

Student Exploration: RNA and Protein Synthesis

Prior Knowledge Question (Discuss with your classmates before class.)

1. Replicate your name multiple and build a tower. What could you demonstrate your design plans with the construction materials that could construct the tower?

[Possible design plans: paper, cardboard, rubber bands, string, plastic, etc.]

2. Constructive design: individualized construction materials provided. Illustrate your design plans with your design plans? Is possible?

[Illustrate your design plans for building proteins]

Answer the questions

Just as a construction crew uses blueprints to build a house or tower, a cell uses coded messages for building its proteins. Its messages are called **messenger RNA**, called **mRNA**. It contains an **instructions** for building proteins. The two letters and **phosphate** groups are called **base** and **sugar** groups. The structure is a **double helix** of **base pairs**.

3. What is messenger RNA? Messenger RNA (mRNA) is a single-stranded molecule that carries the genetic information from the DNA to the ribosome, where it is used to synthesize proteins. It is composed of a sequence of nucleotides, each consisting of a phosphate group, a sugar, and a nitrogenous base. The bases are paired with the bases on the DNA template strand to form a double helix structure.

[Answer the questions: messenger RNA]

4. **Protein synthesis** is a process by which a cell uses the information in messenger RNA to synthesize a protein. The process involves two main steps: **transcription** and **translation**.

[In transcription, messenger RNA is synthesized from a DNA template. In translation, the messenger RNA is used to synthesize a protein.]



Explorer Learning Rna And Protein Synthesis Example Answers

Xiang Xie



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Educational Technology ,1973 **Assessments and Conservation of Biological Diversity from Coral Reefs to the Deep Sea** Jose Victor Lopez,2023-11-30 Assessments and Conservation of Biological Diversity from Coral Reefs to the Deep Sea Uncovering Buried Treasures and the Value of the Benthos examines marine benthic habitats around the world that are linked by their physical location at the bottom of the oceans The book approaches deep sea marine biodiversity with perspectives on genetics microbiology and evolution weaving a narrative of vital expert linkages with the goal of protecting something that most people cannot witness or experience It provides a full assessment of biological diversity within benthic habitats from coral reefs to plankton and fish species and offers global case studies It is the ideal resource for marine conservationists and biologists aiming to expand their knowledge and efforts to the rarely seen yet equally important realms of the ocean and respective benthic species As these deep sea ecosystems and their species face unprecedented threats of destruction and extinction due to factors including climate change this book provides the most current knowledge of this undersea world along with solutions for its conservation Compares and contrasts between shallow and marine habitats to reveal revolutionary connections and continuity Analyzes modern threats and gaps in biological knowledge regarding benthic communities Examines benthic biodiversity through vertical vs horizontal gradients Poses possible solutions for the conservation of benthic habitats and organisms Scientific American Reader to Accompany Gray's Psychology ,2007-08-10 Eight articles selected by Peter Gray from the pages of Scientific American Machine learning for biological sequence analysis Quan Zou,Zhibin Lv,2023-03-09 **Research Publications** Association for Research in Nervous and Mental Disease,1987 Molecular Biology Nancy Craig,Rachel Green,Orna Cohen-Fix,Carol Greider,Gisela Storz,Cynthia Wolberger,2014-05 The biological world operates on a multitude of scales from molecules to tissues to organisms to ecosystems Throughout these myriad levels runs a common thread the communication and onward passage of information from cell to cell from organism to organism and ultimately from generation to generation But how does this information come alive to govern the processes that constitute life The answer lies in the molecular components that cooperate through a series of carefully regulated processes to bring the information in our genome to life These components and processes lie at the heart of one of the most fascinating subjects to engage the minds of scientists today molecular biology Molecular Biology Principles of Genome Function Second Edition offers a fresh approach to the teaching of molecular biology by focusing on the commonalities that exist between the three kingdoms of life and discussing the differences between the three kingdoms to offer instructive insights into molecular processes and components This gives students an accurate depiction of our current understanding of the conserved nature of molecular biology and the differences that underpin biological diversity Additionally an integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome

function by presenting them as themes that recur throughout the book rather than as artificially separated topics As an experimental science molecular biology requires an appreciation for the approaches taken to yield the information from which concepts and principles are deduced Experimental Approach panels throughout the text describe research that has been particularly valuable in elucidating difference aspects of molecular biology Each panel is carefully cross referenced to the discussion of key molecular biology tools and techniques which are presented in a dedicated chapter at the end of the book Molecular Biology further enriches the learning experience with full color artwork end of chapter questions and summaries suggested further readings grouped by topic and an extensive glossary of key terms Features A focus on the underlying principles of molecular biology equips students with a robust conceptual framework on which to build their knowledge An emphasis on their commonalities reflects the processes and components that exist between bacteria archae and eukaryotes Experimental Approach panels demonstrate the importance of experimental evidence by describing research that has been particularly valuable in the field Modules McDougal Littell Incorporated,2005 *Scientific American Explores the Hidden Mind* Scientific American,2002-05-15 Free when packaged with any Worth text This special collector s edition features articles that reveal the mysterious inner workings of mind and brain Behavioural Biology Abstracts ,1985

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