

Chapter 14 Reading Guide: Gene Expression – From Gene to Protein**Concept 14.1: Genes specify proteins via transcription and translation**

1. What is gene expression?
process by which DNA directs the synthesis of proteins
2. The research of Beadle and Tatum resulted in their Nobel Prize award in 1958. Describe their scientific contribution. They disabled genes one by one and looked for changes in each mutant's phenotype, revealing the normal function of the gene
3. What is the one gene-one enzyme hypothesis?
States that the function of a gene is to dictate the production of a specific enzyme
4. How has this hypothesis been modified?
Many eukaryotic genes can each code for a set of closely related polypeptides, quite a few genes code for RNA
5. What are three ways in which RNA differs from DNA?
 - contains ribose instead of deoxyribose
 - nitrogenous base uracil rather than thymine
 - RNA consists of a single strand
6. Define the following terms:
 - a. Transcription - Synthesis of RNA using info in the DNA
 - b. Translation - synthesis of a polypeptide using the info in the mRNA
7. Complete the following table to summarize each process.

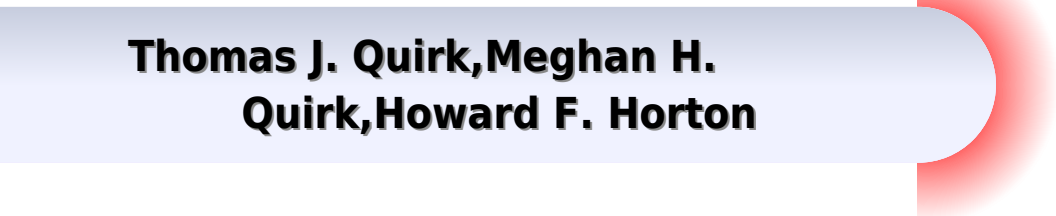
	Template	Product Synthesized	Location in Eukaryotic Cell
Transcription	assembling a complementary sequence of RNA	RNA	nucleus
Translation	mRNA	polypeptide	ribosomes

8. Label the diagram of the Central Dogma below.



Ap Bio Chapter 5guided Reading Answers

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Resources in Education, 1996 Science Books & Films, 1989 Resources in Education, 1996 *Excel 2019 for Biological and Life Sciences Statistics* Thomas J. Quirk, Meghan H. Quirk, Howard F. Horton, 2020-03-16 Newly revised to specifically address Microsoft Excel 2019 this book is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical biological and life science problems Excel is an effective learning tool for quantitative analyses in biological and life sciences courses Its powerful computational ability and graphical functions make learning statistics much easier than in years past Excel 2019 for Biological and Life Sciences Statistics capitalizes on these improvements by teaching students and professionals how to apply Excel 2019 to statistical techniques necessary in their courses and work Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific easy to understand biological and life science problems Practice problems are provided at the end of each chapter with their solutions in an appendix Separately there is a full practice test with answers in an appendix that allows readers to test what they have learned This new edition offers a wealth of new practice problems and solutions as well as updated chapter content throughout **A Is for Admission** Michele A. Hernández, 2010-10-28 A former admissions officer at Dartmouth College reveals how the world's most highly selective schools really make their decisions **A Short Guide to Writing about Biology** Jan A. Pechenik, 1997 Provides students with the tools needed to be successful writers in college and their profession while emphasizing writing as a way of examining evaluating and sharing ideas Students are taught how to read critically study evaluate and report data and how to communicate information clearly and logically Teaches students to think as biologists and to express ideas clearly and concisely through their writing Courses preparing students for a profession in the field of biology Research in Education, 1972-05 Biology, Evolution, and Human Nature Timothy H. Goldsmith, William F. Zimmerman, 2000-11-16 Dieses Buch bietet eine ausgewogene Darstellung der Kerntheorien und Grundlagen des Evolutionsgedankens und macht deutlich wie diese Theorien das menschliche Verhalten beeinflussen Aus evolutionsgeschichtlicher Sicht werden die Verbindungen zwischen den einzelnen Stufen biologischer Komplexität zurckverfolgt von den Genen über das Nervensystem bis hin zu Tiergesellschaften und menschlichen Kulturen Analysiert wird die Geschichte der Evolutionstheorie von Darwin bis zur Gegenwart wobei ein besonderer Schwerpunkt auf der Molekularbiologie und der evolutionären Sozialtheorie liegt Enthalten sind auch neue Arbeiten zu Primatengesellschaften und der Entwicklungsgeschichte des Menschen Geschrieben von zwei hervorragenden Dozenten auf dem Gebiet der menschlichen Ethologie 12 00 The Oklahoma Teacher, 1940 *Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp* Russell C. Hollingsworth, 1979

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