

103-5 History, DNA Structure, and DNA Replication

Paper: labeled DNA model paper

Scientists and Discoveries

Doc: Chapter 10: DNA Scientists Graphic Organizer

Frederick Griffith: bacterial (virus) transformation

- studied 2 varieties (harmless and pneumonia-causing) of bacterium
- killed pathogenic bacteria and mixed with harmless
 - some bacterial cells were pathogenic
 - all descendants can cause disease
- Inherited chemical component changed harmless bacteria

Alfred Hershey & Martha Chase: DNA is the genetic material of cells

- Group 1: grew T2 with E.coli solution using radioactive sulfur
 - T2 affects proteins
- Group 2: grew T2 with E.coli solution with radioactive phosphorus
 - T2 affects healthy bacteria, is found inside bacteria
- viruses can attack and inject bacterial cells with virus genetic information

Rosalind Franklin: took x-ray crystallography photo of DNA

- crossway patterns indicate helical form of DNA

James Watson & Francis Crick: used Franklin's photo, credited with discovering double helix structure

- DNA is a helix
 - uniform diameter and nitrogenous bases
 - 2 polynucleotide strands
- single chain of nucleotides would have a density only half of density of DNA

Chargaff: base pairs of DNA; [A]=[T], [C]=[G]

Structure of DNA

- DNA is a **polynucleotide**, made up of many nucleotides that each contain:

I. **pentose:** (5-carbon) sugar

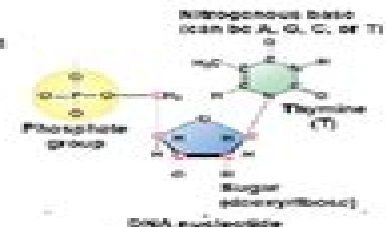
- A. 2 oxygen atoms
- B. Held together with phosphate groups in a covalent bond to form sugar-phosphate backbone

II. **Nitrogenous bases:** adenine, thymine, cytosine, guanine

- A. **Pyrimidine (single ring) bases:** thymine and cytosine
 1. **Get The Py**
- B. **Purine (double ring) bases:** adenine and guanine
 1. **Pur As Gold**
- C. Pyrimidine always pairs with purine
- D. A and G have a double hydrogen (weak) bond
- E. C and G have triple hydrogen (weak) bonds

III. **Phosphate groups:** attached to the 5th carbon of deoxyribose, pointed up

- A. Held together with pentose in a covalent bond to form sugar-phosphate backbone



Modern Biology Chapter 10 Notes

G Orfield



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Modern Principles of Economics Tyler Cowen, Alex Tabarrok, 2009-10-09 From the authors See the Invisible Hand Understand Your World That's the tagline of Modern Principles and our teaching philosophy Nobel laureate Vernon Smith put it this way At the heart of economics is a scientific mystery a scientific mystery as deep fundamental and inspiring as that of the expanding universe or the forces that bind matter How is order produced from freedom of choice We want students to be inspired by this mystery and by how economists have begun to solve it Thus we show how markets interconnect and respond in surprising ways to changes in resources and preferences Consider for example how markets respond to a reduction in the supply of oil Of course the price of oil increases giving consumers an incentive to use less and suppliers an incentive to discover more But an increase in the price of oil also encourages Brazilian sugar cane farmers to devote more of their production to ethanol and less to sugar thereby driving up the price of sugar An increase in the price of sugar means a reduction in the quantity of candy demanded So one way the market responds to a reduction in the supply of oil is by encouraging consumers to eat less candy In analyses like this we teach students to see the invisible hand and in so doing to understand their world Similarly we offer a unique and simple proof of the amazing invisible hand theorem that without any central direction competitive markets allocate production across firms in a way that minimizes aggregate costs To understand their world students must understand when self interest promotes the social interest and when it does not Thus Modern Principles has in depth analyses of externalities public goods and ethical issues with market incomes and trade Moreover we always discuss economic theory in the context of real world problems such as the decline of the ocean fisheries climate change and the shortage of human organs for transplant

A Conceptual History of Modern Embryology Scott F. Gilbert, 2013-11-11 Glory to the science of embryology So Johannes Holtfreter closed his letter to this editor when he granted permission to publish his article in this volume And glory there is glory in the phenomenon of animals developing their complex morphologies from fertilized eggs and glory in the efforts of a relatively small group of scientists to understand these wonderful events Embryology is unique among the biological disciplines for it denies the hegemony of the adult and sees value indeed more value in the stages that lead up to the fully developed organism It seeks the origin and not merely the maintenance of the body And if embryology is the study of the embryo as seen over time the history of embryology is a second order derivative seeing how the study of embryos changes over time As Jane Oppenheimer pointed out Science like life itself indeed like history itself is a historical phenomenon It can build itself only out of its past Thus there are several ways in which embryology and the history of embryology are similar Each takes a current stage of a developing entity and seeks to explain the paths that brought it to its present condition Indeed embryology used to be called *Entwicklungsgeschichte* the developmental history of the organism Both embryology and its history interpret the interplay between internal factors and external agents in the causation of new processes and events

Evolution Arthur

Peacocke, 2004-11-30 Arthur Peacocke eminent priest scientist has collected thirteen of his essays for this volume Previously published in various academic journals and edited books the provocative essays expand upon the theme of the evolution of nature humanity and belief They are grouped into three parts Natural Evolution covers topics ranging from the implications of deterministic chaos biological evolution and Christian theology chance potentiality and God complexity emergence and divine creativity Humanity Evolving in the Presence of God articulating God's presence in and to the world as it is unveiled by the sciences the chrysalis of the human the nature and purpose of man in science and Christian theology Theological Evolution the Reshaping of Belief dealing with science and the future of theology public truth in religion the incarnation of the self expressive word of God DNA and the challenges and possibilities of western theism In the epilogue Dr Peacocke discusses wisdom in science and education referring to Robert Grosseteste a medieval scientist theologian *Instinct and Revelation* Alondra Oubre, 2013-10-11 Instinct and Revelation revolves around the hypothesis that ritual behavior and imaginative awareness in early hominids may have helped to spawn the evolution of the human brain and human consciousness Using an integral perspective comparable with systems theory the book carefully interweaves fact and theory from physical and cultural anthropology psychobiology and the brain sciences psychology and to a lesser degree eastern philosophy This book breaks from tradition by discussing from a primarily anthropological perspective the origin of human consciousness within a philosophical framework that embraces precepts from human evolution evolutionary psychology the neurosciences biocultural anthropology and cultural symbolic anthropology Biological Science Biological Sciences Curriculum Study, 1963 Developmental Biology: A conceptual history of modern embryology Leon W. Browder, 1985 *The Graduate Journal*, 1967 Notes on the Nicomachean Ethics of Aristotle John Alexander Stewart, 1892 **Disease and Its Impact on Modern European History** Vincent J. Knapp, 1989 A study of the outbreak of seven major diseases plague syphilis smallpox typhus cholera tuberculosis and influenza on the European continent as well as the social and philosophical impact of these diseases Catalogue W. Heffer & Sons, 1928 **Essentials of Biology** Holt Rinehart & Winston, 1998 **Subject Index of Modern Books Acquired** British Library, 1922 *Biotheology* Michael Cavanaugh, 1996 This text synthesises modern biology with traditional religious doctrines The sections are divided into four parts biology theology biotheology in individual life and biotheology in group life It aims to assess the individual and social benefits of such a view Subject Index of the Modern Books Acquired by the British Museum in the Years ... British Museum, 1922 *Writing the Modern Research Paper* Robert Dees, 1997 Writing the Modern Research Paper is both a practical and contemporary guide to planning researching writing and documenting research papers Designed as a complete reference this book offers a step by step guide to the research process Original and realistic examples throughout show various approaches to the methods of planning and researching Both informative and argumentative purposes for doing research are covered This contemporary book offers full coverage of computer research technologies and extensive attention

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