

Nucleic Acids

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Why do we need nucleic acids?

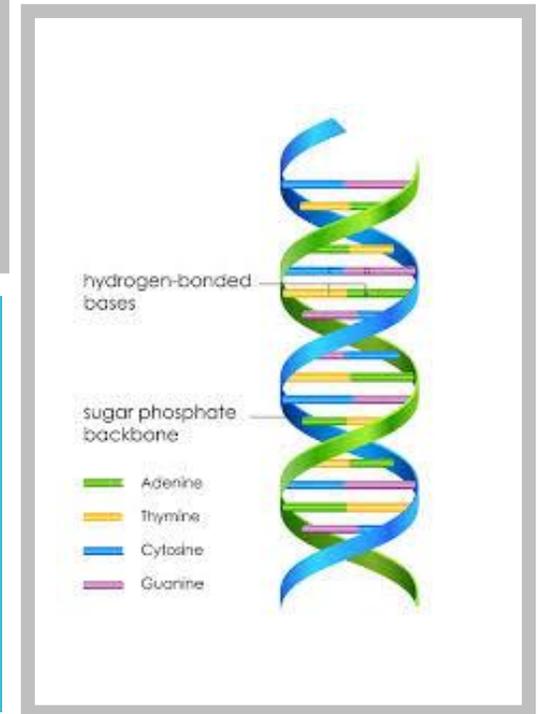
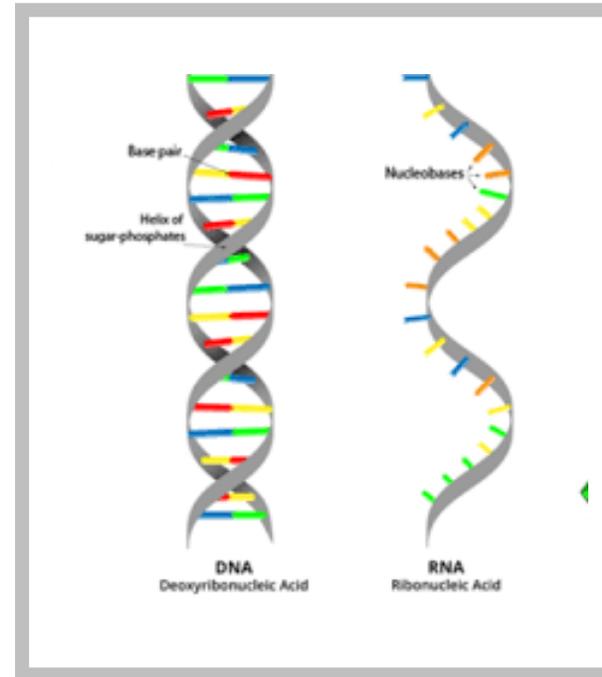
As a living human the main role of nucleic acids is to store information that we need to make proteins. These proteins are in the form of DNA and RNA

What is RNA?

Acid present in all cells.

What is DNA?

Found in all living material containing genetic information unique to you.



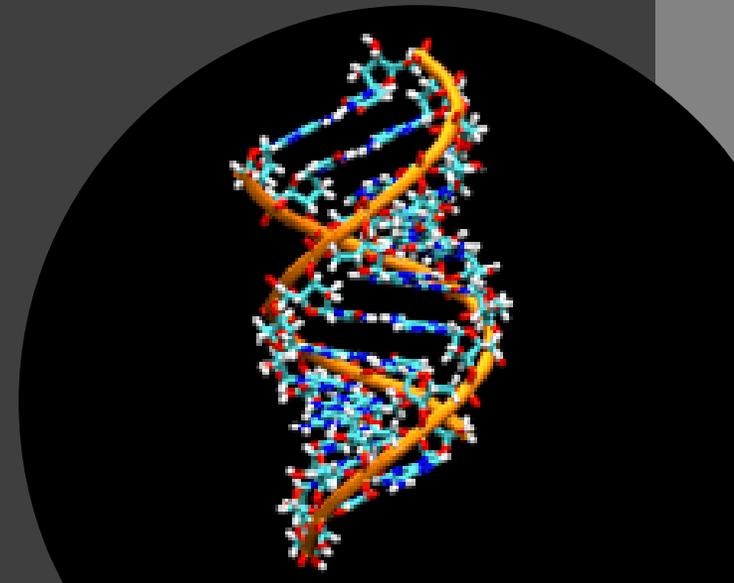
What are nucleic acids

Nucleic acids are a complex organic substance present in living cells.

Particularly DNA and RNA

DNA- deoxyribonucleic acid

RNA- ribonucleic acid



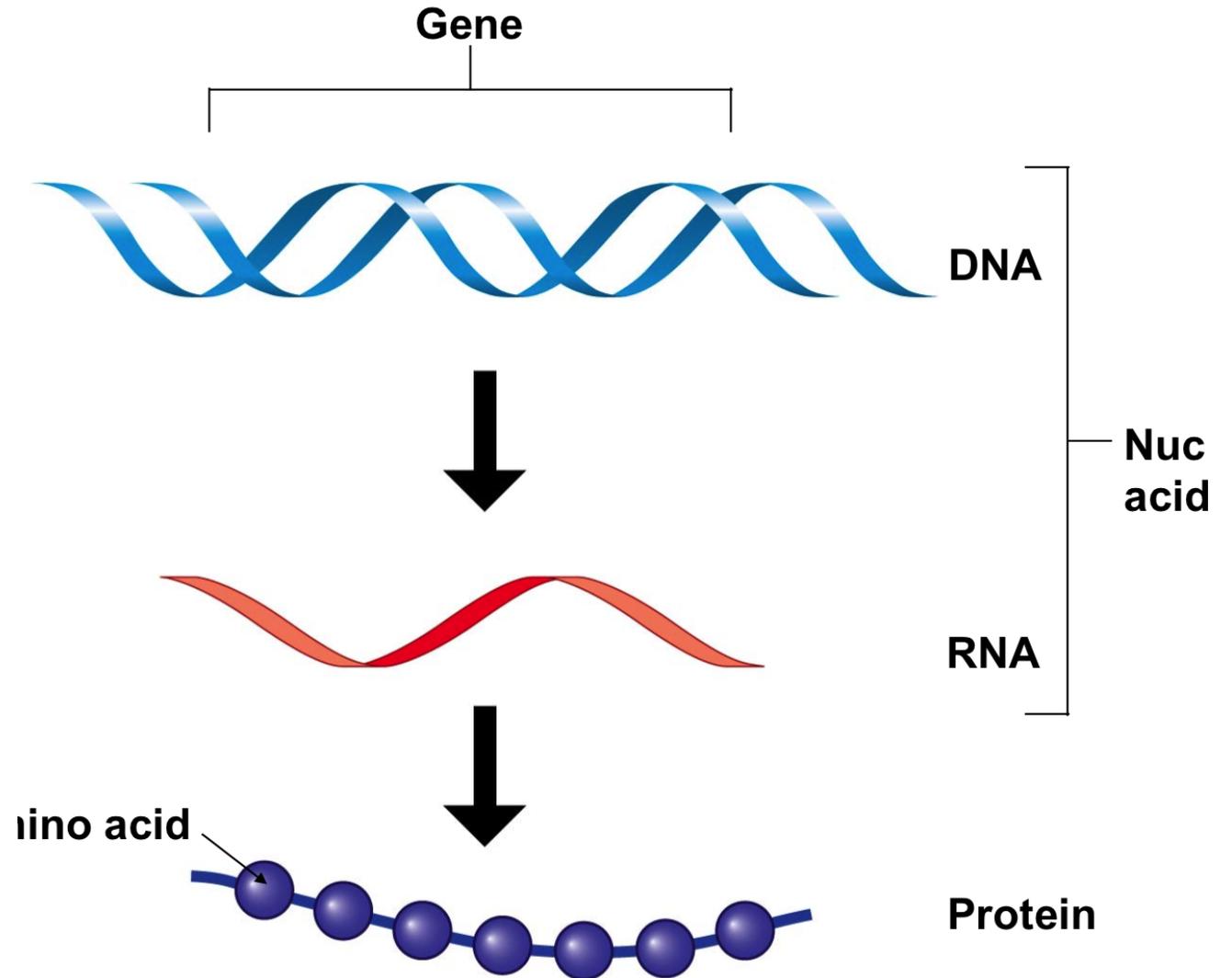
How do nucleic acids work

Nucleic acids are composed of building blocks called nucleotides that are linked together in a chain.

Nucleic acids store and transmit genetic information that you inherit from your parents.

Nucleic acids contain specific segments called genes that are responsible for producing every protein in your body.

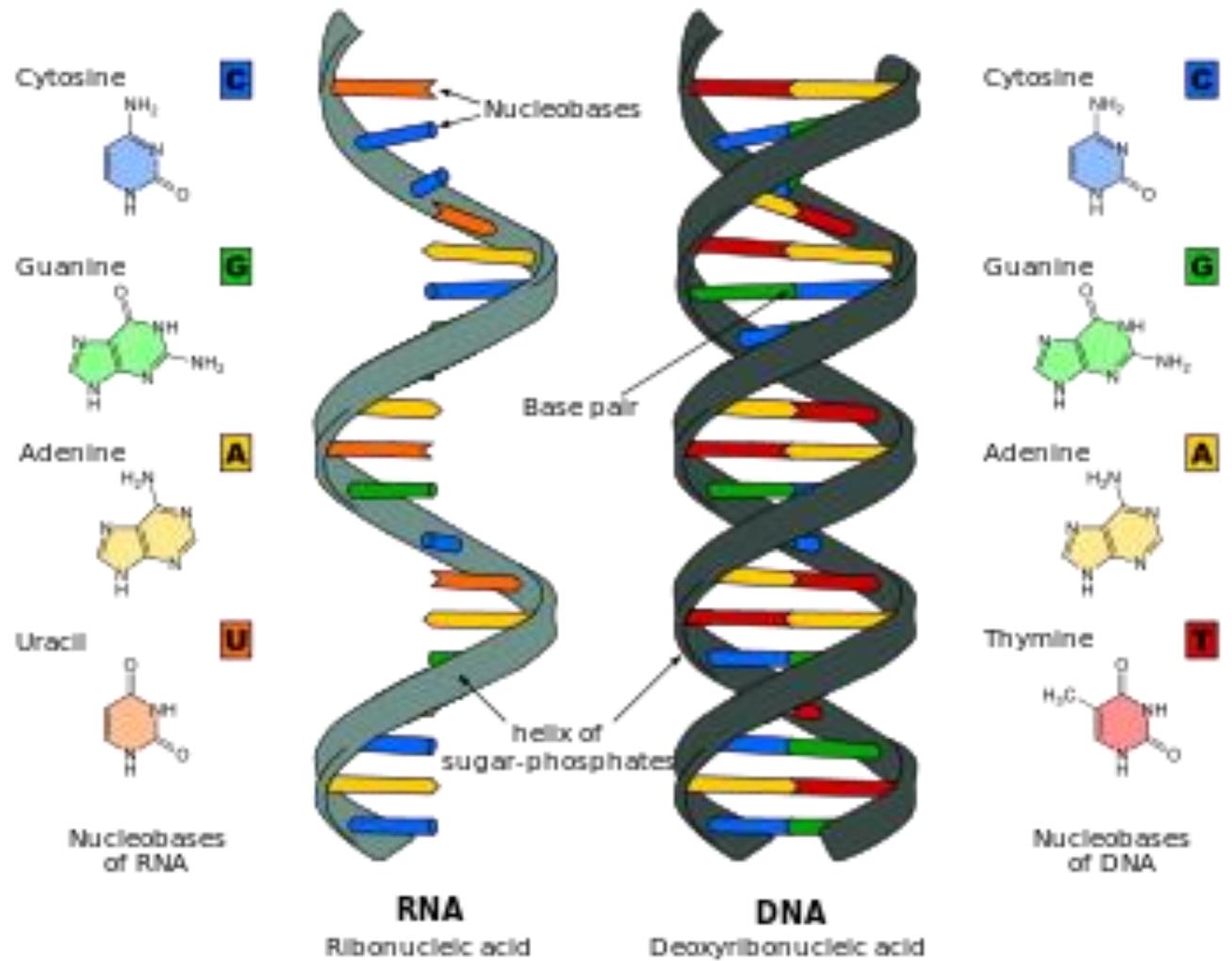
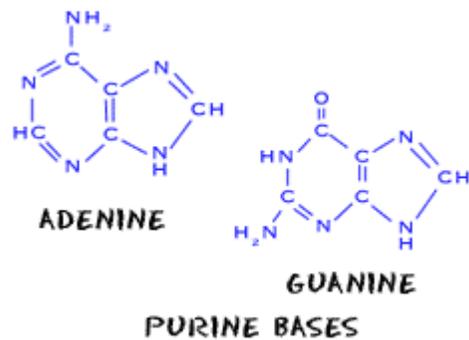
Expression of your genes controls the biological characteristics and functions of your entire body.



What nucleic acids look like?

Nucleic acid generally looks like a thick, colorless mucus.

The DNA is more, "stringy" other than the RNA which is a lot less.



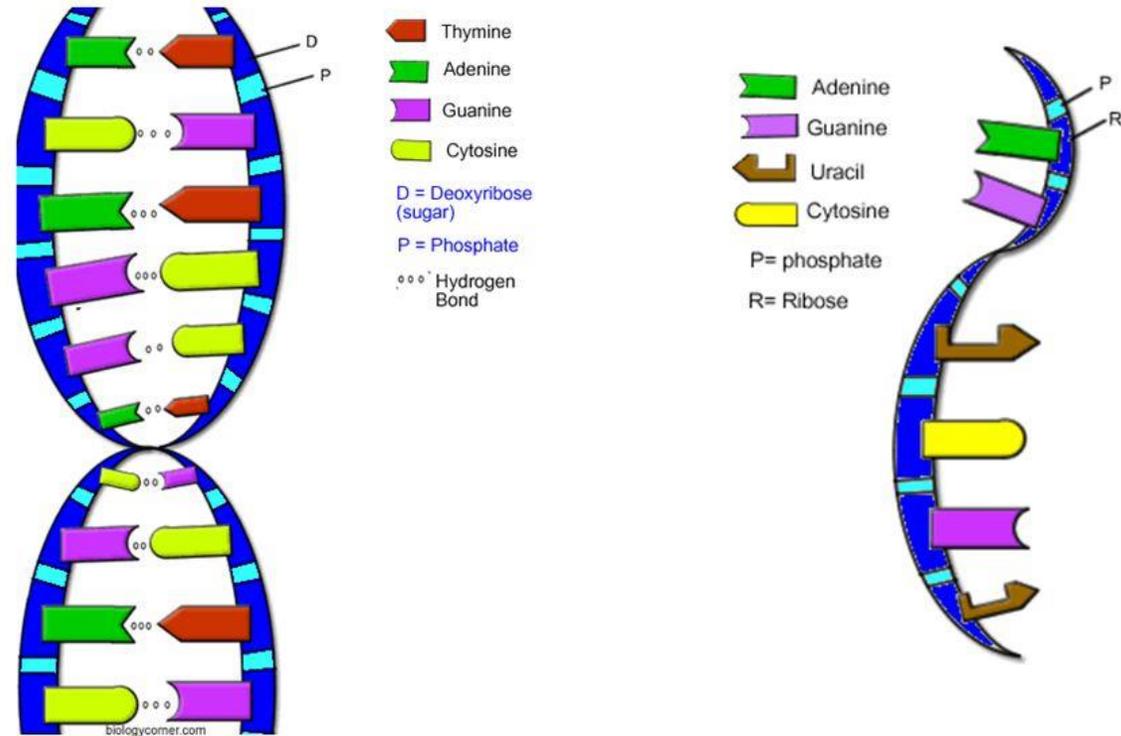
What are nucleic acids made of?

Nucleic acids are made up of building blocks that are called nucleotides.

These nucleotides are compounds that are made of nitrogen, a carbon sugar ring and one or more phosphate groups.

The five nucleotides that are the building blocks of nucleic acids are called cytosine, guanine, adenine, thymine and uracil.

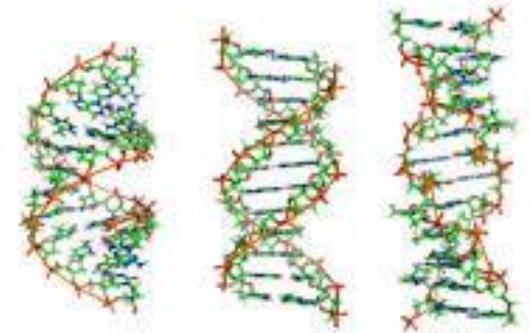
What are nucleic acids?



What are nucleic acids functions

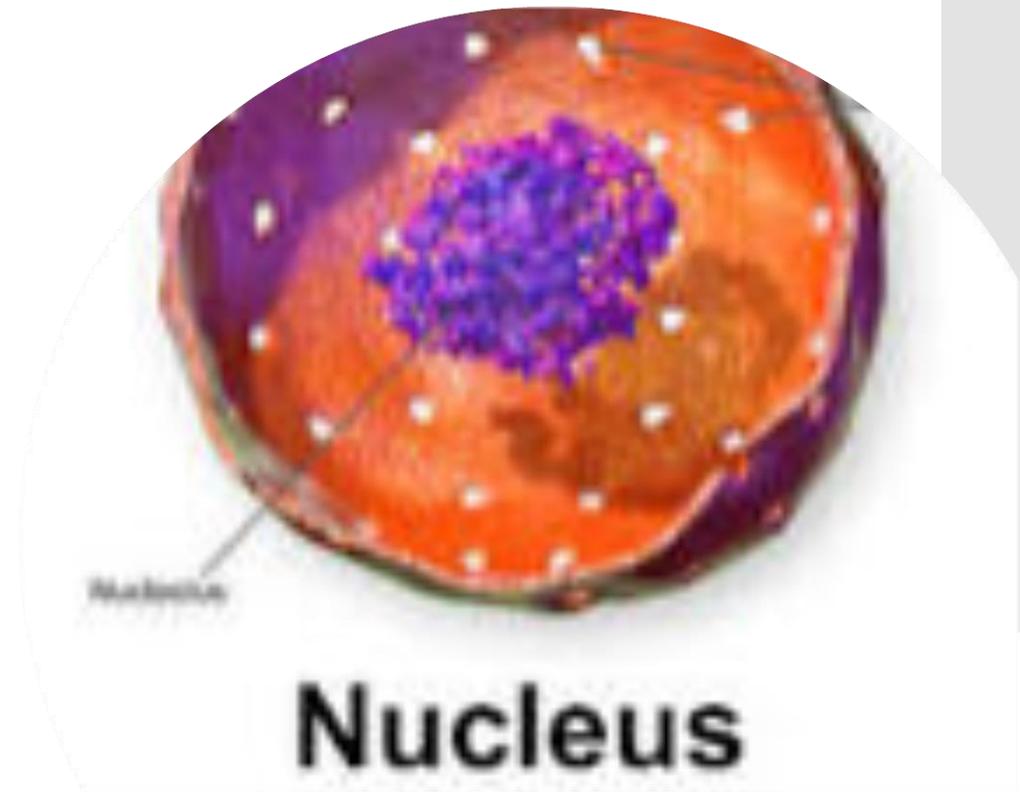
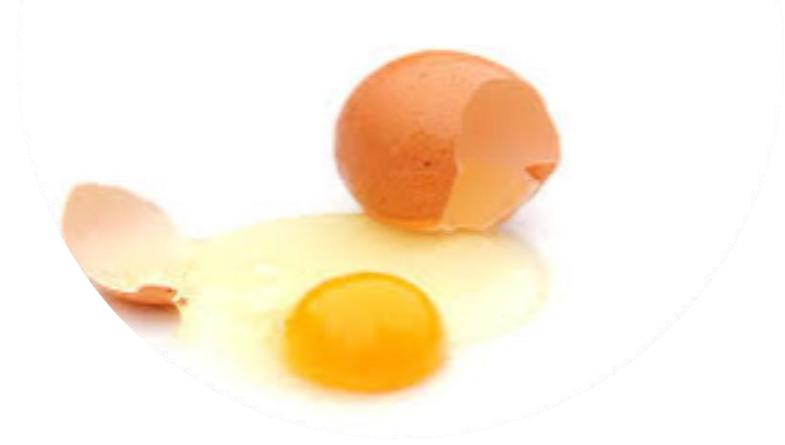
- Nucleic Acids consists of DNA and RNA
- Nucleic Acids Functions are to store and transfer genetic information.

Nucleic Acids

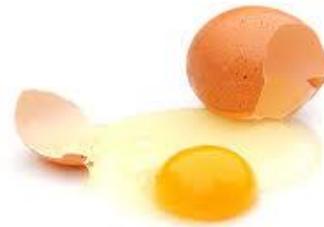


Where are nucleic acids found in

They are found in the nuclei of living cells.
They are also found in many types of foods.
DNA and RNA

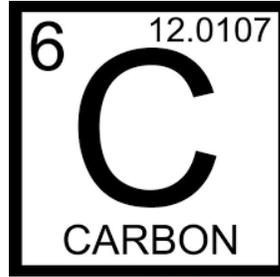


Foods that
nucleic acids
can be found
in



The elements that make up nucleic acids

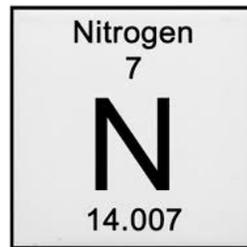
- Carbon



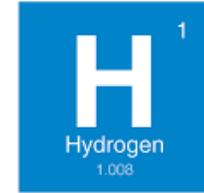
- Oxygen



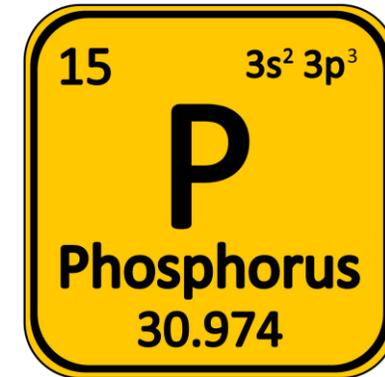
- Nitrogen



hydrogen



phosphorus



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How they use nucleotides



NUCLEOTIDES ARE MADE OF 5
CARBON SUGARS WITH A
PHOSPHATE AND NITROGEN BASE.



NUCLEOTIDES ARE MADE OF DNA
AND RNA