

## Simulating Protein Synthesis

### Pre-Lab Discussion

Genes are the units that determine inherited characteristics, such as hair color and blood type. Genes are lengths of DNA molecules that determine the structure of polypeptides (the building blocks of proteins) that our cells make. The sequence of nucleotides in DNA determines the sequence of amino acids in polypeptides, and thus the structure of proteins.

In a process called *transcription*, which takes place in the nucleus of the cell, messenger RNA (mRNA) reads and copies the DNA's nucleotide sequences in the form of a complementary RNA molecule. Then the mRNA 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 polypeptide. 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 mRNA and amino acids together. As the code carried by mRNA is "read" on a ribosome, the proper tRNAs arrive in turn and give up the amino acids they carry to the growing polypeptide chain. The process by which the information from DNA is transferred into the language of proteins is known as *translation*.

In this investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by fictitious organisms called CHNOPS. CHNOPS, whose cells contain only one chromosome, are members of the kingdom Animalia. A CHNOPS chromosome is made up of six genes (A, B, C, D, E, and F), each of which is responsible for a certain trait.

### Problem

How can the traits on a particular chromosome be determined? How can these traits determine the characteristics of an organism?

### Materials (per student)

Blue pencil  
Orange pencil

### Procedure

1. To determine the trait for Gene A of your CHNOPS, fill in the information in the box labeled Gene A in the Data Table. Notice the sequence of nucleotides in DNA. On the line provided, write the sequence of nucleotides of mRNA that are complementary to DNA. Then, on the line provided, write the sequence of nucleotides of tRNA that are complementary to mRNA.
2. In order to determine the sequence of amino acids, match each tRNA triplet with the specific amino acid in Figure 1. Using a - (hyphen) to separate each amino acid number, record this information in the appropriate place in the Data Table.
3. Using Figure 2, find the trait that matches the amino acid sequence. Record this information in the appropriate place in the Data Table.

# Simulating Protein Synthesis Answers

**Larry Engelking**



## **Simulating Protein Synthesis Answers:**

**Teaching to Learn** Kenneth George Tobin, 2006 A recurrent trope in education is the gap that exists between theory taught at the university and praxis what teachers do in classrooms How might one bridge this inevitable gap if new teachers are asked to learn to talk about teaching rather than to teach In response to this challenging question the two authors of this book have developed coteaching and cogenerative dialoguing two forms of praxis that allow very different stakeholders to teach and subsequently to reflect together about their teaching The authors have developed these forms of praxis not by theorizing and then implementing them but by working at the elbow of new and experienced teachers students supervisors and department heads Coteaching which occurs when two or more teachers teach together supports learning to teach while improving student achievement Cogenerative dialogues are conversations among all those who have been present in a lesson they ensure that what was learned while coteaching is beneficial for all coteachers and learners Tobin and Roth describe the many ways coteaching and cogenerative dialogues are used to improve learning environments dramatically improving teaching and learning across cultural borders defined by race ethnicity gender and language Teaching to Learn is written for science educators and teacher educators along the professional continuum new and practicing teachers graduate students professors researchers curriculum developers evaluation consultants science supervisors school administrators and policy makers Thick ethnographic descriptions and specific suggestions provide readers access to resources to get started and continue their journeys along a variety of professional trajectories

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## **Simulating Protein Synthesis Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Simulating Protein Synthesis Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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