

8.2 Structure of DNA

KEY CONCEPT DNA structure is the code of all organisms.

DNA is composed of four types of nucleotides.

Since the 1920s scientists have known the chemical parts of the DNA molecule. DNA is a very long polymer, or chain of repeating units. The units, or monomers, that make up DNA are called **nucleotides** (NOC-lee-oh-ri-tye). Each nucleotide has three parts: a phosphate group, a base, and a sugar.

There are four different types of DNA nucleotides: cytosine (C), thymine (T), adenine (A), and guanine (G). All of the nucleotides contain a phosphate group and a deoxyribose sugar. They differ in their nitrogen-containing bases, as shown in the table below.

Notice that thymine (T) and cytosine (C) have nitrogen-containing bases with a single-ring structure. Adenine (A) and guanine (G) are bases with a double-ring structure. A single molecule of human DNA is made of billions of nucleotides.

NUCLEOTIDE

The small units, or monomers, that make up a strand of DNA are called nucleotides. Nucleotides have three parts.



- phosphate group: one phosphate with four oxygens
- deoxyribose: ring deoxyribose
- nitrogen-containing base: a single or double ring built around nitrogen atoms and carbon atoms

THE FOUR NITROGEN-CONTAINING BASES OF DNA

Pyrimidines – Single Ring

Name of Base	Structural Formula	Model
Thymine		
Cytosine		

Purines – Double Ring

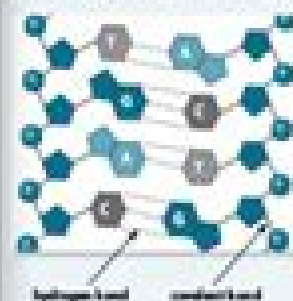
Name of Base	Structural Formula	Model
Adenine		
Guanine		



Circle the names of the four nucleotides shown in the table above.

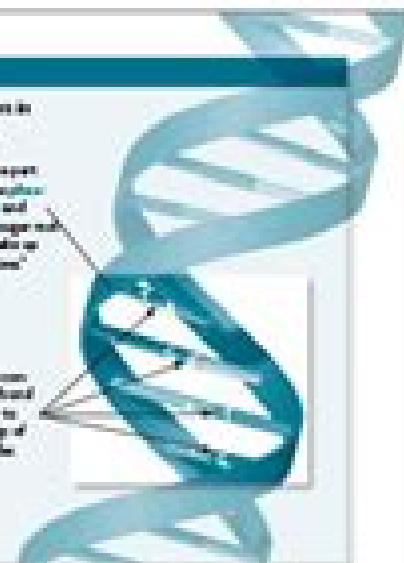
BASE PAIRING RULES

The base pairing rules describe how nucleotides form pairs in DNA. T always pairs with A, and C always pairs with G.



The phosphate group represents the phosphate group and deoxyribose sugar molecules that make up DNA's "backbone."

The nitrogen-containing bases bond in the middle to form the rungs of the DNA ladder.



What sequence of bases would pair with GATCG?

8.2 Vocabulary Check

Mark It Up

nucleotide
base pairing rules

base pairing rules

Go back and highlight each sentence that has a vocabulary word in bold.



Label the drawing at the right with the terms nucleotide, base pairing rules, and double helix. Write each term and draw a line that connects the term to the appropriate part of the drawing.

8.2 The Big Picture

What are the three different parts of a nucleotide? _____

What are the names of the four nucleotides? _____

Use the base pairing rules to write the sequence that would pair with the following sequence: TCACGTA _____



Section 2 The Structure Of Dna Holt Biology

**Richard B. Silverman, Mark W.
Holladay**



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Holt Biology Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 **Cr 9 DNA Holt**
Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Chapter Resource 3 Cell Structure Biology** Holt Rinehart
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Unity Reynaldo Pareja,2020-03-09 Is there an underlying unifying factor that could give us a frame of reference to grasp into one holistic view an explanation a description that would give us a unifying understanding of all physical reality as well as our physical spiritual human reality This question becomes evident when we contemplate the immensity of outer space as shown by the photos taken by the Hubble telescope They elicit from us a spontaneous exclamation of admiration and awesomeness at the magnificence of its immensurable vastness populated by billions and billions of stars grouped inside several million or more galaxies No less is our wonder when scientists have found unpredictable behavior of electrons at the quantum field that is determined by the intention of the observer opening up the question of how much do we define reality A similar experience of admiration surges when one sees an animation of the neural activity of the brain showing the firing of thousands of neuron sparks dispersing a million and more electrical impulses filled with biological information required for the body to perform continuously in a never ending life sustaining energy current No less is the admiration one must admit before the complexity of a human or animal organ a single cell a DNA strand or even a gene All these physical realities contain a mini universe as grandiose and complex as the one shown by the photos taken by the Hubble space telescope If all the above levels of perception were not enough there is also the human realm of emotions intuitions insights imagination creativity moral judgments and immoral behaviors He manifests deceit sacrifice beyond explanation unconditional love and unbearable hatred all mixed in a reality that seems to be far too complex to be fully understood controlled or directed Before this mind boggling universe is there in Creation a Universal Principle that can give us a point of view from which we can obtain a minimum sense of understanding of where we are at in the cosmic dance of our existence This book essay makes an effort to find and present the reader with such Universal Principle Welcome to discover it **Chapter Resource 10 How**

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Plant Biotechnology, Volume 1 Bishun Deo Prasad, Sangita Sahni, Prasant Kumar, Mohammed Wasim Siddiqui, 2017-12-22 This book first of this new two volume set provides an informative tour of the basics of biotechnology to recent advances in biotechnology Knowledge of new and fresh approaches is a prerequisite to solving plant biological problems and to this end the editors have brought together a group of contributors who address the most recent techniques and their applications in plant biotechnology The chapters discuss some recent techniques such as TILLING Targeting Induced Local Lesions In Genomes advances in molecular techniques to study diversity protein purification and methods and analysis in protein protein interaction detection The volume also covers molecular markers and QTL mapping including four chapters that deal with different molecular markers development of mapping populations and association mapping for dissecting the genetic basis of complex traits in plants in sufficient detail The knowledge of biotechnology techniques and their applications will be valuable for researchers and scientists as well as for the many students engaged in plant biotechnology studies

The Organic Chemistry of Drug Design and Drug Action Richard B. Silverman, Mark W. Holladay, 2014-03-29 The Organic Chemistry of Drug Design and Drug Action Third Edition represents a unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms that rationalize drug action which allows reader to extrapolate those core principles and mechanisms to many related classes of drug molecules This new edition includes updates to all chapters including new examples and references It reflects significant changes in the process of drug design over the last decade and preserves the successful approach of the previous editions while including significant changes in format and coverage This text is designed for undergraduate and graduate students in chemistry studying medicinal chemistry or pharmaceutical chemistry research chemists and biochemists working in pharmaceutical and biotechnology industries Updates to all chapters including new examples and references Chapter 1 Introduction Completely rewritten and expanded as an overview of topics discussed in detail throughout the book Chapter 2 Lead Discovery and Lead Modification Sections on sources of compounds for screening including library collections virtual screening and computational methods as well as hit to lead and scaffold hopping expanded sections on sources of lead compounds fragment based lead discovery and molecular graphics and deemphasized solid phase synthesis and combinatorial chemistry Chapter 3 Receptors Drug receptor interactions cation π and halogen bonding atropisomers case history of the insomnia drug suvorexant Chapter 4 Enzymes Expanded sections on enzyme catalysis in drug discovery and

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