

Name ___ Period ___ Date ___

Chapter 13 Worksheet Packet

Ch. 13.1 RNA

Lesson Objectives

Contrast RNA and DNA. Explain the process of transcription.

Lesson Summary

The Role of RNA RNA (ribonucleic acid) is a nucleic acid like DNA. It consists of a long chain of nucleotides. The RNA base sequence directs the production of proteins. Ultimately, cell proteins result in phenotypic traits. The main differences between RNA and DNA are:

The sugar in RNA is ribose instead of deoxyribose.

RNA is generally single-stranded and not double-stranded like DNA.

RNA contains uracil in place of thymine.

RNA can be thought of as a disposable copy of a segment of DNA. Most RNA molecules are involved in protein synthesis. The three main types of RNA are:

Messenger RNA (mRNA) carries copies of instructions for polypeptide synthesis from the nucleus to ribosomes in the cytoplasm.

Ribosomal RNA (rRNA) forms an important part of both subunits of the ribosomes, the cell structures where proteins are assembled.

Transfer RNA (tRNA) carries amino acids to the ribosome and matches them to the coded mRNA message.

RNA Synthesis Most of the work of making RNA takes place during transcription.

In **transcription**, segments of DNA serve as templates to produce complementary RNA molecules.

In prokaryotes, RNA synthesis and protein synthesis takes place in the cytoplasm. In eukaryotes,

RNA is produced in the cell's nucleus and then moves to the cytoplasm to play a role in the

production of protein. The following focuses on transcription in eukaryotic cells.

The enzyme **RNA polymerase** binds to DNA during transcription and separates the DNA strands. It then uses one strand of DNA as a template from which to assemble nucleotides into a complementary strand of RNA.

RNA polymerase binds only to **promoters**, regions of DNA that have specific base sequences.

Promoters are signals to the DNA molecule that show RNA polymerase exactly where to begin making RNA. Similar signals cause transcription to stop when a new RNA molecule is completed.

RNA may be "edited" before it is used. Portions that are cut out and discarded are called **introns**. The remaining pieces, known as **exons**, are then spliced back together to form the final mRNA.

The Role of RNA

1. Complete the table to contrast the structures of DNA and RNA.

	Sugar	Number of Strands	Bases
DNA			
RNA		single	uracil

2. On the lines provided, identify each kind of RNA.
a. transfer RNA b. messenger RNA c. ribosomal RNA

Genetic Technology Study Guide Answers

Richard O. Straub



Genetic Technology Study Guide Answers:

Summary & Study Guide - The Gene Machine Lee Tang, 2017-08-09 The promise and peril of having children in an age of genetic tests and interventions This book is a summary of The Gene Machine How Genetic Technologies Are Changing the Way We Have Kids and the Kids We Have by Bonnie Rochman This book covers a variety of topics from breast cancer to Tay Sachs several pre natal genetic mapping technologies genome sequencing rare disease diagnosis silencing of a gene and repairing gene defects using gene editing tools CRISPR It covers the question of testing for Down syndrome and abortion and the emotionally and morally fraught decisions individuals are forced to make when confronting the information these tests reveal In the past few years genetic testing has expanded into a full array of testing available prenatally postnatally and even pre conception A more targeted analysis has allowed women to weed out unhealthy embryos before attempting pregnancy Genome sequencing gives the child s blueprint including a predisposition to diseases such as Down syndrome early onset Alzheimer s or breast cancer Having access to so much information can be empowering enlightening confusing and frightening It can enable parents to prepare for a child with special needs Or it could allow them to end the pregnancy This is a must read for those planning on having kids or for those who simply want to learn about genetic technologies This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Value added from this guide Save time Understand key concepts Expand your knowledge [Barron's Science 360: A Complete Study Guide to Biology with Online Practice](#) Barron's Educational Series, Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07 Barron's Science 360 provides a complete guide to the fundamentals of biology Whether you re a student or just looking to expand your brain power this book is your go to resource for everything biology Back cover [Study Guide and Solutions Manual](#) Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities **Study Guide to Accompany Seasons of Life 4e Telecourse** Berger, Kathleen Stassen Berger, 2000-12-08 *Biology Essentials: A Study Guide* Cybellium, 2024-09-01 Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of

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