

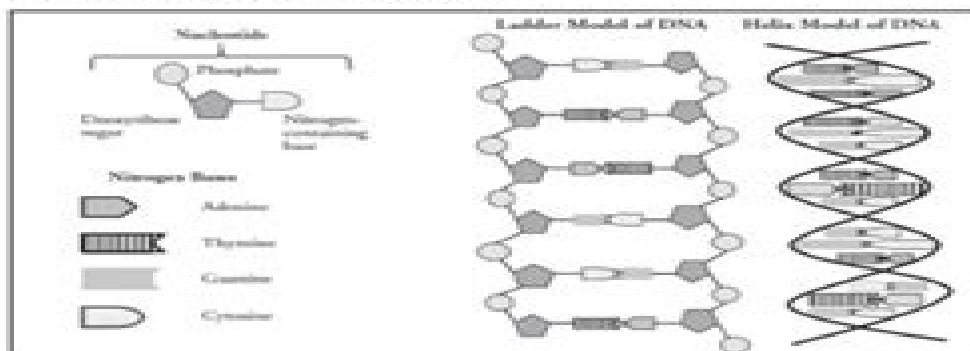
POGIL – DNA Structure and Replication

How is genetic information stored and copied?

Why?

Deoxyribonucleic acid or **DNA** is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. So how does the structure of DNA allow it to copy itself so accurately?

Model 1 – The Structure of DNA



1. Refer to the diagram in Model 1.

- What are the three parts of a nucleotide?
- What kind of sugar is found in a nucleotide?
- Which nucleotide component contains nitrogen?
- Name the four nitrogen bases shown in Model 1.

2. DNA is often drawn in a "ladder model." Locate this drawing in Model 1.

- Circle a single nucleotide on each side of the ladder model of DNA.

- What part(s) of the nucleotides make up the rungs of the "ladder"?
- What parts of the nucleotides make up the sides (backbone) of the "ladder"?
- Look at the bottom and top of the "ladder" in Model 1. Are the rungs parallel (the ends of the strands match) or antiparallel (the ends of the strands are opposites)? Describe what antiparallel means.
- Label the 5' and 3' end of each strand in the ladder model of DNA in Model 1.

3. The two strands of DNA are held together with hydrogen bonds between the nitrogen bases. These are weak bonds between polar molecules. Which bases are paired together with hydrogen bonds? How many hydrogen bonds connect the bases of each pair? Draw and label a diagram showing each base pairing.

READ: Erwin Chargaff (1906–2002), an Austrian-American biochemist, investigated the ratio of nucleotide bases found in the DNA from a variety of organisms. From his research, as well as research by Rosalind Franklin and Maurice Wilkins, Watson and Crick developed the complementary base-pair rule during their race to discover the structure of DNA. The complementary base-pair rule states that adenine and thymine form pairs across two strands, and guanine and cytosine form pairs across two strands.

4. Fill in the complementary bases on the strand below according to the base-pair rule.

5' - A T C C A G C G G T C A A - 3'

5. The proportions of the bases are consistent within a species; however, they do vary between species. Using the base-pair rules, complete the following table to show the percentage of each type of base in the three different organisms.

Organism	Percentage of each type of base			
	Adenine	Guanine	Cytosine	Thymine
Human		31		19
Cow	28		22	
Salmon	21			

Pogil Packet Dna

Haig H. Kazazian



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DNA from A to Z Daniel H. Farkas, 2004 This updated edition of a work previously titled *DNA Simplified* The Hitchhiker's Guide to DNA reflects the many changes in the field that have occurred in the last five years including the completion of the sequencing of the Human Genome Entries are written in plain language with a sense of whimsy and are illustrated with color and b w images and photos The book will be useful for students professionals and general readers Author information is not given Annotation 2004 Book News Inc Portland OR booknews com *DNA*, 1998 *Mobile DNA* Haig H. Kazazian, 2011-03-18 This book thoroughly reviews our current scientific understanding of the significant role that mobile genetic elements play in the evolution and function of genomes and organisms from plants and animals to humans Highly regarded geneticist Haig Kazazian offers an accessible intellectual history of the field's research strategies and concerns explaining how advances opened up new questions and how new tools and capabilities have encouraged progress in the field Kazazian introduces the key strategies and approaches taken in leading laboratories including his own to gain greater insight into the large proportion of our genome that derives from mobile genetic elements including viruses plasmids and transposons He also presents intriguing insights into long term research strategies that may lead to an even deeper understanding *DNA Simplified* Daniel H. Farkas, 1996 **DNA Profiling and DNA Fingerprinting** Jörg Epplen, Thomas Lubjuhn, 2012-12-11 This manual presents practical approaches to using DNA fingerprinting and genetic profiling to answer a variety of biological and medical questions It provides detailed methodology for setting up and performing experiments and evaluating results Extensive troubleshooting tips helpful hints and advice for daily practice are also included This will be a useful guide for scientists and researchers engaged in genetic identification and relationship analyses DNA Gary Parker, W. Ann Reynolds, Rex Reynolds, 1966 DNA Nation Sergio Pisto, 2019-10-20 An indispensable resource for understanding the complex world of over the counter genetic testing the impressive book explores territory that is both easy to understand and enlightening Kirkus Review Highly important life changing and delightfully written Pisto is pulling the rug out from under many of our preconceptions with continuous wit and humor A book which indeed demands to be savored Paul Levinson author of *The Silk Code* and *The Plot to Save Socrates* *DNA Nation* is a highly readable scientifically accurate guide to the brave new world of consumer genetic testing A must for anyone intrigued by ancestry health and the grand variety of humankind Ricki Lewis author of *Human Genetics* and *The Forever Fix* An enjoyable foray into the medical legal and ethical aspects of the ongoing genetic revolution a fun and important read guided by one of the nation's most gifted science writers Jacob M Appel author of *Who Says You're Dead* Millions of people have done it with a few clicks and some spit and at less than the cost of a fancy dinner you can buy a reading of your DNA online With this in hand you can find out where you came from trace relatives around the world and find new friends on a genetic social network You can learn about your predisposition to disease get a genetically tailored diet understand the sports to which you or your children might be more

suited and even find a date It s the dawn of consumer genomics where the progress of biology meets the power of the Internet and big data But do these applications work Can we really prevent diseases based on what we read in our DNA What do scientists say And do we really understand the implications What happens if things go wrong and the data is misused or the trust abused Sergio Pistoï a journalist and a DNA scientist investigated this brave new world first hand by interrogating his own genes and has provided a practical informative and thought provoking survival guide to home genetic testing From medicine to food from social networking to genealogy and advertising this book will show you how the DNA revolution is beginning to have such a profound impact on our daily lives and privacy and why it will influence the choices we make If you are interested in how social media meets cutting edge science and what it means for your life or if you are considering buying a DNA test then this is the book for you *Nonhuman DNA Typing* Heather Miller Coyle,2007-08-29 The association of a suspect with the victim or crime scene through DNA evidence is one of the most powerful statements of complicity in a crime imaginable No category of evidence has ever had the complete capacity to convict or exonerate an accused so absolutely in the eyes of the public With the discriminatory powers of DNA and the variety of D *Debugging Human DNA* Abder-Rahim Biad,2016-02-24 Our cells harbor many secrets to a long and healthy life working with our DNA and restoring it to functionality is where the secret lies Debugging Human DNA does not refer to research in biology labs and stem cells studies but rather it presents a technique to debug DNA inside the human body Most of us think of DNA as a genetic code biologists study in research labs but have no clue how DNA affects our daily lives DNA is the code that regulates every move in our daily living without it we will not be able to think or move DNA is no different than the computer binary language similarities exist between the two languages DNA is not just a code but also a conducting circuit the helix positive negative polarities allows of a two way communication from point A in the brain to point B anywhere in the body this can only be achieved electrically **DNA** James D. Watson,Andrew Berry,2004 Along with Frances Crick James Watson discovered the double helix structure of the DNA molecule This book describes the fifty years of explosive scientific achievement that derived from their work including Dolly the sheep GM foods designer babies **DNA** James D. Watson,2002 Beginnings of Genetics From Mendel to Hilter The Double Helix This is life Reading the Code Bringing DNA to Life Playing God Customized DNS Molecules DNA Dollars and Drugs Biotechnology **Cracking the Genome** Kevin Davies,2001-01-05 In 1953 James Watson and Francis Crick discovered the double helix structure of DNA The discovery was a profound Nobel Prize winning moment in the history of genetics but it did not decipher the messages on the twisted ladderlike strands within our cells No one knew what the human genome sequence actually was No one had cracked the code of life Now at the beginning of a new millennium that code has been cracked Kevin Davies founding editor of the leading journal in the field Nature Genetics has relentlessly followed the story as it unfolded week by week for ten years Here for the first time in rich human scientific and financial detail is the dramatic story of one of the greatest scientific feats ever accomplished the mapping of the human

genome In 1990 the U S government approved a 15 year 3 billion plan to launch the Human Genome Project whose goal was to sequence the 3 billion letters of human DNA At the helm of the project was James Watson who resigned after only a couple of years following a feud with National Institutes of Health NIH Director Bernadine Healy over gene patenting His successor was the brilliant young medical geneticist Francis Collins who had made his name discovering the gene for cystic fibrosis As Davies reports Collins is a devout Christian who has traveled to Africa to work in a missionary hospital He believes the human genome sequence is the language of God Just as Collins became project director J Craig Venter a maverick DNA sequencer and Vietnam veteran was leaving the NIH to start his own private research institute Venter had developed a simple shotgun strategy for sequencing DNA and his fame skyrocketed when his new institute proved his sequencing system worked by becoming the first to sequence the entire genome of a microorganism Only 3 percent of the human genome had been sequenced by early 1998 the public project s halfway point That same year Venter was approached by PE Corporation to launch a private human genome project He stunned the world when he announced the formation of a new company to sequence the human genome in a mere three years for 300 million A war of words broke out between public and private researchers Undeterred Venter built Celera Genomics with the motto Speed matters Discovery can t wait and an 80 million supercomputer While the insults intensified Celera s stock price soared tumbled and soared again Negotiations for cooperation between the public and private institutes began only to fall apart in acrimony Then in the spring of 2000 President Clinton stepped in telling his science adviser to restart negotiations History was about to be made Davies captures the drama of this momentous achievement drawing on his own genetics expertise and interviews with key scientists including Venter and Collins as well as Eric Lander an MIT computer wizard who refers to the public genome project as the forces of good Kari Stef nsson the genetics entrepreneur who is remaking Iceland s economy and John Sulston chief of the UK genome project who led the charge against gene patenting Davies has visited geneticists around the world to illustrate a vast international enterprise working on the frontier of human knowledge Cracking the Genome is the definitive account of how the code that holds the answers to the origin of life the evolution of humanity and the future of medicine was broken

DNA Work Group, CDPS Report and Recommendations Colorado. Governor's DNA Work Group,2007 **DNA Technology: the Awesome Skill** I. Edward Alcamo,1996 **DNA for Beginners** Israel Rosenfield,1985 **The DNA Question** Stephen Searfoss,2019-12-03 Also available as Kindle e Book DNA contains all the information needed to build a human or any other organism from the molecules on up Where does this information come from **DNA** ,197? **DNA Paternity Testing** ,2001*

Pogil Packet Dna: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pogil Packet Dna : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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