

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

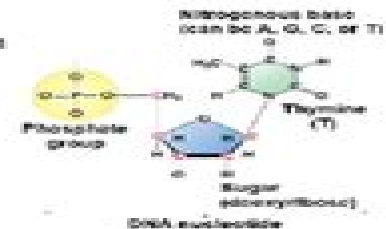
- A. 2 oxygen atoms
- B. Held together with phosphate groups in a covalent bond to form sugar-phosphate backbone

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



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Chao Zhang



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