lewis's Medical-Surgical Nursing E-Book Mariann M. Harding, Jeffrey Kwong, Debra Hagler, Courtney Reinisch, 2022-07-02 American Journal of Nursing AJN Book of the Year Awards 1st Place in Medical Surgical Nursing 2023 Selected for Doody's Core Titles 2024 with Essential Purchase

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 Diane Brown, Thomas Buckley, Robyn Aitken, Helen Edwards, 2023-11-28

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**Principles of Cell Biology** George Plopper,Diana Bebek Ivankovic,2020-02-03 Principles of Cell Biology Third Edition is an educational eye opening text with an emphasis on how evolution shapes organisms on the cellular level Students will learn the material through 14 comprehensible principles which give context to the underlying theme that make the details fit together **Epigenetics, Nuclear Organization & Gene Function** John C. Lucchesi,2018-12-19 Epigenetics is the study of heritable changes in gene function that do not involve changes in the DNA sequence These changes consisting principally of DNA methylation histone modifications and non coding RNAs maintain or modulate the initial impact of regulatory factors that recognize and associate with particular genomic sequences Epigenetic modifications are manifest in all aspects of normal cellular differentiation and function but they can also have damaging effects that result in pathologies such as cancer Research is continuously uncovering the role of epigenetics in a variety of human disorders providing new avenues for therapeutic interventions and advances in regenerative medicine This book s primary goal is to establish a framework that can be used to understand the basis of epigenetic regulation and to appreciate both its derivation from genetics and interdependence with genetic mechanisms A further aim is to highlight the role played by the three dimensional organization of the genetic material itself the complex of DNA histones and non histone proteins referred to as chromatin and its distribution within a functionally compartmentalized nucleus This architectural organization of the genome plays a major role in the subsequent retrieval interpretation and execution of both genetic and epigenetic information **Medical**

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entire genome more than three billion DNA base pairs is contained in all cells that have a nucleus Developmental Genetics studies how the genes regulate developmental changes in behavior and influence scientific approaches in several fields It highlights the interdisciplinary approach of developmental genetics with new revolutionary technologies and details how these advances have accelerated our understanding of the molecular genetic processes that regulates development Chromosomes come in matching sets of two or pairs and there are hundreds sometimes thousands of genes in just one chromosome The chromosomes and genes are made of DNA which is short for deoxyribonucleic Genes Genomes and Genomics with chapters written by internationally renowned experts provide an enormous reservoir of new information in the various theoretical and applied aspects of unravelling the secrets hidden in the genes of plants animals and microorganisms A gene is the basic physical and functional unit of heredity Genes which are made up of DNA act as instructions to make molecules called proteins In humans genes vary in size from a few hundred DNA bases to more than two million bases Moreover the book presents a thorough overview of a wide array of methodologies from classical genetics to modern genomics technologies

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