

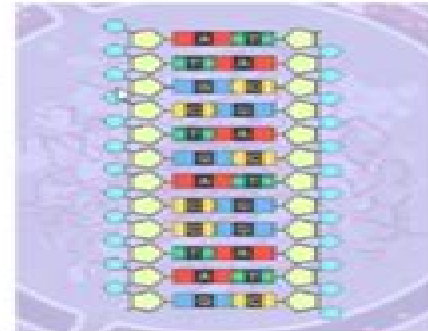
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## Student Exploration: RNA and Protein Synthesis

### 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?

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

### Activity A: Transcription

#### Get the Gizmo ready:

- If necessary, click **Release enzyme**.



**Introduction:** The first stage of building a protein involves a process known as **transcription**. In transcription, a segment of DNA serves as a template to produce a complementary strand of RNA. This complementary strand is called **messenger RNA**, or mRNA.

### Question: What occurs during transcription?

1. **Experiment:** Like DNA, RNA follows base-pairing rules. Experiment to find which RNA **nucleotide** on the right side of the Gizmo will successfully pair with the thymine at the top of the template strand of DNA. (NOTE: The DNA on the right side is the template strand.)

Which RNA base bonded with the thymine? \_\_\_\_\_

# Rna And Protein Synthesis Gizmo

**Anders Liljas**

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

## **Rna And Protein Synthesis Gizmo:**

**Transfer RNA in Protein Synthesis** Dolph Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992-07-27 Transfer RNA in Protein Synthesis is a comprehensive volume focusing on important aspects of codon usage selection and discrimination in the genetic code The many different functions of tRNA and the specialized roles of the corresponding codewords in protein synthesis from initiation through termination are thoroughly discussed Variations that occur in the initiation process in reading the genetic code and in the selection of codons are discussed in detail The book also examines the role of modified nucleosides in tRNA interactions tRNA discrimination in aminoacylation codon discrimination in translation and selective use of termination codons Other topics covered include the adaptation of the tRNA population to codon usage in cells and cellular organelles the occurrence of UGA as a codon for selenocysteine in the universal genetic code new insights into translational context effects and in codon bias and the molecular biology of tRNA in retroviruses The contributions of outstanding molecular biologists engaged in tRNA research and prominent investigators from other scientific disciplines specifically retroviral research make Transfer RNA in Protein Synthesis an essential reference work for microbiologists biochemists molecular biologists geneticists and other researchers involved in protein synthesis research **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 acetylaminoacyl 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 **Transfer RNA in**

**Protein Synthesis** Dolph L. Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992 **Ribosomes and Protein Synthesis** Gary Spedding, 1990 A practical and self contained introduction to methods of researching the structure and function of the ribosome in light of the increasing recognition of the potential capability of RNA molecules to act as molecular catalysts Also describes protein synthesis and cell free synthesizing systems Annotation copyrighted by Book News Inc Portland OR

*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 *Protein synthesis* ,1971 The Eureka Science Corporation presents information on protein synthesis as part of I Can Do That which offers science facts for children In protein synthesis ribosomes use a messenger RNA to determine which amino acid belongs where A specific group of amino acids is then joined together to form a protein **Protein Synthesis** Robin Martin,1998-08-04 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 loca tions 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 ftinctions 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

**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 **RNA and Protein Synthesis During Cytodifferentiation in Fetal Rat Pancreas** John Willie Bynum,1972 Effect of Double-stranded RNA on Protein Synthesis in Cell-free Systems Laurence Kay Grill,1975 *RNA and Protein Synthesis in Unfertilized and Embryonated Trout Eggs* William Louis Bourassa,1976 *DNA, RNA, and Protein Synthesis During the Mitotic Cell Cycle* Valerio Monesi,CNEN (Agency : Italy),1970 **Step by Step Review of Protein Synthesis (Quick Biology Review and Handout)** E Staff, Step by Step Review of Protein Synthesis Quick Biology Review and Handout Learn and review on the go Use Quick Review Biology Lecture Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Perfect for high school college medical and nursing students and anyone preparing for standardized examinations such as the MCAT AP Biology Regents Biology and more

Structural Aspects of Protein Synthesis Anders Liljas, 2004-01-01 This comprehensive and highly illustrated book provides a basic and up to date summary of translation on bacterial ribosomes with emphasis on the structural insights It is an attempt to present the ribosome and its functional activities in a coherent manner Two types of illustrations are used to describe the translation field simplified black and white illustrations to depict aspects of translation and color plates to give correct structural representations The book presents essentially all aspects of the translation system focusing on the relation between structure and function Upper level undergraduates and graduate students with an interest in protein synthesis will find this lecture notes volume invaluable The book is also an essential source of information for researchers who want to get an overview of translation     The Regulation of RNA and Protein Synthesis During Neuronal Death Gwenn A. Garden, 1994

*The Effect of Messenger RNA on Protein Synthesis in Echinoid Eggs and Zygotes* Anita Marie Colin, 1985     **Protein Synthesis and the RNA Code** Marshall W. Nirenberg, 1965     **Studies on the Regulation of RNA and Protein Synthesis in Cultured Mammalian Cells** William McCormick, 1968     **Gene Expression** Brian F. C. Clark, Hans Klenow, Jesper Zeuthen, 1978

## Whispering the Strategies of Language: An Psychological Quest through **Rna And Protein Synthesis Gizmo**

In a digitally-driven earth where screens reign great and instant interaction drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within phrases frequently go unheard. However, located within the pages of **Rna And Protein Synthesis Gizmo** a interesting fictional value blinking with natural thoughts, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, this marvelous opus invites readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within ab muscles cloth of each word. Within the psychological depths of the emotional review, we shall embark upon a sincere exploration of the book is primary styles, dissect their fascinating writing type, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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### **Rna And Protein Synthesis Gizmo Introduction**

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