

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.

a. What are the three parts of a nucleotide?

Deoxyribose sugar, Phosphate, Nitrogen-containing base.

b. What kind of sugar is found in a nucleotide?

Deoxyribose

c. Which nucleotide component contains nitrogen?

bases (A,T,G,C)

d. Name the four nitrogen bases shown in Model 1.

Adenine, Thymine, Guanine, Cytosine

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

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

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Cumulated Index Medicus, 1993
cumulation covers six years 1965-70
Peacock, Richard Donald Brock, 1968
III, 2013-12-19 The genomic era has allowed enormous strides in our understanding of the molecular changes that underlie malignant transformation. Mutations have been discovered that are critical drivers of large cross sections of human cancers. These discoveries have allowed us to find drugs that target these drivers and make important strides in treatment. Genomics and high throughput technologies have illuminated the complexity of cancer and the facility with which cancers adapt during their natural history. The field is evolving rapidly with new discoveries and new drugs reported monthly. This book is a timely foundation for understanding in context the origins of molecular oncology and its future directions. The content reviews available technologies for the analysis of cancer tissues and genes, summaries of key oncogenic pathways from a molecular perspective, the technologies, pathways and targeted therapies of a wide range of human malignancies and new pharmacologic therapies that have a common mechanistic target.

Current Catalog National Library of Medicine (U.S.), 1968
First multi year
Replication and Recombination of Genetic Material William James
Molecular Oncology Edward P. Gelmann, Charles L. Sawyers, Frank J. Rauscher,
Retroviruses John M. Coffin, Stephen H. Hughes, Harold Varmus, 1997
For over 25 years the study of retroviruses has underpinned much of what is known about information transfer in cells and the genetic and biochemical mechanisms that underlie cell growth and cancer induction. Emergent diseases such as AIDS and adult T cell lymphoma have widened even further the community of investigators directly concerned with retroviruses, a development that has highlighted the need for an integrated understanding of their biology and their unique association with host genomes. This remarkable volume satisfies that need. Written by a group of the field's most distinguished investigators, rigorously edited to provide a seamless narrative and elegantly designed for clarity and readability, this book is an instant classic that demands attention from scientists and physicians studying retroviruses and the disorders in which they play a role.

Journal of the Federated Institutes of Brewing Institute of Brewing (Great Britain), 1989
Pandex Current Index to Scientific and Technical Literature, 1969
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Biochemistry, Fifth Edition Jeremy M. Berg, John L. Tymoczko, Lubert Stryer, 2002-02-15
This book is an outgrowth of my teaching of biochemistry to undergraduates, graduate students and medical students at Yale and Stanford. My aim is to provide an introduction to the principles of biochemistry.

that gives the reader a command of its concepts and language I also seek to give an appreciation of the process of discovery in biochemistry *Index of Tissue Culture* ,1972 **Anticancer Research** ,1981 **Breeding Research** ,1989
 Journal of the National Cancer Institute ,1978

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