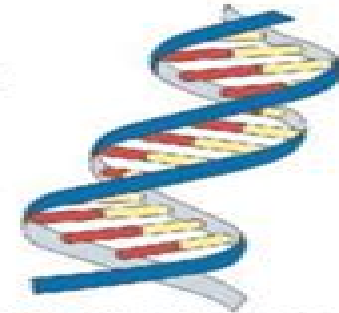


DNA - The Double Helix

Recall that the nucleus is a small spherical, dense body in a cell. It is often called the "control center" because it controls all the activities of the cell including cell reproduction, and heredity. How does it do this? The nucleus controls these activities by the chromosomes. Chromosomes are microscopic, threadlike strands composed of the chemical DNA (short for **deoxyribonucleic acid**). In simple terms, DNA controls the production of proteins within the cell. These proteins in turn, form the structural units of cells and control all chemical processes within the cell.



Chromosomes are composed of genes. A **gene** is a segment of DNA that codes for a particular protein, which in turn codes for a trait. Hence you hear it commonly referred to as the gene for baldness or the gene for blue eyes. Meanwhile, DNA is the chemical that genes and chromosomes are made of. It stands for deoxyribonucleic acid. DNA is called a nucleic acid because it was first found in the nucleus. We now know that DNA is also found in organelles, the mitochondria and chloroplasts, though it is the DNA in the nucleus that actually controls the cell's workings.

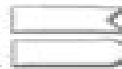
In 1953, James Watson and Francis Crick established the structure of DNA. The structure is a double helix, which is like a twisted ladder. The sides of the ladder are made of alternating sugar and phosphate molecules. The sugar is deoxyribose. Color all the **phosphates** pink (one is labeled with a "p"). Color all the **deoxyriboses** blue (one is labeled with a "D").

The rungs of the ladder are pairs of 4 types of **nitrogen bases**. Two of the bases are **purines** - adenine and guanine. The **pyrimidines** are thymine and cytosine. The bases are known by their coded letters A, G, T, C. These bases always bond in a certain way. Adenine will only bond to thymine. Guanine will only bond with cytosine. This is known as the **Base-Pair Rule**. The bases can occur in any order along a strand of DNA. The order of these bases is the code the contains the instructions. For instance ATGCACATA would code for a different gene than AATTACGGA. A strand of DNA contains millions of bases. (For simplicity, the image only contains a few.) Note that the bases attach to the sides of the ladder at the sugars and not the phosphate.

Color the thymines orange.



Color the adenines green.



Color the guanines purple.



Color the cytosines yellow.



Note that that the bases attach to the sides of the ladder at the sugars and not the phosphate.

The combination of a single base, a deoxyribose sugar, and a phosphate make up a **nucleotide**. DNA is actually a molecule of repeating nucleotides. Examine the nucleotides closer. Two of the bases are purines - adenine and guanine. The

The Double Helix Worksheet Answers

Anthony S. Fauci



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The Double Helix James D. Watson,1969-02 Since its publication in 1968 The Double Helix has given countless readers a rare and exciting look at one highly significant piece of scientific research Watson and Crick s race to discover the molecular structure of DNA

Concepts of Biology Samantha Fowler,Rebecca Roush,James Wise,2018-01-07 Concepts of Biology is designed for the single semester introduction to biology course for 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 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 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 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 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 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 understand and apply key concepts

Molecular Structure of Nucleic Acids ,1953

Biology for AP® Courses Julianne Zedalis, John Eggebrecht, 2017-10-16 Biology for AP courses covers the scope and sequence requirements of a typical two semester Advanced Placement biology course The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens Biology for AP Courses was designed to meet and exceed the requirements of the College Board's AP Biology framework while allowing significant flexibility for instructors Each section of the book includes an introduction based on the AP curriculum and includes rich features that engage students in scientific practice and AP test preparation it also highlights careers and research opportunities in biological sciences

DNA James D. Watson, Andrew Berry, 2009-01-21 Fifty years ago James D Watson then just twentyfour helped launch the greatest ongoing scientific quest of our time Now with unique authority and sweeping vision he gives us the first full account of the genetic revolution from Mendel's garden to the double helix to the sequencing of the human genome and beyond Watson's lively panoramic narrative begins with the fanciful speculations of the ancients as to why like begets like before skipping ahead to 1866 when an Austrian monk named Gregor Mendel first deduced the basic laws of inheritance But genetics as we recognize it today with its capacity both thrilling and sobering to manipulate the very essence of living things came into being only with the rise of molecular investigations culminating in the breakthrough discovery of the structure of DNA for which Watson shared a Nobel prize in 1962 In the DNA molecule's graceful curves was the key to a whole new science Having shown that the secret of life is chemical modern genetics has set mankind off on a journey unimaginable just a few decades ago Watson provides the general reader with clear explanations of molecular processes and emerging technologies He shows us how DNA continues to alter our understanding of human origins and of our identities as groups and as individuals And with the insight of one who has remained close to every advance in research since the double helix he reveals how genetics has unleashed a wealth of possibilities to alter the human condition from genetically modified foods to genetically modified babies and transformed itself from a domain of pure research into one of big business as well It is a sometimes topsy turvy world full of great minds and great egos driven by ambitions to improve the human condition as well as to improve investment portfolios a world vividly captured in these pages Facing a future of choices and social and ethical implications of which we dare not remain uninformed we could have no better guide than James Watson who leads us with the same bravura storytelling that made *The Double Helix* one of the most successful books on science ever published Infused with a scientist's awe at nature's marvels and a humanist's profound sympathies *DNA* is destined to become the classic telling of the defining scientific saga of our age

Double Helix Nancy Werlin, 2005-05-05 Eighteen year old Eli discovers a shocking secret about his life and his family while working for a Nobel Prize winning scientist whose specialty is genetic engineering

The Gene Siddhartha Mukherjee, 2016-05-17 The 1 NEW YORK TIMES Bestseller The basis for the PBS Ken Burns Documentary The Gene An Intimate History Now includes an excerpt from Siddhartha Mukherjee's new book Song of the Cell From the Pulitzer Prize winning author of The Emperor of All Maladies a fascinating history of the gene and a magisterial account of how human minds have laboriously ingeniously picked apart what makes us tick Elle Sid Mukherjee has the uncanny ability to bring together science history and the future in a way that is understandable and riveting guiding us through both time and the mystery of life itself Ken Burns Dr Siddhartha Mukherjee dazzled readers with his Pulitzer Prize winning The Emperor of All Maladies in 2010 That achievement was evidently just a warm up for his virtuoso performance in The Gene An Intimate History in which he braids science history and memoir into an epic with all the range and biblical thunder of Paradise Lost The New York Times In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives personalities identities fates and choices Mukherjee expresses abstract intellectual ideas through emotional stories and swaddles his medical rigor with rhapsodic tenderness surprising vulnerability and occasional flashes of pure poetry The Washington Post Throughout the story of Mukherjee's own family with its tragic and bewildering history of mental illness reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world In riveting and dramatic prose he describes the centuries of research and experimentation from Aristotle and Pythagoras to Mendel and Darwin from Boveri and Morgan to Crick Watson and Franklin all the way through the revolutionary twenty first century innovators who mapped the human genome A fascinating and often sobering history of how humans came to understand the roles of genes in making us who we are and what our manipulation of those genes might mean for our future Milwaukee Journal Sentinel The Gene is the revelatory and magisterial history of a scientific idea coming to life the most crucial science of our time intimately explained by a master The Gene is a book we all should read USA TODAY

Microbiology Nina Parker, OpenStax, Mark Schneegurt, Anh Hue Thi Tu, Brian M. Forster, Philip Lister, 2016-05-30 Microbiology covers the scope and sequence requirements for a single semester microbiology course for non majors The book presents the core concepts of microbiology with a focus on applications for careers in allied health The pedagogical features of the text make the material interesting and accessible while maintaining the career application focus and scientific rigor inherent in the subject matter Microbiology's art program enhances students understanding of concepts through clear and effective illustrations diagrams and photographs Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press The book aligns with the curriculum guidelines of the American Society for Microbiology BC Campus website

DNA National Science Foundation (U.S.), 1983 Essays discuss recombinant DNA research and the structure mobility and self repairing mechanisms of DNA

Molecular Biology of the Gene James D. Watson, Tania A. Baker, Stephen P. Bell, 2014 Now completely up to date with the latest research advances the Seventh Edition retains the distinctive character of earlier editions Twenty two concise chapters co authored by six highly distinguished biologists provide current authoritative coverage of an exciting fast changing discipline

The Transforming Principle Maclyn McCarty, 1986 Forty years ago three medical researchers Oswald Avery Colin MacLeod and Maclyn McCarty made the discovery that DNA is the genetic material With this finding was born the modern era of molecular biology and genetics

The Making of the Fittest: DNA and the Ultimate Forensic Record of Evolution Sean B. Carroll, 2007-08-28 A geneticist discusses the role of DNA in the evolution of life on Earth explaining how an analysis of DNA reveals a complete record of the events that have shaped each species and how it provides evidence of the validity of the theory of evolution

A Brief History of Genetics Chris Rider, 2020-10-27 Biological inheritance the passage of key characteristics down the generations has always held mankind's fascination It is fundamental to the breeding of plants and animals with desirable traits Genetics the scientific study of inheritance can be traced back to a particular set of simple but ground breaking studies carried out 170 years ago The awareness that numerous diseases are inherited gives this subject considerable medical importance The progressive advances in genetics now bring us to the point where we have unravelled the entire human genome and that of many other species We can intervene very precisely with the genetic make up of our agricultural crops and animals and even ourselves Genetics now enables us to understand cancer and develop novel protein medicines It has also provided us with DNA fingerprinting for the solving of serious crime This book explains for a lay readership how where and when this powerful science emerged

Cells: Molecules and Mechanisms Eric Wong, 2009 Yet another cell and molecular biology book At the very least you would think that if I was going to write a textbook I should write one in an area that really needs one instead of a subject that already has multiple excellent and definitive books So why write this book then First it's a course that I have enjoyed teaching for many years so I am very familiar with what a student really needs to take away from this class within the time constraints of a semester Second because it is a course that many students take there is a greater opportunity to make an impact on more students pocketbooks than if I were to start off writing a book for a highly specialized upper level course And finally it was fun to research and write and can be revised easily for inclusion as part of our next textbook High School Biology Open Textbook Library

The Evaluation of Forensic DNA Evidence National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on DNA Forensic Science: An Update, 1996-12-12 In 1992 the National Research Council issued DNA Technology in Forensic Science a book that documented the state of the art in this emerging field Recently this volume was brought to worldwide attention in the murder trial of celebrity O J Simpson The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published The committee comments on statements in the original book that proved controversial or that have been misapplied in the courts This volume offers recommendations for handling DNA samples performing calculations and other aspects of using DNA as a forensic tool modifying some recommendations presented in the 1992 volume The update addresses two major areas Determination of DNA profiles The committee considers how laboratory errors particularly false matches can arise how errors might be reduced and how to take into account the fact that the error rate can never be reduced to zero Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA The committee addresses controversies in population genetics exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies This volume examines statistical issues in interpreting frequencies as probabilities including adjustments when a suspect is found through a database search The committee includes a detailed discussion of what its recommendations would mean in the courtroom with numerous case citations By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence this technical update will be important to forensic scientists and population geneticists and helpful to attorneys judges and others who need to understand DNA and the law Anyone working in laboratories and in the courts or anyone studying this issue should own this book

Anatomy and Physiology J. Gordon Betts, Peter DeSaix, Jody E. Johnson, Oksana Korol, Dean H. Kruse, Brandon Poe, James A. Wise, Mark Womble, Kelly A. Young, 2013-04-25

Learning Basic Genetics with Interactive Computer Programs Charles C. Tseng, Xiaoli Yang, 2014-07-08 Traditionally genetics laboratory exercises at the university level focus on mono and dihybrid crosses and phenotypic analysis exercises under traditional time materials and process constraints. Lately molecular techniques such as gene cloning, polymerase chain reactions (PCR), and bioinformatics are being included in many teaching laboratories where affordable. Human chromosome analysis when present at all has often been restricted to simple identification of chromosomes by number through the usual cut and paste method. Although several online karyotyping chromosome identification programs have become available, they are not meaningful for studying the dynamics of the chromosome system nor do they help students understand genetics as a discipline. The software that accompanies this book has been shown to be an ideal tool for learning about genetics, which requires a combination of understanding, conceptualization, and practical experience.

Bloodsworth Tim Junkin, 2005-10-14 Fans of *Serial* and *Making a Murderer* meet Kirk Bloodsworth, the first death row inmate exonerated by DNA evidence. Charged with the rape and murder of a nine-year-old girl in 1984, Bloodsworth was tried, convicted, and sentenced to die in Maryland's gas chamber. From the beginning, he proclaimed his innocence, but when he was granted a new trial because his prosecutors improperly withheld evidence, the second trial also resulted in conviction. Bloodsworth read every book on criminal law in the prison library and persuaded a new lawyer to petition for the then-innovative DNA testing. After nine years in one of the harshest prisons in America, Bloodsworth was vindicated by DNA evidence. Intense and hard-hitting, *Bloodsworth* is the story of a man's tireless fight against a justice system that failed him.

Molecular Biology of The Cell Bruce Alberts, 2002

This book delves into The Double Helix Worksheet Answers. The Double Helix Worksheet Answers is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into The Double Helix Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

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