

POGIL: Protein Synthesis

The Central Dogma of Biology

Use the diagrams and text provided to answer the following questions.

Module 1: Pre-thinking questions

1. DNA provides the instructions for building which type of biological molecule? **Proteins**
2. Where is DNA located in a eukaryotic cell? Where is it located in a prokaryotic cell?
 ↳ **Nucleus** ↳ **Cytoplasm**
3. Which cellular structures are the "machines" that build proteins? Where are they located?
 ↳ **Ribosomes** ↳ **in the cytoplasm or rough er**
4. If DNA can't leave the nucleus, how do you think the DNA instructions get to the ribosomes in the cytoplasm?
mRNA copies the info (code) from DNA to make a protein.

Module 2: The flow of information in EUKARYOTIC cells

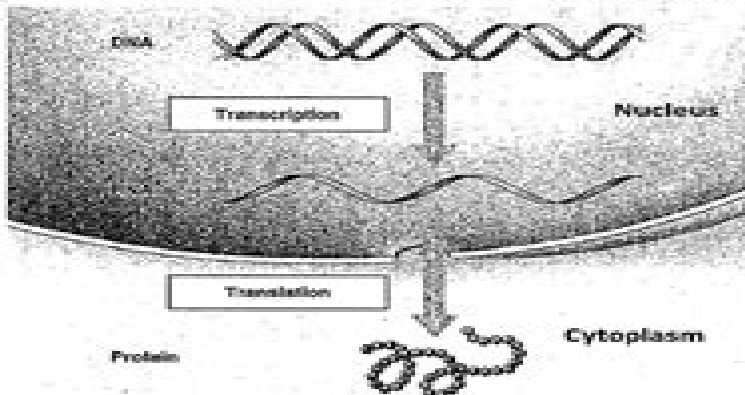


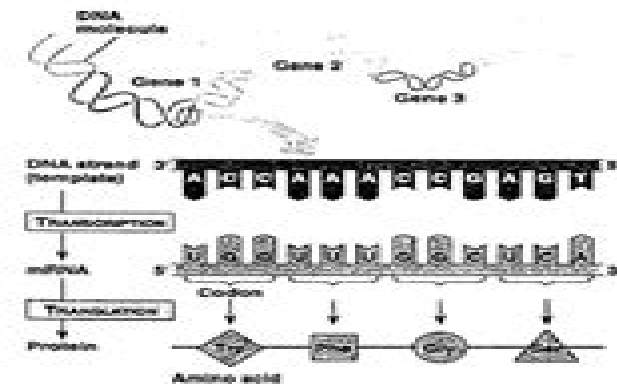
Figure 1: This figure shows the flow of information from DNA to a molecule called RNA (in the nucleus) and then to the creation of proteins (in the cytoplasm). We now know that RNA, which is similar but not identical to DNA, moves from the nucleus to the cytoplasm. RNA is a nucleic acid polymer composed of nucleotides like DNA. However, RNA has the sugar ribose and the nitrogen base uracil, instead of DNA's deoxyribose and thymine. Also RNA is a much smaller molecule than DNA.

5. Fill in the blank: **DNA → RNA → Protein**

6. List at least 3 differences between DNA and RNA.

DNA	RNA
deoxyribose	ribose = sugar
A, T, C, G	A, U, C, G - nitrogen bases
double strand	single strand

Figure 2: This figure shows the flow of genetic information in a little more detail. Examine this figure carefully, paying attention to the different labels.



7. What is the name of the process that uses DNA as a **template** to make mRNA? ("hint" it starts with a **T**) **Transcription**

8. Look at how the DNA and RNA complement each other. Which DNA base does the U in RNA pair with? How is this different from the base-pairing rules for DNA?

A pairs with U
NO T in RNA

9. What is the name of the process that uses mRNA to make a **protein**? ("hint" it also starts with a **T**) **Translation**

Pogil Activities For Ap Biology Biological Molecules Answers

F Rizvi

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Pogil Activities For Ap Biology Biological Molecules Answers:

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