

PROTEIN SYNTHESIS

TRANSLATION



1. Translation is the process by which the genetic code is used to synthesize a protein. It occurs in the cytoplasm of the cell, where the mRNA is translated by ribosomes. The ribosome is a complex of proteins and RNA that reads the mRNA and assembles the amino acids into a polypeptide chain.

2. During translation, the ribosome moves along the mRNA, reading the codons and adding the corresponding amino acids to the growing polypeptide chain. The amino acids are brought to the ribosome by transfer RNA (tRNA) molecules, which have anticodons that pair with the mRNA codons. The polypeptide chain is released from the ribosome when a stop codon is reached.



THE GENETIC CODE

"One codon at a time"

1. Biology began in September, and the students in the biology class were excited to learn about the genetic code. They had just learned about the structure of DNA and how it is used to store genetic information. Now they were going to learn about the genetic code, which is the language that the cell uses to make proteins.
2. The genetic code is a set of rules that the cell uses to translate the information in the DNA into a protein. It is a code because it uses a specific language to communicate. The genetic code is a triplet code, which means that each amino acid is coded for by a group of three nucleotides, called a codon. The genetic code is a universal code, which means that it is the same for all living organisms.



"One gene - one protein"

1. The genetic code is a set of rules that the cell uses to translate the information in the DNA into a protein. It is a code because it uses a specific language to communicate. The genetic code is a triplet code, which means that each amino acid is coded for by a group of three nucleotides, called a codon. The genetic code is a universal code, which means that it is the same for all living organisms.

A COPY OF THE GENETIC CODE
CAN BE FOUND ON PAGE 89

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	UAA Stop	UAA Stop	A
		UCU Ser	UCC Ser	UCA Ser	UCG Ser	C
		UGU Cys	UGC Cys	UGA Stop	UGG Trp	G
C		CUU Leu	CCU Pro	CAU His	CGU Arg	C
		CUC Leu	CCC Pro	CAC His	CGC Arg	C
		CUA Leu	CCA Pro	CUA Leu	CGA Arg	A
		CGU Arg	CCG Pro	CAU His	CGG Arg	G
A		AUU Ile	ACU Thr	AUU Ile	AUU Ile	I
		AUC Ile	ACC Thr	AUA Ile	AUA Ile	I
		AUA Ile	ACA Thr	AUA Ile	AUA Ile	A
		AUG Met	ACG Thr	AUA Ile	AUA Ile	G
G		GUU Val	GCU Ala	GAU Asp	GGU Gly	G
		GUC Val	GCC Ala	GAC Asp	GGC Gly	C
		GUU Val	GCA Ala	GAA Glu	GGA Gly	A
		GGU Gly	GCG Ala	GAG Glu	GGG Gly	G

THE GENETIC CODE IS A REFERENCE TOOL

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	UAA Stop	UAA Stop	A
		UCU Ser	UCC Ser	UCA Ser	UCG Ser	C
		UGU Cys	UGC Cys	UGA Stop	UGG Trp	G
C		CUU Leu	CCU Pro	CAU His	CGU Arg	C
		CUC Leu	CCC Pro	CAC His	CGC Arg	C
		CUA Leu	CCA Pro	CUA Leu	CGA Arg	A
		CGU Arg	CCG Pro	CAU His	CGG Arg	G
A		AUU Ile	ACU Thr	AUU Ile	AUU Ile	I
		AUC Ile	ACC Thr	AUA Ile	AUA Ile	I
		AUA Ile	ACA Thr	AUA Ile	AUA Ile	A
		AUG Met	ACG Thr	AUA Ile	AUA Ile	G
G		GUU Val	GCU Ala	GAU Asp	GGU Gly	G
		GUC Val	GCC Ala	GAC Asp	GGC Gly	C
		GUU Val	GCA Ala	GAA Glu	GGA Gly	A
		GGU Gly	GCG Ala	GAG Glu	GGG Gly	G

1. Using the genetic code, determine the amino acid sequence for the following mRNA sequence. Remember to use the genetic code.
2. Using the genetic code, determine the amino acid sequence for the following DNA sequence. Remember to use the genetic code.
3. Using the genetic code, determine the amino acid sequence for the following protein sequence. Remember to use the genetic code.

Genetic Mutations Packet

Ying-Ying Zheng



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