

PROTEIN SYNTHESIS

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

2. During transcription, the DNA double helix unwinds, and one strand is used as a template 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 template. This occurs in the cytoplasm of the cell, where ribosomes are located. The ribosome reads the mRNA sequence and assembles a chain of amino acids to form a 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 codon codes for the same amino acid 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).

"One gene - one protein"

1. Each gene contains the instructions for building a specific protein. The sequence of nucleotides in a gene determines the sequence of amino acids in the protein.

2. The sequence of amino acids in a protein determines its shape and function. This is why a change in a single nucleotide in a gene can lead to a change in the protein it codes for.

3. A copy of the genetic code can be found on page 119.

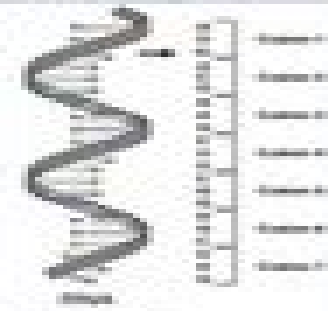


Figure 1: The flow of genetic information from DNA to protein.

Figure 2: The flow of genetic information from DNA to protein.

THE GENETIC CODE

First base	Second base				Third base
	U	C	A	G	
U	UUU Phe	UCU Ser	UAU Tyr	UGU Cys	U
	UUC Phe	UCC Ser	UAC Tyr	UGC Cys	C
	UUA Leu	UCA Ser	UAA Stop	UGA Stop	A
	UUG Leu	UCG Ser	UAG 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	CAA Gln	CGA Arg	A
	CUG Leu	CCG Pro	CAG Gln	CGG Arg	G
A	AUU Ile	ACU Thr	AUU Ile	AUU Ile	A
	AUC Ile	ACC Thr	AUA Ile	AUA Ile	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	G
	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

FIGURE 1: THE GENETIC CODE. A & B. REFERENCE 119

THE GENETIC CODE

1. 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.

First base	Second base	Third base	Amino acid
U	U	U	Phe
U	U	C	Phe
U	U	A	Leu
U	U	G	Leu
U	C	U	Ser
U	C	C	Ser
U	C	A	Ser
U	C	G	Ser
U	A	U	Tyr
U	A	C	Tyr
U	A	A	Stop
U	A	G	Stop
U	G	U	Cys
U	G	C	Cys
U	G	A	Trp
U	G	G	Trp
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	Gln
C	A	G	Gln
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	Ile
A	C	U	Thr
A	C	C	Thr
A	C	A	Thr
A	C	G	Thr
A	G	U	Val
A	G	C	Val
A	G	A	Val
A	G	G	Val

2. Using the genetic code, determine the amino acid sequence of the protein encoded by the following mRNA sequence. Remember to use the start and stop codons.

ATG	CGT	ATT	GGC	CGA	TTT	ATA

3. Using the genetic code, determine the amino acid sequence of the protein encoded by the following mRNA sequence. Remember to use the start and stop codons.

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4. Using the genetic code, determine the amino acid sequence of the protein encoded by the following mRNA sequence. Remember to use the start and stop codons.

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Genetic Mutations Packet

JA Banks



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