

REVIEW SHEET

Unit 6 Quiz # 2 DNA/RNA, Transcription, Translation, Protein Synthesis, & Mutations

1. What is "DNA" an abbreviation for? **Deoxyribonucleic acid**
2. What is "RNA" an abbreviation for? **ribonucleic acid**
3. DNA holds the instructions to tell cells how to make _____ **proteins** _____.
4. In RNA which bases always pair together? **adenine & uracil** **cytosine & guanine**
5. Where is mRNA made in a cell? **Nucleus**
6. How is mRNA made? What is the name of the process? Where does this happen?
 - **DNA (for the gene for the protein that is needed) acts as a template. The DNA unzips in the area of that gene & free RNA nucleotides pair up with the bases on the DNA, those RNA nucleotides bond together to create the mRNA strand.**
 - **This process is called "transcription".**
 - **This process happens in the nucleus.**
7. _____ **mRNA** _____ can leave the nucleus, but _____ **DNA** _____ cannot.
8. What happens to mRNA after it's made?
It moves out of the nucleus, into the cytoplasm, & joins with a ribosome.
9. _ **"Translation"** _ is when the cell uses the mRNA code to build proteins. This process takes place in the ____ **cytoplasm** ____ with the help of organelles called _____ **ribosomes** ____.
10. What is a codon?
A codon is a set of 3 consecutive nucleotides (bases) on the mRNA that carries the code for a specific protein.
11. What is an anticodon?
An anticodon is a set of 3 consecutive nucleotides (bases) on the tRNA that "match up" with the codon on the mRNA. They help to make sure that the tRNA with the correct amino acid attached is brought to the ribosome.

From Dna To Protein Synthesis Chapter 1lab Answers

Biochemical Society (United Kingdom)



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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 Gary Parker,W. Ann Reynolds,Rex Reynolds,1975 DNA and Protein Synthesis (videorecording). Biochemical Society (United Kingdom), 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 **Structure of DNA & Protein Synthesis**,2006 **From DNA to Protein** Maria Szekely,1982 **Molecular Biology and Protein Synthesis** Robert A. Niederman,1976 **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

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