

PROTEIN SYNTHESIS

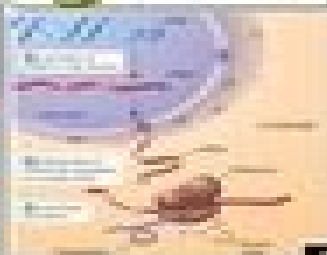
1. Transcription is the process of copying a gene's DNA sequence into a messenger RNA (mRNA) sequence. This step occurs in the nucleus of the cell.

2. During transcription, the DNA double helix unwinds, and one strand (the template strand) is used to synthesize a complementary mRNA strand. The mRNA strand is then processed and transported out of the nucleus.

3. Translation is the process of synthesizing a protein from an mRNA sequence. This step occurs in the cytoplasm of the cell, where ribosomes are located. The ribosome reads the mRNA sequence and uses it to assemble a chain of amino acids, which form the protein.



TRANSLATION



THE GENETIC CODE

"One codon at a time"

1. Biological systems use sequences of three nucleotides, called codons, to specify the amino acids that are used to build proteins. Each codon codes for a specific amino acid.

2. The genetic code is the set of rules that defines how sequences of nucleotide base pairs (A, T, C, G) are translated to the amino acid sequences of proteins.

3. The genetic code is universal, meaning that the same codons code for the same amino acids in all organisms. This is why we can use the same genetic code to understand the relationship between DNA and proteins in all life forms.

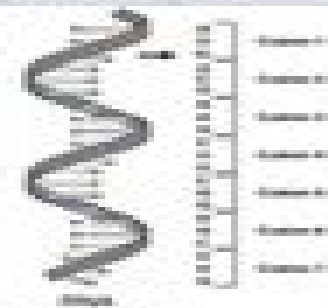
4. The genetic code is a triplet code, meaning that each amino acid is specified by a sequence of three nucleotides (a codon).

5. The genetic code is a non-overlapping code, meaning that each nucleotide is part of only one codon.

6. The genetic code is a degenerate code, meaning that some amino acids are specified by more than one codon.

7. The genetic code is a linear code, meaning that the sequence of nucleotides in a DNA or RNA molecule determines the sequence of amino acids in a protein.

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9. The genetic code is a triplet code, meaning that each amino acid is specified by a sequence of three nucleotides (a codon).

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THE GENETIC CODE

		Second Base				
		U	C	A	G	
First Base	U	UUU Phe	UUC Phe	UAU Tyr	UAG Stop	U
		UUA Leu	UUG Leu	UAU Tyr	UAG Stop	A
		UUU Phe	UUC Phe	UAU Tyr	UAG Stop	C
		UUA Leu	UUG Leu	UAU Tyr	UAG Stop	G
C	CUU Leu	CCU Pro	CAU His	CGU Arg		C
	CUC Leu	CCC Pro	CAC His	CGC Arg		C
	CUA Leu	CCA Pro	CAA His	CGA Arg		A
	CUG Leu	CCG Pro	CAG His	CGG Arg		G
A	AUU Ile	ACU Thr	AUU Ile	AUU Ile		C
	AUC Ile	ACC Thr	AUG Met	AUG Met		C
	AUA Ile	ACA Thr	AUA Ile	AUA Ile		A
	AUG Met	ACG Thr	AUG Met	AUG Met		G
G	GUU Val	GCU Ala	GAU Asp	GGU Gly		C
	GUC Val	GCC Ala	GAC Asp	GGC Gly		C
	GUA Val	GCA Ala	GAA Glu	GGA Gly		A
	GUG Val	GCG Ala	GAG Glu	GGG Gly		G

THE GENETIC CODE IS A REFERENCE TOOL

THE GENETIC CODE

THE GENETIC CODE IS A REFERENCE TOOL

First Base	Second Base	Third Base	Amino Acid
U	U	U	Phe
U	U	C	Phe
U	U	A	Tyr
U	U	G	Stop
U	C	U	Leu
U	C	C	Leu
U	C	A	Tyr
U	C	G	Stop
U	A	U	Tyr
U	A	C	Tyr
U	A	A	Tyr
U	A	G	Stop
U	G	U	Val
U	G	C	Val
U	G	A	Val
U	G	G	Val
C	U	U	Leu
C	U	C	Leu
C	U	A	Leu
C	U	G	Leu
C	C	U	Pro
C	C	C	Pro
C	C	A	Pro
C	C	G	Pro
C	A	U	His
C	A	C	His
C	A	A	His
C	A	G	His
C	G	U	Arg
C	G	C	Arg
C	G	A	Arg
C	G	G	Arg
A	U	U	Ile
A	U	C	Ile
A	U	A	Ile
A	U	G	Met
A	C	U	Thr
A	C	C	Thr
A	C	A	Thr
A	C	G	Thr
A	A	U	Asn
A	A	C	Asn
A	A	A	Asn
A	A	G	Asn
A	G	U	Ser
A	G	C	Ser
A	G	A	Ser
A	G	G	Ser
G	U	U	Val
G	U	C	Val
G	U	A	Val
G	U	G	Val
G	C	U	Ala
G	C	C	Ala
G	C	A	Ala
G	C	G	Ala
G	A	U	Asp
G	A	C	Asp
G	A	A	Asp
G	A	G	Asp
G	G	U	Gly
G	G	C	Gly
G	G	A	Gly
G	G	G	Gly

1. Using the genetic code, determine the amino acid sequence for the following mRNA sequence: AUG, CCG, AUA, GGC, GAA, UUC, AAA.

2. Using the genetic code, determine the amino acid sequence for the following mRNA sequence: AUG, CCG, AUA, GGC, GAA, UUC, AAA.

3. Using the genetic code, determine the amino acid sequence for the following mRNA sequence: AUG, CCG, AUA, GGC, GAA, UUC, AAA.

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6. Using the genetic code, determine the amino acid sequence for the following mRNA sequence: AUG, CCG, AUA, GGC, GAA, UUC, AAA.

Genetic Mutations Packet

J Spring



Genetic Mutations Packet:

The Enigmatic Realm of **Genetic Mutations Packet**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Genetic Mutations Packet** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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