

Modeling Protein Synthesis Lab

Objective: To simulate the process of protein synthesis, using paper clips.
To translate codons and identify the correct sequence of amino acids.

Hypothesis: In which strands do you expect to see similarities: DNA, complementary DNA, mRNA and/or tRNA?

Materials:

lab notebook

textbook

pencil

colored paper clips

Teal - Adenine

Green - Guanine

Pink - Cytosine

Silver - Thymine

White - Uracil

Procedure:

- 1) Using the paper clips and key above, make the following DNA strand:

TAC TGT CGA ACT

Have the teacher check it before continuing.

- 2) Make a chart in your lab book with the columns: DNA, DNA complement, mRNA, tRNA. Write the letters representing these nucleotide sequences in your chart.
- 3) Use the paper clips to construct the DNA complement, mRNA, and tRNA strands.
- 4) Using the genetic code, translate the mRNA strand in to the corresponding amino acid sequence and record it in your lab notebook (there should be four amino acids).

Results: Chart and amino acid sequence should be recorded in lab notebook.

Analysis:

- 1) What is DNA replication?
- 2) Compare and contrast transcription and translation.
- 3) What are the groups of three consecutive bases on an mRNA strand called?
- 4) What are the corresponding groups of three consecutive bases found on tRNA molecules called?
- 5) How is the tRNA base sequence similar to the original DNA strand?
- 6) What is the final product of translation?
- 7) Why is the genetic code referred to as universal?
- 8) Would a mutation in the original strand of DNA or in the transcription of the mRNA strand be more of a concern? Explain why.

Modeling Protein Synthesis Lab Answers

J Rink



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