

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 shape
- 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

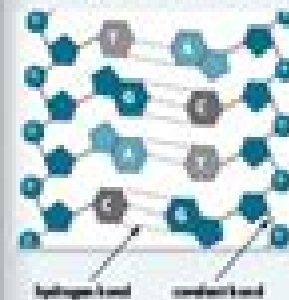
Name of Base	Structural Formula	Model
Adenine		
Guanine		



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

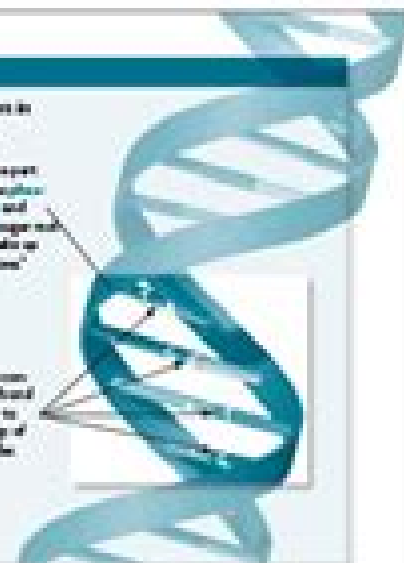
BASE PAIRING RULES

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 GTACGT?

8.2 Vocabulary Check

Mark It Up

nucleotide
base pairs

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: TCACGT. _____



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Holt Biology Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 **Chapter Resource 3**
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Genetics, Disability and the Law Aisling de Paor,2017-09-21 With genetic technologies advancing rapidly Aisling de Paor examines the urgent need for an EU level framework to regulate genetic information *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 Proteins/Made Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 Medical Genetics E-Book Lynn B. Jorde,John C. Carey,Michael J. Bamshad,2015-08-12 Popular for its highly visual clinical approach Medical Genetics delivers an accessible yet thorough

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Biochemistry and Molecular Biology Compendium Roger L. Lundblad,2019-11-11 This book is an accessible

resource offering practical information not found in more database oriented resources The first chapter lists acronyms with definitions and a glossary of terms and subjects used in biochemistry molecular biology biotechnology proteomics genomics and systems biology There follows chapters on chemicals employed in biochemistry and molecular biology complete with properties and structure drawings Researchers will find this book to be a valuable tool that will save them time as well as provide essential links to the roots of their science Key selling features Contains an extensive list of commonly used acronyms with definitions Offers a highly readable glossary for systems and techniques Provides comprehensive information for the validation of biotechnology assays and manufacturing processes Includes a list of Log P values water solubility and molecular weight for selected chemicals Gives a detailed listing of protease inhibitors and cocktails as well as a list of buffers

Bioinformatics Challenges at the Interface of Biology and Computer Science Teresa K. Attwood, Stephen R. Pettifer, David Thorne, 2016-07-27 This innovative book provides a completely fresh exploration of bioinformatics investigating its complex interrelationship with biology and computer science It approaches bioinformatics from a unique perspective highlighting interdisciplinary gaps that often trap the unwary The book considers how the need for biological databases drove the evolution of bioinformatics it reviews bioinformatics basics including database formats data types and current analysis methods and examines key topics in computer science including data structures identifiers and algorithms reflecting on their use and abuse in bioinformatics Bringing these disciplines together this book is an essential read for those who wish to better understand the challenges for bioinformatics at the interface of biology and computer science and how to bridge the gaps It will be an invaluable resource for advanced undergraduate and postgraduate students and for lecturers researchers and professionals with an interest in this fascinating fast moving discipline and the knotty problems that surround it Essential Endocrinology and Diabetes Richard I. G. Holt, Neil A. Hanley, 2021-03-04 The Essentials are an international best selling series of textbooks all of which are designed to support lecture series or themes on core topics within the health sciences See www.wiley.com for further details Essential Endocrinology and Diabetes provides the accurate and up to date knowledge required for treating all areas of endocrinology and diabetes covering the latest research clinical guidelines investigational methods and therapies This classic text explains the vital aspects of endocrine physiology in a succinct and easy to use format with full colour illustrations clinical images and case studies to assist readers in applying theory to practice The text covers the principles of endocrinology clinical endocrinology and clinical diabetes and obesity and has been revised throughout to present the most recent developments in the field The seventh edition includes new and updated material on the latest molecular techniques approaches to clinical investigation and diagnostics next generation sequencing technology and positron emission tomography PET The treatment of type 1 diabetes and type 2 diabetes has been updated with clinical algorithms and reflects significant advances such as incretin based therapies SGLT2 inhibitors the development of better insulins and technologies that support self management Provides students and practitioners with comprehensive and

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