



Written by [Veronika Kyrylenko](#) on July 25, 2025

Study: mRNA Covid Shots Tied to Lasting Genetic Damage, Illness, and Cancer

A new study posted to Preprints.org delivers yet another damning blow to the already crumbling narrative surrounding Covid mRNA injections — and serves as a critical piece of evidence in the growing case against their continued use. Titled [“Synthetic mRNA Vaccines and Transcriptomic Dysregulation: Evidence from New-Onset Adverse Events and Cancers Post-Vaccination,”](#) the analysis reveals sweeping, long-lasting genetic disruptions in patients who developed severe side effects or cancer after receiving mRNA Covid shots by Pfizer or Moderna. This, according to the study, points toward mitochondrial dysfunction, immune reprogramming, and the activation of cancer pathways.



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The research team spans multiple institutions: Neo7Bioscience, the University of North Texas, the McCullough Foundation, and Medicinal Genomics. It includes respected scientists like Dr. Peter McCullough, Dr. John Catanzaro, and geneticist Kevin McKernan. Together, using high-resolution RNA sequencing, they examined blood samples from individuals harmed following vaccination.

Cohorts and Comparisons

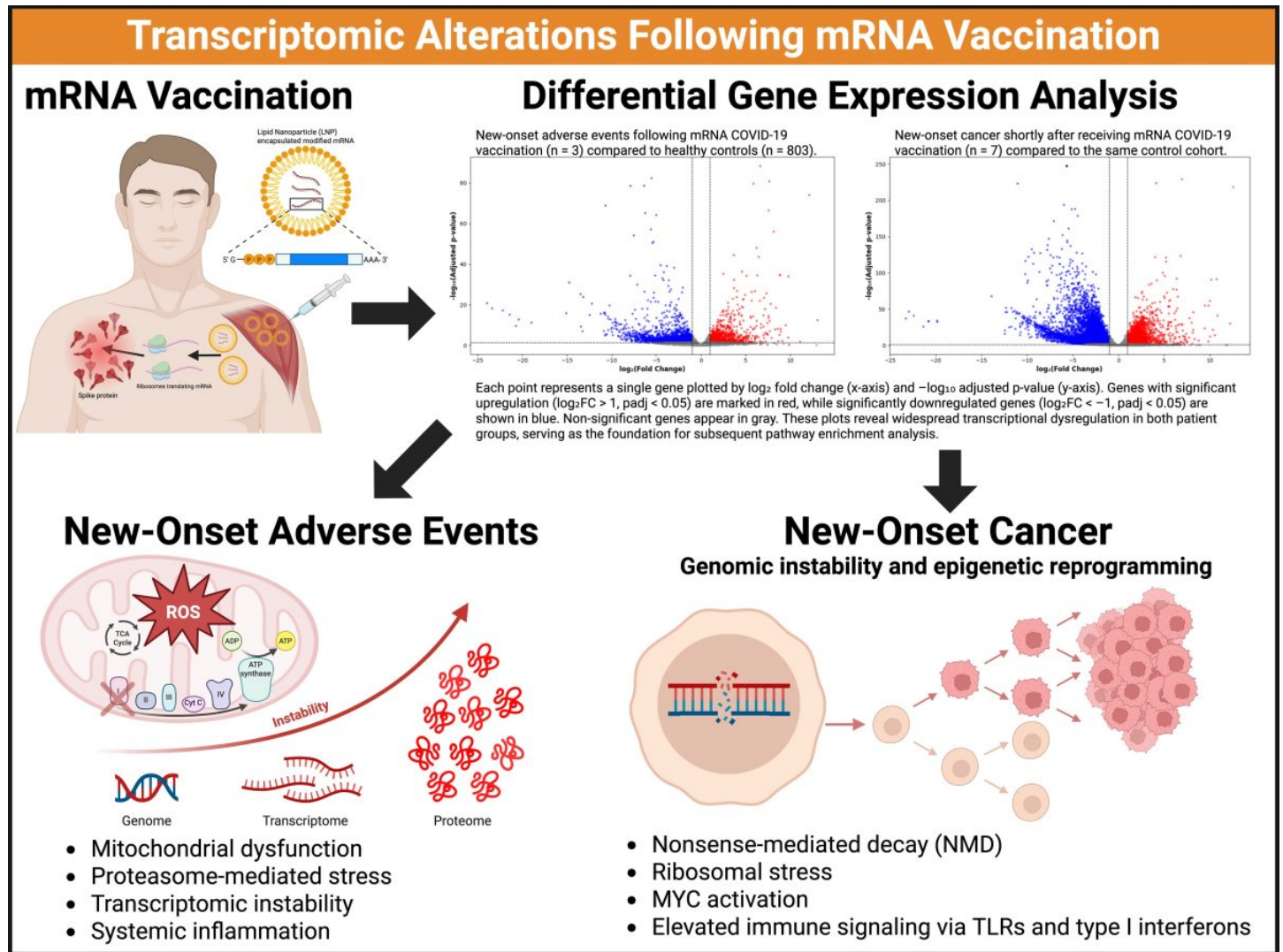
As [described](#) by one of the co-authors of the study, Nicolas Hulscher of the McCullough Foundation, the team collected blood from:

- 3 people who experienced serious health issues shortly after vaccination (neurological symptoms, heart problems, or chronic fatigue);
- 7 people who developed cancer after getting the mRNA shots; and
- 803 healthy individuals as a comparison group.

Using cutting-edge RNA sequencing tools, the scientists looked at how genes were turned on or off across these groups. The results showed an astounding level of disruption in the vaccine-injured patients. Per Hulscher:

We found that COVID-19 “vaccines” severely disrupted the expression of thousands of genes — inducing mitochondrial failure, immune system reprogramming, and oncogenic activation that persisted for months to years after injection.

What exactly went wrong at the cellular level — and what does it mean for long-term health?



What Went Wrong Inside the Cells

The human body relies on a delicate balance of gene activity to maintain health. Genes control everything from energy production and immune response to cell growth and repair. Upsetting that balance sets the stage for chronic disease and even cancer.

This study found that Covid-19 mRNA vaccines do exactly that, triggering persistent cellular stress and malfunction, including the following issues:

Mitochondrial Breakdown

In patients who developed new symptoms after vaccination, the study revealed dysfunction in genes tied to mitochondria — tiny power plants inside our cells. This can reduce energy production and generate harmful byproducts known as reactive oxygen species (ROS), a hallmark of fatigue, neurodegeneration, and metabolic damage.

Protein Overload and Cellular Exhaustion

The mRNA vaccines use a chemically modified synthetic code to make the spike protein. But this artificial code may overload the body's protein-making machinery. The study showed overactivation of



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ribosomes and surveillance systems trying to manage translation errors and faulty proteins. This kind of cellular stress can set off internal alarms and cause inflammation.

Misfolded Protein Cleanup

To compensate, the body ramps up its proteasome system, which clears away defective or misfolded proteins. However, persistent overactivation of this system is often seen in neurodegenerative diseases and can itself lead to inflammation and tissue damage.

Immune System Disruption

The vaccinated individuals showed signs of chronic immune activation. In those with new-onset symptoms, genes controlling inflammatory signaling were abnormally elevated. In cancer patients, the pattern was even more intense, showing sustained activation of immune pathways involving toll-like receptors and type I interferons. These signals, while critical for fighting viruses, can damage tissues when stuck in overdrive and may even help tumors escape immune detection.

Tumor Signals

Perhaps the most concerning finding was the simultaneous activation of some tumor-promoting genes that normally help prevent cancer. These patterns point to a cellular environment primed for uncontrolled growth.

In the participating cancer patients, the study detected additional hallmarks of genomic instability and epigenetic reprogramming. Those signify deep changes in how the DNA itself is organized and expressed. Scientists often observe these changes during the early stages of tumor development. One possible cause, the study suggests, is the detection of foreign or fragmented genetic material from the vaccine, which could lead to inflammatory and DNA-damage responses.

ACE2 Suppression

Both injured groups also showed sharply reduced ACE2 expression. [ACE2](#) is a protein found on the surface of many cell types, where it helps maintain cardiovascular and immune system balance by regulating inflammation and blood pressure. When ACE2 expression drops, it triggers a chain reaction that fuels chronic inflammation and, in cancer models, drives tumor growth and progression.

Why This Matters

According to Hulscher, this is the first study to clearly show how mRNA vaccines may cause deep and lasting disruptions to gene expression in certain individuals.

If confirmed by future studies, this research suggests that mRNA injections:

- Can damage the body's energy production systems;
- Can confuse immune responses, possibly triggering autoimmunity or chronic inflammation;
- Can increase the risk of cancer by disabling key tumor-fighting genes; and
- May introduce genetic material that persists or interferes with the body's normal operations.

The authors argue that these findings justify "the immediate withdrawal of these dangerous gene therapies." They warn that the remaining unboosted population – estimated at around 20 percent —



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should be spared further harm.

MAHA Betrayal

Despite growing scientific warnings, unconstitutional federal health authorities continue to double down.

The new leadership at the Department of Health and Human Services (HHS) and the Food and Drug Administration (FDA) came into power on the promise to “Make America Healthy Again” (MAHA) by addressing chronic disease and reforming the nation’s corrupt regulatory systems. But many now see that promise as broken.

Just weeks ago, the [FDA granted full approval](#) to Moderna’s mRNA shot for use in “at-risk” children. And in May, [the FDA approved](#) Moderna’s booster for use in all adults 65 and older, as well as individuals aged 12-64 years with at least one underlying “risk factor.”

At the same time, HHS and its subordinate agencies are advancing the next generation of [mRNA-based products](#), including those for Covid (project “[NextGen](#)”), and broadening the focus to [other gene therapies](#).

Meanwhile, calls are mounting to repeal PREP Act provisions that shield Covid vaccine makers from liability. A [new bill](#) by Reps. Thomas Massie (R-Ky.) and Paul Gosar (R-Ariz.) [argues](#) those protections must end. They say the government can’t keep covering for manufacturers while ignoring serious harms.



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