

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-ee-oh). 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.

THE FOUR NITROGEN-CONTAINING BASES OF DNA

PYRIMIDINES – SINGLE RING			PURINES – DOUBLE RING		
Name of Base	Structural Formula	Model	Name of Base	Structural Formula	Model
thymine			adenine		
cytosine			guanine		



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

SMALL DNA

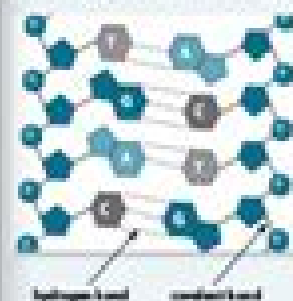
The small units, or monomers, that make up a strand of DNA are called **nucleotides**. Nucleotides have three parts.



- phosphate groups are phosphorus with four oxygens
- deoxyribose ring shape
- nitrogen-containing base is a single- or double-ring built around nitrogen atoms and carbon atoms

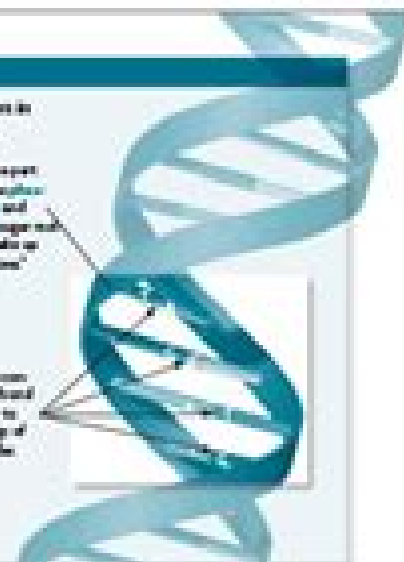
BASE PAIRING RULES

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



The blue line part represents the phosphate groups 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 Holt Rinehart & Winston, 2004
Winston, Holt, Rinehart and Winston Staff, 2004
DeSalle, Holt Rinehart and Winston, 2008
Holt Biology Student Edition 2008
Winston, 1998

Chapter Resource 11 Gene Technology Biology Holt Rinehart & Winston, 2003
Holt Biology: Mendel and heredity, 2003
Holt Biology Rob DeSalle, Holt Rinehart and Winston, 2008
Essentials of Biology Holt Rinehart & Winston, 1998

Modern Genetic Analysis Anthony J.F. Griffiths, 2002-02-22
Modern Genetic Analysis Second Edition the second introductory genetics textbook W H Freeman has published by the Griffiths author team implements an innovative approach to teaching genetics Rather than presenting material in historical order Modern Genetic Analysis Second Edition integrates molecular genetics with classical genetics The integrated approach provides students with a concrete foundation in molecules while simultaneously building an understanding of the more abstract elements of transmission genetics Modern Genetic Analysis Second Edition also incorporates new pedagogy improved chapter organization enhanced art and an appealing overall design

Next Generation Sequencing (NGS) Technology in DNA Analysis Hirak Ranjan Dash, Kelly M. Elkins, Noora Rashid Al-Snan, 2023-11-30
Next Generation Sequencing NGS Technology in DNA Analysis explains and summarizes next generation sequencing NGS technological applications in the field of forensic DNA analysis The book covers the transition from capillary electrophoresis CE based technique to NGS platforms and the fundamentals of NGS technologies applications and advances Sections provide an overview of NGS technology and forensic science including information on processing biological samples for forensic analysis sequence analysis and data analysis software as well as the analysis of NGS data The book explores the valuable applications of NGS based forensic DNA analysis and covers the validations and interpretation guidelines of NGS workflows With chapter contributions from an international array of experts and the inclusion of practical case studies this book is a useful reference for academicians and researchers in genetics biotechnology bioinformatics biology and medicine as well as forensic DNA scientists and practitioners who aim to learn use apply and validate NGS based technologies Describes the fundamentals of NGS and its advances for forensic applications Explains the transition from CE based technique to NGS technology Includes case studies related to NGS and DNA fingerprinting Explores the future use and applications of NGS technologies

Micropropagation, Genetic Engineering, and Molecular Biology of Populus, 1997
Thirty four Populus biotechnology chapters written by 85 authors are comprised in 5 sections 1 in vitro culture micropropagation somatic embryogenesis protoplasts somaclonal variation and germplasm preservation 2 transformation and foreign gene expression 3 molecular biology molecular genetic characterization 4 biotic and abiotic resistance disease insect and pollution and 5 biotechnological applications wood properties flowering phytoremediation breeding commercialization economics and bioethics

Genetic Counselling Angus Clarke, 2006-12-05
Contributions to this study are drawn both from health professionals engaged in genetic counselling and from observers and critics with backgrounds in law philosophy biology and the social sciences This diversity will enable health professionals to

examine their activities with a fresh eye and will help the observer critic to understand the ethical problems that arise in genetic counselling practice rather than in imaginary encounters Most examinations of the ethical issues raised by genetics are concerned in a broad sense with the application of new technology to human reproduction This volume focuses on genetic counselling and screening as such providing valuable insights for the health professional social scientist philosopher lawyer and bioethicist **The American Biology Teacher** ,2005 Molecular Diagnostics William B. Coleman, Gregory J. Tsongalis, 2007-10-28 Accompanying CD ROM contains a companion eBook version of Molecular diagnostics for the clinical laboratorian Second edition for downloading and use in the reader s PC or PDA Page 4 of cover **Agricultural Biotechnology and the Environment** Sheldon Krinsky, Roger Paul Wrubel, 1996 Probing the profitable new science of creating and altering life forms Extraordinarily well documented remarkably clear This is the most comprehensive coverage of these issues to date It will be required reading for some time Lawrence Busch Michigan State University Krinsky and Wrubel not only describe the components of agricultural biotechnology they address and analyze controversies involving the risks and benefits of new technologies Coverage of technical to social components of agricultural biotechnology is unusually complete and thorough Their even handed and comprehensive approach to these topics is rare and extremely valuable Richard Weinzierl University of Illinois Modern agriculture is being transformed by the genetic alteration of seeds animals and microorganisms a process that has produced such products as flavor saver tomatoes and crops resistant to specific insects or herbicides Agricultural Biotechnology and the Environment is the first comprehensive overview of the ongoing transformation of agriculture exploring the impact of genetic engineering from scientific social ethical and ecological perspectives Sheldon Krinsky and Roger Wrubel detail the impact the new generation of products is expected to have on agricultural practice and the environment and assess the degree to which current trends in biotechnology match earlier expectations They also analyze the social and political response to innovations resulting from genetic technology Closely examined in each of three areas transgenic plants genetically engineered microorganisms and transgenic animals are technical and scientific problems social controversies and anticipated environmental impacts An objective detailed look at a subject of interest to a broad spectrum of readers Agricultural Biotechnology and the Environment will be of interest to researchers in the new biotechnology fields as well as to educated general readers and policymakers A volume in the series The Environment and the Human Condition **Regulating Reproduction** Robert H. Blank, 1992-10-16 Examines the social context and current state of reproductive mediating technologies such as artificial insemination in vitro fertilization surrogate motherhood sex preselection DNA probes prenatal diagnosis and sterilization Handbook of Research on Science Education, Volume II Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender

diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community The Routledge Handbook of Technology, Crime and Justice M. R. McGuire, Thomas Holt, 2017-02-24 Technology has become increasingly important to both the function and our understanding of the justice process Many forms of criminal behaviour are highly dependent upon technology and crime control has become a predominantly technologically driven process one where traditional technological aids such as fingerprinting or blood sample analysis are supplemented by a dizzying array of tools and techniques including surveillance devices and DNA profiling This book offers the first comprehensive and holistic overview of global research on technology crime and justice It is divided into five parts each corresponding with the key stages of the offending and justice process Part I addresses the current conceptual understanding of technology within academia and the criminal justice system Part II gives a comprehensive overview of the current relations between technology and criminal behaviour Part III explores the current technologies within crime control and the ways in which technology underpins contemporary formal and informal social control Part IV sets out some of the fundamental impacts technology is now having upon the judicial process Part V reveals the emerging technologies for crime control and justice and considers the extent to which new technology can be effectively regulated This landmark collection will be essential reading for academics students and theorists within criminology sociology law engineering and technology and computer science as well as practitioners and professionals working within and around the criminal justice system *Genetic Discrimination* Gerard Quinn, Aisling de Paor, Peter Blanck, 2014-11-20 As genetic technologies advance genetic testing may well offer the prospect of detecting the onset of future disabilities Some research also forwards that certain behavioural profiles may have a strong genetic basis such as the determination to succeed or the propensity for risk taking As this technology becomes more prevalent there is a danger that genetic information may be misused by third parties and that particular genetic profiles may be discriminated against by employers by providers of social goods and services such as insurance companies and even by educational facilities This book explores the different forms and potential uses of genetic testing Drawing together leading experts in disability law bioethics health law and a range of related fields it highlights the ethical and legal challenges arising as a result of emerging and rapidly advancing genetic science On examining transatlantic perspectives on the matter

chapters in the book ask whether the US Genetic Information Nondiscrimination Act GINA is proving to be an effective tool in addressing the issue of genetic discrimination and alleviating fears of discrimination The book also reviews what insights may be gained from GINA within employment and health insurance contexts and asks how the UN Convention on the Rights of Persons with Disabilities CRPD may impact similar debates within the European Union The book focuses particularly on the legislative and policy framework in the European Union with an emphasis on the gaps in protection and the scope for specific legislative action in this area This book will be of great interest to scholars and students of discrimination law bioethics and disability law and will be of considerable use to legal practitioners medical practitioners and policy makers in this area

Principles and Practice of Ophthalmology E-Book Daniel M. Albert,Joan W. Miller,Dimitri T. Azar,Barbara A. Blodi,2008-02-27 Inside the 3rd edition of this esteemed masterwork hundreds of the most distinguished authorities from around the world provide today s best answers to every question that arises in your practice They deliver in depth guidance on new diagnostic approaches operative technique and treatment option as well as cogent explanations of every new scientific concept and its clinical importance With its new streamlined more user friendly full color format this 3rd edition makes reference much faster easier and more versatile More than ever it s the source you need to efficiently and confidently overcome any clinical challenge you may face Comprehensive authoritative and richly illustrated coverage of every scientific and clinical principle in ophthalmology ensures that you will always be able to find the guidance you need to diagnose and manage your patients ocular problems and meet today s standards of care Updates include completely new sections on Refractive Surgery and Ethics and Professionalism an updated and expanded Geneitics section an updated Retina section featuring OCT imaging and new drug therapies for macular degeneration and many other important new developments that affect your patient care A streamlined format and a new more user friendly full color design with many at a glance summary tables algorithms boxes diagrams and thousands of phenomenal color illustrations allows you to locate the assistance you need more rapidly than ever

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