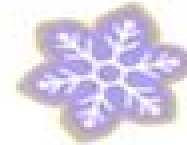


PROTEIN SYNTHESIS

PROTEIN SYNTHESIS COOKIE LAB



Objective

Simulate the process of protein synthesis by using a coded recipe (DNA) to make a sugar cookie (protein).

Background

Your cells use segments of DNA called genes to make specific proteins. These proteins have special jobs inside your cells and all over your body!

Today, we will walk through the process by starting with a gene, transcribing it into mRNA, and then translating it into a protein. Pay attention to what you are moving through during this lab and the terms assigned to each step.

Procedure

1. Travel to the nucleus to see your master gene recipe. **Remember** DNA does NOT leave the nucleus, so you cannot take the gene out of the nucleus.
2. Once you have found your gene recipe, create a **mRNA** by transcribing the DNA, strand by strand by writing down the bases that pair up with the ones on your gene.
 - a. They will be the only thing you leave the nucleus with, so double check that you've paired your bases up correctly!
3. Leave the nucleus through a nuclear pore to enter the cytoplasm.
4. Find a ribosome that will help you translate your gene recipe.
 - a. Use the **Cookie Chart** to translate your mRNA strand into amino acids.
5. Once you have all your amino acids, your teacher will double check your work.
6. When your teacher has approved amino acids, you can assemble your protein using other ingredients to complete your amino acids!
7. This protein is what you can eat and enjoy!
8. Answer the Discussion Questions while you enjoy your protein.

Key:

- Nucleus** = Nucleus
- DNA Gene** = Coded recipe
- mRNA** = Complementary copy of DNA
- Cytoplasm** = Cytoplasm
- Ribosome** = Table in Cytoplasm
- Amino Acids** = Ingredients
- Protein** = Finished Cookie

TEACHER PAGE

Overview

1 class period (about 45 min)

Background

This activity is designed to be a follow-up lab to the Protein Synthesis process. Each of the 3 genes during the lab is written on the worksheet.

Materials

- Worksheet - Cook
- Worksheet - Transcribe
- Worksheet - Translate
- Worksheet - Protein

Tips & Tricks

- 1. Students will be working in pairs.
- 2. If you have time, you can have students create their own protein.
- 3. If you have time, you can have students create their own protein.
- 4. If you have time, you can have students create their own protein.

PROTEIN SYNTHESIS

Directions - Read the DNA 3' to 5' and write the mRNA 5' to 3'.

Transcribe
Complement

COOKIE LAB

Class Favorite 3 Genes Grocery List

Lab 36 Protein Synthesis Teacher Guide

National Research Council of Canada

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the National Research Council of Canada text.

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