

## Quiz 9 Review- DNA, Protein Synthesis, and The Cell Cycle

Use the following review sheet to help you prepare for the quiz on Tuesday, April 1st. In addition to this review sheet, you should look over your notes and the sources posted in the "Protein Synthesis" and "Cell Cycle" sections of my website.

### DNA structure and function:

What is the primary function of DNA?

To store genetic information and provide instructions for cell functions.

DNA takes the shape of a double helix.

nucleotides are the monomers of DNA.

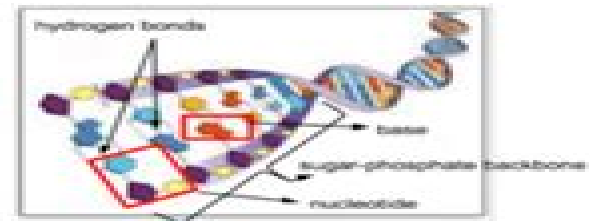
Label the diagram to the left with the following words:

Hydrogen bonds

Sugar-phosphate backbone

Base

Nucleotide



During DNA replication A pairs with T and C pairs with G.

### Protein Synthesis:

Why are proteins so important to the cell?

Proteins carry out nearly all cellular processes.

What is the monomer of protein?

amino acids

What happens during transcription? What happens during translation?

**transcription-** DNA unzips→ mRNA message is made→ mRNA goes to cytoplasm

**translation-** mRNA binds to ribosome→ ribosome reads in codons (3 nucleotides) → ribosome pairs tRNA with codon → tRNA brings amino acid to ribosome→ amino acid chain pops off and folds into protein.

Transcribe and translate the DNA sequence below into an amino acid chain. Use your codon wheel to determine the amino acid.

<b>DNA</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>T</b>	<b>T</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>A</b>
<b>mRNA</b>	U	A	C	C	G	G	U	G	A	A	U	C	C	G	U
<b>tRNA</b>	A	U	G	G	C	C	A	C	U	U	A	G	G	C	A
<b>Amino Acids</b>	MET			ALA			THR			TER			ALA		

# Science Biology Unit Cellular Processes Protein Synthesis Test

**C Cleary**



## **Science Biology Unit Cellular Processes Protein Synthesis Test:**

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**Artificial Life IX** Jordan B. Pollack, 2004 Proceedings from the ninth International Conference on Artificial Life papers by scientists of many disciplines focusing on the principles of organization and applications of complex life like systems Artificial Life is an interdisciplinary effort to investigate the fundamental properties of living systems through the simulation and synthesis of life like processes The young field brings a powerful set of tools to the study of how high level behavior can arise in systems governed by simple rules of interaction Some of the fundamental questions include What are

the principles of evolution learning and growth that can be understood well enough to simulate as an information process Can robots be built faster and more cheaply by mimicking biology than by the product design process used for automobiles and airplanes How can we unify theories from dynamical systems game theory evolution computing geophysics and cognition The field has contributed fundamentally to our understanding of life itself through computer models and has led to novel solutions to complex real world problems across high technology and human society This elite biennial meeting has grown from a small workshop in Santa Fe to a major international conference This ninth volume of the proceedings of the international A life conference reflects the growing quality and impact of this interdisciplinary scientific community

**The Molecular Biology of Cancer** Stella Pelengaris, Michael Khan, 2013-03-13 The Molecular Biology of Cancer Stella Pelengaris each chapter builds on concepts learned in previous chapters with a list of key outstanding questions remaining in the field suggestions for further reading and questions for student review All chapters contain text boxes that provide additional and relevant information Key highlights are listed below An overview of the cancer cell and important new concepts Selected human cancers lung breast colorectal prostate renal skin cervix and hematological malignancies Key cellular processes in cancer biology including a traditionally important areas such as cell cycle control growth regulation oncogenes and tumour suppressors apoptosis as well as b more highly topical areas of apoptosis telomeres DNA damage and repair cell adhesion angiogenesis immunity epigenetics and the proteasome Clinical oncology In depth coverage of important concepts such as screening risk of cancer and prevention diagnoses managing cancer patients from start to palliative care and end of life pathways Chapters highlighting the direct links between cancer research and clinical applications New coverage on how cancer drugs are actually used in specific cancer patients and how therapies are developed and tested Systems Biology and cutting edge research areas covered such as RNA interference RNAi Each chapter includes key points chapter summaries text boxes and topical references for added comprehension and review Quotations have been used in each chapter to introduce basic concepts in an entertaining way Supported by a dedicated website at [www.blackwellpublishing.com/pelengaris](http://www.blackwellpublishing.com/pelengaris) We should list the great reviews we got for first edition which are on the back of the 2nd edition A capturing comprehensive clearly written and absolutely accurate introduction into cancer biology This book deserves great praise for the readable presentation of this complex field the true synthesis of bench and bedside approaches is marvelously achieved Christian Schmidt Molecular Cell Chapters address the issues of cancer diagnosis treatment and patient care and set the book apart from general molecular biology references This book is applicable to both graduate and undergraduate students and in the context of a research laboratory this book would be an excellent resource as a reference guide for scientists at all levels V Emuss Institute of Cancer Research London Also from the first edition Pelengaris Khan and the contributing authors are to be applauded The Molecular Biology of Cancer is a comprehensive and readable presentation of the many faces of cancer from molecular mechanisms to clinical therapies and diagnostics This book will be welcomed by

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especially multiscale modeling and coupled simulations The cardiovascular and respiratory systems are tightly coupled as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells Because physiological conduits have deformable and reactive walls macroscopic flow behavior and prediction must be coupled to nano and microscopic events in a corrector scheme of regulated mechanisms Therefore investigation of flows of blood and air in physiological conduits requires an understanding of the biology chemistry and physics of these systems together with the mathematical tools to describe their functioning The present volume is devoted to cellular events that allow adaptation to environmental conditions particularly mechanotransduction It begins with cell organization and a survey of cell types in the vasculature and respiratory tract It then addresses cell structure and functions especially in interactions with adjoining cells and matrix

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**Nuclear Science**

**Abstracts**, 1968-07

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