

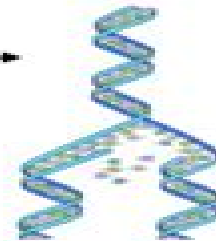
DNA, RNA, & Protein Synthesis Review

1. A nucleotide does NOT contain
a) a lipid b) a nitrogen base c) a phosphate group d) a 5-carbon sugar
2. The diagram to the right shows the process of DNA...
a) replication b) transcription c) translation d) transformation
3. In mRNA, each codon codes for a particular
a) ribose b) nucleotide c) amino acid d) DNA
4. A defined section of DNA that codes for a specific protein is called a...
a) gene b) ribose c) phosphate d) tRNA
5. The main enzyme involved in linking individual nucleotides into DNA molecules is called:
a) transfer RNA b) ribose c) gene d) DNA polymerase
6. During replication, which sequence of nucleotides would bond with the DNA sequence of ATGCA?
a) ATGCA b) GCATG c) TACGT d) TAGCT e) ACGTA
7. Changes in the DNA sequence that affect genetic information are known as...
a) transformations b) mutations c) replications d) prokaryotes
8. Which of the following does NOT describe the structure of DNA?
a) double helix b) contains A-U pair c) sugar-phosphate backbone d) double-stranded
9. The job of tRNA is to...
a) send the mRNA out into the cytoplasm b) block translation c) deliver amino acids to the mRNA strand d) replicate DNA
10. The process by which a gene is transferred into a plasmid that is then transferred into bacteria, followed by expression of the gene, is called:
a) replication b) transcription c) translation d) bacterial transformation
11. A scientist analyzed several DNA samples to determine the proportions of G's and C's to A's and T's. Which sample(s) support the base-pairing rule? EXPLAIN YOUR ANSWER, DEFINING WHAT THE BASE-PAIRING RULE IS.

Sample				
% of Bases in Three Samples of DNA				
Sample	G	C	A	T
A	10	10	40	40
B	30	20	30	20
C	25	25	25	25

A and C support the base-pairing rule (that states that adenine always pairs with thymine; guanine pairs with cytosine) because for every G that is present it would be expected that a C would be present (equal percentages of each); same with A and T. Both A and C numbers support this rule.

12. What is the complimentary (matching) strand to the single DNA strand below?
ATCGTCATTGGAATGA
TACGAGTAAGCTTACT
13. Transcribe the single strand of DNA (shown below) into mRNA.
AGTCGTAGG
UCAGCAUCC



Chapter 1lab From Dna To Protein Synthesis Answers

Paul Delos Boyer



Chapter 1lab From Dna To Protein Synthesis Answers:

Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

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 *DNA and Protein Synthesis (videorecording)*. Biochemical Society (United Kingdom), Structure of DNA & Protein Synthesis ,2006 **Chemical Protein Synthesis** Xuechen Li, 2022-06-27 This volume provides updated protocols for chemical protein synthesis Chapters guide readers through development methods strategies and applications of protein chemical synthesis Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Chemical Protein Synthesis aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge From DNA to Protein Maria Szekely, 1982 **Dna and Protein Synthesis - Biochemical Basis of Biology** E. M. Evans, E. J. Wood, 1987 *DNA* Gary Parker, W. Ann Reynolds, Rex Reynolds, 1975 *Protein Biosynthesis* Alan E. Smith, 2012-12-06 46 3 2 mRNA metabolism 47 3 3 Initiation complex formation 3 3 1 Binding of initiator tRNA 47 3 3 2 Binding of messenger RNA 50 3 4 Elongation 56 3 5 Termination of protein biosynthesis and post translational modification 59 RNA phage protein synthesis 61 3 6 References 63 Index 64 1 Introduction possible control processes operating to adjust 1 1 The problem protein synthesis to the needs of the cells and The discovery that the genetic material of organism It will be assumed that the reader has living organisms is DNA and the later de some knowledge of molecular biology in gen monstration that the DNA molecule is a eral and protein biosynthesis in particular but double helix were both great milestones in twentieth century science and formed the by way of introduction each of the major molecules and stages of the process will be foundation of the new discipline of molecular described in simple terms and in subsequent biology But even after these momentous dis chapters each will be discussed

again in coveries the detailed mechanism by which such genetic material could be expressed as the struc greater depth tural
and catalytic proteins which play so im portant a role in the functioning of all living 1 2 Overall steps in protein biosynthesis
The information encoded in the two comple cells was still not obvious *DNA Makes RNA Makes Protein* Tim Hunt,1983

From DNA to Protein Maria Szekely,1982-01-01 *The Enzymes* Paul D. Boyer,1974 *The Enzymes* Paul Delos
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Niederman,1976 *The Enzymes* Paul Delos Boyer,1974 **The Enzymes** Paul D. Boyer,1974 *Discovery, the Search*
for DNA's Secrets Mahlon B. Hoagland,1983 **The Molecules of Life** Russ Hodge,2009 *Single-stranded DNA as a*
Template for in Vitro Protein Synthesis ,1966

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