

Lab # _____: Simulating Protein Synthesis with Pictures

Lab Skills: 13, 26, 27

Background: Genes are the units on the chromosomes that determine inherited characteristics such as hair color or blood type. Genes are lengths of DNA molecules whose sequence of nucleotides determine the sequence of amino acids in protein synthesis.

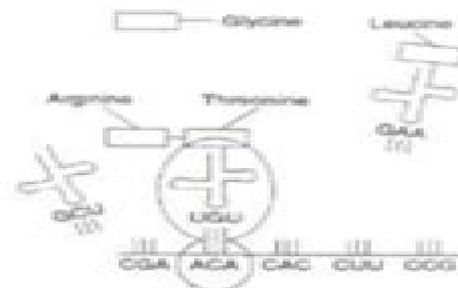
In a process called transcription that takes place in the nucleus of a cell, messenger RNA (mRNA) is formed by lining up nucleotides that are complementary to a DNA strand. The mRNA then carries this information in the form of a code to the ribosomes, where protein synthesis takes place. The code, in DNA or mRNA, specifies the order in which the amino acids are joined together to form a protein. The code words in mRNA, however, are not directly recognized by the corresponding amino acids. Another type of RNA called transfer RNA (tRNA) is needed to bring the amino acids to the mRNA on the ribosome. As the code on the mRNA is "read" on a ribosome, the proper tRNAs arrive in turn and give up the amino acids they carry to the growing protein chain. The process by which the information in the mRNA is transferred into a protein is called translation.

In this laboratory investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by fictitious organisms called CHNOPS. The name of the organism is actually an acronym for the elements that make up proteins: carbon, hydrogen, nitrogen, oxygen, phosphorus, and sulfur. CHNOPS, whose cells contain only one chromosome, are members of the Kingdom Animalia. The chromosome contains only seven genes (A through G), each of which is responsible for a certain trait. By completing this lab we will be able to illustrate exactly how DNA determines an organism's characteristics.

Hypothesis: If the DNA code determines which proteins are assembled by an organism's cells, then it determines an organism's..... (fill in the blank)

Procedure:

1. Start with Gene Information for CHNOPS 1.
2. To determine the trait for Gene A of your CHNOPS, you will fill in the information in the box labeled Gene A in the data table. To do this, first examine the sequence of nucleotides in the DNA of Gene A.
3. On the line provided, write the sequence of nucleotides of mRNA that are complementary to the DNA.
4. Then on the next line provided, write the sequence of nucleotides of tRNA that are complementary to the mRNA.
5. In order to determine the sequence of amino acids, match each tRNA triplet with the specific amino acid in Reference Table 1. Using a hyphen (-) to separate each amino acid number, record this information in the appropriate place in the data table.
6. Using Reference Table 2, find the trait that matches the amino acid sequence. Record this information in the appropriate place in the data table.
7. Repeat steps 2-6 for the remaining Gene B, Gene C, and so on through Gene G.
8. Using all of the inherited traits, sketch your CHNOPS in the space provided.
9. Then repeat the entire procedure for the Gene Information for CHNOPS 2.



From Dna To Protein Synthesis Lab

Eugene Garfield



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