



Name:

Date:

2/6/23

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, nitrogenous base, 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?

I would show them what my thinking is and see how we could make it happen.

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

I would think that cells use DNA as their "design plans" and result with protein.

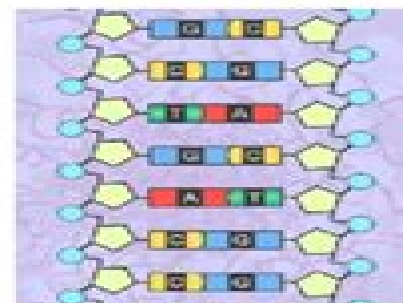
Gizmo Warm-up

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 **nitrogenous 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 the DNA because it's a double helix.



2. **RNA polymerase** is a type of enzyme. Enzymes help chemical processes occur quickly. Drag the yellow RNA polymerase molecule onto the DNA strand. Describe what happens.

The enzyme splits the DNA into two separated strands.

Answers To Rna And Protein Synthesis Gizmo

**Dolph L. Hatfield, Byeong J. Lee, Robert
M. Pirtle**

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

Answers To Rna And Protein Synthesis Gizmo:

RNA and Protein Synthesis Kivie Moldave, 2012-12-02 RNA and Protein Synthesis is a compendium of articles dealing with the assay characterization isolation or purification of various organelles enzymes nucleic acids translational factors and other components or reactions involved in protein synthesis One paper describes the preparatory scale methods for the reversed phase chromatography systems for transfer ribonucleic acids Another paper discusses the determination of adenosine and aminoacyl adenosine terminated sRNA chains by ion exclusion chromatography One paper notes that the problems involved in preparing acetyl aminoacyl tRNA are similar to those found in peptidyl tRNA synthesis in particular to the lability of the ester bond between the amino acid and the tRNA Another paper explains a new method that will attach fluorescent dyes to cytidine residues in tRNA it also notes the possible use of N hydroxysuccinimide esters of dansylglycine and N methylanthranilic acid in the described method One paper explains the use of membrane filtration in the determination of apparent association constants for ribosomal protein RNS complex formation This collection is valuable to bio chemists cellular biologists micro biologists developmental biologists and investigators working with enzymes

Protein Synthesis and Ribosome Structure Knud H. Nierhaus, Daniel Wilson, 2009-07-10 Knud Nierhaus who has studied the ribosome for more than 30 years has assembled here the combined efforts of several scientific disciplines into a uniform picture of the largest enzyme complex found in living cells finally resolving many decades old questions in molecular biology In so doing he considers virtually all aspects of ribosome structure and function from the molecular mechanism of different ribosomal ribozyme activities to their selective inhibition by antibiotics from assembly of the core particle to the regulation of ribosome component synthesis The result is a premier resource for anyone with an interest in ribosomal protein synthesis whether in the context of molecular biology biotechnology pharmacology or molecular medicine

Transfer RNA in Protein

Synthesis Dolph L. Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992 *RNA and Protein Synthesis in the Differentiation of the Lens* Alan T. H. Burns, 1975 [RNA and Protein Synthesis in the Differentiation of the Lens](#) Alan T. H. Burns, 1975

Protein Biosynthesis Alan E. Smith, 1976 A Halsted Press book

Protein Synthesis. Edwin H. McConkey, 1971

Protein Synthesis, A Series of Advances Edwin H. McConkey, 1971 **The Biosynthesis of Proteins** H.

Chantrenne, 1961 *RNA and Protein Synthesis During Cytodifferentiation in Fetal Rat Pancreas* John Willie Bynum, 1972

Answers To Rna And Protein Synthesis Gizmo Book Review: Unveiling the Magic of Language

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

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