

Discovering DNA

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What is a virus?

What is DNA?

Deoxyribonucleic Acid

The DNA is like a set of instructions found in almost every living thing.

It holds all the information needed to build and maintain an organism, from plants to animals to humans.



***"It's like your own
unique secret recipe for
your life!"***

The genetic code

The genetic code is the system through which **the genetic information contained in DNA** is translated into proteins, which **perform all the functions necessary for life**.

It is composed of a sequence of nucleotides, the basic units of DNA and RNA, which specify the sequence of amino acids in a protein.

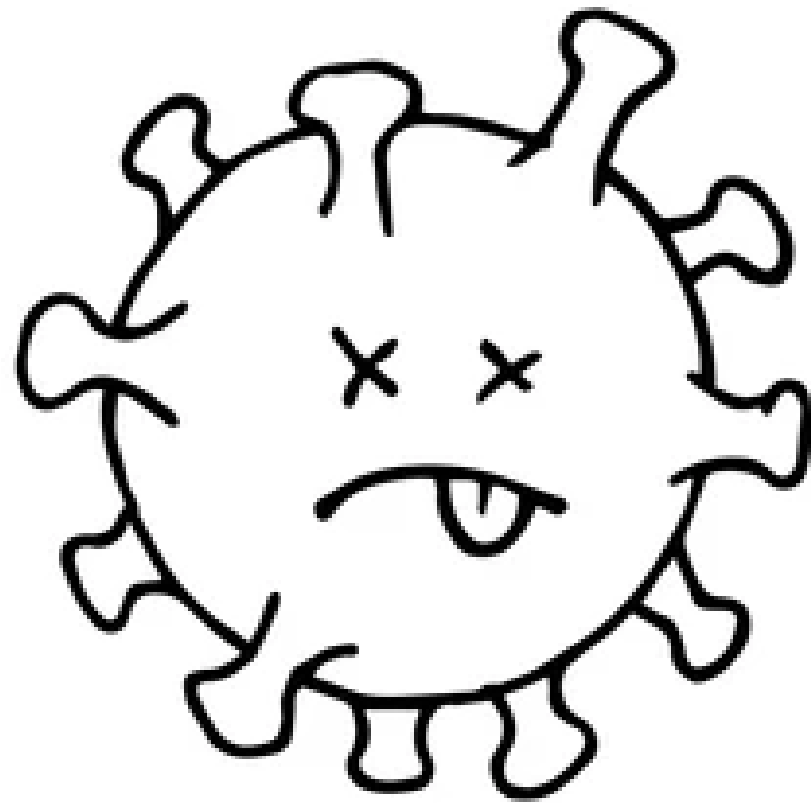
Adenine

Thymine

Cytosine

Guanine

What about this bad guy?



Viruses are basic organisms that contain their DNA

A virus essentially works by forcing a living cell to accept external DNA (remember, contained within the virus) and begin replicating it through the cell's reproductive processes (mitosis and meiosis).

How do viruses spread through?

DNA vs. Viruses

DNA vaccines

An example of vaccines are those that use the same fundamental mechanism: inoculating genetic information via DNA, to make the cells of the human body produce proteins (for example COVID-19) that induce a specific immune response.

DNA vs. Viruses

The COVID-19

An example of a DNA-based vaccine is one of the (various) SARS-CoV-2 (COVID-19) vaccines; it works by forcing cells to accept a different DNA (as happens in COVID-19 infection), but the difference is that the DNA in the vaccine is a less harmful version of the virus, so that the immune system can recognize the virus.

Introducing Virtual Reality



**VR headsets can create infinite ways
to discover and be creative**

Be ready to say “hello” and to immerse inside the
human body and see what is going on inside your cells!

Dank je wel!

“Eenvoud is de eerste stap der natuur en de laatste der kunst”

Philip James Bailey

* dall'Olandese: ***“La semplicità è il primo passo della natura e l'ultimo dell'arte”***