

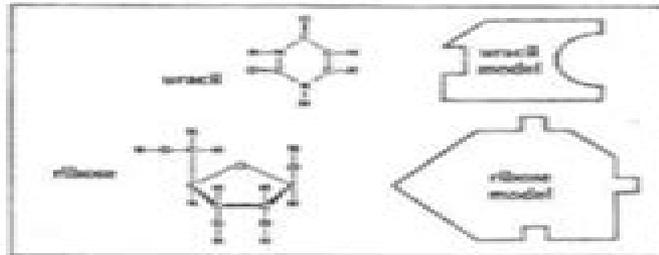
Answer Key

Protein Synthesis Paper Lab

Part A: RNA Structure

Besides ensuring the exact replication of chromosomes, the order of the bases is a genetic code of instructions for the cell. How does the cell "read" the chemical message coded in its DNA?

Part of the answer lies with a second molecule present in cells called **ribonucleic acid (RNA)**. RNA is similar to DNA in that it is made of nucleotides. However, there is no deoxyribose or thymine in RNA. Deoxyribose is replaced by **ribose** in RNA, and thymine is replaced by **uracil**. If you look at their structural formulas and models, you will see that ribose and uracil are similar to the molecules they replace.



1. Which base is replaced by uracil in RNA?

_____ *thymine* _____

2. What molecule replaces deoxyribose in RNA?

_____ *ribose* _____

3. To which base in DNA do the following RNA bases pair?

Guanine _____ *cytosine* _____

Adenine _____ *uracil* _____

Cytosine _____ *guanine* _____

Uracil _____ *adenine* _____

Part B: RNA Transcription

Open (unzip) one of your DNA models between the base pairs and separate the two halves. Using the *left side* of your DNA model as a pattern, match up the proper RNA nucleotides with the DNA nucleotides. You have made a *messenger RNA* molecule.

C
T
G
A
G
C

4. Do the RNA half-rung bases pair exactly as they would if this were DNA replication? not exactly

Remove the RNA nucleotide series from the DNA pattern. Close the DNA molecule back up with its original right side. DNA molecules "unzip" temporarily during **RNA transcription** and then zip closed again.

mRNA is a single-stranded molecule. Thus, the sequence of RNA nucleotides formed from DNA represents a complete mRNA molecule. After its formation, this mRNA leaves the nucleus and goes to where the ribosomes are. It carries the DNA message of base sequences in the exact same order out of the nucleus and into the cytoplasm.

On this table compare DNA and RNA, check all that apply:

	DNA	mRNA
Deoxyribonucleic Acid		
Ribonucleic Acid		
Contains the sugar deoxyribose		
Contains sugar ribose		
Contains a phosphate group		
Contains adenine		
Contains thymine		
Contains uracil		
Contains guanine		
Contains cytosine		
Monomers are nucleotides		
Double-strand molecule		
Single-strand molecule		
Leaves/moves out of the nucleus		
Contains a chemical code		

Dna And Rna Lab 24 Answer Key

Chao Zhang



Dna And Rna Lab 24 Answer Key :

AP Biology Prep Plus 2020 & 2021 Kaplan Test Prep, 2020-07-07 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam. This edition features hundreds of practice questions in the book, complete explanations for every question, and a concise review of high yield content to quickly build your skills and confidence. Test like practice comes in 3 full length exams, 16 pre chapter quizzes, and 16 post chapter quizzes. Customizable study plans ensure that you make the most of the study time you have. We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book, you'll score higher on the AP exam or you'll get your money back. To access your online resources, go to kaptest.com moreonline and follow the directions. You'll need your book handy to complete the process. The College Board has announced that the 2021 exam dates for AP Biology will be May 14, May 27, or June 11 depending on the testing format. Each school will determine the testing format for their students. Expert Guidance. We know the test, our AP experts make sure our practice questions and study materials are true to the exam. We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day. We invented test prep. Kaplan kaptest.com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges.

Visualizing Anatomy and Physiology Craig

Freudenrich, Gerard J. Tortora, 2011-08-24 *Visualizing Anatomy and Physiology* is a visually powerful textbook illustrated for maximum pedagogical effect up to the minute in all aspects of anatomical science and physiology that provides motivating and engaging content as well as clinical and everyday relevance of the science of the discipline.

Microbial Symbiosis of Marine Sessile Hosts - Diversity, Function and Applications Suhelen Egan, Torsten Thomas, 2015-12-21

Modern molecular omics tools, metagenomics, metaproteomics, etc. have greatly contributed to the rapid advancement of our understanding of microbial diversity and function in the world's oceans. These tools are now increasingly applied to host associated environments to describe the symbiotic microbiome and obtain a holistic view of marine host microbial interactions. Whilst all eukaryotic hosts are likely to benefit from their microbial associates, marine sessile eukaryotes including macroalgae, seagrasses, and various invertebrates (sponges, acidians, corals, hydroids, etc.) rely in particular on the function of their microbiome. For example, marine sessile eukaryotes are under constant grazing, colonization, and fouling pressure from the millions of micro and macroorganisms in the surrounding seawater. Host associated microorganisms have been shown to produce secondary metabolites as defense molecules against unwanted colonization or pathogens, thus having an important function in host health and survival. Similarly, microbial symbionts of sessile eukaryotes are often essential players in local nutrient cycling, thus benefiting both the host and the surrounding ecosystem. Various research fields have contributed to generating knowledge of host associated systems, including microbiology, biotechnology, molecular biology, ecology, evolution, and biotechnology. Through a focus on model marine sessile host systems, we believe that new insight into

the interactions between host and microbial symbionts will be obtained and important areas of future research will be identified This research topic includes original research review and opinion articles that bring together the knowledge from different aspects of biology and highlight advances in our understanding of the diversity and function of the microbiomes on marine sessile hosts

AP Biology For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Brian Peterson,2008-06-02

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Nucleic Acids Abstracts ,1996

BioScan ,2009

Biologija ,1998

Nuclear Science Abstracts ,1971

Genetic Engineering & Biotechnology News ,2009

Science ,2011

Federation Proceedings Federation of American Societies for Experimental Biology,1982 Vols for 1942 include proceedings of the American Physiological Society

Toxicology Abstracts ,1986 Includes annual author and subject indexes

Energy Research Abstracts ,1984

New Scientist and Science Journal ,2009

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