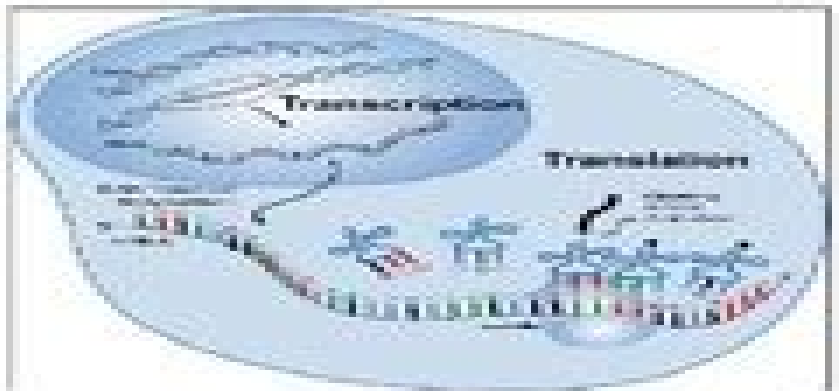


Protein Synthesis: Making new proteins (the hormones and enzymes) for the body. Protein synthesis occurs in two steps and in two areas of the cell. This happens because DNA cannot leave the nucleus of the cell.



Transcription: (writing mRNA = the message of how to make proteins); occurs in nucleus of cell

1. Part of DNA unwinds and creates mRNA (one template) in the nucleus with the help of RNA polymerase.
2. When transcribing from DNA to RNA, Thymine is replaced by Uracil.
3. Only one side of the DNA is transcribed into mRNA.
4. mRNA leaves the nucleus and travels to the ribosome in the cytoplasm.

Translation: (translating for an amino acid); occurs using ribosome floating in the cytoplasm of cells

5. With the help of the ribosome, mRNA is translated.
6. tRNA transfers the complementary anticodon with the amino acid attached to each codon on mRNA.
7. Polypeptide chain is created where each amino acid is joined by a peptide bond = protein.
8. Protein either stays in the cell or gets packaged.

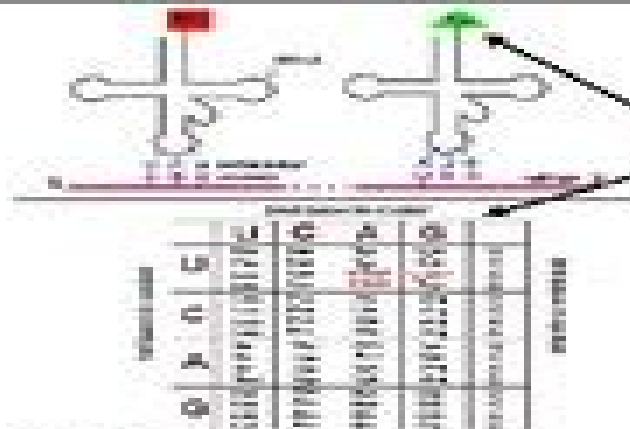
Quick Practice

DNA Sequence: T A C - C A A - T G T - C A G - A T A - A T C - T A C - G A T - A A A - T G A - A T C

mRNA codons: _____

tRNA anticodons: _____

Amino Acid Sequence = Protein (use mRNA codon and the chart below to find the amino acid)



The Genetic Code

READ the mRNA codon, NOT the tRNA anticodon, to find the amino acid!
 Note how UAC (codon) = Tyr (amino acid) and ACG (codon) = Ser (amino acid)

Mutations 2014 Packet

Jicheng Xie



Mutations 2014 Packet:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Mutations 2014 Packet**

In a world inundated with monitors and the cacophony of immediate interaction, the profound energy and emotional resonance of verbal art often diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. However, located within the musical pages of **Mutations 2014 Packet**, a fascinating perform of fictional beauty that impulses with fresh thoughts, lies an wonderful journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that enchanting opus guides readers on a psychological odyssey, gently revealing the latent potential and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their fascinating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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