



USA ▾



The power of mRNA

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Our scientists are developing mRNA medicines to help prevent or treat disease.



It's all about proteins

At Moderna, we are working on developing and testing **new mRNA medicines** for a wide range of diseases.



We start with a protein

All mRNA medicines start with identifying a protein that is designed to prevent or treat a certain disease.



Then we design the mRNA

Our scientists design an mRNA that carries instructions for this protein.



And repeat this process to create other medicines

To make mRNA vaccines or therapeutics, our scientists create instructions to make different proteins that could help our body fight infections or prevent diseases.



We have an extensive pipeline

In addition to mRNA vaccines, Moderna is working on other applications of potential mRNA therapeutics that could help people with cancer, metabolic diseases and more.

mRNA is a modern approach to medicine

mRNA expertise

Our scientists are **experts** in creating mRNA medicines. They worked very hard to **refine** our process for making mRNA medicine.



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mRNA is transformational

With our technology, we are **revolutionizing** medicine and developing potential mRNA treatments in shorter periods of time for previously **untreatable and emerging diseases**.

We can positively impact the lives of millions of people

Our mRNA platform, with its **speed, scale, and flexibility**, is uniquely suited to tackle current and emerging pathogens that threaten global health.

mRNA research and innovation

Our research and design services enable us and our partners to **advance new product ideas** into development candidates.

Our infrastructure enables rapid supply of thousands of pre-clinical mRNAs for *in vitro* and *in vivo* research to **accelerate** programs from idea to development candidate designation.

Our Research Engine

Our Research Engine combines proprietary digital drug design tools and a highly automated production facility to enable Moderna to advance mRNA vaccines and therapeutics.

Scientists can select any protein in the human proteome to be engineered or they can design novel proteins. All can be designed to explore previously undiscovered pathways.



mRNA DESIGN STUDIO™

Our mRNA DESIGN STUDIO enables rapid design of multiple mRNAs.

As the DIGITAL BIOTECH COMPANY™, we **maximize the utility** of mRNA in our proprietary, web-based mRNA DESIGN STUDIO.

mRNA tailoring

- Our proprietary in-house digital application suite contains a Sequence Designer module to tailor an entire mRNA.
- mRNA DESIGN STUDIO utilizes **cloud-based computational capacity** to run various algorithms we have developed to design each mRNA sequence.



mRNA early development engine

Across our internally developed and partnered mRNA programs, we are **simultaneously advancing** mRNA development candidates for many diseases into and through clinical studies.

Our services

Our mRNA EARLY DEVELOPMENT ENGINE™ services combine internal and external capabilities for process development, toxicology studies, global regulatory interactions, and clinical study preparation and execution for our mRNA vaccines and therapeutics.

These services are designed to deliver many investigational mRNA vaccines and therapeutics to human proof of concept data.

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