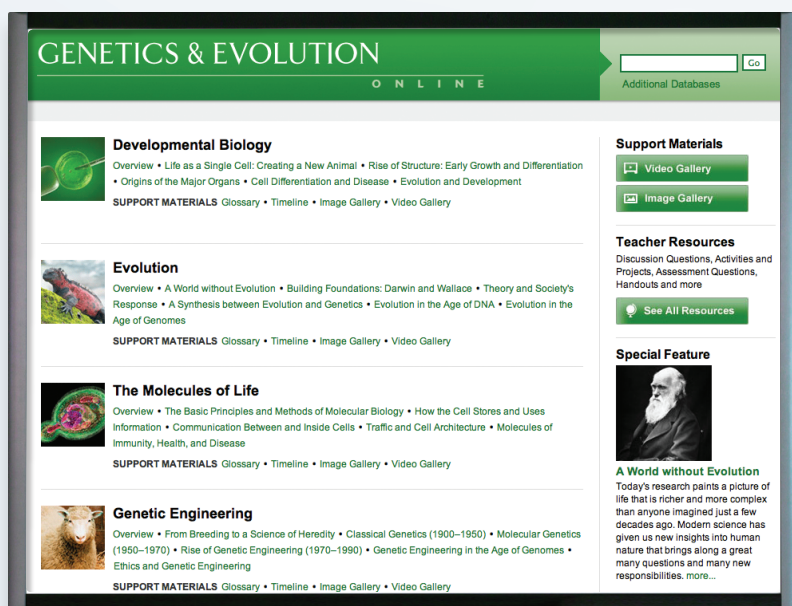


Genetics and Evolution

ONLINE



GENETICS & EVOLUTION
ONLINE

Additional Databases

Developmental Biology
Overview • Life as a Single Cell: Creating a New Animal • Rise of Structure: Early Growth and Differentiation • Origins of the Major Organs • Cell Differentiation and Disease • Evolution and Development
SUPPORT MATERIALS Glossary • Timeline • Image Gallery • Video Gallery

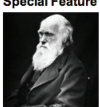
Evolution
Overview • A World without Evolution • Building Foundations: Darwin and Wallace • Theory and Society's Response • A Synthesis between Evolution and Genetics • Evolution in the Age of DNA • Evolution in the Age of Genomes
SUPPORT MATERIALS Glossary • Timeline • Image Gallery • Video Gallery

The Molecules of Life
Overview • The Basic Principles and Methods of Molecular Biology • How the Cell Stores and Uses Information • Communication Between and Inside Cells • Traffic and Cell Architecture • Molecules of Immunity, Health, and Disease
SUPPORT MATERIALS Glossary • Timeline • Image Gallery • Video Gallery

Genetic Engineering
Overview • From Breeding to a Science of Heredity • Classical Genetics (1900–1950) • Molecular Genetics (1950–1970) • Rise of Genetic Engineering (1970–1990) • Genetic Engineering in the Age of Genomes • Ethics and Genetic Engineering
SUPPORT MATERIALS Glossary • Timeline • Image Gallery • Video Gallery

Support Materials

Teacher Resources
Discussion Questions, Activities and Projects, Assessment Questions, Handouts and more

Special Feature

A World without Evolution
Today's research paints a picture of life that is richer and more complex than anyone imagined just a few decades ago. Modern science has given us new insights into human nature that brings along a great many questions and many new responsibilities. more...

Combining intriguing full-color images with informative text, *Genetics and Evolution Online* provides up-to-date research on key issues in the field of biology to explain how the history of scientific ideas and methods connects to today's research. Learning Units in this essential online resource include forays into developmental biology, genetic engineering, and the future of the study of genetics.

Learning Unit Chapters

Each eLearning Module is divided into Learning Units, displayed in chapters, with high-quality images, sidebars, in-text links, and dynamic citations. Support materials for each chapter are also conveniently located, allowing for seamless in-class integration. Learning Units in *Genetics and Evolution Online* include:

Developmental Biology
Evolution
The Molecules of Life
Genetic Engineering

Human Genetics
The Future of Genetics.

Targeted, Focused BIOLOGY Content

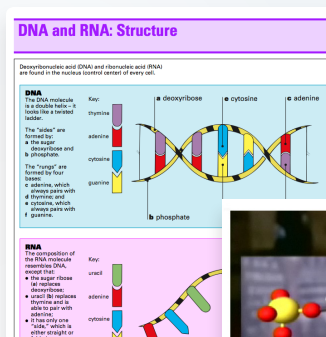
Printable
Materials

DNA and RNA: Structure

Deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) are found in the nucleus (nucleolus) of every cell.

DNA
The DNA molecule is made up of two strands that are twisted together. The "sugar" is deoxyribose. The "phosphate" is phosphate. The "bases" are nitrogenous bases. The bases are adenine, thymine, cytosine, and guanine. Adenine pairs with thymine. Cytosine pairs with guanine.

RNA
The structure of the RNA molecule is different from DNA. RNA is single stranded. The "sugar" is ribose. The "phosphate" is phosphate. The "bases" are adenine, uracil, cytosine, and guanine. Adenine pairs with uracil. Cytosine pairs with guanine.



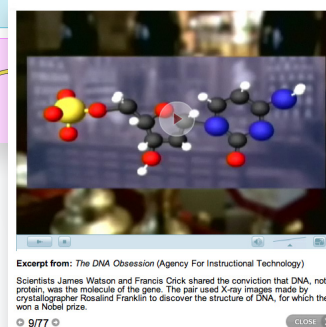
High-quality
Videos

High-quality Videos

Excerpt from: *The DNA Obsession* (Agency For Instructional Technology)

Scientists James Watson and Francis Crick shared the conviction that DNA, not protein, was the molecule of the gene. The pair used X-ray images made by crystallographer Rosalind Franklin to discover the structure of DNA, for which they won a Nobel prize.

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