

Notes on DNA

Yonathan Berith Jaramillo Ramirez

September 26, 2021

1 Rembering old topics on DNA

What is DNA made of?

- Pentose sugar (the *sides* of the ladder)
- Phosphate group (the *sides* of the ladder)
- Nitrogenous bases (the rungs of the ladder)

What is a polymer:

Any of a class of natural or synthetic substances composed of very large molecules, called macromolecules.

What is a Nitrogenous base made of?

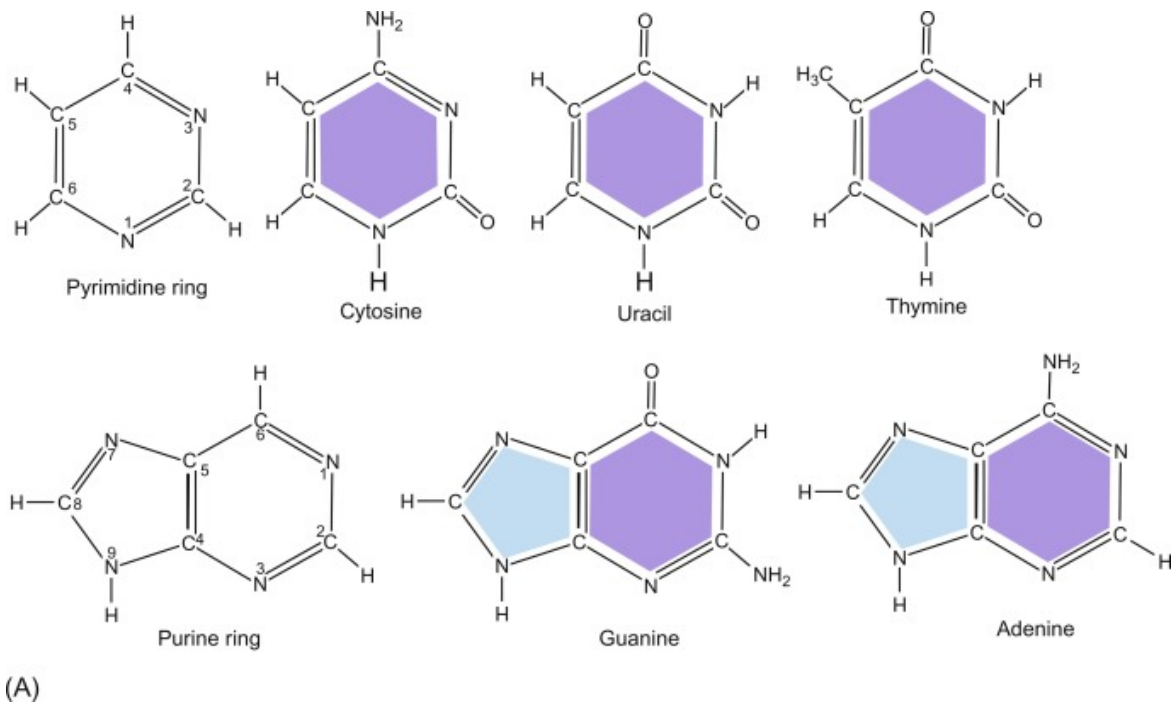


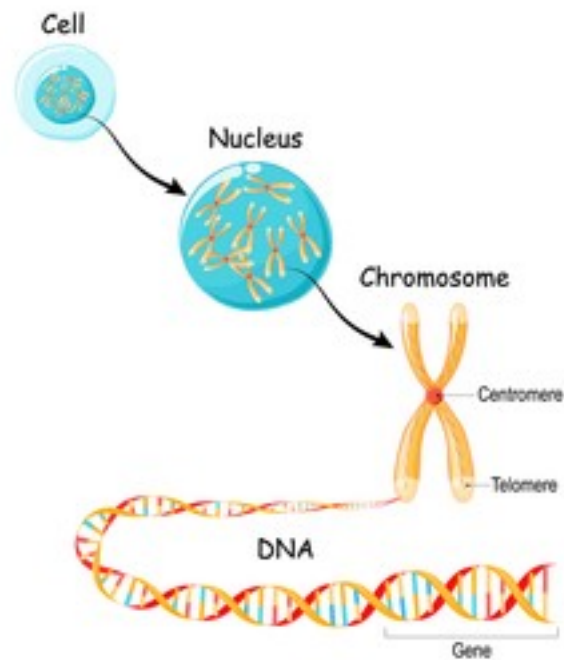
Figure 1: Nitrogenous bases are made of...

What process can you do with DNA?

- Translation (Protein Synthesis)
- Transcription (Synthesizes RNA)
- Central Dogma (Transcription + Translation)

Where on earth can I find DNA?

The nucleus of a cell contains Chromosomes and DNA is contained within the Chromosomes.



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Figure 2: DNA...

Nucleotide composition

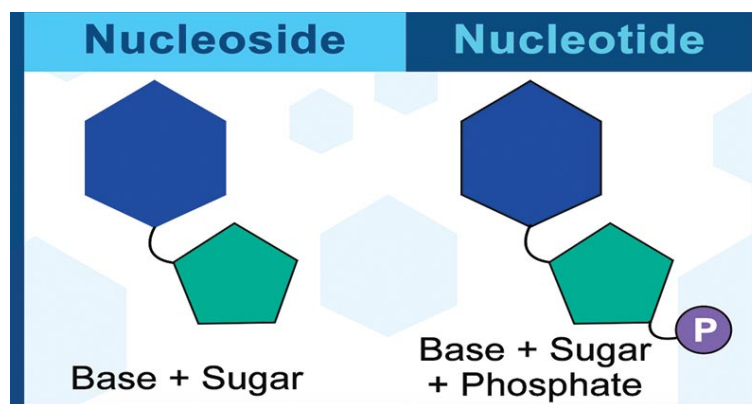


Figure 3: Here we see a nucleotide and a nucleoside

Remember!

- Humans share 99 of their DNA.
- Thymine gets along with Adenine. (hydrogen bonding)
- Guanine gets along with Cytosine. (hydrogen bonding)

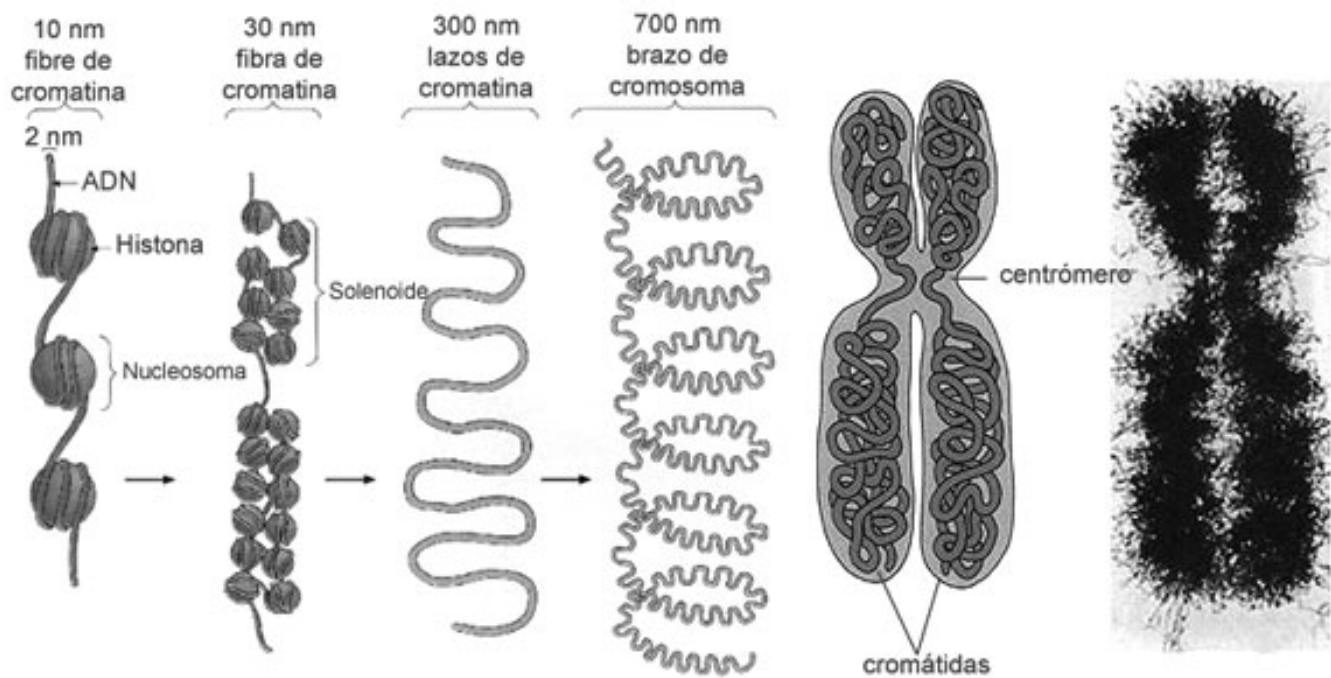


Figure 4: A deeper look into Chromosomes

2 Notes about the video

Beggining and struggles in the age of genomics.