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Date: March 22, 2021

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?

I would probably draw, so they could have a visual of what design I want.

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

I think it's their DNA.

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**.

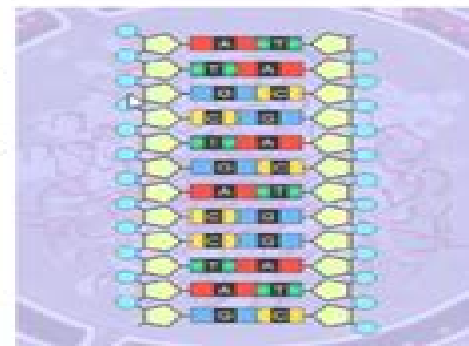
1. DNA is composed of the bases adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

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

DNA, because there's Thymine (T) bases instead of Uracil (U).

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

The two strands of the DNA are separated.



Explore Learning Rna And Protein Synthesis Lab Answers

Huangqi Zhang



Explore Learning Rna And Protein Synthesis Lab Answers:

Echinoderms Part B, 2019-04-02 Echinoderms Volume 151 the latest release in the Methods in Cell Biology series highlights advances in the field with this update presenting chapters on Echinoderm Genome Databases analysis of gene regulatory networks using ATAC seq and RNA seq to increase resolution in GRN connectivity multiplex cis regulatory analysis experimental approaches GRN signal pathways BACs analysis of chromatin accessibility using ATAC seq analysis of sea urchin proteins Click IT CRISPR Cas9 mediated genome editing in sea urchins super resolution and in toto imaging of echinoderm embryos and methods for analysis of intracellular ion signals in sperm eggs and embryos Presents clear concise protocols provided by experts who have established the echinoderms as a model systems Highlights new advances in the field with this update presenting interesting chapters on echinoderms **Discover the World of Microbes** Gerhard

Gottschalk, 2012-09-12 This title is an essential primer for all students who need some background in microbiology and want to become familiar with the universal importance of bacteria for all forms of life Written by Gerhard Gottschalk Fellow of the American Academy of Microbiology and one of the most prominent microbiologists in our time this text covers the topic in its whole breadth and does not only focus on bacteria as pathogens The book is written in an easy to read entertaining style but each chapter also contains a facts section with compact text and diagrams for easy learning In addition more than 40 famous scientists including several Nobel Prize winners contributed sections written specifically for this title The book comes with color figures and a companion website with questions and answers Key features Unique introductory text offering a comprehensive overview of the astonishing variety and abilities of Bacteria Easy to read fascinating and educational Written by one of the best known microbiologists of our time Color images throughout Each chapter has a compact tutorial part with schemes on the biochemistry and metabolic pathways of Bacteria Comes with a companion website with questions and answers *Modules* McDougal Littell Incorporated, 2005 **Synaptic Tagging and Capture** Sreedharan Sajikumar, Ted

Abel, 2024-04-25 This reference presents a detailed exploration of the synaptic tagging and capture model which has been proposed to provide a conceptual basis for how short term memories are transformed into long term memories The first edition of Synaptic Tagging and Capture served as a comprehensive introduction and overview of the field and covered the topics from molecular and cellular aspects to behavior This second edition reflects the overwhelming amount of research on the topic in the past five years Notably it provides greater insight into the molecular and cellular mechanisms and behavioral aspects of tagging and capture including reconsolidation computational and metaplastic models Synaptic Tagging and Capture From Synapses to Behavior 2nd edition remains the definitive work in the field **Raising Genomics Literacy, Knowledge, and Awareness** Azhar T. Rahma, George P. Patrinos, 2025-05-23 Raising Genomics Literacy Knowledge and

Awareness is a unique resource which describes the importance of genomic literacy for the effective and streamlined implementation of genomic medicine and pharmacogenomics globally It provides evidence and expert opinion to decipher the

role of genomic and pharmacogenomic literacy to illustrate the evidence value and need of raising genomics awareness and education among healthcare professionals students and the general public This text can be used by researchers and graduate students pursuing research in this area Presents hot topics such as genomic literacy and social media Includes educational tools for raising genomics literacy Provides frameworks and determinants of genomic literacy knowledge and awareness

Behavioural Biology Abstracts ,1985 **Machine learning-based methods for RNA data analysis, volume II**

Lihong Peng,Jialiang Yang,Liqian Zhou,Minxian Wallace Wang,2023-01-02 Biology Eric Strauss,Marylin Lisowski,2000

Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Research and*

Development in Progress U.S. Atomic Energy Commission. Division of Biology and Medicine,1968 *Understanding*

Nutrition Eleanor Noss Whitney,Sharon Rady Rolfes, MS, RDN,Tim Crowe,Adam Walsh,2019-08-30 Building upon Ellie Whitney and Sharon Rady Rolfes classic text this fourth Australian and New Zealand edition of Understanding Nutrition is a practical and engaging introduction to the core principles of nutrition With its focus on Australia and New Zealand the text incorporates current nutrition guidelines recommendations and public health nutrition issues relevant to those studying and working in nutrition in this region of the world A thorough introductory guide this market leading text equips students with the knowledge and skills required to optimise health and wellbeing The text begins with core nutrition topics such as diet planning macronutrients vitamins and minerals and follows with chapters on diet and health fitness life span nutrition and food safety Praised for its consistent level and readability careful explanations of all key topics including energy metabolism and other complex processes this is a book that connects with students engaging them as it teaches them the basic concepts and applications of nutrition **Animal Behaviour Abstracts** ,1985 **Air Force Research Resumés** , **Biology**

,1993 **Research/Penn State** ,1991 **Toxicology Research Projects Directory** ,1979 *Graduate Studies* ,1977

LBL Research Review ,1985 Cumulated Index Medicus ,1968 **Instructor's Manual to Accompany Maternity**

Nursing Helen L. Van Hoozer,1999

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