

GENETICS

LESSON 1: DNA

Learning Outcomes:

- I can describe the basic structure and function of DNA.

Structure

- first observed in 1869 by the German biochemist Frederick Miescher
 - did not realize the importance of the molecule he had found
- discovery of the structure of DNA:
 - Maurice Wilkins (1950) – _____

 - Rosalind Franklin (1952) - _____

 - James Watson & Francis Crick (1953) – _____

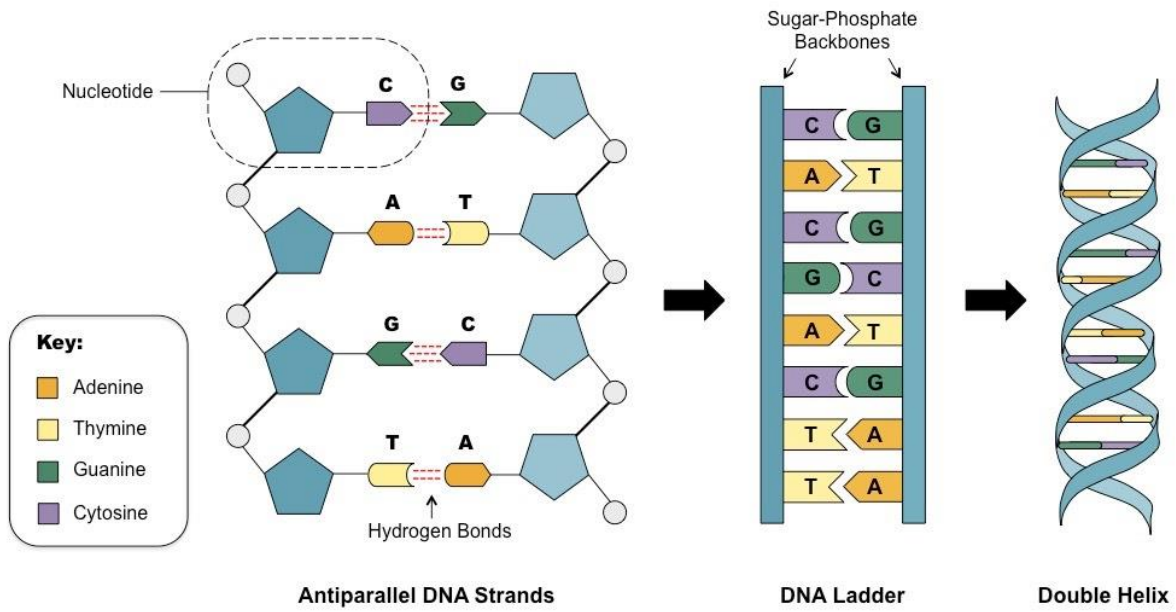
- Looks like a twisted ladder → _____
 - “Ladder sides” are made of _____
 - “Steps/Rungs” are made of _____
 - ❖ _____

- _____

_____ () ----- _____ () } called _____
_____ () ----- _____ ()

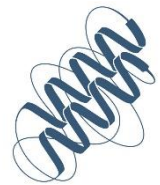
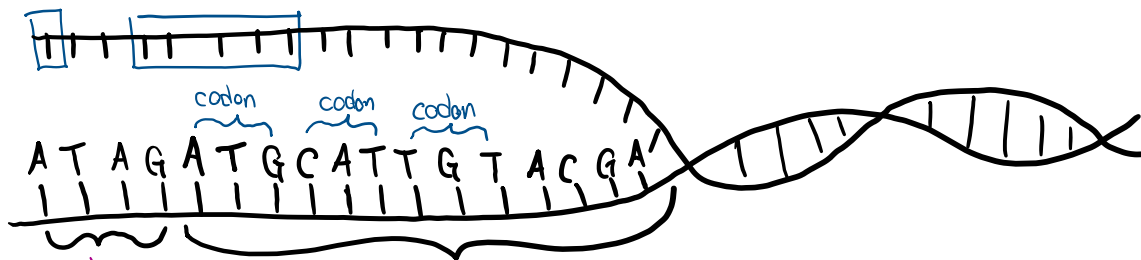
Example: Strand 1 A T A A C G T C A
 Strand 2

- Human DNA is composed of around 3 billion nucleotides on 46 chromosomes
- DNA stands for: _____



DNA Function

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