

# Exhibit 564

SV40 Virus Linked to Multiple Cancers Found in mRNA Vaccines, Microbiologist Says

<https://childrenshealthdefense.org/defender/sv40-virus-cancers-mrna-vaccines-cola/>

06/22/23 • COVID › VIEWS

# SV40 Virus Linked to Multiple Cancers Found in mRNA Vaccines, Microbiologist Says

*Microbiologist Kevin McKernan, a former researcher for the Massachusetts Institute of Technology Human Genome Project, said he discovered simian virus 40 (SV40), a virus found in monkey and humans, in mRNA COVID-19 vaccines. SV40 has been linked to cancer in humans, including mesotheliomas, lymphomas and cancers of the brain and bone.*

**By Dr. Joseph Mercola**

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## Story at a glance:

- Microbiologist Kevin McKernan — a former researcher and team leader for the Massachusetts Institute of Technology (MIT) Human Genome Project — has discovered massive DNA contamination in the mRNA COVID-19 shots, including simian virus 40 (SV40) promoters.
- SV40 has been linked to cancer in humans, including mesotheliomas, lymphomas and cancers of the brain and bone. In 2002, the Lancet published evidence linking polio vaccines contaminated with SV40 to Non-Hodgkin's lymphoma. According to the authors, the vaccine may be responsible for up to 50% of the 55,000 Non-Hodgkin's lymphoma cases diagnosed each year.
- The level of contamination varies depending on the platform used to measure it, but no matter which method is used, the level of DNA contamination is significantly higher than the regulatory limits in both Europe and the U.S. The highest level of DNA contamination found was 30%.
- The finding of DNA means the mRNA COVID-19 shots may have the ability to alter the human genome.
- Even if genetic modification does not occur, the fact that you're getting foreign DNA into your cells poses a risk in and of itself. Partial expression could occur or it might interfere with other transcription translations that are already in the cell. Cytoplasmic transfection can also allow for genetic manipulation, as the nucleus disassembles and exchanges cellular components with the cytosol during cell division.

In the video below, Dr. Steven E. Greer interviews microbiologist Kevin McKernan — a former researcher and team leader for the MIT Human Genome Project — and Dr. Sucharit Bhakdi about the DNA contamination McKernan's team has found in the Pfizer and Moderna mRNA shots.

As it turns out, spike protein and the mRNA are not the only hazards of these injections.

McKernan's team has also discovered SV40 promoters that, for decades, have been suspected of causing cancer in humans, including mesotheliomas, lymphomas and cancers of the brain and bone.

The findings were posted on OSF Preprints in early April.

Sequencing of bivalent Moderna and Pfizer mRNA vaccines reveals nanogram to microgram quantities of expression vector dsDNA per dose

"The assembly of Pfizer vial 1 contains a 72bp insertion not present in the assembly of Pfizer vial 2. This indel is known for its enhancement to... [pic.twitter.com/b5k44Dpc4d](https://pic.twitter.com/b5k44Dpc4d)

— KanekoaTheGreat (@KanekoaTheGreat) May 20, 2023

## The CHD Bus

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As explained in the abstract:

"Several methods were deployed to assess the nucleic acid composition of four expired vials of the Moderna and Pfizer bivalent mRNA vaccines. Two vials from each vendor were evaluated. ...

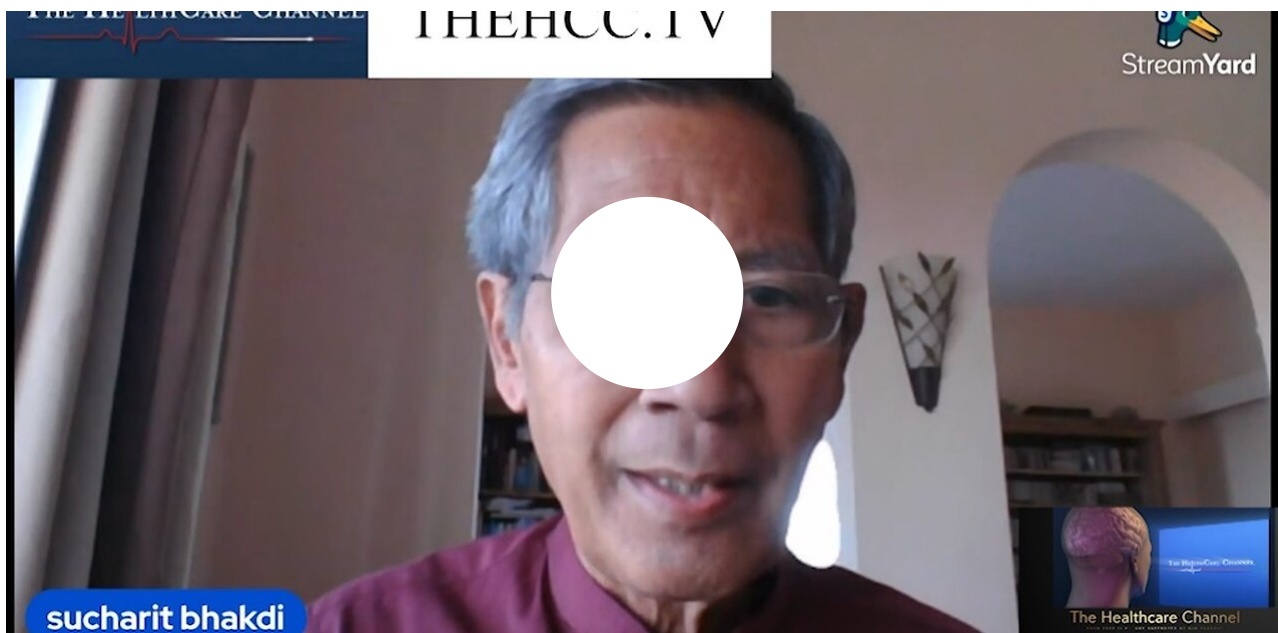
"Multiple assays support DNA contamination that exceeds the European Medicines Agency (EMA) 330ng/mg requirement and the FDA's 10ng/dose requirements."

As noted by Greer, this means that governments and drug companies "have misled the world to a far greater extent than previously known."

If these findings are correct, it would also mean that "the so-called 'vaccines' are actually altering the human genome and causing permanent production of the deadly spike protein," and this internal production of spike protein would, in turn, "trigger the immune system to attack its own cells," Greer says.

In the interview, McKernan explains how the DNA contaminants found in the COVID-19 jabs can result in the genetic modification of the human genome, and Bhakti reviews how and why the shots can trigger autoimmune diseases.

## Why the COVID "mRNA" vaccines are actually DNA gene therapies that mu...



### Background: What is SV40?

In 2002, the Lancet published evidence linking polio vaccines contaminated with SV40 to Non-Hodgkin's lymphoma. According to the authors, the vaccine may be responsible for up to half the 55,000 Non-Hodgkin's lymphoma cases diagnosed each year.

How did this simian (monkey) virus get into the human population?

According to the late Dr. Maurice Hilleman, a leading vaccine developer, Merck inadvertently unleashed the virus via their polio vaccine.

It's unclear exactly when SV40 was eliminated from the polio vaccine. The timing also varies from country to country. For example, SV40-contaminated polio vaccines were administered in Italy as recently as 1999.

## The Vaccine Safety Project

### LEARN MORE

As reported in a Lancet book review of "The Virus and the Vaccine: The True Story of a Cancer-Causing Money Virus, Contaminated Polio Vaccine and the Millions of Americans Exposed":

"By 1960, scientists and vaccine manufacturers knew that monkey kidneys were sewers of simian viruses. Such contamination often spoiled cultures, including those of an NIH [National Institutes of Health] researcher named Bernice Eddy, who worked on vaccine

safety ... her discovery ... threatened one of the USA's most important public-health programs. ...

"Eddy tried to get word out to colleagues but was muzzled and stripped of her vaccine regulatory duties and her laboratory ... [Two] Merck researchers, Ben Sweet and Maurice Hilleman, soon identified the rhesus virus later named SV40 — the carcinogenic agent that had eluded Eddy.

"In 1963, U.S. authorities decided to switch to African green monkeys, which are not natural hosts of SV40, to produce polio vaccine. In the mid-1970s, after limited epidemiological studies, authorities concluded that although SV40 caused cancer in hamsters, it didn't seem to do so in people.

"Fast forward to the 1990s: Michele Carbone, then at NIH, was working on how SV40 induces cancers in animals. One of these was mesothelioma, a rare cancer of the pleura thought in people to be caused mainly by asbestos. The orthodoxy held that SV40 didn't cause human cancers.

"Emboldened by a 1992 NEJM paper that found DNA 'footprints' of SV40 in childhood brain tumors, Carbone tested human mesothelioma tumor biopsies at the National Cancer Institute: 60% contained SV40 DNA. In most, the monkey virus was active and producing proteins.

"He published his results in *Oncogene* in May, 1994, but the NIH declined to publicize them ... Carbone ... moved to Loyola University. There he discovered how SV40 disables tumor suppressor genes in human mesothelioma, and published his results in *Nature Medicine* in July, 1997. Studies in Italy, Germany, and the USA also showed associations between SV40 and human cancers."

### **mRNA COVID jabs contaminated with double-stranded DNA**

With that background, let's get back to McKernan's findings, which in addition to the featured video are also discussed in Daniel Horowitz's podcast below.

In short, his team discovered elevated levels of double-stranded DNA plasmids, including SV40 promoters (DNA sequence that is essential for gene expression) that are known to trigger cancer development when encountering an oncogene (a gene that has the potential to cause cancer).

The level of contamination varies depending on the platform used to measure it, but no matter which method is used, the level of DNA contamination is significantly higher than the regulatory limits in both Europe and the U.S., McKernan says. The highest level of DNA contamination found was 30%, which is rather astounding.



**"The Wuhan Cover-Up"  
by Robert F. Kennedy Jr.**

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As explained by McKernan, when using a typical PCR test, you'll be considered positive if the test detects the SARS-CoV-2 virus using a cycle threshold (CT) of about 40. In comparison, DNA contamination is detected at CTs below 20.

That means the contamination is a million-fold greater than the amount of virus you'd need to have in order to test positive for COVID-19.


"So, there's an enormous difference here with regards to the amount of material that's in there," McKernan says.

In his May 20 Substack article, he also points out that people who argue that double-stranded DNA and viral RNA are a false equivalency because viral RNA is replication-competent, are wrong.

"The majority of the sgRNA you are detecting in a nasal swab in your nose is NOT REPLICATION COMPETENT as shown in Jaafar et al. It is just an RNA fragment that should have lower longevity in your cells than dsDNA contaminating fragments," he writes.

In that Substack article, McKernan has also copied a 2009 study discussing how DNA in vaccines can cause cancer and highlighted the most relevant parts. It's a helpful resource if you want to learn more.

Podcasts



MAY 19 · 1 HR 2 MIN

The Man Who Found DNA Toxins in Pfizer & Moderna Vials |  
Guest: Kevin McKernan | 5/19/23

Conservative Review with Daniel Horowitz

Play

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## Quality control is sorely lacking

As for how SV40 promoters ended up in the mRNA shots, it appears to be related to poor quality control during the manufacturing process, although it's unclear where in the development SV40 might have sneaked in.

Quality control deficiencies may also be responsible for the high rate of anaphylactic reactions we've been seeing.

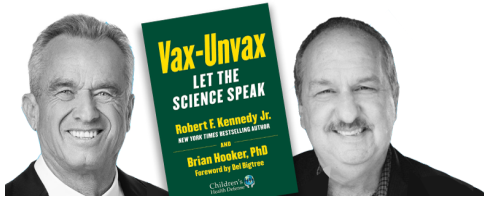
McKernan tells Greer:

"It's in both Moderna and Pfizer. We looked at the bivalent vaccines for both Moderna and Pfizer and only the monovalent vaccines for Pfizer because we didn't have access to monovalent vaccines for Moderna. In all three cases, the vaccines contain double-stranded DNA contamination.

"If you sequence that DNA, you'll find that it matches what looks to be an expression vector that's used to make the RNA ... Whenever we see DNA contamination, like from plasmids, ending up in any injectable, the first thing people think about is whether there's any E. coli endotoxin present because that creates anaphylaxis for the injected.

“And, of course ... there’s a lot of anaphylaxis going on, not only on TV but in the VAERS database. You can see people get injected with this and drop. That could be the background from this E. coli process of manufacturing the DNA.”

## RFK Jr. and Brian Hooker’s New Book: “Vax-Unvax”



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### Regulatory agencies knew there was a contamination problem

In his Substack article, McKernan points out that Pfizer itself submitted evidence to the European Medicines Agency (EMA) showing sampled lots contained vast differences in the levels of double-stranded DNA contamination.

The arbitrary limit for dsDNA that the EMA came up with was 330 nanograms per milligram (ng/mg). Data submitted to the EMA by Pfizer shows sampled lots had anywhere from 1 ng/mg to 815 ng/mg of DNA.

McKernan adds:

“This limit likely did not consider the potency of this dsDNA contamination if it was packaged in an LNP [lipid nanoparticle]. Packaged dsDNA is more potent as a gene therapy. We now know this DNA is packaged and transfection ready. Even lower limits should be applied if the DNA is packaged in transfection ready LNPs. ...

“Even with Pfizer being able to cherry pick the data they provided to the EMA for 10 lots, they see a 1 to 815ng/mg variance. If you were to expand this study to 100 or 1000 lots, you’d likely see another order or two of magnitude variance.”

### Double-stranded DNA may integrate into your genome

The presence of double-stranded DNA also brings up another major concern, and that is the possibility of genomic integration.

McKernan states:

“At least on the Pfizer side of things, it has what’s known as an SV40 promoter. This is an oncogenic virus piece. It’s not the entire virus. However, the small piece is known to drive very aggressive gene expression.”

“And the concern that people, even at the FDA, have noted in the past whenever injecting double-stranded DNA, is that these things can integrate into the genome,” McKernan says.

While McKernan’s paper does not present evidence of genome integration, it does point out that it’s possible, especially in the presence of SV40 promoters:

“There has been a healthy debate about the capacity for SARs-CoV-2 to integrate into the human genome ... This work has inspired questions regarding the capacity for the mRNA vaccines to also genome integrate. Such an event would require LINE-1 driven reverse transcription of the mRNA into DNA as described by Alden et al.

“dsDNA [double-stranded DNA] contamination of sequence encoding the spike protein wouldn't require LINE-1 for Reverse Transcription and the presence of an SV40 nuclear localization signal in Pfizer's vaccine vector would further increase the odds of integration.”

## **Manifold risks**

That said, even if genetic modification does not occur, the fact that you're getting foreign DNA into your cells poses a risk in and of itself, McKernan says.

For example, partial expression could occur, or it might interfere with other transcription translations that are already in the cell.

Bhakti also points out that the SV40 promoters do not need to be present in the nucleus of the cell for problems to occur.

Cytoplasmic transfection can, in and of itself, allow for genetic manipulation, because the nucleus disassembles and exchanges cellular components with the cytosol during cell division.

In addition to having DNA floating around and causing potential problems, the RNA in the COVID-19 jab is also modified to resist breakdown.

“So, we have TWO versions of the spike protein floating around that can persist longer than anticipated,” McKernan says, and the spike protein, of course, is the most toxic part of the virus that can cause your body to attack itself.

Both McKernan and Bhakti are adamant that ALL mRNA “vaccines” must be immediately stopped, whether for human or animal use, due to the magnitude of the risks involved.

## **‘Alarming problems’**

In the video below, Yusuke Murakami, a professor at Tokyo University, expresses alarm over the finding of SV40 promoters in the COVID-19 jabs. The interview is in Japanese but has English subtitles.

I've included it because I think he does a good job of putting the problem into layman's terms:

Murakami says:

“The Pfizer vaccine has a staggering problems. This figure is an enlarged view of Pfizer's vaccine sequence. As you can see, the Pfizer vaccine sequence contains part of the SV40 sequence here. This sequence is known as a promoter.

“Roughly speaking, the promoter causes increased expression of the gene. The problem is that the sequence is present in a well-known carcinogenic virus. The question is why such a sequence that is derived from a cancer virus is present in Pfizer's vaccine.



“There should be absolutely no need for such a carcinogenic virus sequence in the vaccine. This sequence is totally unnecessary for producing the mRNA vaccine. It is a problem that such a sequence is solidly contained in the vaccine.

“This is not the only problem. If a sequence like this is present in the DNA, the DNA is easily migrated to the nucleus. So it means that the DNA can easily enter the genome. This is such an alarming problem.

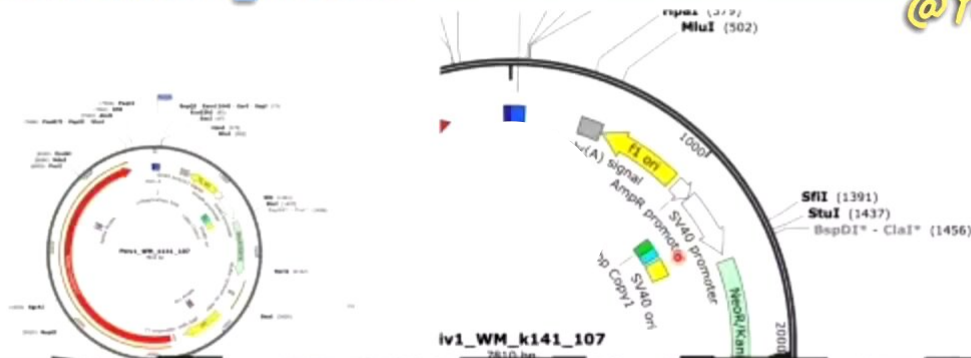
“It is essential to remove the sequence. However, Pfizer produced the vaccine without removing the sequence. That is outrageously malicious. This kind of promoter sequence is completely unnecessary for the production of the mRNA vaccine. In fact, SV40 is a promoter of cancer viruses.”

MALICIOUS! Prof. Murakami discusses cancer promoting DNA sequence f...

@ShortShort\_News

プロモーター配列が見つかった

@You3\_JP



As you can see, the Pfizer's vaccine sequence contains part of the SV40 sequence here.

mRNA型ワクチンの製造プロセスにおいて全く必要がないDNA腫瘍ウイルスのプロモーター配列が見つかった。この配列はヒトゲノムに取り込まれると近所の遺伝子の転写活性を高めるはたらきがある。もしも発がん遺伝子の上流にはいると発がんリスクを高める可能性がある。

### Resources for those injured by the COVID jab

The more we learn about the COVID-19 jabs, the worse they appear. While they suck as vaccines, they're truly masterful bioweapons, as they're capable of destroying health in any number of ways, through myriad mechanisms.

If you got one or more jabs and are now reconsidering, first and foremost, never ever take another COVID-19 booster, another mRNA gene therapy shot or a regular vaccine.

You need to end the assault on your body. Even if you haven't experienced any obvious side effects, your health may still be impacted long-term, so don't take any more shots.

If you're suffering from side effects, your first order of business is to eliminate the spike protein that your body is producing. Two remedies that can do this are hydroxychloroquine and ivermectin. Both of these drugs bind and facilitate the removal of spike protein.

The Front Line COVID-19 Critical Care Alliance (FLCCC) has developed a post-vaccine treatment protocol called I-RECOVER. Since the protocol is continuously updated as more data become available, your best bet is to download the latest version straight from the FLCCC website.

For additional suggestions, check out the World Health Council's spike protein detox guide, which focuses on natural substances like herbs, supplements and teas.

To combat the neurotoxic effects of spike protein, a March 2022 review paper suggests using luteolin and quercetin.

Time-restricted eating and/or sauna therapy can also help eliminate toxic proteins by stimulating autophagy.

*Originally published by Mercola.*

*The views and opinions expressed in this article are those of the authors and do not necessarily reflect the views of Children's Health Defense.*

## SUGGEST A CORRECTION

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### **Dr. Joseph Mercola**

Dr. Joseph Mercola is the founder of Mercola.com.

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Barbara

5 months ago

I pray for those who are vaccine injured and for those of us who are unvaxxed to avoid food tainted with MRNA. I see people boasting they are pure bloods but this is no time to boast or alienate people who believed differently. Those of us who are healthy have a duty to help those who are suffering any way we can. People need to stop falling for the divide and conquer strategies MSM and the government are trying to use against us.

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G

GarySummers → Barbara

5 months ago edited

Will anyone be Held Accountable?  
Where is the Medical Community and Doctors that told people to get the DNA Contaminated Jabs? ZZZZ?

"Heart Disease Risk \*Skyrockets 13,200% Following Covid Injections\*, CDC Admits"  
<https://discernreport.com/h...>

5 0 Reply • Share >



Barbara → GarySummers

5 months ago

I don't know. But I suggest if you think something is important enough, you print out articles and studies because more and more information is censored and scrubbed from the Internet. People do need to be held accountable and 2024 will be a wild election year because many of us will not accept politicians who offer half measures.

3 0 Reply • Share >



wheezer7

→ Barbara

5 months ago

Even more concerning are the deep fake photos and videos that will try to steer you toward one candidate and away from another. These are so good now that the average viewer will be easily fooled. The ones on the horizon will fool the experts. We will not be able to trust anything we see or hear unless it is face-to-face.

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**JarAhead**

→ wheezer7



4 months ago

And the fools are already in line with the MSM BS.

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G

**GarySummers**

→ Barbara



5 months ago

\*"Cancer Taking Off 'Like Wildfire': Unsettling Insights from Pathologist Dr. Ryan Cole"\*  
"Turbo cancer is something that wasn't there, and all of a sudden, it's everywhere. So it goes from being in one spot to [being] everywhere all at once."

<https://dailyclout.io/cance...>

1 0 Reply • Share ›



**Anita Ann**

→ Barbara



5 months ago

Well said. Thanks for your positivity.

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**Bob Post**

5 months ago

Dr. Judy Mikovits was the one to point this a long time ago.

9 0 Reply • Share ›



**Jerry Alatalo**

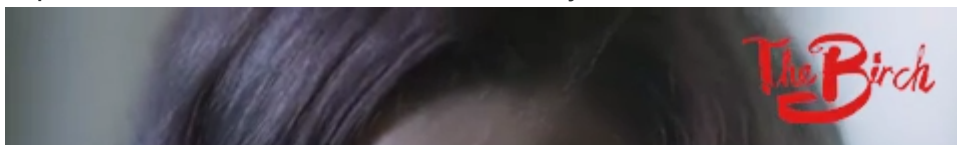
5 months ago edited



...Both McKernan and Bhakdi are adamant that ALL mRNA "vaccines" must be immediately stopped, whether for human or animal use, due to the magnitude of the risks involved.

\*

Most moderately-informed men and women on this issue would fully concur with Kevin McKernan, Sucharit Bhakdi and a growing, rapidly-increasing number of doctors and medical experts across the Earth: "Ban all mRNA injections worldwide - immediately!"





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G

**GarySummers** → Jerry Alatalo

5 months ago

We Need, and must Demand Valid and Modern Day Nuremburg Trials for these Murderers!

7 0 Reply • Share >



**BarbaraCharis**

5 months ago

This Simian virus was in the polio vaccines given children years ago...and how many other vile substances were in the defective products sold by the vaccine industry? After I read Vaccination is NOT Immunization by Dr. Tim O'Shea...as a parent who trusted my children's pediatrician in the past - it made me sick. This book listed all the items put together by mad scientists injected directly into children's bloodstreams. This would not create immunity....it would damage and break down the immune system...poison kills!

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**Mary Dixon**

5 months ago

Scary and very informative and thank you for the work that you do for the public

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**noakesr8**



5 months ago

Dr. Noack on How Graphene Hydroxine NANO-RAZORS Destroy the Vaccinated (Updated II)

December 7, 2021 Algora Blog 10 Comments

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Dr. Andreas Noack is Number One expert in Germany on graphene nano structures.

His house was raided last year while he was live streaming. The cops broke down his door and arrested him.

Alternative site:

More information about Dr. Andreas Noack mysterious death as related by his wife.

Video transcript of English subtitles (quoting Dr. Noack):

"There is a professor Dr. Pablo Campra from the University of Almeira who studied the vaccines for the presence of graphene oxide using Micro-Roman Spectroscopy. It is the study of frequencies. There are frequency bands, two of those bands are important.

They show that it is not graphene oxide, but rather graphene hydroxide. I would like to explain what this graphene hydroxide is. It is mono-layer activated carbon. There are C6 rings. He found it in all samples. Every corner is a carbon atom. This is on a nanoscale.

I'll cut this up a bit here. If it is 50nm long, there are 500 rings in a row. These are hydroxy groups (OH). In graphene oxide you have double bonded oxygen, and in graphene hydroxide you have an OH group. The electrons are delocalised (fully mobile). The piece is 50nm long but only 0.1 nm

[see more](#)

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T

**Tallhealer**

5 months ago

When assessing the validity of Mercola's virus articles it's imperative to consider the insurmountable basic problems he has with virology. How were viruses supposedly 'isolated' in Bernice Eddy's and Carbone's day? The same as in the 1950's and now; The Viral Toxic Soup and 'Implied' Method i.e. The observed Cytopathic effect on cells in a multi-toxic soup are ASSUMED TO BE ONLY DUE TO THE PRESENCE OF A HYPOTHESISED VIRUS. No other toxins in the soup are considered by virologists as Cytopathic though individually these other toxins too are KNOWN to cause Cytopathy in cells. The studies/papers/guesses quoted By Mercola are replete with such accurate terminology as "Matches what LOOKS TO BE"- "Didn't SEEM to do so."- "Associations."- "Gene that has the POTENTIAL to cause." - "That COULD BE." - "This limit LIKELY did not consider." Of course they use the ever Perennial word - "MAY" which carries its deliberately hidden and unspoken opposite "MAY NOT." Cancer Research bodies gave up on the 'Cancer Virus' dead end decades ago. Resurrection and recycling of worn out theories are so tempting when more funding is at stake.

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**noakesr8**

5 months ago

#ModernaGate: Moderna wins Award for Deadly Covid Vaccine it was able to create prior to 2019 because "Murderna" is responsible for creating the Covid-19 Virus in a BioLab...

#CTCCTCGGCGGGCACGTAG

By The Exposé on April 30, 2023

Covid-19 is a manmade virus, and Moderna Inc., the American pharmaceutical and biotechnology company that has made billions through the sale of an experimental Covid-19 injection, is responsible for creating it.

Don't believe us?

Then read the exhaustive evidence below and check for yourself.

By a concerned reader who is a qualified cell biologist

STEP 0: The genome, the complete genetic code of Covid19 is found here –

<https://www.ncbi.nlm.nih.go...> The genome of Bat Coronavirus RaTG13 is found here –

<https://www.ncbi.nlm.nih.go...>

One can compare these two genomes, letter by letter using the BLAST Genome alignment comparison tool at <https://blast.ncbi.nlm.nih....>

Just put NC\_045512.2 in the Query Sequence Box and MN996532 in the Subject Sequence Box. Then choose the radio button:: More dissimilar sequences (discontinguous megablast). Then hit BLAST. Then when the results appear (a few second later) choose the Alignments tab and you will see both genomes compared perfectly

1 0 Reply • Share >



**UnionMember**

5 months ago edited

No, cancer is from the toxic ingredients.

Viruses have never been proven to be the cause of cancer.

All of that shit is pseudo-science and Dr Mercola, you just promote bullshit.

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**Iset : Navigium Isidis**

5 months ago edited

"This is not the only problem. If a sequence like this is present in the DNA, the DNA is easily migrated to the nucleus. So it means that the DNA can easily enter the genome. This is such an alarming problem."

I can explain this - send my newsletter with several texts that explains this- this is worse than the CV19 proteins , many people have COVID with the proteins and do not die- but the shots are weapons with "things" ways worse than COVID19

0 0 Reply • Share >



**Iset : Navigium Isidis**

5 months ago

Contamination is something by accident- but there is no accident when you keep shooting at your victims until they die - this is not contamination, this is crime

0 0 Reply • Share >



**Iset : Navigium Isidis**

5 months ago

A little correction : THIS ARE NOT VACCINES

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M

**Meredith**

5 months ago

I was reading an article posted by Dr. Mercola on June 24th about King Charles and the WE F and in the comment section someone posted a video from Rum ble by Stew Peters with Dr. Brian Ardis showing research that found snake venom in the va cines. Haven't seen this anywhere else but I found it compelling

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