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Chapter 12

Dna And Rna

Answer Key

Vocabulary

Review

Answer

Key

Vocabulary
Review

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Ch. 12 DNA and
RNA Part 1 Ch. 12

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DNA and RNA Part
2

DNA vs RNA
(Updated)

DNA replication
and RNA

transcription and
translation | Khan
Academy *Nucleic
Acids - RNA and
DNA Structure -
Biochemistry*

Nucleic acids - DNA
and RNA structure

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~~Chapter 12-13:~~
~~DNA, RNA, and~~
~~Protein Synthesis~~
DNA Structure and
Replication: Crash
Course Biology
#10 DNA
Replication
(Updated) AP
~~Chapter 12 DNA~~
~~Structure Van DNA~~
naar eiwit - 3D
Transcription vs.
Translation GCSE

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*Biology - What is
DNA? (Structure
and Function of
DNA) #79*

Biology: Cell
Structure | Nucleus
Medical Media
**Structure Of
Nucleic Acids -
Structure Of DNA
- Structure Of
RNA - DNA
Structure And
RNA Structure**

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~~Mitosis vs. Meiosis:~~

~~Side by Side~~

~~Comparison~~

~~Transcription and~~

~~Translation~~

~~Overview RNA~~

~~Protein Synthesis~~

~~Protein Synthesis~~

~~RNA Transcription~~

~~Ch 12 DNA~~

~~Structure Audio~~

~~Notes DNA, Hot~~

~~Pockets, \u0026~~

~~The Longest Word~~

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~~Ever: Crash Course~~

~~Biology #11~~

~~Transcription~~

~~\u0026 Translation~~

~~| From DNA to RNA~~

~~to Protein~~

Transcription Made

Easy- From DNA to

RNA (2019)

Chapter 12-3

Structure of RNA

and Types of RNA

Ch. 12/13 Part 2

DNA/RNA ppt Video

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~~Transcription and
Translation
Protein Synthesis
From DNA - Biology
Biology Chapter 12
DNA replication
Chapter 12 Dna
And Rna~~

the enzyme that
"proofreads" new
DNA strands,
helping to ensure
that each molecule
is a nearly perfect

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copy of the original
DNA: messenger
RNA: mRNA, a RNA
molecule that
carries copies of
instructions for the
assembly of amino
acids into proteins
from DNA to the
rest of the cell:
ribosomal RNA:
rRNA, a type of
RNA that makes up
the major part ...

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Quia - Chapter 12:

DNA and RNA

Chapter 12: DNA
and RNA. STUDY.

Flashcards. Learn.

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PLAY. Match.

Gravity. Created

by. Dxll PLUS.

Section 1- DNA

Section 2-

Chromosomes and

DNA Replication

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Section 3- RNA and
Protein Synthesis

Section 4-

Mutations Section

5- Gene

Regulation. Key

Concepts: Terms in
this set (50)

Transformation.

Chapter 12: DNA
and RNA

Flashcards | Quizlet

RNA polymerase

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uses one strand of DNA as a template to assemble nucleotides into a strand of RNA. c. RNA polymerase binds only to DNA promoters, which have specific base sequences.

Chapter 12 DNA
and RNA
Flashcards | Quizlet
Page 14/89

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Chapter 12: DNA
and RNA. 32 terms.
10 Bio. 33 terms.
Biology Chapter
10: DNA, RNA, and
Protein Synthesis
Vocab. 32 terms.
DNA, RNA and
Protein Synthesis
Key Terms. OTHER
SETS BY THIS
CREATOR. 4 terms.
AP Macro Module
44. 6 terms. AP

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Macro Module 43.
30 terms. Chapter
8 Mod 37, Mod 38,
Mod 39, Mod 40. 7
terms. Mod 40.
Features. Quizlet
Live ...

Chapter 12: DNA
and RNA
Flashcards | Quizlet
-The backbone of a
DNA chain formed
by sugar and

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phosphate groups
-can be joined
together in any
order DNA and RNA
Chapter 12 Genetic
Engineering A
donor cell is taken
from a sheep
udder. Egg cell An
egg cell IS taken
from an Donor
Nucleus The two
cells are fused
using an electric

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Shock. The nucleus
Of the egg cell IS
removed.

Vocabulary

Home - Lamar High
School

Start studying
Chapter 12 DNA
and RNA. Learn
vocabulary, terms,
and more with
flashcards, games,
and other study
tools.

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Dna And Rna

Chapter 12 DNA
and RNA

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Chapter 12 DNA

and RNA. Section

12-1 DNA. (pages

287-294) This

section tells about

the experiments

that helped

scientists discover

the relationship

between genes and

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DNA. It also describes the chemical structure of the DNA molecule. Griffith and Transformation. (pages 287-289)

Section 12-1 DNA
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Chapter 12 DNA
and RNA
vocabulary review.

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and RNA
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and 13 DNA and
RNA. Learn

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and more with
flashcards, games,
and other study
tools.

biology chapter 12
and 13 DNA and
RNA Flashcards |
Quizlet
DNA and RNA.
Chapter 12-1. [http:
//www.wappingerss
chools.org/RCK/staf](http://www.wappingersschools.org/RCK/staf)

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f/teacherhp/johnso
n/visualvocab/mRN
A.gif. SOUTH
DAKOTA

ADVANCED
SCIENCE
STANDARDS
9-12.L.1.3A.

Students are able
to explain how
gene expression
regulates cell
growth and
differentiation.

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(SYNTHESIS)

Examples: Tissue formation

Development of new cells from original stem cells

LIFE SCIENCE:

Indicator 1:

Understand the fundamental structures, functions, classifications, and mechanisms found

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in living things.

Answer Key
DNA and RNA
Chapter 12

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12: DNA AND RNA.
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terms, and more
with flashcards,
games, and other
study tools.

BIOLOGY CHAPTER

Page 25/89

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12: DNA AND RNA
Flashcards | Quizlet
Answer Key
DNA & RNA:
Vocabulary
Chapter 12

Glencoe Biology.
DNA, Replication,
Protein Synthesis &
Mutations. STUDY.
PLAY. DNA
molecule. A double-
stranded, helix-
shaped molecule
capable of
replicating and

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determining the inherited structure of a cell's proteins.
double helix. DNA Structure - like a twisted ladder.

DNA & RNA:
Chapter 12
Glencoe Biology
Flashcards | Quizlet
Chapter 12 DNA
and RNA are
analogous to the

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rungs of a twisted ladder, while the sugar-phosphate backbones of the double helix are analogous to the sides of a twisted ladder. 10.

Approximately 28% of the bases would be thymine.

Chapter 12 Dna
And Rna - chimeray

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anartas.com

DNA to RNA A-U C-
G G-C T-A RNA to
RNA A-U C-G G-C U-

A 10. List the three types of RNA and describe each of their functions. 1. mRNA a. messenger i. carries a copy of the DNA instructions for a protein to the

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ribosome in the cytoplasm 2. tRNA
a. transfer i.
transfers amino acids to the ribosome 3. rRNA
a. ribosomal i.
combines with proteins to make ribosomes 11. List the organelles and ...

Chapter 12 and 13
Page 30/89

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Review.docx -
Chapter 12 and 13
Review 1 ...

DNA and RNA

Chapter 12-1.

GENETIC MATERIAL

In the middle of the
1900's scientists
were asking

questions ... DNA

RNA polymerase.

Transcription .

Adenine (DNA and

RNA) Cytosine

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(DNA and RNA)...

The m-RNA Code.

Section 12-3. 64

possible codons

Some amino acids

have more than

one codon.

START= _____

DNA and RNA

Chapter 12-1

View Bio11Lec23Ch

12cTrnsIBb.pptx

from BIO 011 at

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Hofstra University.
Chapter 12: From
DNA to protein:
how cells read the
genome Overview
Transcription: from
DNA to RNA
Overview Three

Bio11Lec23Ch12cT
rnsIBb.pptx -
Chapter 12 From
DNA to ...
Chapter 12 DNA

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and RNA Section
12-1 DNA (pages
287-294) This
section tells about
the experiments
that helped
scientists discover
the relationship
between genes and
DNA. It also
describes the
chemical structure
of the DNA
molecule. Griffith

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PDF Chapter 12
and Transformation
(pages 287-289) 1.
Chapter 12 3 Dna
And Rna Worksheet
Answer Key

Biology Chapter 12
Dna And Rna
Answer Key
Chapter 12: DNA
and RNA. Avery
and other scientists
discovered that
DNA is the nucleic

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acid that stores and transmits the genetic information from one generation of an organism to the next. Hershey and Chase concluded that the genetic material of the bacteriophage they used to infect bacteria was DNA, not protein.

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Dna And Rna

Chapter 12: DNA
and RNA • Page -
Blue Ridge Middle
School ...

RNA Editing • The
DNA of eukaryotic
genes contains
sequences of
nucleotides, called
introns, that are
not involved in
coding for proteins.
• The DNA

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sequences that code for proteins are called exons.

- When RNA molecules are formed, introns and exons are copied from DNA.

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Chapter 12- DNA,
RNA, and Proteins
Chapter 12: DNA

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and RNA.

Description.
Chapter 12

Vocabulary. Total
Cards. 19. Subject.
Biology. Level. 10th
Grade. Created.

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here to study/print
these flashcards.

Create your own
flash cards! Sign
up here. Additional
Biology Flashcards

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Cards Return to
Set Details.
Answer Key
Vocabulary
Review

Helicases from All
Domains of Life is
the first book to
compile
information about
helicases from
many different

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organisms in a single volume. Research in the helicase field has been going on for a long time now, but the completion of so many genomes of these ubiquitous enzymes has made it difficult to keep up with new discoveries. As the huge number of

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identified DNA and RNA helicases, along with the structural and functional differences among them, make it difficult for the interested scholar to grasp a comprehensive view of the field, this book helps fill in the gaps.

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Presents updates on the functions and features of helicases across the different kingdoms Begins with a chapter on the evolutionary history of helicases Contains specific chapters on selected helicases of great importance from a

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biological/applicative
point-of-view

RNA-based

Regulation in
Human Health and
Disease offers an in-
depth exploration
of RNA mediated
genome regulation
at different
hierarchies.

Beginning with
multitude of

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Canonical and non-canonical RNA populations, especially

noncoding RNA in human physiology and evolution, further sections examine the various classes of RNAs (from small to large noncoding and extracellular RNAs), functional

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categories of RNA
regulation (RNA-
binding proteins,
alternative splicing,
RNA editing,
antisense
transcripts and
RNA G-
quadruplexes),
dynamic aspects of
RNA regulation
modulating
physiological
homeostasis

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(aging), role of RNA beyond humans, tools and technologies for RNA research (wet lab and computational) and future prospects for RNA-based diagnostics and therapeutics. One of the core strengths of the book includes

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spectrum of disease-specific chapters from experts in the field highlighting RNA-based regulation in metabolic & neurodegenerative disorders, cancer, inflammatory disease, viral and bacterial infections. We hope the book helps researchers,

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Students and clinicians appreciate the role of RNA-based regulation in genome regulation, aiding the development of useful biomarkers for prognosis, diagnosis, and novel RNA-based therapeutics.

Comprehensive

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information of non-canonical RNA-based genome regulation

modulating human health and disease
Defines RNA

classes with special emphasis on unexplored world of noncoding RNA at different hierarchies
Disease specific role of RNA

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- causal,
prognostic,
diagnostic and
therapeutic

Features

contributions from
leading experts in
the field

This laboratory
guide represents a
growing collection
of tried, tested and
optimized

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laboratory protocols for the isolation and characterization of eukaryotic RNA, with lesser emphasis on the characterization of prokaryotic transcripts. Collectively the chapters work together to embellish the RNA

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story, each
presenting clear
take-home lessons,
liberally

incorporating flow
charts, tables and
graphs to facilitate
learning and assist
in the planning and
implementation
phases of a project.

RNA

Methodologies, 3rd
edition includes

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approximately 30% new material, including chapters on the more recent technologies of RNA interference including: RNAi; Microarrays; Bioinformatics. It also includes new sections on: new and improved RT-PCR techniques; innovative 5' and

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3' RACE

techniques;
subtractive PCR
methods; methods
for improving cDNA
synthesis. * Author
is a well-recognized
expert in the field
of RNA
experimentation
and founded Exon-
Intron, a well-
known
biotechnology

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in the planning
phases of projects

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Diagnostic Rna
Molecular Biology
describes the
fundamentals of
molecular biology
in a clear, concise
manner to aid in
the comprehension
of this complex
subject. Each
technique
described in this
book is explained
within its

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conceptual
framework to
enhance
understanding. The
targeted approach
covers the
principles of
molecular biology
including the basic
knowledge of
nucleic acids,
proteins, and
genomes as well as
the basic

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techniques and instrumentations that are often used in the field of molecular biology with detailed procedures and explanations. This book also covers the applications of the principles and techniques currently employed in the clinical

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laboratory. •
Provides an understanding of which techniques are used in diagnosis at the molecular level •
Explains the basic principles of molecular biology and their application in the clinical diagnosis of diseases • Places

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protocols in
context with
practical
applications

Review

Molecular Cloning has served as the foundation of technical expertise in labs worldwide for 30 years. No other manual has been so popular, or so influential. [...]

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The theoretical and historical underpinnings of techniques are prominent features of the presentation throughout, information that does much to help trouble-shoot experimental problems. For the fourth edition of this classic work,

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the content has been entirely recast to include nucleic-acid based methods selected as the most widely used and valuable in molecular and cellular biology laboratories. Core chapters from the third edition have been revised to feature current

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strategies and approaches to the preparation and cloning of nucleic acids, gene transfer, and expression analysis. They are augmented by 12 new chapters which show how DNA, RNA, and proteins should be prepared,

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evaluated, and manipulated, and how data generation and analysis can be handled. The new content includes methods for studying interactions between cellular components, such as microarrays, next-generation

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sequencing technologies, RNA interference, and epigenetic analysis using DNA methylation techniques and chromatin immunoprecipitation. To make sense of the wealth of data produced by these techniques, a bioinformatics

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Chapter describes the use of analytical tools for comparing sequences of genes and proteins and identifying common expression patterns among sets of genes. Building on thirty years of trust, reliability, and

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authority, the fourth edition of Molecular Cloning is the new gold standard--the one indispensable molecular biology laboratory manual and reference source. --Publisher description.

Fundamentals of
Molecular

Page 68/89

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Structural Biology reviews the mathematical and physical foundations of molecular structural biology. Based on these fundamental concepts, it then describes molecular structure and explains basic genetic

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mechanisms. Given the increasingly interdisciplinary nature of research, early career researchers and those shifting into an adjacent field often require a "fundamentals" book to get them up-to-speed on the foundations of a particular field.

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This book fills that niche. Provides a current and easily digestible resource on molecular structural biology, discussing both foundations and the latest advances. Addresses critical issues surrounding macromolecular structures, such as structure-based

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drug discovery,
single-particle
analysis,
computational
molecular
biology/molecular
dynamic
simulation, cell
signaling and
immune response,
macromolecular
assemblies, and
systems biology
Presents

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discussions that ultimately lead the reader toward a more detailed understanding of the basis and origin of disease

Concepts of Biology is designed for the single-semester introduction to biology course for

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non-science
majors, which for
many students is
their only college-
level science
course. As such,
this course
represents an
important
opportunity for
students to
develop the
necessary
knowledge, tools,

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and skills to make informed decisions as they continue with their lives.

Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand.

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Even more importantly, the content should be meaningful.

Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis

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and includes
exciting features
that highlight
careers in the
biological sciences
and everyday
applications of the
concepts at
hand. We also strive
to show the
interconnectedness
of topics within this
extremely broad
discipline. In order

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to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the

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book, adapting it to the approach that works best in their classroom.

Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students

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Understand--and
apply--key
concepts.

Answer Key

Vocabulary

It's in Your DNA:
From Discovery to
Structure, Function
and Role in
Evolution, Cancer
and Aging
describes, in a
clear,
approachable
manner, the

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progression of the experiments that eventually led to our current understanding of DNA. This fascinating work tells the whole story from the discovery of DNA and its structure, how it replicates, codes for proteins, and our current

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ability to analyze
and manipulate it
in genetic
engineering to

begin to

understand the
central role of DNA
in evolution,
cancer, and aging.

While telling the
scientific story of
DNA, this
captivating treatise
is further enhanced

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by brief sketches of the colorful lives and personalities of the key scientists and pioneers of DNA research.

Major discoveries by Meischer, Darwin, and Mendel and their impacts are discussed, including the merging of the

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disciplines of genetics, evolutionary biology, and nucleic acid biochemistry, giving rise to molecular genetics. After tracing development of the gene concept, critical experiments are described and a

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new biological paradigm, the hologenome concept of evolution, is introduced and described. The final two chapters of the work focus on DNA as it relates to cancer and gerontology. This book provides readers with much-

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needed knowledge to help advance their understanding of the subject and stimulate further research. It will appeal to researchers, students, and others with diverse backgrounds within or beyond the life sciences, including those in

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biochemistry,
genetics/molecular
genetics,
evolutionary
biology,
epidemiology,
oncology,
gerontology, cell
biology,
microbiology, and
anyone interested
in these
mechanisms in life.
Highlights the

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importance of DNA research to science and medicine
Explains in a simple but scientifically correct manner the key experiments and concepts that led to the current knowledge of what DNA is, how it works, and the increasing impact it

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has on our lives
Emphasizes the
observations and
reasoning behind
each novel idea
and the critical
experiments that
were performed to
test them

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9f519551a43edf