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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.

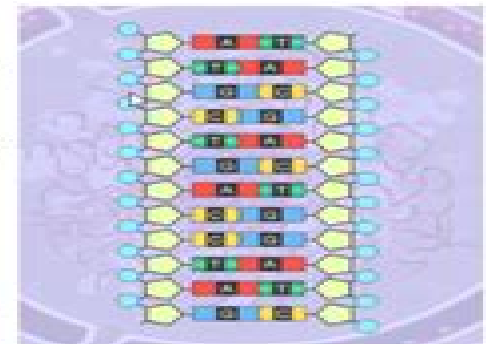
Gizmo Warm-up

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

H R V Arnstein



Protein Synthesis Gizmo Answers:

New Scientist ,2006 **New Scientist and Science Journal** ,2006 **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 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 **Protein Synthesis** Barbara L. Rosenberg,TVOntario,1985 **Carbohydrate and Protein Synthesis** ,1978 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 Cell-Free Protein Synthesis Kirill Alexandrov,Wayne A. Johnston,2016-08-27 Cell free protein expression promises to narrow the technological gap between DNA and protein technologies and provide a platform for broad application of synthetic biology principles in the Life Sciences It is a rapid and high throughput methodology for the conversion of DNA encoded genetic information into protein mediated biochemical activities Cell Free Protein Synthesis Methods and Protocols brings together the key opinion leaders of cell free technology development and provides case studies and detailed protocols for the application of cell free methodology Chapters cover the main directions in the development of cell free technologies including several recently developed cell free systems as well as a number of applications of cell free systems ranging from discovery of biofuel enzymes to in vitro assembly of viruses

Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible Cell Free Protein Synthesis Methods and Protocols seeks to serve a wide variety of scientists with its well honed methodologies *Proteins* Geoffrey Allen,1997-12-01 **Extending the Scope of Protein Synthesis by a Novel Auxiliary-based Native Chemical Ligation Strategy** Christina Nadler,2013-09-18 Protein Synthesis Edwin H. McConkey,1976 DNA and Protein Synthesis (videorecording). Biochemical Society (United Kingdom), **Protein Synthesis** Nicola Robertson,1996 **Protein Synthesis (majalah)**. Edwin H. McConkey,1976 **Translation and Protein Synthesis** ,1999 Elements of Protein Synthesis Thomas Peter Bennett,1968 *The Mechanism of Protein Synthesis* Cold Spring Harbor,1969 Initiation of Protein Synthesis ... C. Guthrie, **Protein Synthesis** H R V Arnstein,1989-01-01 **Factors affecting the interrelationships involved in protein synthesis** Peter B. Hill,1960

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Protein Synthesis Gizmo Answers**

In some sort of inundated with screens and the cacophony of quick interaction, the profound energy and emotional resonance of verbal artistry usually disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, situated within the lyrical pages of **Protein Synthesis Gizmo Answers**, a fascinating perform of literary beauty that pulses with fresh emotions, lies an unforgettable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this mesmerizing opus instructions viewers on a psychological odyssey, softly revealing the latent potential and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their interesting writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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