

DNA: THE CODE OF LIFE

Prok	Euk
Single layer (flagella attached)	Double layer
Nuclei	Nucleus
Nucleolus, ribosomes?	Nucleolus
Cell envelope	

↳ From the inside of cell to work.
 The structure of nucleic acid
 Two type of nucleic acid
 Deoxyribose & ribose sugar



DNA used to carry genetic information
 RNA used to carry information
 RNA found in nucleus and attached to a ribosome

Deoxyribonucleic acid
 - nucleic acid, genetic material
 - nucleic acid that carries genetic information
 - DNA is double helix
 - DNA carries information that the protein synthesis

Ribonucleic acid
 - nucleic acid, genetic material
 - RNA is single strand
 - RNA carries information that the protein synthesis

PROTEIN SYNTHESIS

- Transcription**
- occurs inside DNA nucleus
 - double-stranded DNA unzip to form two opposite strands
 - the strand to used for a template
 - to form mRNA
 - using this that messenger RNA the messenger
 - the mRNA is complementary to the DNA
 - which can carry the code message to protein synthesis
- Translation**
- each amino acids a genetic code carry
 - form the polypeptide chain
 - transfer with the strand on the ribosome
 - then when amino acid messenger RNA carry to the ribosome
 - amino acid transfer attached to each other by peptide bonds to form the polypeptide

DNA REPLICATION

What is DNA replication?
 - process through which a cell makes two copies of its DNA.
 1. The two new strands around and forms a daughter molecules.
 2. Initiated by enzymes.

What is DNA replication?

1. Each original strand of DNA acts as a template for itself.
2. The original strands of DNA is split.
3. Free DNA nucleotides are joined to the sugar-phosphate chain using the energy source of the DNA using the complementary strand.
4. The complementary strands form, the complementary strands with the complementary strands with.

What is DNA replication?

1. New complementary strand formed by the original template.
2. The result is 2 genetically identical DNA molecules.
3. The 2 new DNA strand is equal to their parents.

If the parent strands both attached to the original strands.
 - separation of these strands in the new DNA molecules.
 - resulting in a change in the gene structure.

Genotyping

- identifying particular traits such as height, eye colour.
- identifying disease for organ transplants.
- identification of genetic disorders.
- Forensic testing.
- identify criminal suspects.

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Princeton Review



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Guide to RBI Grade B Officers Exam 2019 Phase 1 - 3rd Edition Disha Experts,2019-09-06 **Dictionary Catalog of Official Publications of the State of New York** ,1973 Includes information from the Checklist of official publications of the State of New York *The Evolution of the Turkish School Textbooks from Atatürk to Erdogan* Hay Eytan Cohen Yanarocak,2022-09-26 This book narrates and analyzes a century of the Turkish education system and textbook indoctrination starting from the foundation of the Republic until today It divides the history of Turkish education into five periods Single party government 1923 1950 Menderes Democrat Party government 1950 1960 the 1960 coup generals and their successors governments 1960 1980 the Turkish Islam Synthesis oriented Atatürkist governments 1980 2002 and finally the Justice and Development Party AKP government 2002 By using the content analysis method this book exposes Kemalism s metamorphosis into Turkish Islam Synthesis influenced Atatürkism For the first time Cohen Yanarocak analyzes the indoctrination of this post 1980 official ideology through history religious studies civics and national security knowledge textbooks It goes beyond the Atatürkist period and examines the gradual but drastic Islamization of the whole curriculum and school textbooks at the expense of Atatürkism under the AKP In this framework this book highlights the recent penetration of controversial concepts such as Neo Ottomanism Jihad and Pan Turkism into the current Turkish school textbooks Certainly the ramifications of the current textbooks will influence the lives of millions of people Therefore this book functions as a crucial manual to understanding the current political environment in Turkey Handbook of Child Psychology and Developmental Science, Socioemotional Processes ,2015-03-31 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 3 Social Emotional and Personality Development presents up to date knowledge and theoretical understanding of these several facets of social emotional and personality processes The volume emphasizes that any specific processes function or behavior discussed in the volume co occurs alongside and is inextricably affected by the dozens of other processes functions or behaviors that are the focus of other researchers work As a result the volume underscores the importance of a focus on the whole developing child and his or her sociocultural and historical environment Understand the multiple processes that are interrelated in personality development Discover the individual cultural social and economic processes that contribute to the social emotional and personality development of individuals Learn about the several individual and contextual contributions to the development of such facets of the individual as morality spirituality or aggressive violent behavior Study the processes that contribute to the development of gender sexuality motivation and social engagement The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm

shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience [ICT in Education in Global Context](#) Ronghuai Huang, Kinshuk, Jon K. Price, 2015-11-05 This book aims to capture the current innovation and emerging trends of digital technologies for learning and education in K-12 sector through a number of invited chapters in key research areas Emerging Patterns of innovative instruction in different context Learning design for digital natives Digital learning resources for personalized learning in both formal and informal educational settings e leadership and teacher's digital capacity will be covered in the book This book intends to provide reference for the innovation in K-12 schools Researchers policy makers school administrators and also teachers could benefit from this book on researchers and methods for innovation in K-12 schools all over the world

Congressional Record United States. Congress, 1988 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789-1824 the Register of Debates in Congress 1824-1837 and the Congressional Globe 1833-1873

The Complete Book of Colleges, 2018 Edition Princeton Review, 2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1,355 colleges and universities

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