

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
 - Cytosine
 - Adenine
 - Uracil (in place of DNA's thymine)

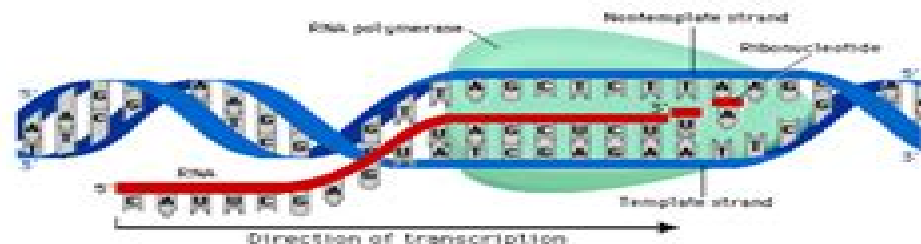
Protein Synthesis occurs in two parts.

Part I — Transcription

1. mRNA (messenger RNA) travels from the cell's cytoplasm into the nucleus nucleus into the cytoplasm
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

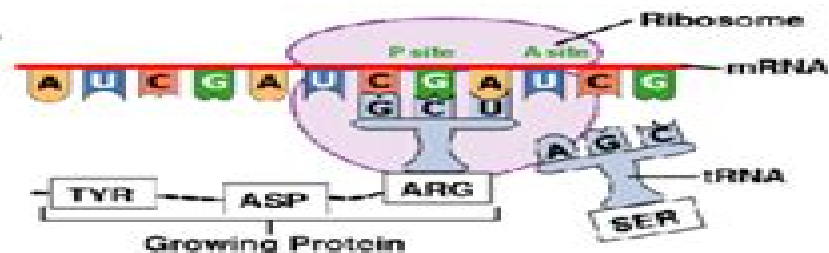
Nitrogenous Base Paring

DNA	RNA
G	C
C	G
T	A
A	U



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" anti-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



Virtual Lab Protein Synthesis Answer Key

Estridge, Ruth Reynolds



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Teaching Genetics in an Introductory Biology Course Kristina A. Porter, 2004 **Basic Medical Lab Techniques-Iml**
4e Estridge, Ruth Reynolds, 2000-05 *Safety Assessment of Genetically Modified Foods* Kunlun Huang, 2017-04-25 This book introduces readers to food safety assessment research on Genetically Modified Organisms (GMOs). As is broadly known, the main concerns about GM foods are adverse effects on health, the toxicity of nutrients, allergenicity, and unexpected effects. Before GMOs can be made commercially available, a comprehensive food safety assessment taking these concerns into account must first be performed. Exploring these aspects, the book is divided into two parts: the first part focuses on the safety assessment guidelines of the CAC, while the second highlights new methods used for the evaluation of GMO safety. Offering an essential practical guide, it will be of interest to researchers and graduate students in the fields of food science and public health. *Lab World*, 1975 **Agrindex**, 1994 *Cumulated Index Medicus*, 2000 **Index Medicus**, 2001
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The Engineering Index Bioengineering and Biotechnology Abstracts, 1989 *Memórias do Instituto de Butantan*, 2005 **Science Citation Index**, 1995 Vols for 1964 have guides and journal lists **Scientific and Technical Aerospace Reports**, 1991 Lists citations with abstracts for aerospace-related reports obtained from world-wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database
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