moderna®
this changes everything

The Power of mRNA

mRNA can teach the body how to make its own medicines in the form of proteins

Scientists are researching the **power of mRNA** to potentially help your body make proteins that may treat diseases or train your immune system to prevent them.

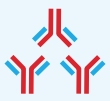
But what **exactly are proteins**, and what do they do in your body?

Proteins Are The "Workhorses" of Your Body

Protein

Proteins are important structural components, and are **essential** for maintaining health and preventing disease.

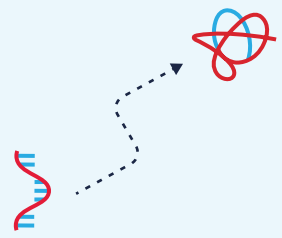
Antibodies are one type of protein that help your body **fight diseases**.



Antibodies

What Is mRNA?

mRNA is an essential part of you and **exists in all of your cells**. Your body makes lots of mRNA all the time.



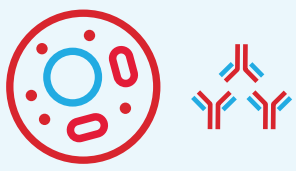
Each mRNA carries instructions like a "blueprint" to **make a specific protein**. Cells interpret this blueprint and put the protein together.

mRNA is **powerful but fragile**. Once mRNA does its job, it doesn't stay around for very long and is broken down by the body.

How Do Vaccines Work?

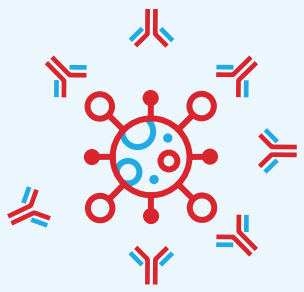
Vaccines help the body **recognize an infectious agent** like a virus.

When you get a vaccine, it triggers your body to **create antibodies,** a type of protein that can fight off the virus.



Cells create antibodies

If you are exposed to the virus in the future, your antibodies will remember the virus and **attack it**.

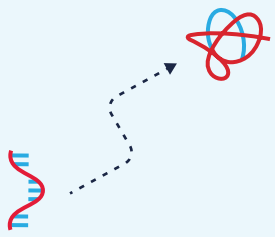


Antibodies attack virus

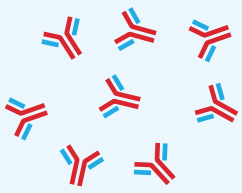
How Do mRNA Vaccines Work?

Scientists design mRNA vaccines to **teach your immune system** how to fight off infectious agents.

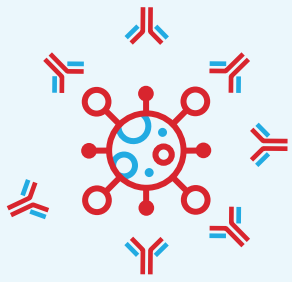
1 mRNA vaccines give your body **the instructions** it needs to make one or more viral proteins.



2 These proteins prompt your immune system to make a pool of **disease-fighting antibodies**.



3 These antibodies could help your body **fight off** the virus in the future.



mRNA is revolutionizing medicine.

For more information on mRNA technology, visit aboutmrna.com.