

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?

The nucleus, in the cytoplasm

3. Which cellular structures are the "machines" that build proteins? Where are they located?

tRNA, the ribosomes and cytoplasm

4. If DNA can't leave the nucleus, how do you think the DNA instructions get to the ribosomes in the cytoplasm?

Transcription to RNA and RNA brings it in the cytoplasm.

Module 2: The flow of information in EUKARYOTIC cells

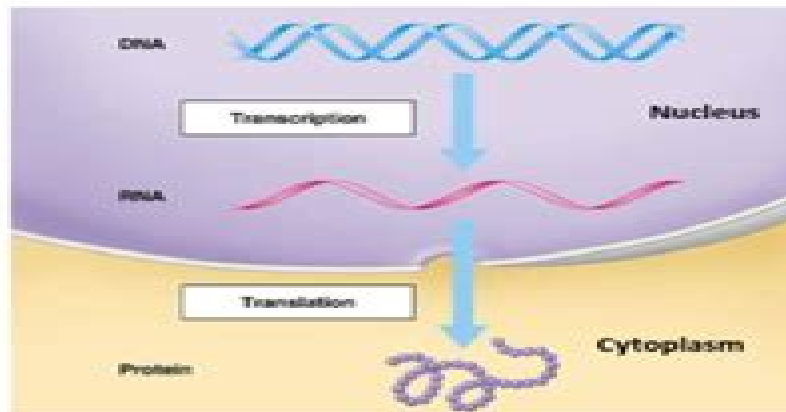


Figure 1: This figure shows the flow of information from DNA to a molecule called RNA (in the nucleus) and then to the creation of proteins (in the cytoplasm). We now know that RNA, which is similar but not identical to DNA, moves from the nucleus to the cytoplasm. RNA is a nucleic acid polymer composed 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.

1-DNA = double strand

RNA = single strand

2-DNA = thymine

RNA = uracil

3-DNA = Deoxyribose

RNA = ribose

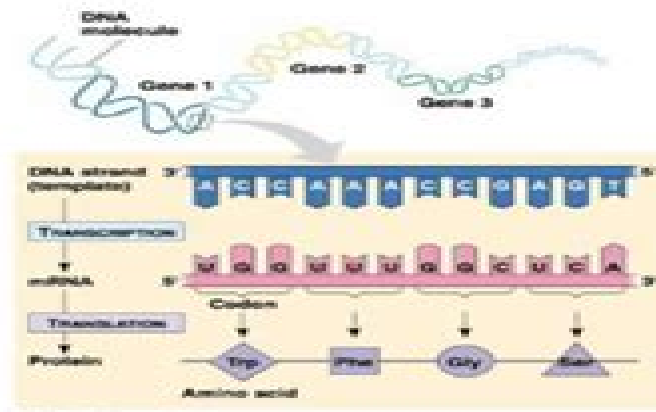


Figure 2: This figure shows the flow of genetic information in a little more detail. Examine this figure carefully, paying attention to the different labels.

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?

U pairs with A, in DNA T pairs with A

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

Translation

Science Biology Unit 07 Cellular Processes Protein Synthesis Answers

SJ Ball



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