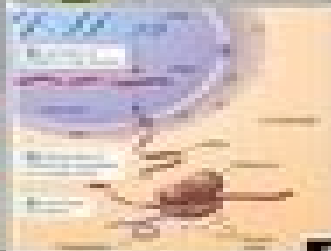


## PROTEIN SYNTHESIS

### 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. During translation, the ribosome moves along the mRNA template, reading the codons and adding the corresponding amino acids to the growing polypeptide chain.

3. The process continues until the ribosome reaches a stop codon, which signals the end of translation. The completed polypeptide chain is then released from the ribosome.



## 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. For example, the codon AUG codes for the amino acid methionine.

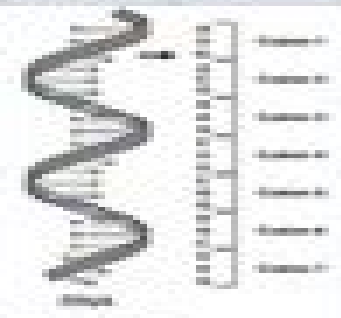
3. The sequence of codons in an mRNA molecule determines the sequence of amino acids in a protein. This sequence is called the primary structure of the protein.

4. The genetic code is a set of rules that defines how the sequence of nucleotides in an mRNA molecule is translated into the sequence of amino acids in a protein.

### "One gene - one protein"

1. Each gene contains the instructions for making a specific protein. The sequence of nucleotides in a gene determines the sequence of codons in the mRNA molecule that is transcribed from the gene.

2. The sequence of codons in the mRNA molecule determines the sequence of amino acids in the protein. This sequence is called the primary structure of the protein.



Transcription is the process of copying a gene from DNA into mRNA.

## THE GENETIC CODE

|            |   | Second base |         |          |          |   |
|------------|---|-------------|---------|----------|----------|---|
|            |   | G           | C       | A        | G        |   |
| First base | U | UUU Phe     | UCU Leu | UAU Tyr  | UGU Cys  | U |
|            |   | UUC Phe     | UCC Leu | UAC Tyr  | UGC Cys  |   |
|            |   | UUA Leu     | UCA Leu | UAA Stop | UGA Stop | A |
|            |   | UUG Leu     | UCG Leu | UAG Stop | UGG Trp  |   |
| C          |   | CUU Leu     | CCU Pro | CAU His  | CGU Arg  | C |
|            |   | CUC Leu     | CCC Pro | CAC His  | CGC Arg  |   |
|            |   | CUA Leu     | CCA Pro | CAA Gln  | CGA Arg  | A |
|            |   | CUG Leu     | CCG Pro | CAG Gln  | CGG Arg  |   |
| A          |   | AUU Ile     | ACU Thr | AUU Ile  | AUU Ile  | G |
|            |   | AUC Ile     | ACC Thr | AUG Met  | AUG Met  |   |
|            |   | AAA Lys     | ACA Thr | AAA Lys  | AAA Lys  | A |
|            |   | AAG Lys     | ACG Thr | AAG Lys  | AAG Lys  |   |
| G          |   | GUU Val     | GCU Ala | GAA Glu  | GGU Gly  | G |
|            |   | GUC Val     | GCC Ala | GAG Glu  | GGC Gly  |   |
|            |   | GUA Val     | GCA Ala | GAA Glu  | GGA Gly  | A |
|            |   | GUG Val     | GCG Ala | GAG Glu  | GGG Gly  |   |

THE GENETIC CODE IS A REFERENCE TOOL

## THE GENETIC CODE

|            |   | Second base |         |          |          |   |
|------------|---|-------------|---------|----------|----------|---|
|            |   | G           | C       | A        | G        |   |
| First base | U | UUU Phe     | UCU Leu | UAU Tyr  | UGU Cys  | U |
|            |   | UUC Phe     | UCC Leu | UAC Tyr  | UGC Cys  |   |
|            |   | UUA Leu     | UCA Leu | UAA Stop | UGA Stop | A |
|            |   | UUG Leu     | UCG Leu | UAG Stop | UGG Trp  |   |
| C          |   | CUU Leu     | CCU Pro | CAU His  | CGU Arg  | C |
|            |   | CUC Leu     | CCC Pro | CAC His  | CGC Arg  |   |
|            |   | CUA Leu     | CCA Pro | CAA Gln  | CGA Arg  | A |
|            |   | CUG Leu     | CCG Pro | CAG Gln  | CGG Arg  |   |
| A          |   | AUU Ile     | ACU Thr | AUU Ile  | AUU Ile  | G |
|            |   | AUC Ile     | ACC Thr | AUG Met  | AUG Met  |   |
|            |   | AAA Lys     | ACA Thr | AAA Lys  | AAA Lys  | A |
|            |   | AAG Lys     | ACG Thr | AAG Lys  | AAG Lys  |   |
| G          |   | GUU Val     | GCU Ala | GAA Glu  | GGU Gly  | G |
|            |   | GUC Val     | GCC Ala | GAG Glu  | GGC Gly  |   |
|            |   | GUA Val     | GCA Ala | GAA Glu  | GGA Gly  | A |
|            |   | GUG Val     | GCG Ala | GAG Glu  | GGG Gly  |   |

1. Using the genetic code, determine the amino acid sequence of the polypeptide chain. Remember to use the start and stop codons.

2. Using the genetic code, determine the amino acid sequence of the polypeptide chain. Remember to use the start and stop codons.

3. Using the genetic code, determine the amino acid sequence of the polypeptide chain. Remember to use the start and stop codons.

# Genetic Mutations Packet

**Peipei Pang**



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## **Table of Contents Genetic Mutations Packet**

1. Understanding the eBook Genetic Mutations Packet
  - The Rise of Digital Reading Genetic Mutations Packet
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Mutations Packet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Genetic Mutations Packet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Mutations Packet
  - Personalized Recommendations
  - Genetic Mutations Packet User Reviews and Ratings
  - Genetic Mutations Packet and Bestseller Lists

5. Accessing Genetic Mutations Packet Free and Paid eBooks
  - Genetic Mutations Packet Public Domain eBooks
  - Genetic Mutations Packet eBook Subscription Services
  - Genetic Mutations Packet Budget-Friendly Options
6. Navigating Genetic Mutations Packet eBook Formats
  - ePub, PDF, MOBI, and More
  - Genetic Mutations Packet Compatibility with Devices
  - Genetic Mutations Packet Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetic Mutations Packet
  - Highlighting and Note-Taking Genetic Mutations Packet
  - Interactive Elements Genetic Mutations Packet
8. Staying Engaged with Genetic Mutations Packet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetic Mutations Packet
9. Balancing eBooks and Physical Books Genetic Mutations Packet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetic Mutations Packet
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Genetic Mutations Packet
  - Setting Reading Goals Genetic Mutations Packet
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetic Mutations Packet
  - Fact-Checking eBook Content of Genetic Mutations Packet
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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