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Student Exploration: RNA and Protein Synthesis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: amino acid, anticodon, codon, gene, messenger RNA, nucleotide, ribosome, RNA, RNA polymerase, transcription, transfer RNA, translation

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Suppose you want to design and build a house. How would you communicate your design plans with the construction crew that would work on the house?

To communicate my design plans with the construction crew, I would show them my plan and I would then tell them how to do it.

2. Cells build large, complicated molecules, such as proteins. What do you think cells use as their "design plans" for proteins?

I think cells use DNA as their "design plans" for proteins.

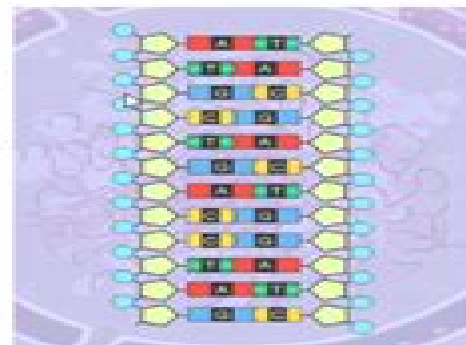
Gizmo Warm-up

Just as a construction crew uses blueprints to build a house, a cell uses DNA as plans for building proteins. In addition to DNA, another nucleic acid, called **RNA**, is involved in making proteins. In the *RNA and Protein Synthesis* Gizmo, you will use both DNA and RNA to construct a protein out of **amino acids**.

1. DNA is composed of the bases adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

Look at the SIMULATION pane. Is the displayed segment a part of a DNA or RNA molecule? How do you know?

It is a part of a DNA molecule, since there is a double helix.



2. **RNA polymerase** is a type of enzyme. Enzymes help chemical reactions occur quickly. Click the **Release enzyme** button, and describe what happens.

The enzymes split the hydrogens bonds in the middle.

Protein Synthesis Gizmo Answers

Carlo Bethaz, Vito Li Puma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author names.

Protein Synthesis Gizmo Answers:

New Scientist ,2006 New Scientist and Science Journal ,2006 **Protein Synthesis** Yoshito Kaziro,1971

Cell-free Protein Synthesis Alexander S. Spirin,James R. Swartz,2014-08-15 With its detailed description of membrane protein expression high throughput and genomic scale expression studies both on the analytical and the preparative scale this book covers the latest advances in the field The step by step protocols and practical examples given for each method constitute practical advice for beginners and experts alike *Protein Synthesis* Robin Martin,2010-11-10 The synthesis of proteins from 20 or so constituent amino acids according to a strictly defined code with an accuracy of better than 1 in 10 000 at most locations is arguably the most complex task performed by cells Protein Synthesis collects together methods and protocols covering a range of different approaches towards understanding how the cellular machinery accomplishes this task and how these functions might be harnessed by the biotechnology industry to generate novel and useful proteins The era in which the components of the translational machinery were being catalogued is over This volume gathers together protocols that focus on preserving and describing the dynamic function as closely as possible The need to understand exactly how ribosomes are positioned on messages or where tRNA molecules translation factors or control proteins are bound has been appreciated by many of the authors Several chapters that explore the fidelity and processivity of translation reflect this belief Moreover the fundamental importance of rRNA at the heart of the ribosome is a strong theme in a number of the protocols These articles include in vitro and in vivo systems from bacterial fungal plant and animal systems Overall Protein Synthesis might be characterized by the novelty of the approaches employed to illuminate the inner workings of the protein synthetic machinery as well as by the inventiveness of the attempts to harness these reactions for biotechnological applications

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Protein Synthesis Edwin H. McConkey,1976 **Protein Synthesis (majalah).** Edwin H. McConkey,1976

Translation and Protein Synthesis ,1999 **Protein Synthesis, A Series of Advances** Edwin H. McConkey,1971
Elements of Protein Synthesis Thomas Peter Bennett,1968 Protein Synthesis Mindy Levin,1983 **Initiation of**
Protein Synthesis ... C. Guthrie, **The Mechanism of Protein Synthesis** Cold Spring Harbor,1969 **Cell-free**
Protein Synthesis of Complex Proteins and Protein Assemblies Containing Post-translational Modification Aaron
Rudy Goerke,2007

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Protein Synthesis Gizmo Answers Introduction

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