

Protein Synthesis

Name _____
 Period _____ Date _____

Worksheet

Ribonucleic acid • RNA

- RNA is one of the three major biological macromolecules that are essential for all known forms of life.
- It works with DNA to create proteins by reading the DNA's code, copying the code, taking the code out of the nucleus into the cytoplasm, joining amino acids together forming proteins at a ribosomal site.
- There are two forms:
 - mRNA messenger, takes code from DNA in nucleus to cytoplasm
 - tRNA transfer, translates code from mRNA to amino acid at ribosome
- It's backbone sugar is ribose
- It contains the following nitrogenous bases
 - Guanine
 - Adenine
 - Cytosine
 - Uracil (in place of DNA's thymine)

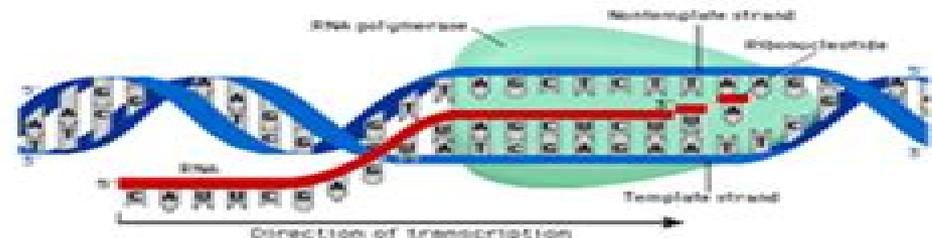
Protein Synthesis occurs in two parts.

Part I — Transcription

1. mRNA (messenger RNA) travels from the cell's cytoplasm into the nucleus
2. In the nucleus DNA unzips
3. mRNA nucleotides float into unzipped DNA following the order of the nitrogenous bases
4. Nitrogenous Base Paring in chart to right
5. mRNA carries DNA's code, in it's strand, out into cytoplasm
6. In the cytoplasm mRNA joins with tRNA for next step, translation

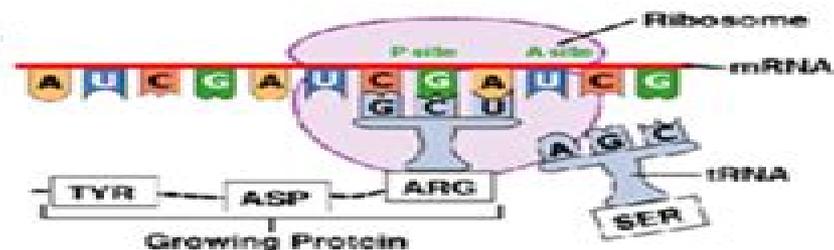
Nitrogenous Base Paring

DNA	RNA
G	
C	
T	
A	



Part II — Translation

1. mRNA travels to and joins to a ribosomal unit at the 5' untranslated region.
2. A tRNA (looks like a clover leaf) carrying a "start" codon and the amino acid attaches to the codon on the mRNA.
3. The ribosome moves in the 3' direction down the messenger RNA by three bases or one codon shifting the tRNA and protein (polypeptide chain).
4. tRNA ejected from the ribosome.
5. Process continues until a "stop" codon is reached which finishes the process releasing the protein



Dna Rna And Protein Synthesis Packet Answers

Nancy A. Sickles Corbett



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