

PROTEIN SYNTHESIS

TRANSLATION

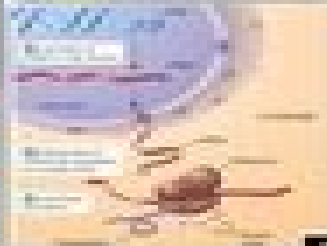


1. mRNA is a single-stranded molecule that carries the genetic information from the DNA to the ribosome. It is composed of a sequence of nucleotides, each consisting of a phosphate group, a sugar, and a nitrogenous base. The bases are arranged in a specific order that determines the sequence of the protein to be synthesized.

2. Ribosomes are the sites of protein synthesis. They are composed of two subunits, each made of ribosomal RNA (rRNA) and proteins. The ribosome binds to the mRNA and provides a platform for the assembly of the polypeptide chain.

3. tRNA molecules are responsible for bringing the amino acids to the ribosome. Each tRNA has a specific anticodon that pairs with a complementary codon on the mRNA. The amino acid is attached to the 3' end of the tRNA.

4. The growing polypeptide chain is transferred from one tRNA to the next as the ribosome moves along the mRNA. This process continues until a stop codon is reached, at which point the protein is released.



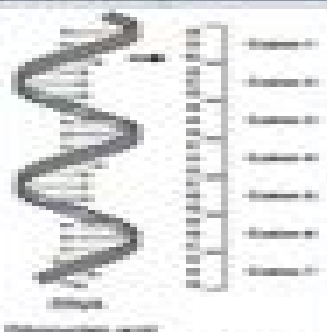
THE GENETIC CODE

"One codon at a time"

1. The genetic code is the set of rules by which information encoded in genetic material (DNA or mRNA sequences) is translated into proteins by living cells. It is a set of instructions that tells the cell how to build a protein.

2. The genetic code is universal, meaning that all living organisms use the same code to translate their DNA into proteins. This is why we can use the same genetic code to understand the DNA of any organism.

3. The genetic code is non-overlapping, meaning that each nucleotide is only part of one codon. This ensures that the sequence of the protein is determined by the sequence of the DNA.



"One gene - one protein"

1. One gene codes for one protein. This is the central dogma of molecular biology. The DNA sequence of a gene is transcribed into mRNA, which is then translated into a specific protein.

2. The protein is the functional product of the gene. It is the protein that carries out the instructions of the gene and determines the organism's traits.

A COPY OF THE GENETIC CODE CAN BE FOUND ON PAGE 119

THE GENETIC CODE

		Second Base								
		U	C	A	G					
First Base	U	UUU → Phe	UCU → Ser	UAU → Tyr	UGU → Cys	Third Base	U	C	A	G
	U	UUC → Phe	UCC → Ser	UUA → Leu	UGU → Cys		U	C	A	G
	U	UUA → Leu	UCA → Ser	UAA → Stop	UGA → Stop		U	C	A	G
	U	UGU → Cys	UCG → Ser	UAG → Stop	UGG → Trp		U	C	A	G
C	C	CUU → Leu	CCU → Pro	CAU → His	CGU → Arg	C	C	A	G	
	C	CUC → Leu	CCC → Pro	CAC → His	CGC → Arg	C	C	A	G	
	C	CUA → Leu	CCA → Pro	CAA → Gln	CGA → Arg	C	C	A	G	
	C	UGU → Cys	CCG → Pro	CAG → Gln	CGG → Arg	C	C	A	G	
A	A	AUU → Ile	AUC → Ile	AUA → Ile	AUG → Met	A	C	A	G	
	A	AUU → Ile	AUC → Ile	AUA → Ile	AUG → Met	A	C	A	G	
	A	AUA → Ile	AUA → Ile	AUA → Ile	AUA → Ile	A	C	A	G	
	A	AUA → Ile	AUA → Ile	AUA → Ile	AUA → Ile	A	C	A	G	
G	G	GUU → Val	GCU → Ala	GAU → Asp	GGU → Gly	G	C	A	G	
	G	GUC → Val	GCC → Ala	GAC → Asp	GGC → Gly	G	C	A	G	
	G	GUA → Val	GCA → Ala	GAA → Glu	GGA → Gly	G	C	A	G	
	G	GUA → Val	GCA → Ala	GAA → Glu	GGA → Gly	G	C	A	G	

THE GENETIC CODE

1. Using the genetic code (page 119), identify the amino acid for each of the following codons.

UUU	UUU	UUU	UUU
UUC	UUC	UUC	UUC
UUA	UUA	UUA	UUA
UGU	UGU	UGU	UGU
CUU	CUU	CUU	CUU
CUC	CUC	CUC	CUC
CUA	CUA	CUA	CUA
UGU	UGU	UGU	UGU
AUU	AUU	AUU	AUU
AUC	AUC	AUC	AUC
AUA	AUA	AUA	AUA
AUG	AUG	AUG	AUG
GUU	GUU	GUU	GUU
GUC	GUC	GUC	GUC
GUA	GUA	GUA	GUA
GUG	GUG	GUG	GUG

2. Using the genetic code (page 119), identify the amino acid for each of the following codons.

UUU	UUU	UUU	UUU
UUC	UUC	UUC	UUC
UUA	UUA	UUA	UUA
UGU	UGU	UGU	UGU
CUU	CUU	CUU	CUU
CUC	CUC	CUC	CUC
CUA	CUA	CUA	CUA
UGU	UGU	UGU	UGU
AUU	AUU	AUU	AUU
AUC	AUC	AUC	AUC
AUA	AUA	AUA	AUA
AUG	AUG	AUG	AUG
GUU	GUU	GUU	GUU
GUC	GUC	GUC	GUC
GUA	GUA	GUA	GUA
GUG	GUG	GUG	GUG

3. Using the genetic code (page 119), identify the amino acid for each of the following codons.

4. Using the genetic code (page 119), identify the amino acid for each of the following codons.

5. Using the genetic code (page 119), identify the amino acid for each of the following codons.

Genetic Mutations Packet

Chao Zhang



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