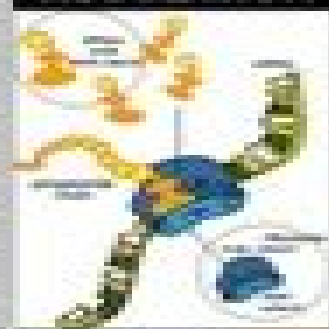


PROTEIN SYNTHESIS

TRANSLATION



1. Translation is the process of synthesizing a protein from an mRNA template. The mRNA template is read in groups of three bases called codons. Each codon codes for a specific amino acid.

2. Transfer RNA (tRNA) molecules act as the bridge between the mRNA codons and the amino acids. Each tRNA has an anticodon that is complementary to the mRNA codon. The amino acid is attached to the tRNA.

3. The ribosome is the site of translation. It moves along the mRNA, reading the codons and bringing in the appropriate tRNA molecules. The amino acids are then joined together to form the polypeptide chain.



THE GENETIC CODE

"One codon at a time"

1. Biological systems use sequences of three nucleotides to specify the amino acids that are used to build proteins. These sequences are called codons.

2. Each codon codes for a specific amino acid. The genetic code is a "dictionary" of all the combinations of three nucleotides that specify the 20 amino acids.

3. The genetic code is universal, meaning that the same codon codes for the same amino acid in all organisms.

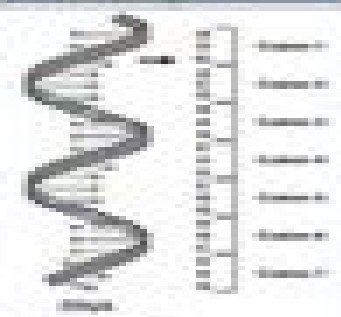
4. The genetic code is also redundant, meaning that more than one codon can code for the same amino acid.

"One gene - one protein"

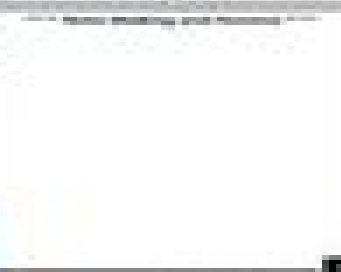
1. Each gene contains the instructions for making a specific protein. The instructions are written in the form of a sequence of nucleotides.

2. The sequence of nucleotides in a gene determines the sequence of amino acids in the protein that it codes for.

3. The sequence of amino acids in a protein determines its function.



Transcription and Translation



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	UGU Cys	C
		UCU Ser	UCC Ser	UCA Ser	UGU Cys	A
		UCG Ser	UCC Ser	UAG Stop	UGU Cys	G
C	CUU Leu	CCU Pro	CAU His	CGU Arg	C	U
	CUA Leu	CCC Pro	CAC His	CGC Arg	C	C
	CUA Leu	CCA Pro	CUA His	CGA Arg	C	A
	CUG Leu	CCG Pro	CAG His	CGG Arg	C	G
A	AUU Ile	ACU Thr	AUA Ile	AUG Met	A	U
	AUA Ile	AAC Asn	AAG Asn	AUG Met	A	C
	AUA Ile	AAA Lys	AAU Lys	AUG Met	A	A
	AUA Ile	AAU Lys	AAU Lys	AUG Met	A	G
G	GUU Val	GCU Ala	GAU Asp	GGU Gly	G	U
	GUA Val	GCC Ala	GAC Asp	GGC Gly	G	C
	GUA Val	GCA Ala	GAA Asp	GGG Gly	G	A
	GUG Val	GCG Ala	GAG Asp	GGG Gly	G	G

THE GENETIC CODE: A REFERENCE

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	UGU Cys	C
		UCU Ser	UCC Ser	UCA Ser	UGU Cys	A
		UCG Ser	UCC Ser	UAG Stop	UGU Cys	G
C	CUU Leu	CCU Pro	CAU His	CGU Arg	C	U
	CUA Leu	CCC Pro	CAC His	CGC Arg	C	C
	CUA Leu	CCA Pro	CUA His	CGA Arg	C	A
	CUG Leu	CCG Pro	CAG His	CGG Arg	C	G
A	AUU Ile	ACU Thr	AUA Ile	AUG Met	A	U
	AUA Ile	AAC Asn	AAG Asn	AUG Met	A	C
	AUA Ile	AAA Lys	AAU Lys	AUG Met	A	A
	AUA Ile	AAU Lys	AAU Lys	AUG Met	A	G
G	GUU Val	GCU Ala	GAU Asp	GGU Gly	G	U
	GUA Val	GCC Ala	GAC Asp	GGC Gly	G	C
	GUA Val	GCA Ala	GAA Asp	GGG Gly	G	A
	GUG Val	GCG Ala	GAG Asp	GGG Gly	G	G

1. Using the genetic code, determine the amino acid sequence for the following mRNA sequence. Remember to use the start and stop codons.

ATG GCG ATT GGC GAA TTC ATA

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

ATG GCG ATT GGC GAA TTC ATA

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

ATG GCG ATT GGC GAA TTC ATA

Genetic Mutations Packet

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Genetic Mutations Packet:

The Top Books of the Year Genetic Mutations Packet The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Genetic Mutations Packet : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/data/browse/Documents/mercury%20outboard%20motor%20serial%20numbers.pdf>

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