

Scanning & Transmission Electron Microscopy Reveals Graphene Oxide in CoV-19 Vaccines

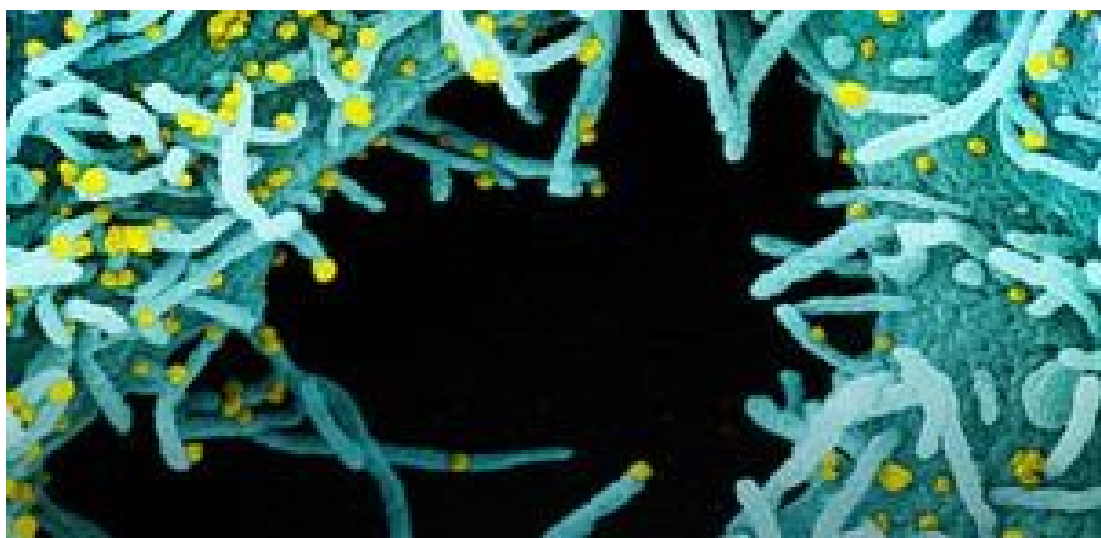
https://www.drrobertyoung.com/post/transmission-electron-microscopy-reveals-graphene-oxide-in-cov-19-vaccines?utm_campaign=cdc17989-352e-4afb-a3b8-6a5e77bb8738&utm_source=so&utm_medium=mail&cid=604a5667-accb-40a9-8a2e-e3107ce4ea79

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Phase Contrast, Dark Field, Bright Field Microscopy, Transmission and Scanning Electron Microscopy and Energy-Dispersive X-ray Spectroscopy Reveal the Ingredients in the CoV-19 Vaccines!



GermS Are Born In Us and From Us as an Outfection and NOT an Infection of the Body Cells. In other words germS are symptoms of cellular and genetic disorganization and NOT the specific cause of the cellular and genetic disorganization! The GERM is NOTHING and the TERRAIN is EVERYTHING . GermS can only contribute to a state of toxic imbalance but can NEVER cause ANY specific sickness or disease![55] - Dr. Robert O. Young

Abstract

Currently there are four major pharmaceutical companies who manufacture a SARS-CoV-2 now called SARS-CoV-19 vaccine. These manufactures and their vaccine are **Pfizer--BioNTech mRNA Vaccine**, the **Moderna-Lonza mRNA-1273 Vaccine**, the **Serum Institute Oxford Astrazeneca Vaccine** and the **Janssen COVID -19 Vaccine**, manufactured by *Janssen Biotech Inc.*, a *Janssen Pharmaceutical Company* of *Johnson & Johnson*, a **recombinant, replication-incompetent adenovirus type 26 expressing the SARS-CoV-2 spike protein**. The intended purpose of these vaccines are to provide immunity from the so-called infectious novel coronavirus or SARS-CoV - 2 virus now called the SARS-CoV - 19. These four pharmaceutical companies have not provided complete FDA disclosure on their vaccine box, insert fact sheet or label for many of the major and/or minor ingredients contained within these so-called vaccines. The purpose of this research article is to identify those specific major and minor ingredients contained in the **Pfizer Vaccine, the Moderna Vaccine, the Astrazeneca Vaccine and the Janssen Vaccine using various scientific anatomical, physiological and functional testing for each SARS-COV-2-19 vaccine**. As a human right, governed under World Law by the Nuremberg Code of 1947, the vaccine specific ingredient information is critical, required and necessary to know so that any human from any country in the World can make an informed decision whether or not to consent to the SAR-CoV-2-19 inoculation. We have conducted the scientific testing on each vaccine and have identified several ingredients or adjuvants that have not been disclosed which are contained in these four SARS-CoV - 2 -19 vaccines. Currently, these vaccines are being administered to millions of humans around the World under an Emergency Use Authorization (EUA) issued by each country without full disclosure of all ingredients and in some cases mandated by governments or employers in violation of individual human rights under the Nuremberg Code of 1947.

Methodology and Techniques

Four “vaccines” were analyzed which are the Pfizer-BioNtech, Moderna-Lonza mRNA-1273 Vaccine, Vaxzevria by Astrazeneca, Janssen by Johnson & Johnson, using different instrumentation and protocols of preparation according to new nano particulate technological approaches. The different instrumentation includes Optical Microscopy, Bright-Field Microscopy, pHase Contrast Microscopy, Dark-Field Microscopy, UV absorbance and Fluorescence Spectroscopy, Scanning Electron Microscopy, Transmission Electron Microscopy, Energy Dispersive Spectroscopy, X-ray Diffractometer, Nuclear Magnetic Resonance instruments were used to verify the “vaccines” morphologies and contents. For the high-technology measurements and the care of the investigation, all the controls were activated and reference measurements adopted in order to obtain validated results.

Live Blood Phase Contrast and Dark-Field Microscopy

Images of the aqueous fractions of the vaccines were subsequently obtained to visually assess the possible presence of carbon particulates or graphene.

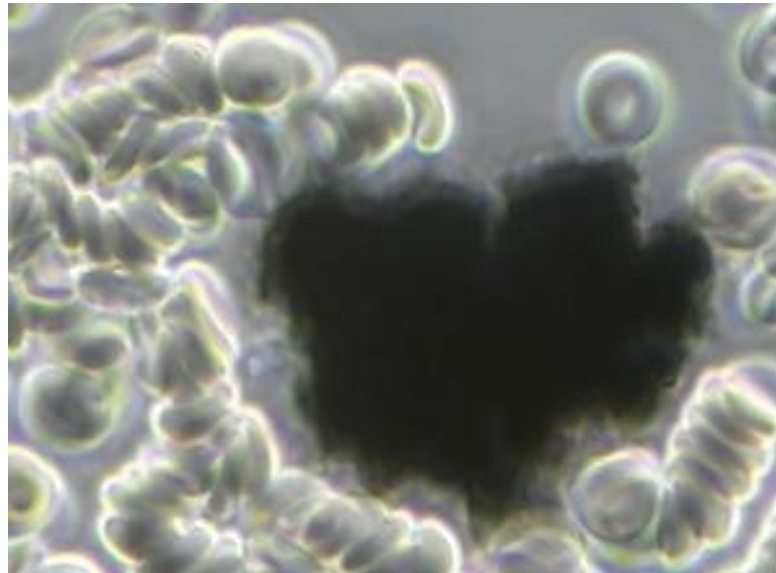
The observations under optical microscopy revealed an abundance of transparent 2D laminar objects that show great similarity with images from literature (Xu et al, 2019), and with images obtained from rGO standard (SIGMA)(Figures 1, 2 and 3).

Images of big transparent sheets of variable size and shapes were obtained,

showing corrugated and flat, irregular. Smaller sheets of polygonal shapes, also similar to flakes described in literature (Xu et al, 2019) can be revealed with pHase Contrast and Dark-Field microscopy (Figure 3).

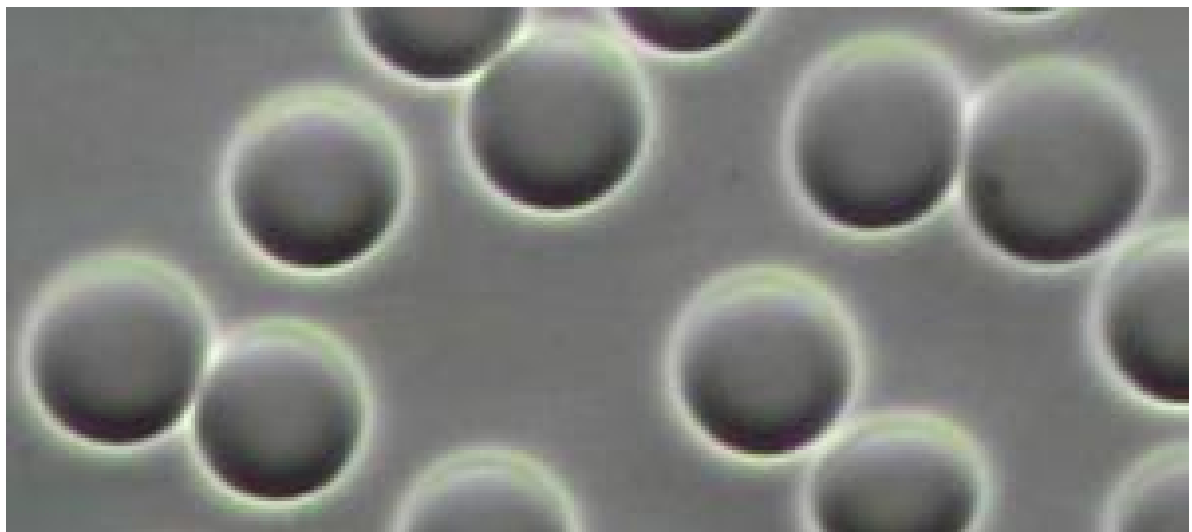
All these laminar objects were widespread in the aqueous fraction of the blood (Figure 1) or vaccine sample (Figures 2 and 3) and no component described by the registered patent can be associated with these sheets.

In Figure 1 You Can See What A Cluster Bomb of Reduced Graphene Oxide (rGO) Looks Like in the Live Unstained Live Blood From the So-Called Pfizer, Moderna, Astrazeneca and Janssen "Vaccines"!

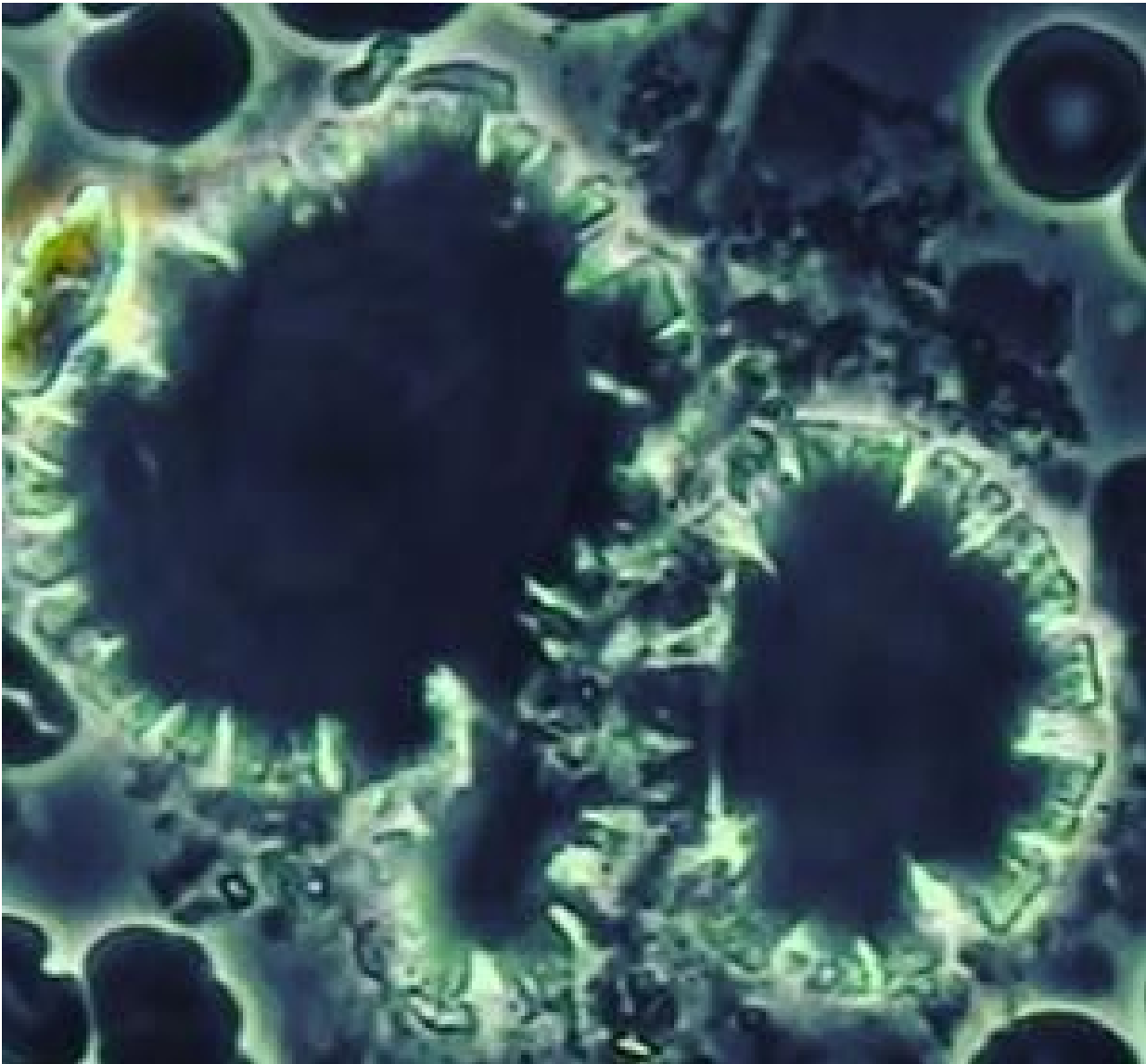


[Figure 1 is a Micrograph of a Carbon Cluster of Reduced Graphene Oxide (rGO) Viewed in the Live Unstained Human Blood with pHase Contrast Microscopy at 1500x. Note that the Red Blood Cells are Clotting in and Around the rGO Crystal in a Condition Known as Rouleau! A French Word Which Means to Chain. Dr. Robert O. Young, Profiles in Medical Microscopy, Hikari OmniPublishing, 1987 - 2021]

Normal Healthy Normal Blood and After mRNA Inoculation

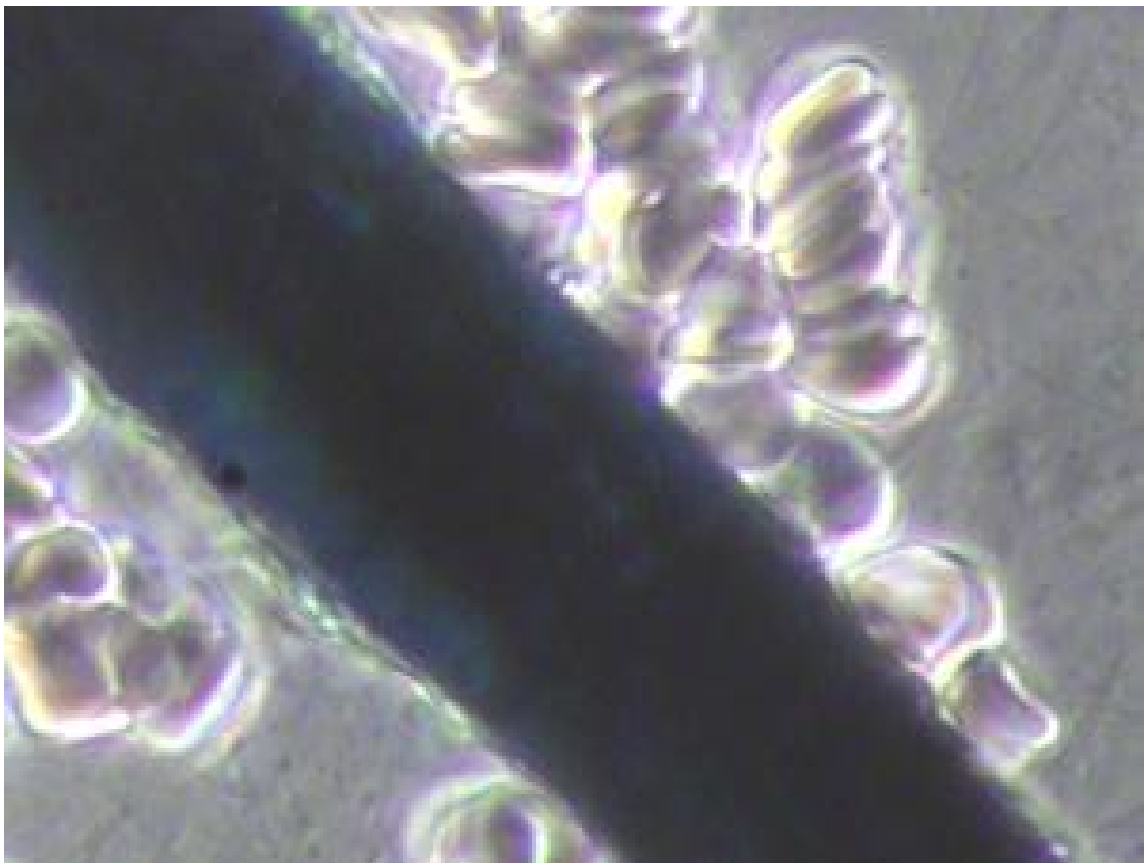


[Figure 1a Micrograph under Phase Contrast Microscopy reveals the normal healthy state of the red blood cells which are even in color, even in shape and even in size. Red Blood cells in their healthy state measure anatomically 7 microns in diameter. Dr. Robert O. Young, Profiles in Medical Microscopy, Hikari Omni Publishing, 1987-2021]



[Figure 1b Micrograph taken under Phase Contrast Microscopy reveals the live blood 24 hours after the mRNA Vaccine now containing crystallized red blood cells, biological transformations of red and white blood cells, large symplasts of graphene oxide crystals center and Orotic acid crystals in the upper right hand corner of the micrograph. Dr. Robert O. Young, Hikari Omni Publishing, September, 2021[73][74][83]]

Nano and Micro Graphene Tubes Cause Pathological Blood Coagulation Leading to Hypercapnia, Hypoxia and Death[73]



[Figure 1c Viewed Under pHase Contrast Microscopy a Nanotube of Graphene Oxide in Coagulated Red Blood Cells or Blood Clots. Dr. Robert O. Young, Hikari Omni Publishing, 2021][2][73][74][83]]



[Figure 1d Viewed Under pHase Contrast Microscopy a Nanotube of Graphene Oxide in Coagulated Red Blood Cells or Blood Clots. Dr. Robert O. Young, Hikari Omni Publishing, 2021][2][73][74][83]]

What's Inside the Blood Clots?

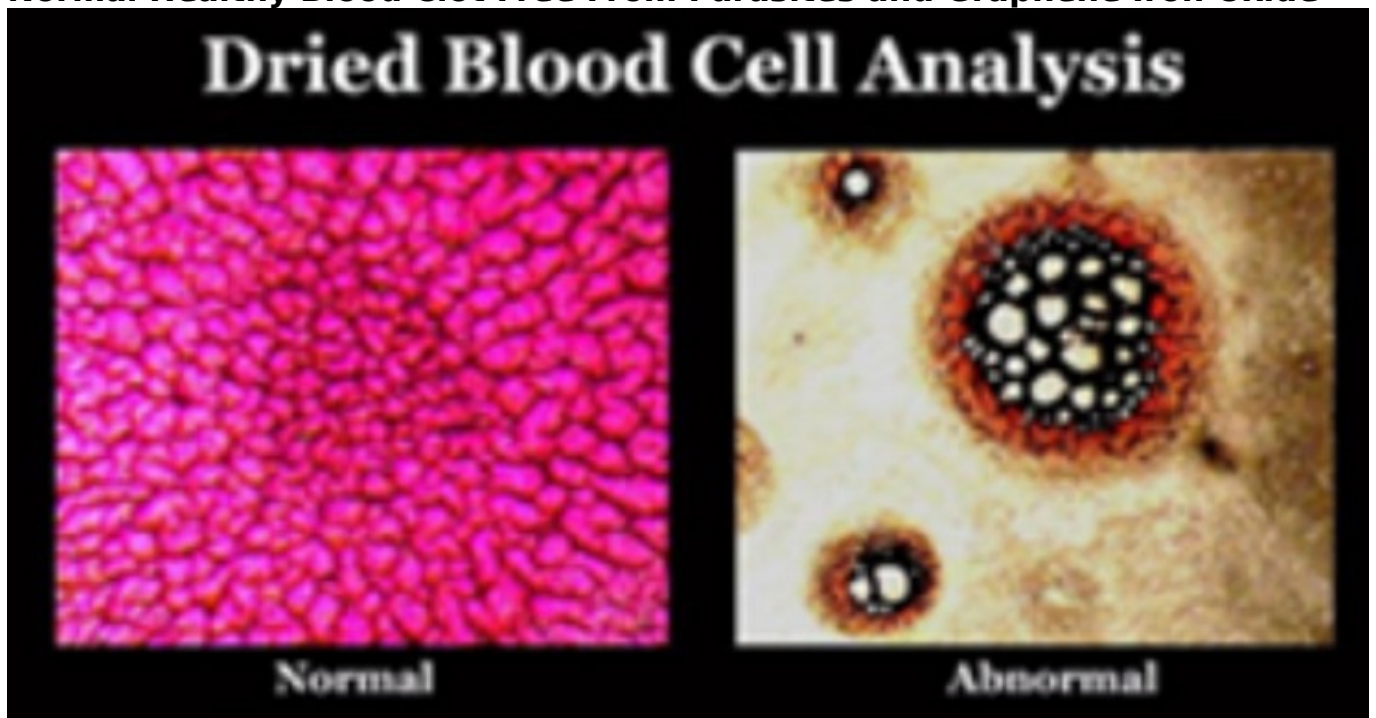


[[Figure 1e Viewed Under Bright Field Microscopy a Nanotube and Microtubes of Graphene Oxide in the Dried Coagulated Blood Cells or a Blood Clot in Addition to Parasite Bulges Expressed in the Cross-linked Fibrin Monomers Indicating a Systemic Parasitical Infection. Dr. Robert O. Young, Hikari Omni Publishing, 2021][2][73][74][83]]



[[Figure 1f Viewed Under Bright Field Microscopy a Nanotube , Microtube and Cluster Bomb of Graphene Oxide in the Dried Coagulated Blood Cells or Blood Clot in Addition to Parasite Bulges Expressed in the Cross-linked Fibrin Monomers Indicating a Systemic Parasitical Infection. Dr. Robert O. Young, Hikari Omni Publishing, 2021][2][73][74][83]]

Normal Healthy Blood Clot Free From Parasites and Graphene Iron Oxide



[Figure 1g Shows Normal Blood Clotting on the Left and Abnormal Blood Clotting on the Right. Please Note that the Normal Blood Clot Contains NO Graphene or Iron Oxide, No Parasites and

No Polymerized Protein Pools (White Circles Indicating Cellular Degeneration as Seen in the Blood Clot on the Right. Dr. Robert O. Young, Hikari Omni Publishing, 2021.][2][73][74][75][83][85]

What Are the Non-Disclosed Ingredients Contained in CoV - 19 So-Called Pfizer, Moderna, Astrazeneca and Janssen "Vaccines"?

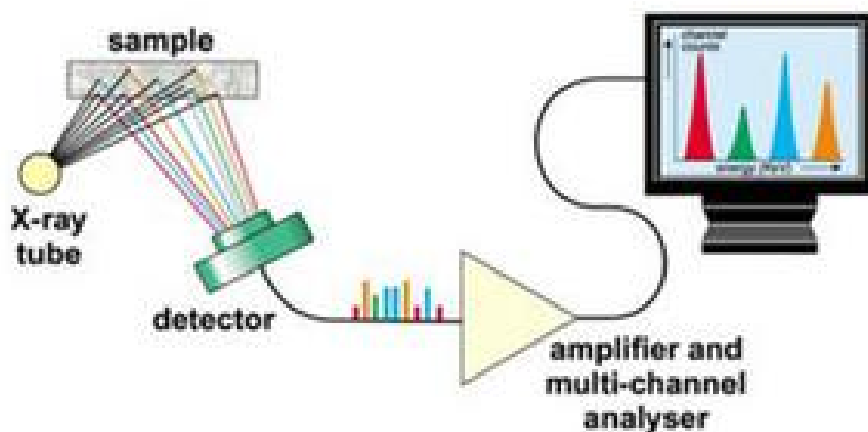
To answer this question an aqueous fraction of the Pfizer, Moderna, Astrazeneca and Janssen vaccines were taken from each vile and then viewed separately under pHase Contrast Microscopy at 100x, 600x up to 1500x magnification showing anatomical evidence of **reduced Graphene Oxide (rGO) particulates which were compared to micrographs of rGO from Choucair et al, 2009 for identification and verification.**[3]

Steps of Analysis of Vaccine Aqueous Fractions

Refrigerated samples were processed under sterile conditions, using laminar flow chamber and sterilized lab ware.

Steps for analyses were:

1. Dilution in 0.9% sterile physiological saline (0.45 ml + 1.2 ml)
2. Polarity fractionation: 1.2 ml hexane + 120 ul of RD1 sample
3. Extraction of hydrophilic aqueous pHase
- 4. UV absorbance and fluorescence spectroscopy scanning**



5. Extraction and quantification of RNA in the sample
6. Electron and optical microscopy of aqueous pHase



Philips XL 30 Scanning Electron Microscope

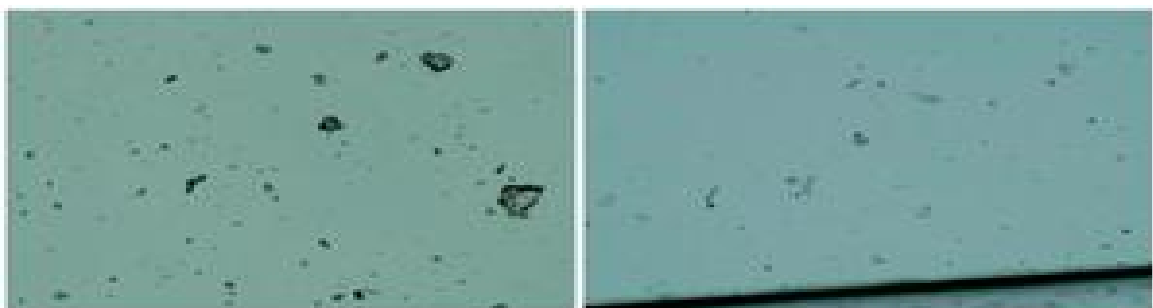
[1] The Pfizer "Vaccine" Non-disclosed Ingredients

The micrographs in **Figures 2 and 3** were obtained using 100X, 600X and 1200X pHase Contrast, Dark Field and Bright Field Optical Microscopy.[3]

On the left of each micrograph you will view micrographs obtained from the Pfizer vaccine aqueous fraction containing rGO.

On the right of each micrograph you will view a match from known sources containing rGO for anatomical validation.

The observations under a pHase Contrast, Dark-Field, Bright-Field microscopy, Transmission and Scanning Electron microscopy of the vaccine product by Pfizer, including vaccine products of Moderna, Astrazeneca and Janssen revealed some entities that can be graphene strips as seen below in Figure 3.



[Figure 2 shows an aqueous fraction image from Pfizer vaccine sample (left) and from reduced graphene oxide (rGO) standard (right) (Sigma-777684). Optical microscopy, 1000X magnification]



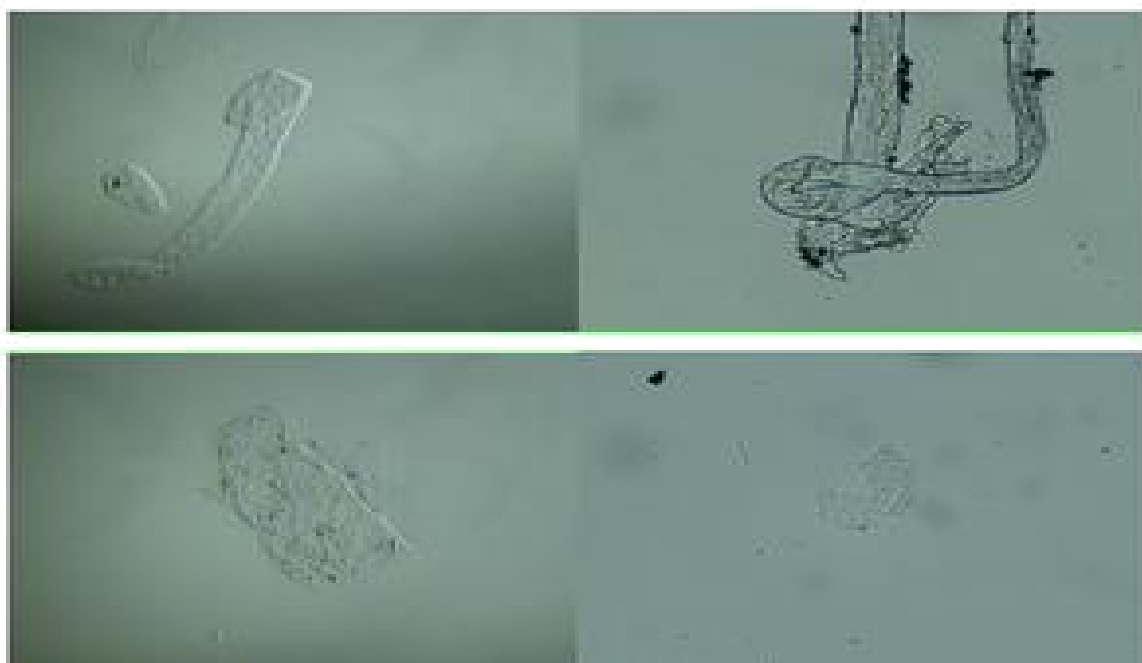
[Figure 2a is a 0.5ml aqueous fraction image from Pfizer vaccine sample viewed under pHase contrast microscopy at 1000x, showing a symplast of graphene oxide (upper left) next to a Trypanosoma cruzi parasite (lower right). Dr. Robert O. Young, Hikari Omni Publishing, September 11th, 2021[2][9][73][83]]



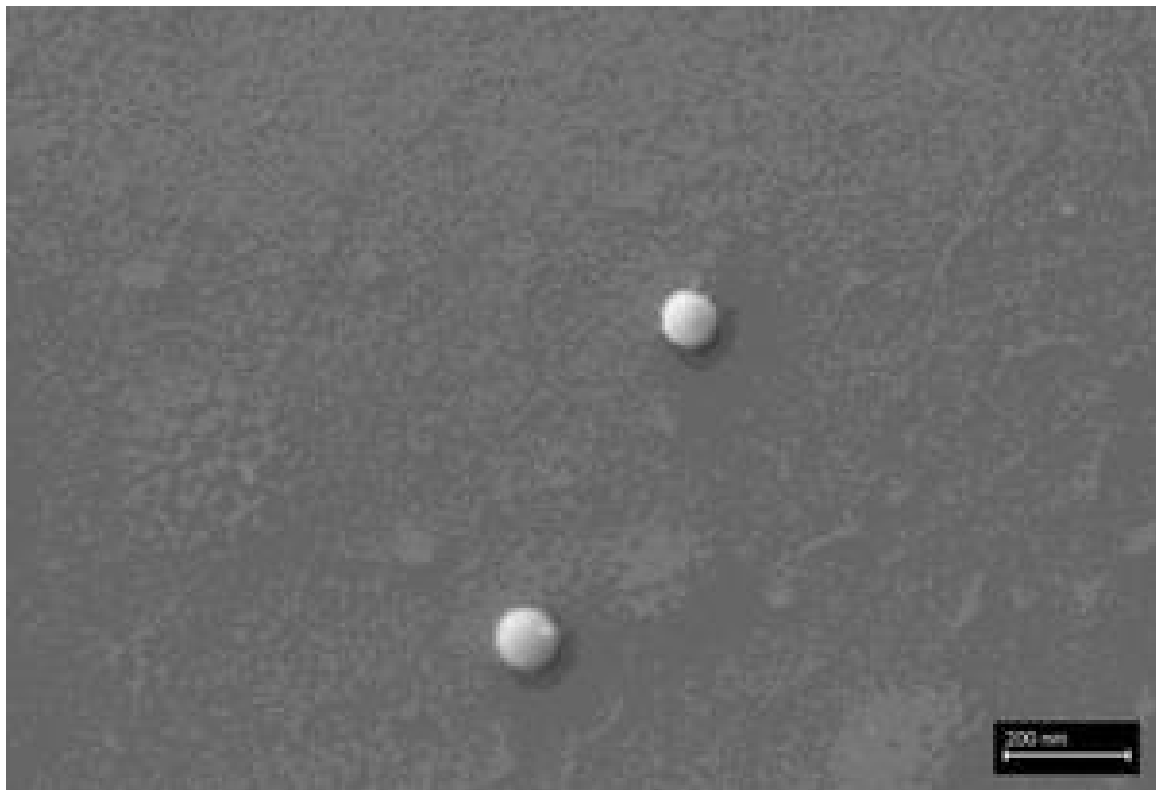
[Figure 2b is a 0.5ml aqueous fraction image from Pfizer vaccine sample viewed under pHase contrast microscopy at 1000x, showing a symplast of graphene oxide (upper left) and an unidentified parasite (lower right). Dr. Robert O. Young, Hikari Omni Publishing, September 11th, 2021[2][9][73][83]]



[Figure 2c is a 0.5ml aqueous fraction image from Pfizer vaccine sample viewed under phase contrast microscopy at 1000x, showing a graphene oxide ribbon. Dr. Robert O. Young, Hikari Omni Publishing, September 11th, 2021[2][9][73][74][83]]



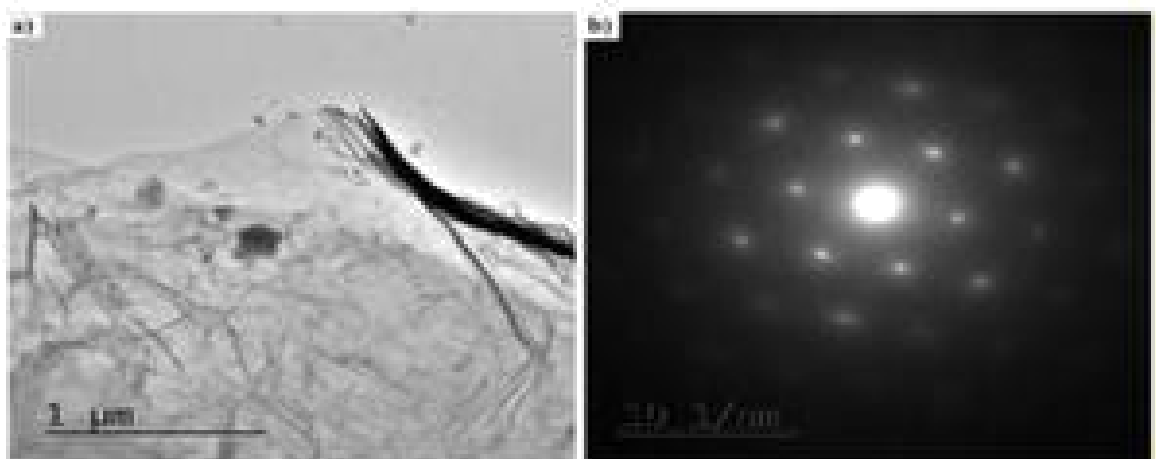
[Figure 3 - Aqueous fraction images containing reduced graphene oxide from Pfizer vaccine sample (left) and sonicated reduced graphene oxide (rGO) standard (right) (Sigma-777684). Optical phase contrast microscopy, 600X magnification. In addition, the Muestra RD1, La Quinta Columna Report, June 28, 2021; Graphene Oxide Detection in Aqueous Suspension; Delgado Martin, Campra Madrid confirms our findings. <https://cen.acs.org/articles/86/i4/Graphene-Ribbons.html> and <https://cen.acs.org/articles/86/i4/Graphene-Ribbons.html> [4][73][74] [83]]



[Figure 4 shows the liposome Capsid containing rGO that Pfizer uses for its product to vehiculate the graphene oxide by attaching the Liposome capsid to specific mRNA molecules for driving the Liposome contents of rGO to specific organs, glands and tissues, namely the ovaries and testes, bone marrow, heart and brain. The image was obtained by a SEM-Cryo preparation.[83]]

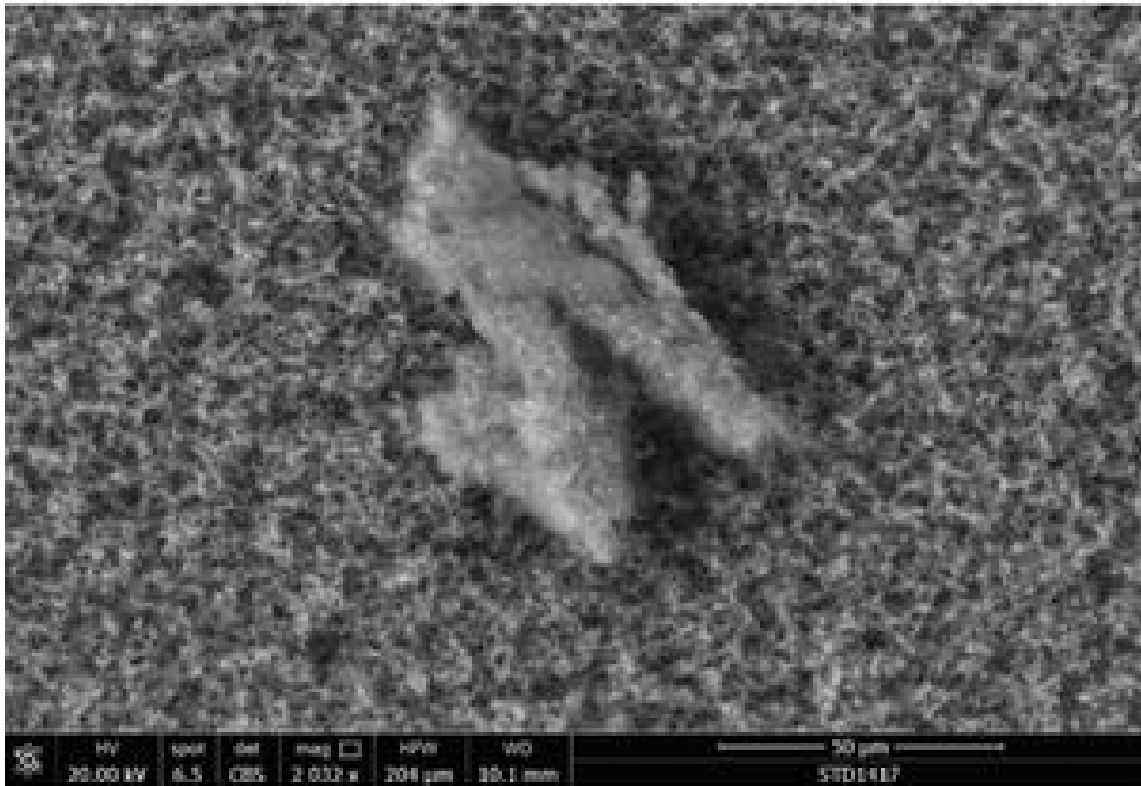
For a definitive identification of graphene by TEM, it is necessary to complement the observation with the structural characterization by obtaining a characteristic electron diffraction standard sample (as the figure 'b' shown below).[4]

The standard sample corresponding to graphite or graphene has a hexagonal symmetry, and generally has several concentric hexagons.



[Figure 4b Reveals X ray Diffraction Pattern of the Graphene Particles. Matéria (Rio J.) 23 (1) , 2018. Characterization of graphene nanosheets obtained by a modified Hummer's method. Renata Hack et al. [4][73][74][83]]

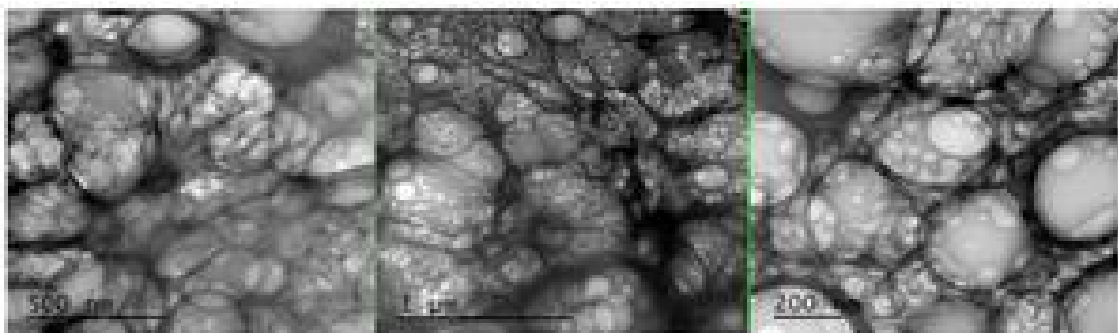
Using Transmission Electron Microscopy (TEM) we observed an intricate matrix or mesh of folded translucent flexible rGO sheets with a mixture of darker multilayer agglomerations and lighter colored of unfolded monolayers as seen in **Figure 5. [3]**
[4]



[Figure 5 shows a cluster of graphene nanoparticles in a Pfizer vaccine. They appear to be aggregated.[83]]

The darker linear areas in **Figure 5** appear to be local overlap of sheets and local arrangement of individual sheets in parallel to the electron beam.[5]

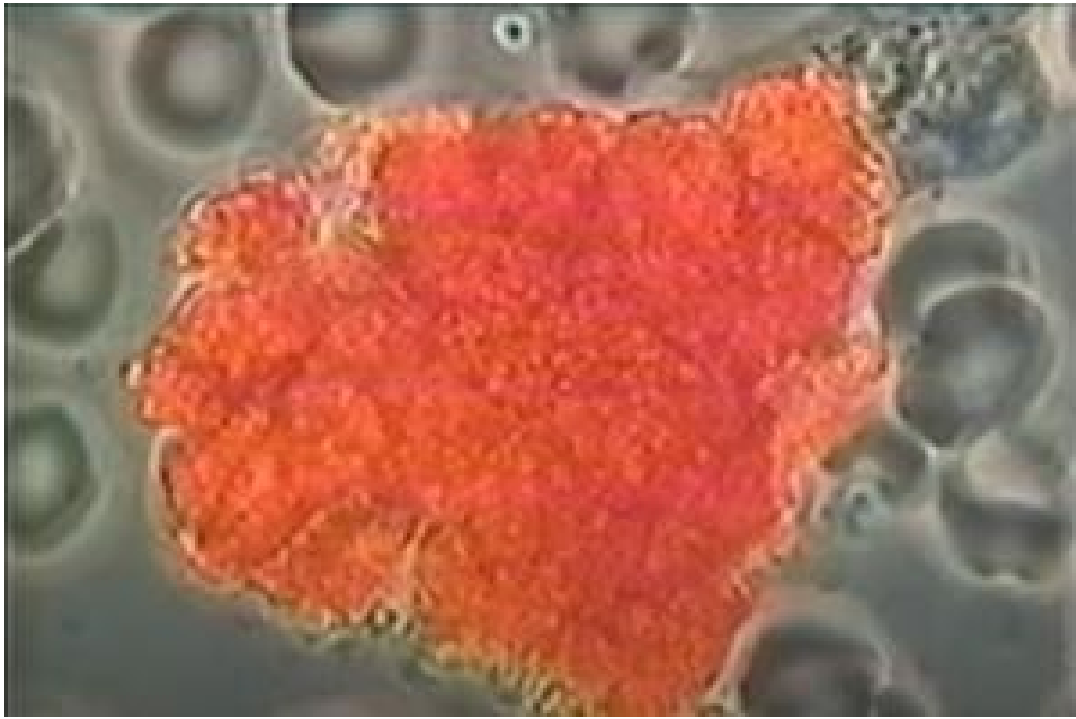
After the mesh, a high density of unidentified rounded and elliptical clear shapes appears, possibly corresponding to holes generated by mechanical forcing of the rGO mesh during treatment as seen in **Figure 6**. [4][5]



[Figure 6 shows a TEM microscopy observation where particles of reduced graphene oxide in a Pfizer "vaccine" are present. The X-ray diffractometry reveals their nature of crystalline Carbon-based nanoparticles of rGO. This evidence was initially found by Muestra RD1, and published in the La Quinta Columna Report, June 28, 2021; Graphene Oxide Detection in Aqueous Suspension; Delgado Martin, Campra Madrid. [4][73][74][83]]

The Immune Response to Dietary, Metabolic, Environmental and Respiratory Acids Including Inoculated Organic and Inorganic Micro and Nano Particulates From So-Called "Vaccines"

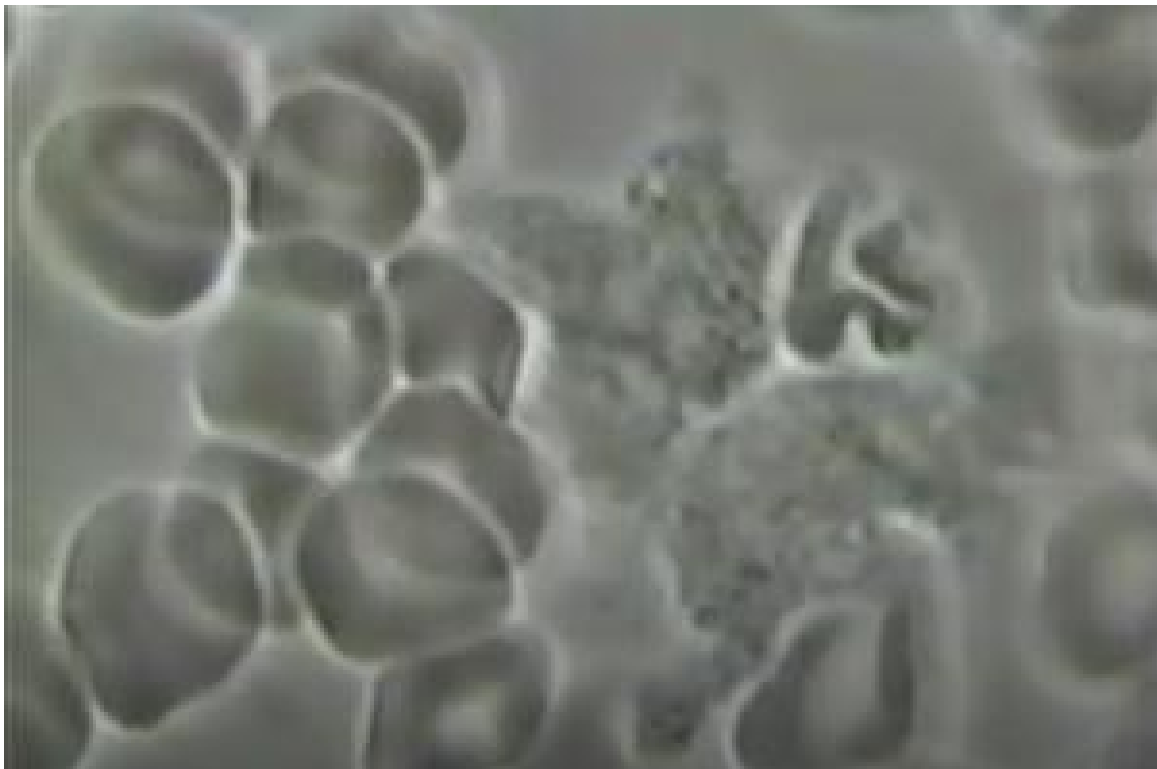
The bright orange blood crystal below is solidified uric acid from the ingestion of a high protein diet from animal flesh, blood and interstitial fluids. You will note that there are several neutrophils attempting to clean-up and remove this toxic mass. This is the main purpose of white blood cells which is to manage and maintain the delicate alkaline pH balance of the body fluids.



[https://youtu.be/yKONi_hDsfE Dr. Robert O. Young – Profiles in Medical Microscopy, Hikari Omni Publishing, 1987-2021]

As you watch the video above you view two neutrophils (neutrophils make up 2/3rds of the total white blood count) swimming through the blood plasma. The neutrophil from the left is moving downward to pick up a biological transformation of a Y-form yeast, like *Candida albicans*. Within about one minute you will see this neutrophil expel this highly toxic Y-form yeast back into the blood plasma.

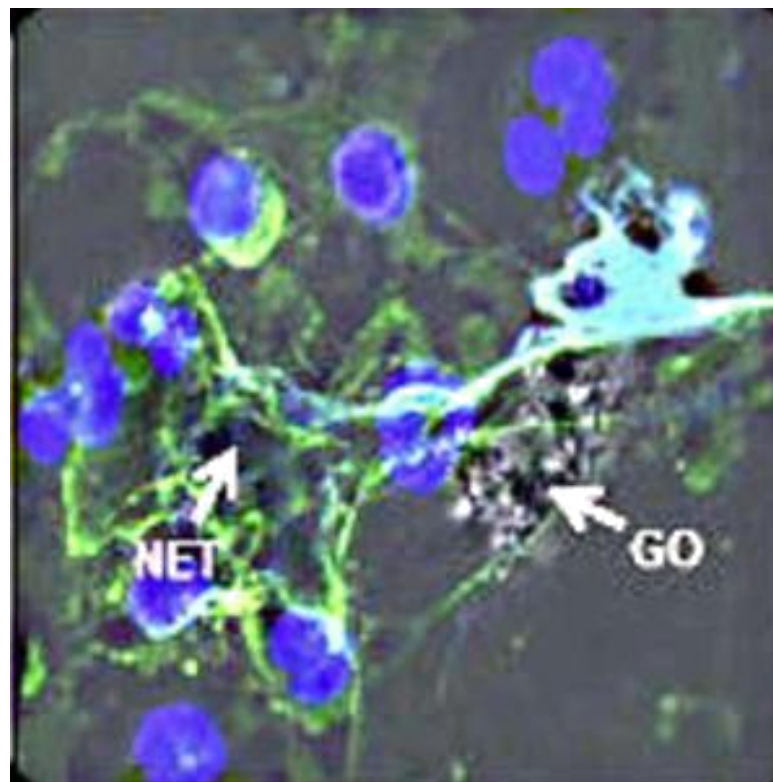
[https://youtu.be/yKONi_hDsfE Dr. Robert O. Young – Profiles in Medical Microscopy, Hikari Omni Publishing, 1987- 2021]



[Two Neutrophils Streaming Through the Blood Plasma Picking up Pathogen or Biological Transformations of Bacteria and Yeast from Cellular Degeneration of What Use to be Healthy Body Cells. Dr. Robert O. Young – Profiles in Medical Microscopy, Hikari Omni Publishing, 1987-2021]

This is the main function of neutrophils: to pick up organic and non-organic micro and nano particulates, such as lactic acid, uric acid, bacteria, yeast, mold and even graphene oxide as seen in the micrograph below labeled GO to the right and a neutrophil labeled NET to the left.

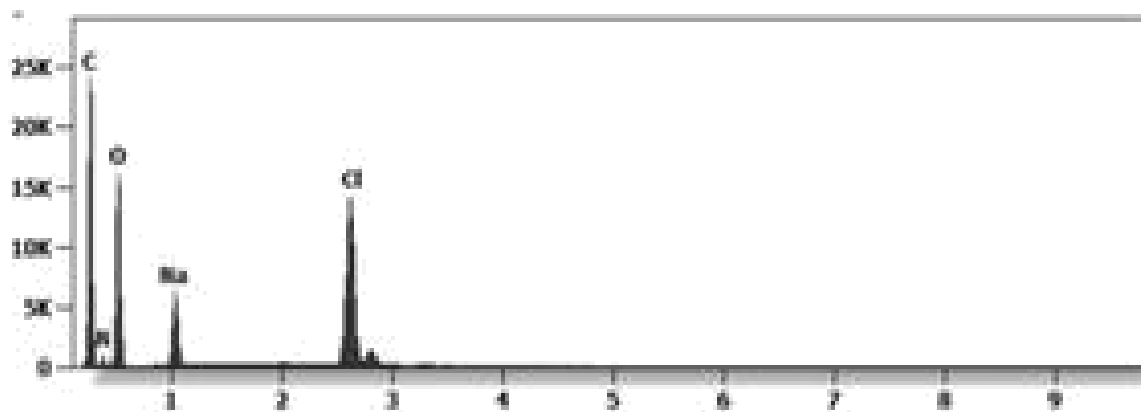
Once again, the neutrophils are white blood cells attempting to isolate and then pick up and remove the graphene oxide, a toxic acidic pathogen which is contained in all CoV - 2 - 19 so-called vaccines as seen in the Dark Field microscopy micrograph below!



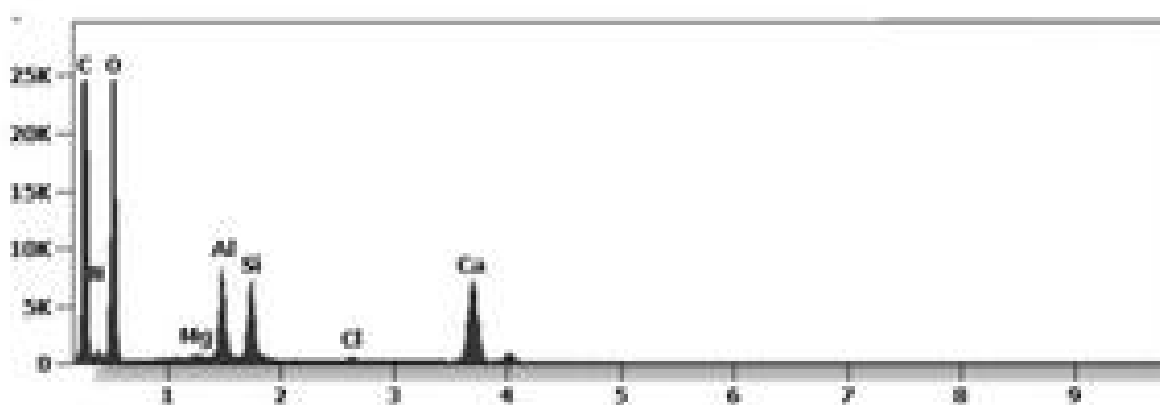
[The micrograph above is showing the graphene oxide (GO) and the poisoning and destruction of the neutrophils (NET - which make up over 60 percent of all white blood cells) which are designed to pick up and eliminate foreign toxic chemical waste and biologicals. The Scientists at Karlinska Institute, the University of Manchester, Chalmers University of Technology and the Scientific Team of Dr. Robert O. Young have shown that the human immune system handles graphene oxide in the same manner as bacteria, yeast or mold.[83]]

Energy-Dispersive X-ray Spectroscopy Reveals rGO in Pfizer Vaccine[5][6][7]

The Pfizer vaccine liquid fraction was then analyzed for chemical and elemental content using Energy-dispersive X-ray spectroscopy (EDS) as seen in **Figure 6**. The EDS spectrum showed the presence of Carbon, Oxygen verifying the rGO elements and Sodium and Chloride since the sample shown in **Figures 2, 3, 5, 6, 7 & 7a** were diluted in a saline solution.



[Figure 7 shows a spectrum of a Pfizer “vaccine” under an ESEM microscopy coupled with an EDS x-ray microprobe (X axis =KeV, Y axis = Counts) identifying Carbon, Oxygen, Sodium and Chloride. [83]]



[Figure 7a shows the spectrum of a Pfizer “vaccine” nanoparticulates of graphene oxide, magnesium, aluminum, silicon, chloride and calcium identified under an ESEM microscope coupled with an EDS x-ray microprobe. (X axis =KeV, Y axis = Counts)[75][83]]

The Quantification of mRNA in the Pfizer Vaccine

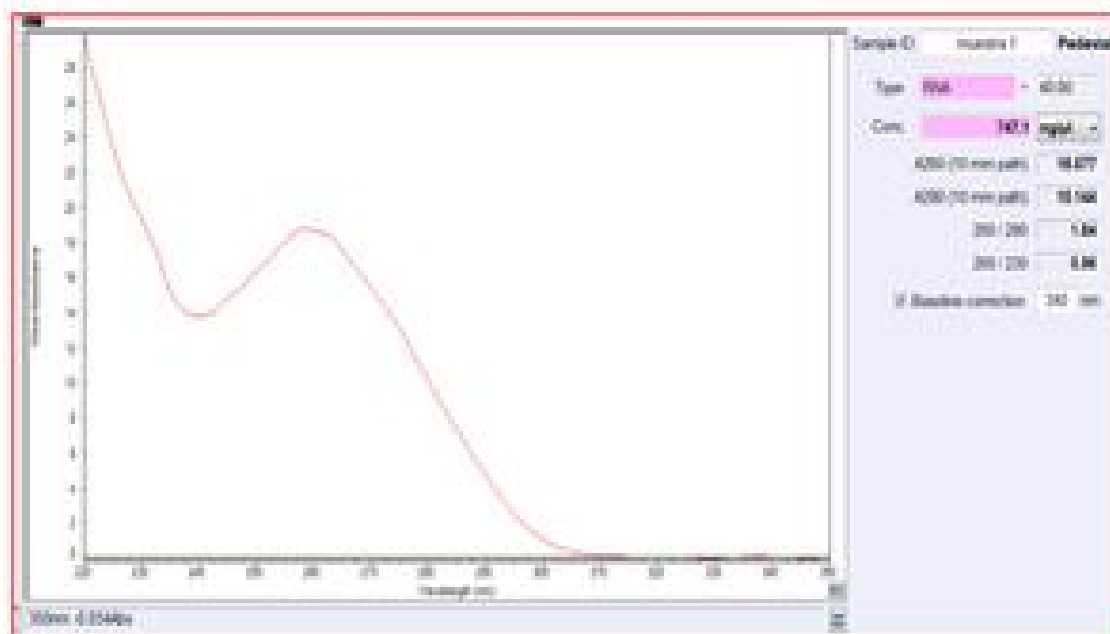
The quantification of RNA in the Pfizer sample was carried out with conventional protocols (Fisher).

According to NanoDrop™ 2000 spectrophotometer calibration check specific software (Thermofisher), the UV absorption spectrum of total aqueous fraction was correlated to 747 ng/ul of unknown absorbing substances.

However, after RNA extraction with commercial kit (Thermofisher), quantification with RNA specific Qbit fluorescence probe (Thermofisher) showed that only 6 ng/ul could be related to the presence of RNA. The spectrum was compatible with the peak of rGO at 270nm.

According to microscopic images presented here, most of this absorbance might be due to graphene-like sheets, abundant in the fluids suspension in the sample.

The conclusions are further supported by high fluorescence from the sample with maximum at 340 nm, in accordance with peak values for rGO. It must be reminded that RNA does not show spontaneous fluorescence under UV exposure.

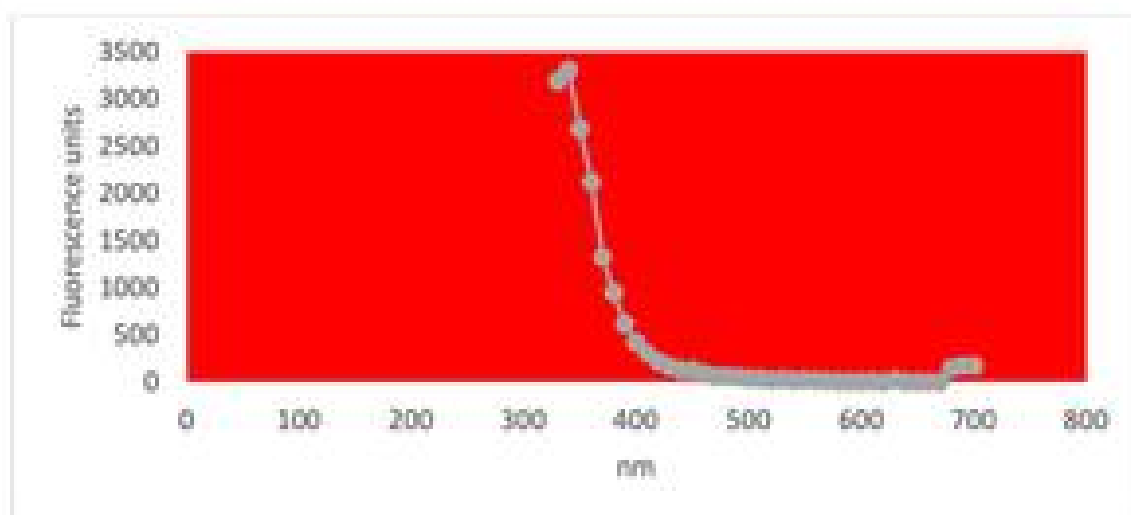


[Figure 8 - UV spectrum of aqueous fraction of Pfizer vaccine sample.[1][2][3][5][6][83]]

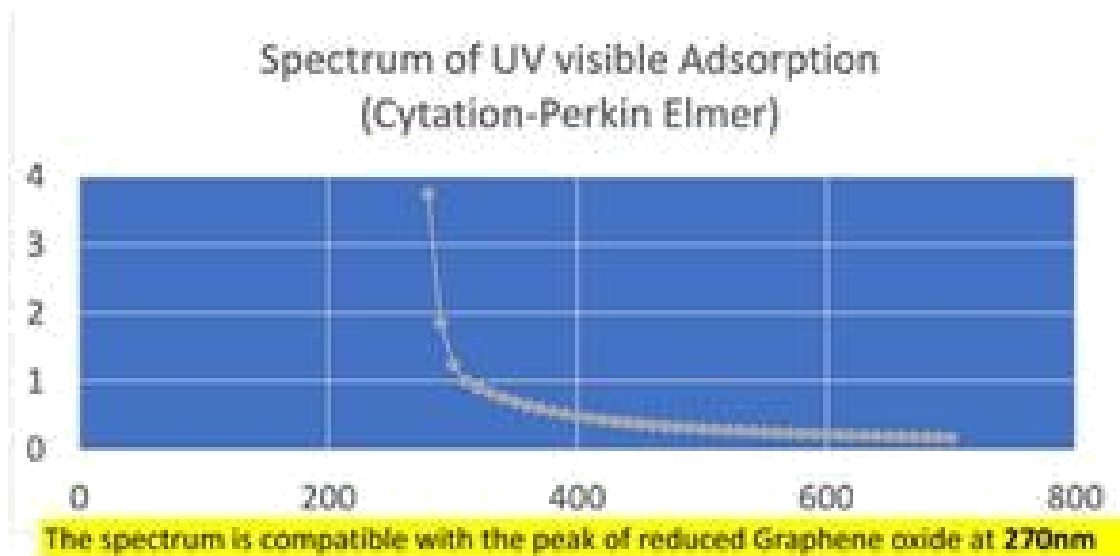
Ultra Violet Fluorescence Testing of the Pfizer Aqueous Fraction for Reduced Graphene Oxide (rGO)[6]

Ultra Violet absorption and fluorescence spectra were obtained with Cytation 5 Cell Imaging Multi-Mode Reader Spectrophotometer (Biotek). UV absorbance spectrum confirmed a maximum peak at 270nm, compatible with presence of rGO particulate.

UV fluorescence maximum at 340 nm also suggests presence of significant amounts of rGO in the sample (Bano et al, 2019).

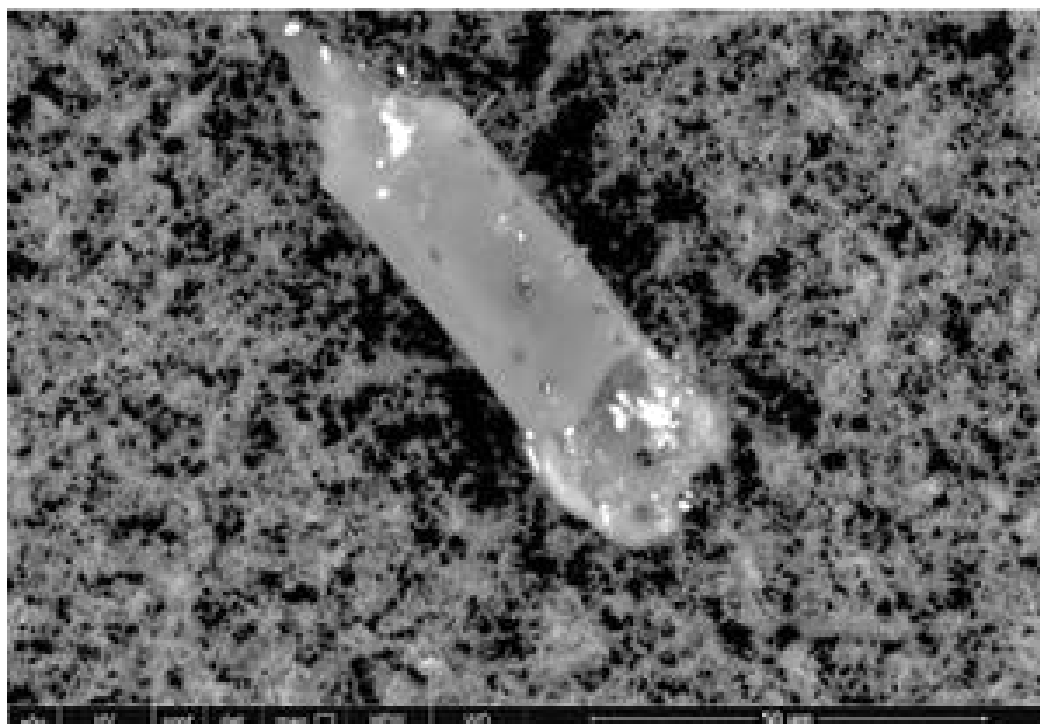


[Figure 9 - UV absorption and fluorescence spectra were obtained with Cytation 5 Cell Imaging Multi-Mode Reader Spectrophotometer (Biotek). UV absorbance spectrum confirmed a maximum peak at 270 nm, compatible with presence of rGO. UV fluorescence maximum at 340 nm also suggests presence of significant amounts of rGO in the sample (Bano et al, 2019).]

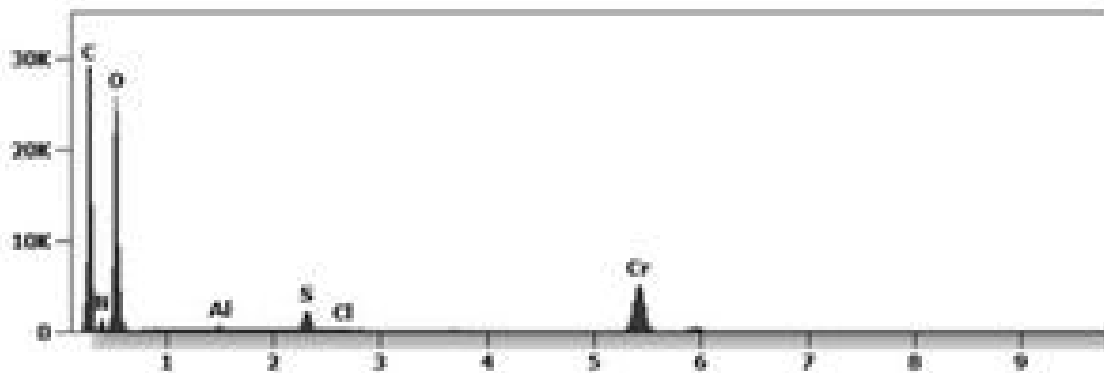


[Figure 10 - The spectroscopy UV analysis showed an adsorption due to the presence of reduced graphene oxide, which is confirmed by observation under ultraviolet visible microscopy.]

Figures 11 and 12 below shows a micrograph of different micro and nano particulates which have been identified in the Pfizer, Moderna, Astrazeneca and Janssen, so-called “vaccines” and analyzed under an Environmental Scanning Electron Microscope (SEM) coupled with an x-ray microprobe of an Energy Dispersive System (EDS) that reveals the [particle size, composition distribution](#) and chemical nature of the observed micro and nanoparticulates under observation.[6] [7][8][83][84]



[Figure 11 shows sharp micron debris of 20 um in length identified in the Pfizer so-called “vaccine” containing Carbon, Oxygen Chromium, Sulphur, Aluminum, Chloride, Nitrogen.[75] [83]]



[Figure 12 shows a 20 micron in length particulate identified in the so-called Pfizer “vaccine”. It is composed of carbon, oxygen, chromium, sulphur, aluminum, chloride and nitrogen.[75][83]]

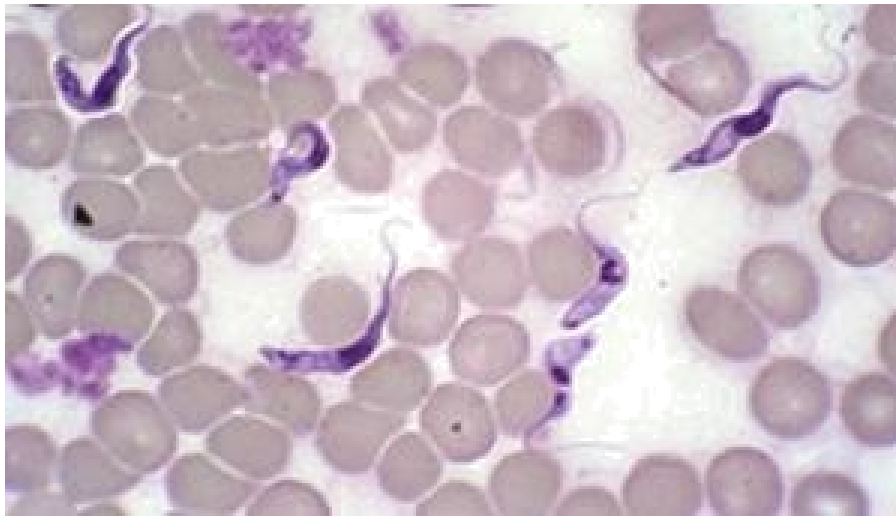
Figures 13 and 14 below shows a micrograph of different micro and nano particulates which have been identified in the Pfizer, Moderna, Astrazeneca and Janssen, so-called “vaccines” and analyzed under an Environmental Scanning Electron Microscope (SEM) coupled with an x-ray microprobe of an Energy Dispersive System (EDS) that reveals the [particle size, composition distribution](#) and chemical nature of the observed micro and nano particulates under observation.

Are There Parasites in the Pfizer “Vaccines”?

A 50 micron elongated body, as seen in **Figure 13** is a sharp mysterious presence in the Pfizer vaccine. It appears and is identified anatomically as a ***Trypanosoma cruzi* parasite of which several variants are lethal and is one of many causes of acquired immune deficiency syndrome or AIDS. [Atlas of Human Parasitology, 4th Edition, Lawrence Ash and Thomas Orithel, pages 174 to 178][9][83]**

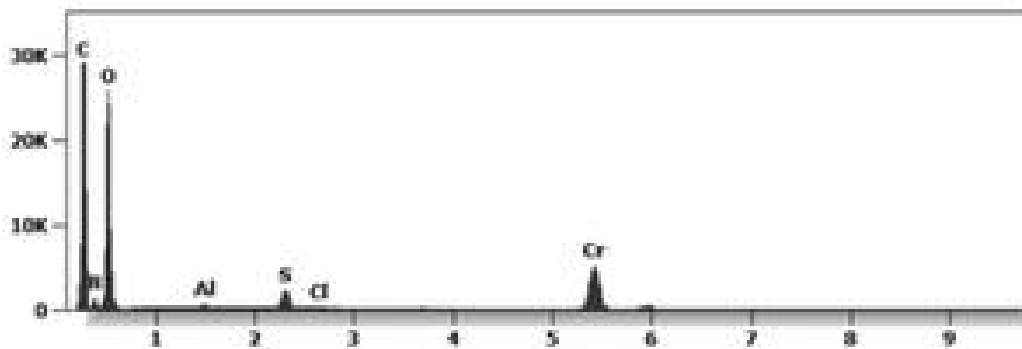


[Figure 13 shows a Trypanosoma Parasite approximately 50 microns in length found in the so-called Pfizer “vaccine”. It is composed of carbon, oxygen chromium, sulphur, aluminum, chloride and nitrogen.[83]]



[Figure 13a shows a Live Blood pHase Contrast Microscopy Micrograph of Trypanosoma cruzi Parasite. [9][83]]

Figure 14 identifies a composition of nano particulates including carbon, oxygen chromium, sulphur, aluminum, chloride and nitrogen also found in the CoV-19 "vaccines".



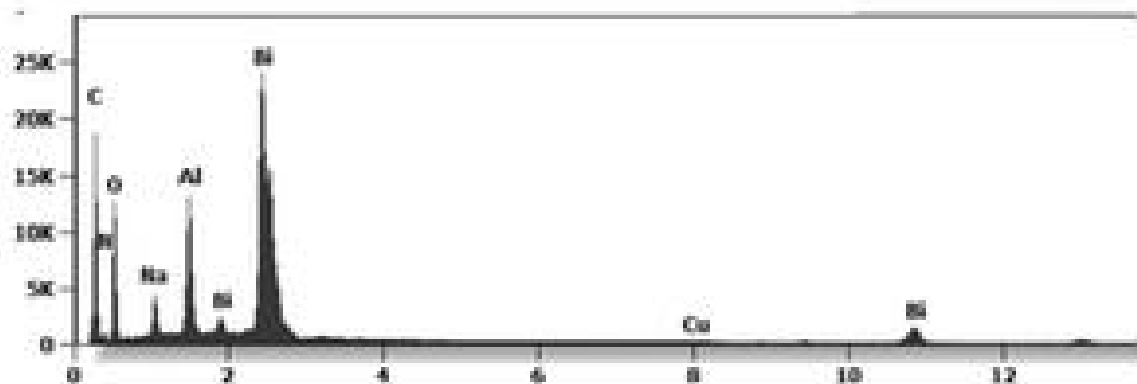
[Figure 14 Identifies a Composite of Nano particulates.[75][83]]

Figures 15 and 16 below show a micrograph of different micro and nano particulates which have been identified and analyzed under an Environmental Scanning Electron Microscope (SEM) coupled with an x-ray microprobe of an Energy Dispersive System (EDS) that reveals the chemical nature of the observed micro and nano particulates and their morphology.

The white 2-micron-long particulate is composed of bismuth, carbon, oxygen, aluminum, sodium, copper and nitrogen.[75][76][83]

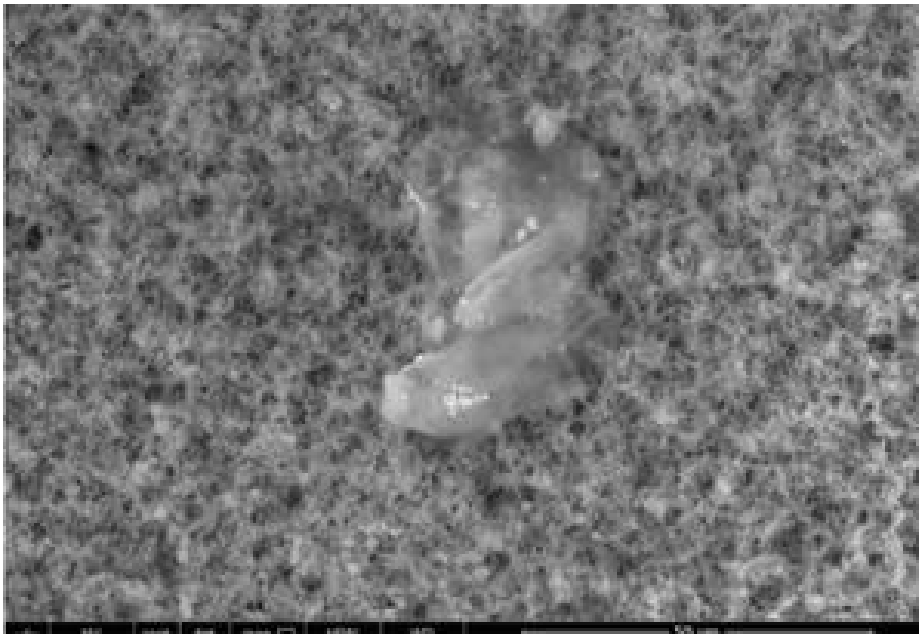


[Figure 15 shows nano and micron particulates identified in the Pfizer “vaccine”. The white 2 micron long particulate is composed of bismuth, carbon, oxygen, aluminum, sodium, copper and nitrogen.[75][76][83]]

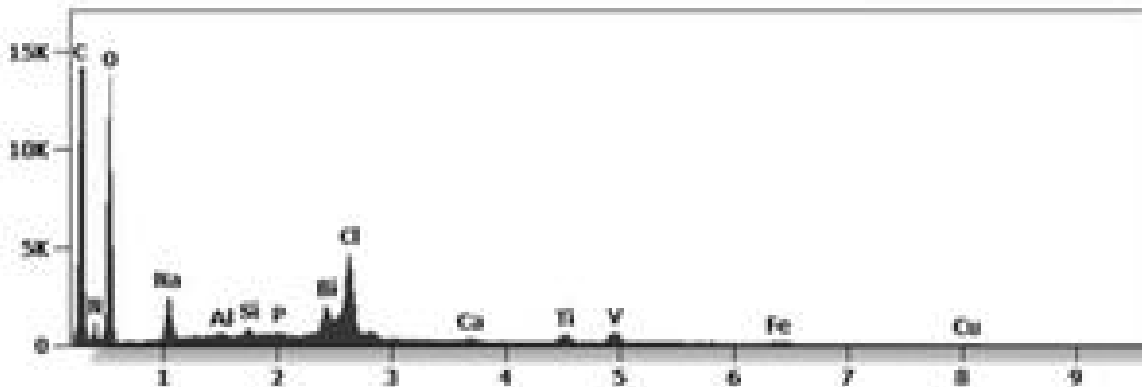


[Figure 16 shows that the white 2 micron particulate found in the so-called Pfizer 'vaccine' is composed of bismuth, carbon, oxygen, aluminum, sodium, copper and nitrogen.[75][76][84]]

Figures 17 and 18 show the identification of organic carbon, oxygen and nitrogen particulates with an aggregate of embedded nanoparticles including bismuth, titanium, vanadium, iron, copper, silicon and aluminum which were all found in the so-called **Pfizer “vaccine.”**[75][76][83][84]



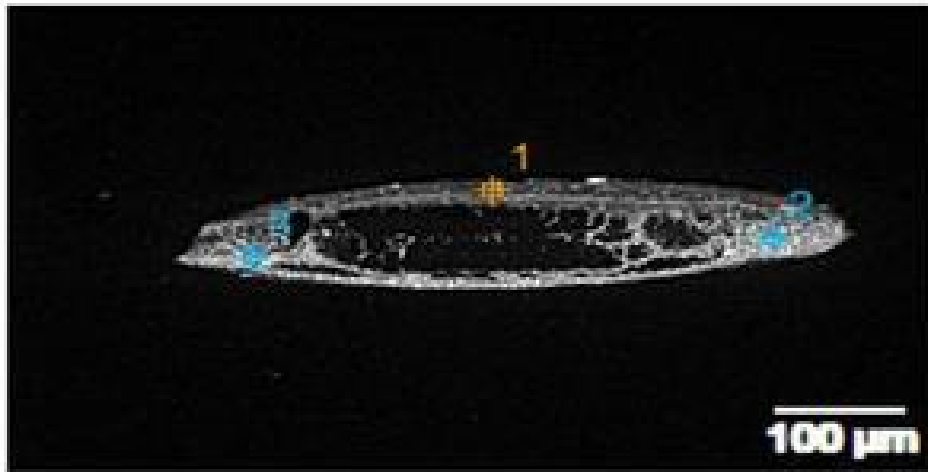
[Figure 17 - shows an organic (Carbon-Oxygen-Nitrogen) aggregate with embedded nanoparticles of bismuth, titanium, vanadium, iron, copper, silicon, aluminum embedded in Pfizer "vaccine!" [75][76][83]]



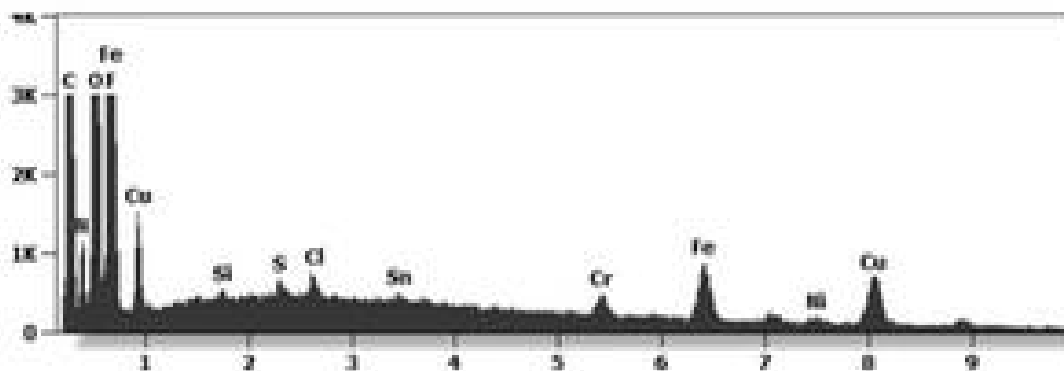
[Figure 18 - shows an organic (Carbon-Oxygen-Nitrogen) aggregate with embedded nanoparticles of bismuth, titanium, vanadium, iron, copper, silicon, aluminum embedded in Pfizer "vaccine!" [75][76][83][84]]

[2] The Astrazeneca "Vaccine" Non-disclosed Ingredients

Figures 19 and 20 show an engineered aggregate of iron, chromium and nickel also known as stainless steel of micro and nano particles embedded and identified in the **Astrazeneca "vaccine"** viewed under Transmission Electron Microscopy (TEM) and quantified (EDS) with an x-ray microprobe of an Energy Dispersive System (EDS) that reveals the chemical nature of the observed micro and nano particulates and their morphology.



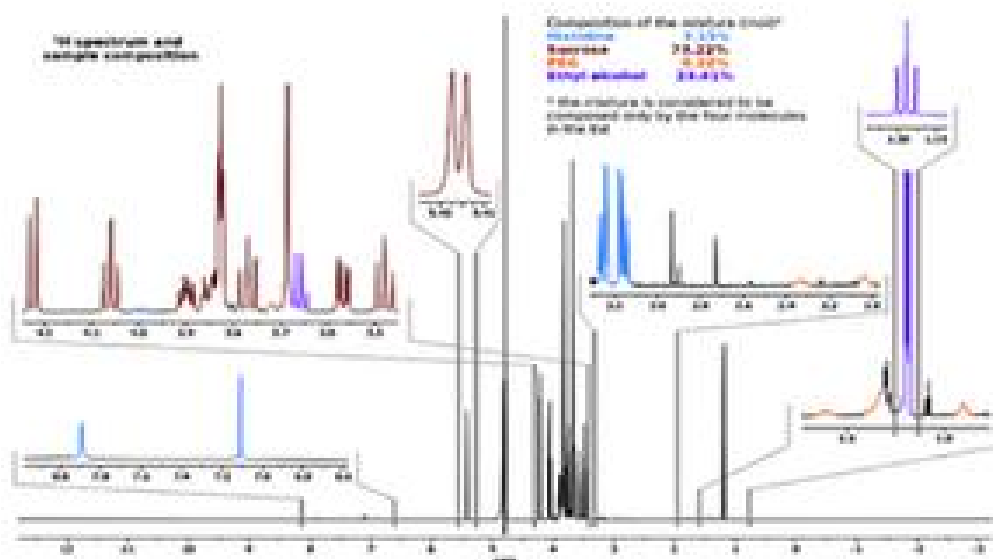
[Figure 19 - Engineered aggregate of iron, chromium and nickel also known as stainless steel.[75][83]]



[Figure 20 shows the quantified nano particulates in the Astrazeneca "vaccine" with an x-ray microprobe of an Energy Dispersive System that reveals the chemical nature of the observed micro and nano particulates.[75][76][83]]

The XRF (X-ray fluorescence) instrument was used to evaluate the adjuvants in the **Astrazeneca "vaccine"**, which identified the following molecules of histidine, sucrose, **Poly-ethylene glycol (PEG)** and ethylene alcohol, also contained in the Pfizer and Moderna "vaccines". The results of this test can be seen in Figure 20.[10][83]

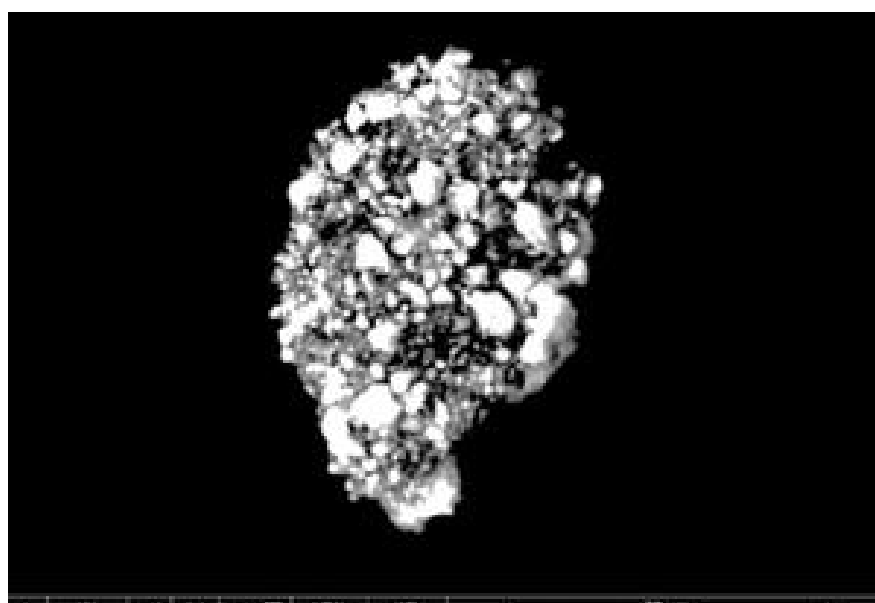
The injection of PEG and Ethylene alcohol are both known as carcinogenic and genotoxic.[10][83] PEG was the only adjuvant declared on the data sheet listing the ingredients of the **Astrazeneca "vaccine"** but also contained in the Pfizer and Moderna "vaccines".



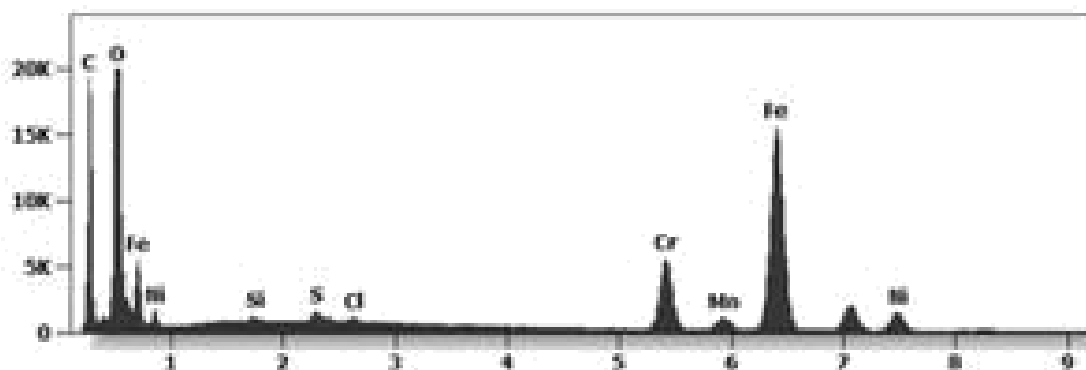
[Figure 21 Identifies the Spectrum of AstraZeneca Vaccine Adjuvants. Different colors are used for the four molecules identified by means of reference spectra. Relative concentration is calculated on integrals of reference signals for molecules in a quantitative spectrum acquired with a duty cycle of 5 seconds with the longest calculated T1 was 5sec.]

[3] The Janssen "Vaccine" Non-Disclosed Ingredients

Figures 22 and 23 shows an organic-inorganic aggregate identified in the Janssen "vaccine". The particles are composed of stainless steel and are glued together with a "**Carbon-based glue**" of reduced graphene oxide.[11] **This aggregate is highly magnetic and can trigger pathological blood coagulation and "The Corona Effect" or "The Spike Protein Effect" creation from the degeneration of the cell membrane due to interactions with other dipoles.** [11] You can view these biological reactions or cellular transformations in the live blood under pHase Contrast and Dark Field Microscopy in Figures 24, 25 and 26.[1][12]



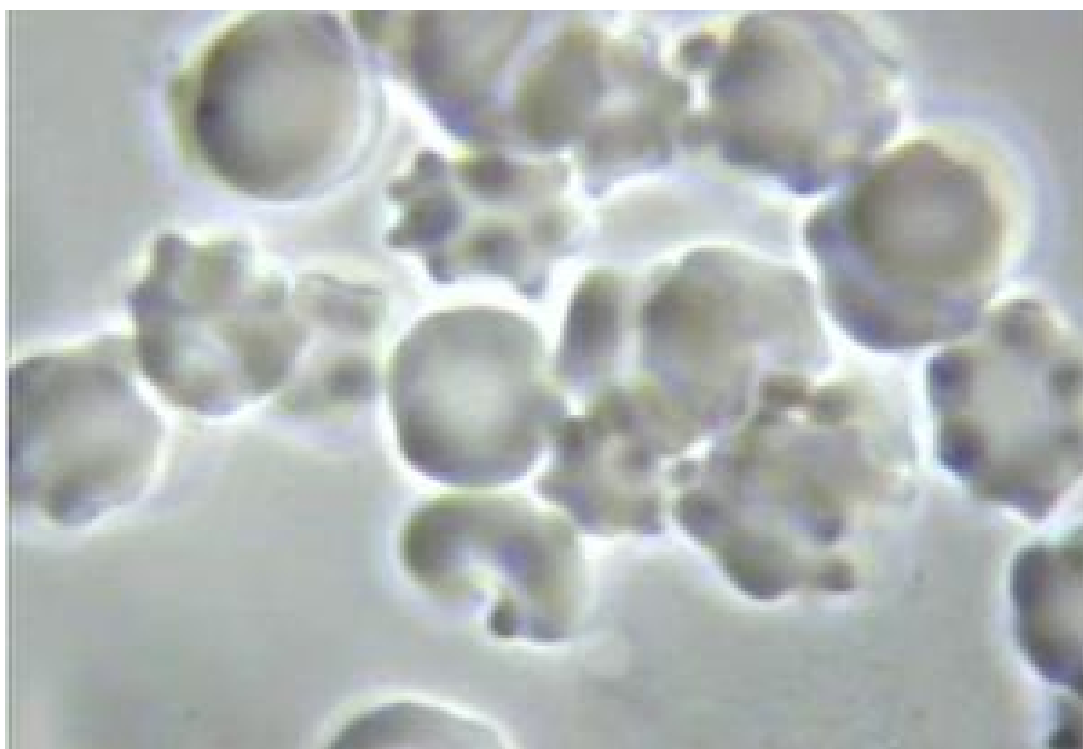
[Figure 22 A Stainless Steel Aggregation of Carbon , Oxygen, Iron and Nickel Held Together With Graphene Oxide.[75][83]]



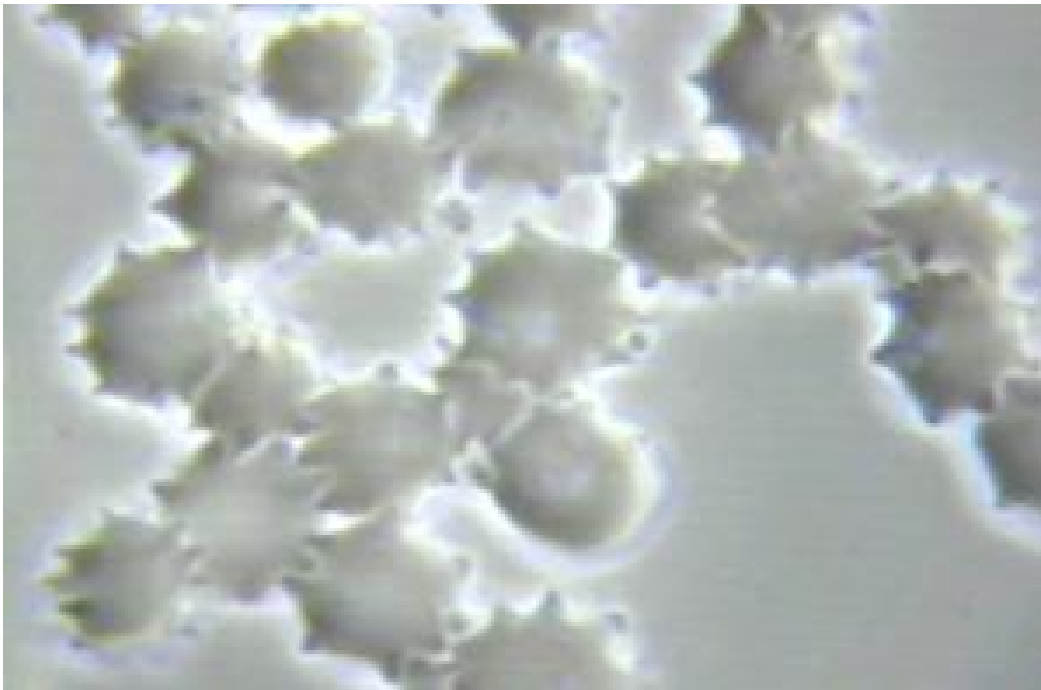
[Figure 23 Shows Elements of of Carbon , Oxygen, Iron and Nickel Held Together With Graphene Oxide.[75][83]]

The Corona Effect and Spike Protein Effect

The Endogenously Created "Corona Effect" and "Spike Protein" ARE Caused by Chemical, Parasitcal and Radiation Poisoning from Reduced Graphene Oxide and Microwave Radiation![12][82][83]



[Figure 24 "The Corona Effect" and the Endogenous Creation of Exosomes Due to Chemical and Radiation Poisoning of the Vascular and the Interstitial fluids of the Interstitium. Dr. Robert O. Young, Hikari Omni Publishing, 1987 - 2021. [83]]



[Figure 25 Shows "The Corona Effect" and the the Endogenous Birth of S1 Protein Spikes Caused by Radiation and Chemical Poisoning or What I Call The "Protein Spiking Effect". Dr. Robert O. Young, Hikari Omni Publishing, 1987 - 2021. [83]]

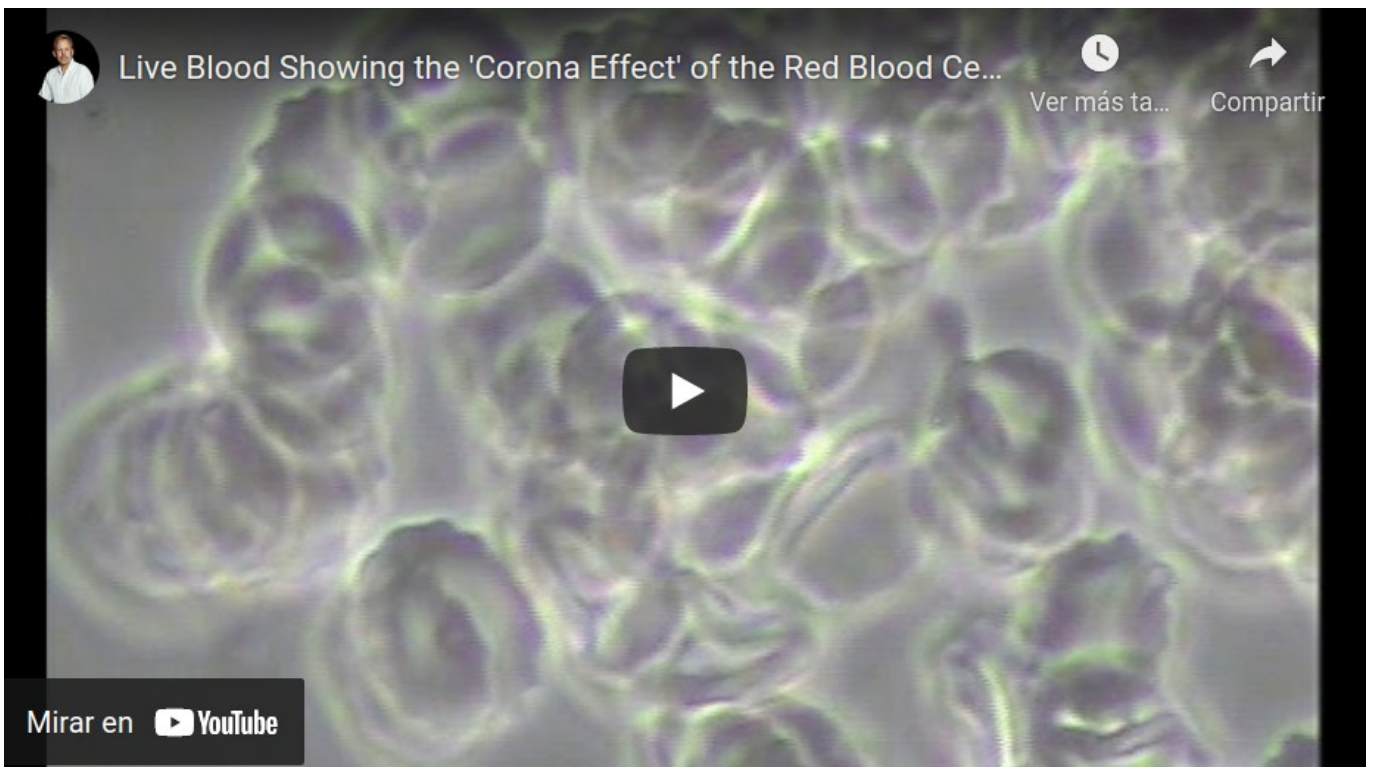


[Figure 26 This Micrograph Shows the Endogenous Birth of the "Spike Protein" as an Outfection and NOT and Infection! Dr. Robert O. Young, Hikari Omni Publishing , 1987 - 2021,[83]]

Blood Videos 1 of 4 - The Blood of a 55 Year Old Male with Metastatic Brain Cancer - RTPCR CoV -19 Positive



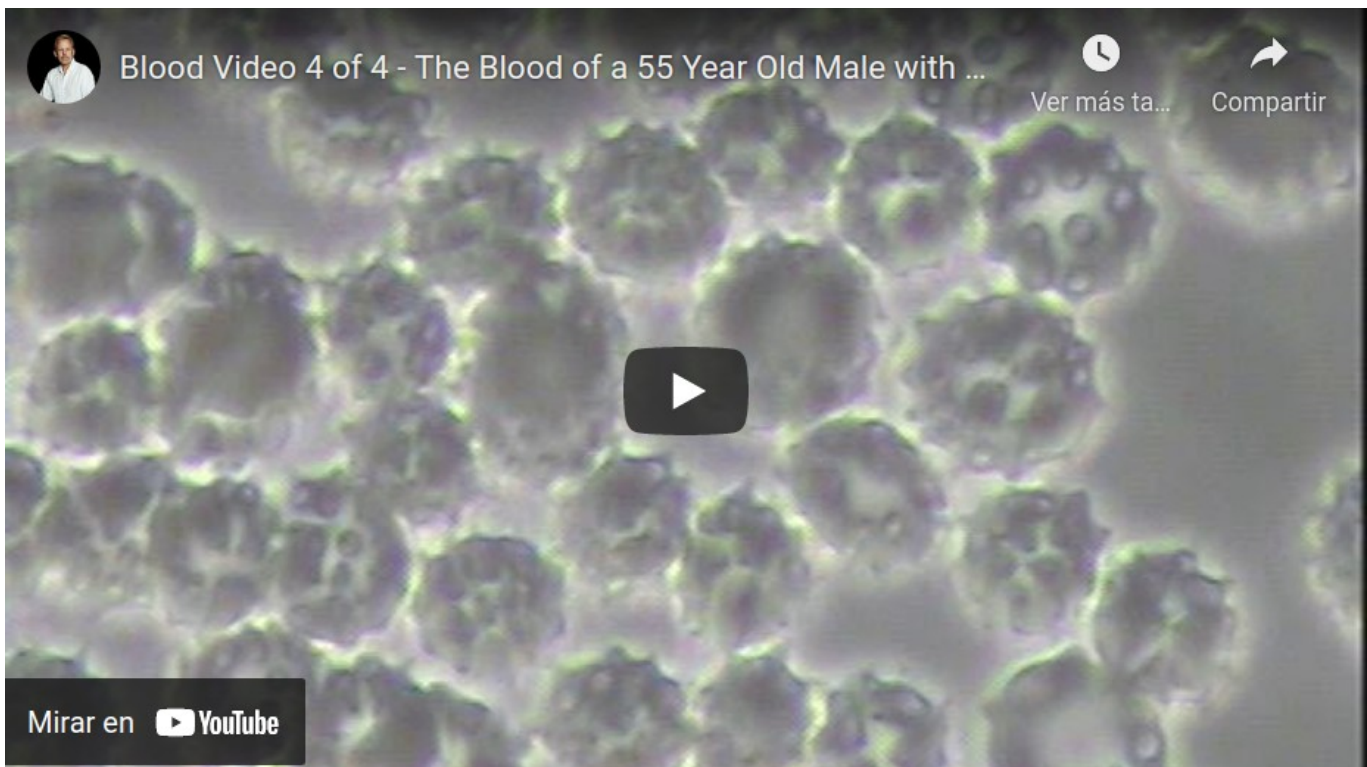
[Figure 26a shows the blood of a 55 year old male with diagnosed brain cancer and mets to the lung, gallbladder and blood. He also RTPCR tested positive for CoVid-2 renamed as CoVid-19. Please note the red blood cell showing the 'Corona Effect' on the left of the neutrophil. Neutrophils make up 2/3rds of the total white blood cell count. They are the garbage collectors and purifiers of the blood.] <https://youtu.be/HYBj13hHxGA> [83]]



[Figure 26b shows the Live blood as seen under pPhase contrast microscopy at 1000x plus magnification showing the biological transformation of the red blood cells as they give birth to the "spiked protein" and crowning of their cell membranes, I call the "Corona Effect."]
https://youtu.be/l7ESjNmjX_g [83]]



[Figure 26c shows a granulocytic neutrophil or the dominate white blood cell removing cellular waste from the vascular fluids. This is not immunity but a neutrophil clearing the vascular fluids from cellular debris from body cells, food and environmental micro and nano particulates such as aluminum, graphene, titanium, copper, iron, etc.] <https://youtu.be/dGX-UFEy2JQ> [83]

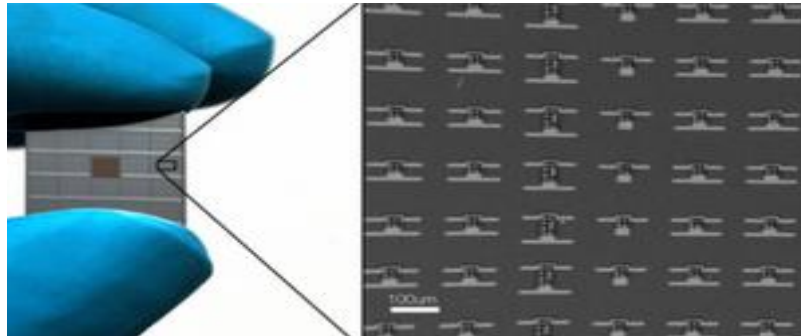


[Figure 26d you will see the visual evidence of the 'Corona Effect' of the red blood cells which is NOT a viral infectious condition but a degenerative acidic lifestyle condition of the cell membranes degenerating due to an acidic interstitial fluid biochemistry, an acidic electromagnetic field and an oxygen deprived environment] <https://youtu.be/-c7KDneWK4U> [83]

Figures 24 and 25 above show 'The CORONA EFFECT' on the red blood cells with Figure 26 showing 'The SPIKED PROTEIN EFFECT' both caused by

decompensated acidosis of the interstitial and then vascular fluids from an acidic lifestyle and specifically, exposure to toxic pulsating electromagnetic fields at 2.4GHz or higher, chemical poisoning from the food and water ingested, toxic acidic air pollution, chem-trails and to top-it-all-off a nano particulate chemical laden CoV - 19 inoculation![12][82]

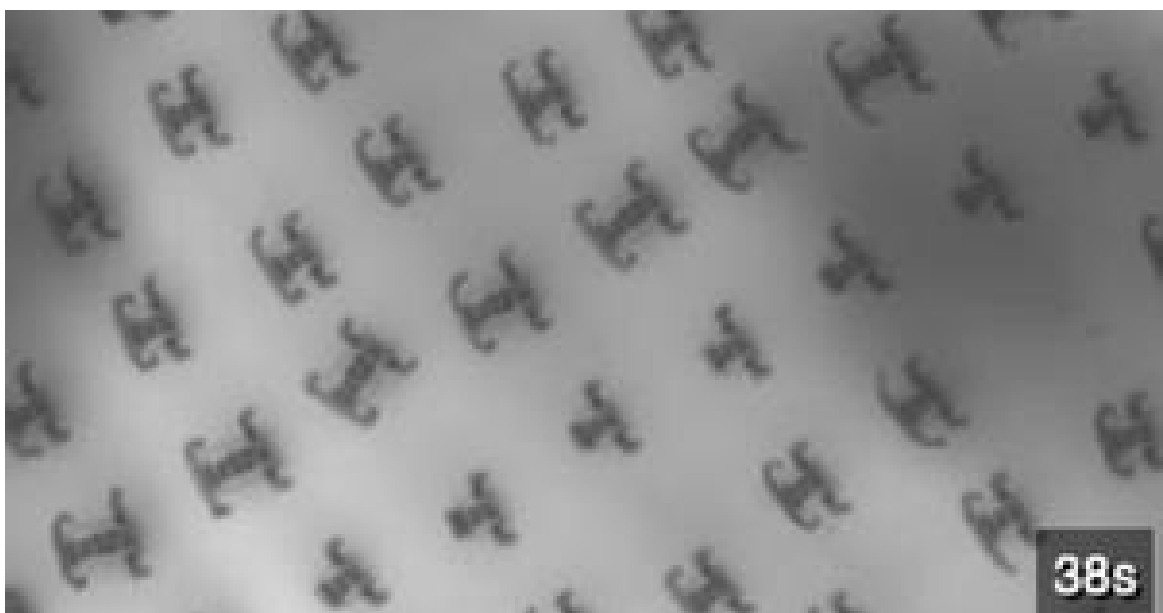
The Magnetic Field and Graphene Oxide



[Programmable Magnetic Graphene Oxide Nanobots[82]]

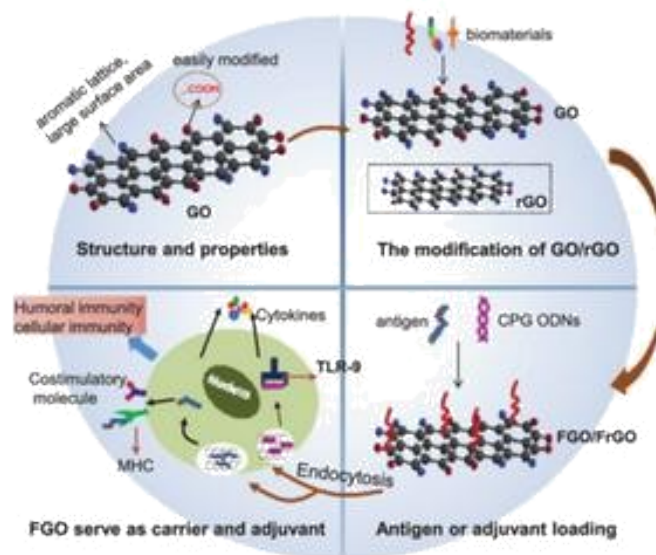
Programmable magnetic "GO" nanobots injected into the vascular and interstitial fluids of a human or animal body are found to be deposited into the connective and fatty tissues and then into the organs and glands potentially causing biological transformation of the cell membrane (crowning and protein spiking), genetic mutation, and the death of the cell as seen in the darkfield microscopy micrographs as seen above in Figures 24, 25, 26.[77][78][82]

The original nanofabrication techniques were developed by Marc Miskin and colleagues at Cornell University. The research was presented at the American Physical Society in March of 2017. According to a release from *EurekAlert*, the team spent years developing a nanofabrication process that can produce a million **nanobots** from a specialized 4-inch silicon wafer in the span of weeks.[82]



[Four-Legged Graphene Oxide Nanobots - <https://rumble.com/vkm84h-is-nanobot-technology-or-artificial-intelligence-viable-inside-the-human-bo.html> [82]]

These micro-robots shown above feature four legs and are composed of hexagonal graphene oxide which are highly magnetic, flexible and super strong.[77][78][82]



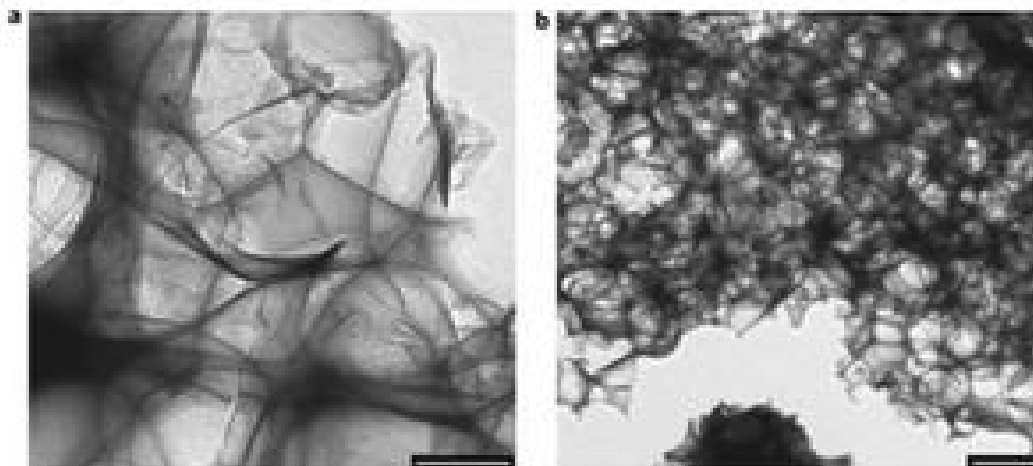
The following is the link for a video showing the activation of graphene oxide triggered by electromagnetic (EMF) pulsating microwave frequencies:

[<https://rumble.com/vkm84h-is-nanobot-technology-or-artificial-intelligence-viable-inside-the-human-bo.html>] [79][82]

Nanoparticulates of Graphene Oxide -

[<https://forbiddenknowledge.tv.net/dr-david-martin-just-ended-covid-fauci-doj-politicians-in-one-interview/>][82]

This enables the Graphene Oxide [nanobots](#) to carry a body weighing about 8,000 times more than each leg. As well, each leg measures only 100 atoms and even down to 1 atom thick, and they can carry bodies 1,000 to 100,000 times thicker.[82][83]

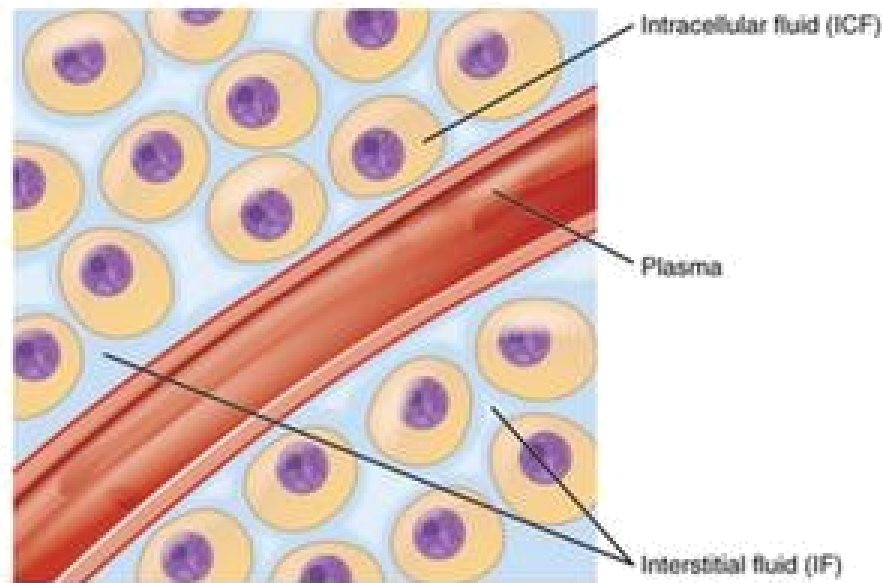


[Hexagonal 'Smart' Versions of Graphene Oxide Nanobots Found in the Pfizer, Moderna, Astrazeneca, and Janssen Vaccines!][82][83]

There have been other researchers who have now developed 'smart' versions of these graphene oxide nanobots. These versions feature controllers, sensors,

transmitters and clocks.[82][83]

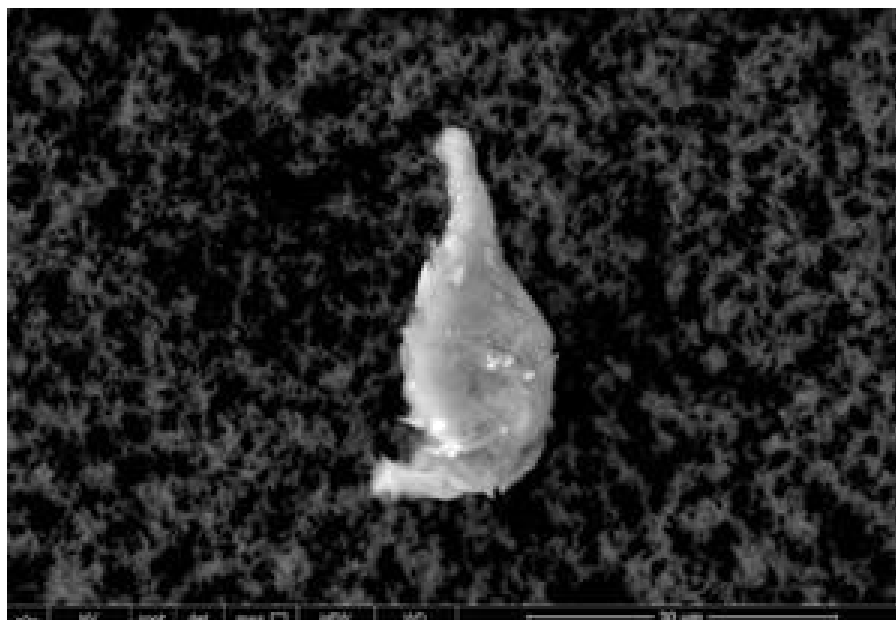
The **graphene oxide nanobots** are powered by using magnetic fields (EMF) or ultrasound, making it possible for them to travel deeply into the human body tissues, organs and glands (such as the reproductive organs,[80][82][83] bone marrow, across the blood-brain barrier and the air-blood barrier of the lungs via the interstitial fluids - the largest organ of the human and animal body called the Interstitium. [81][82][83]



[4] The Moderna "Vaccine" Non-Disclosed Ingredients

Figure 26 and 27 identified a mixed entity of organic and inorganic matter contained in the Moderna "vaccine." Transmission Electron Microscopy (TMS) and quantified with an x-ray microprobe of an Energy Dispersive System (EDS) revealed the chemical nature of the observed micro and nano particulates.

The so-called Moderna "vaccine" is a carbon-based Reduced Graphene Oxide substrate where some nanoparticles are embedded. The nanoparticles are composed of carbon, nitrogen, oxygen, aluminum, copper, iron and chlorine.[13][83][84]



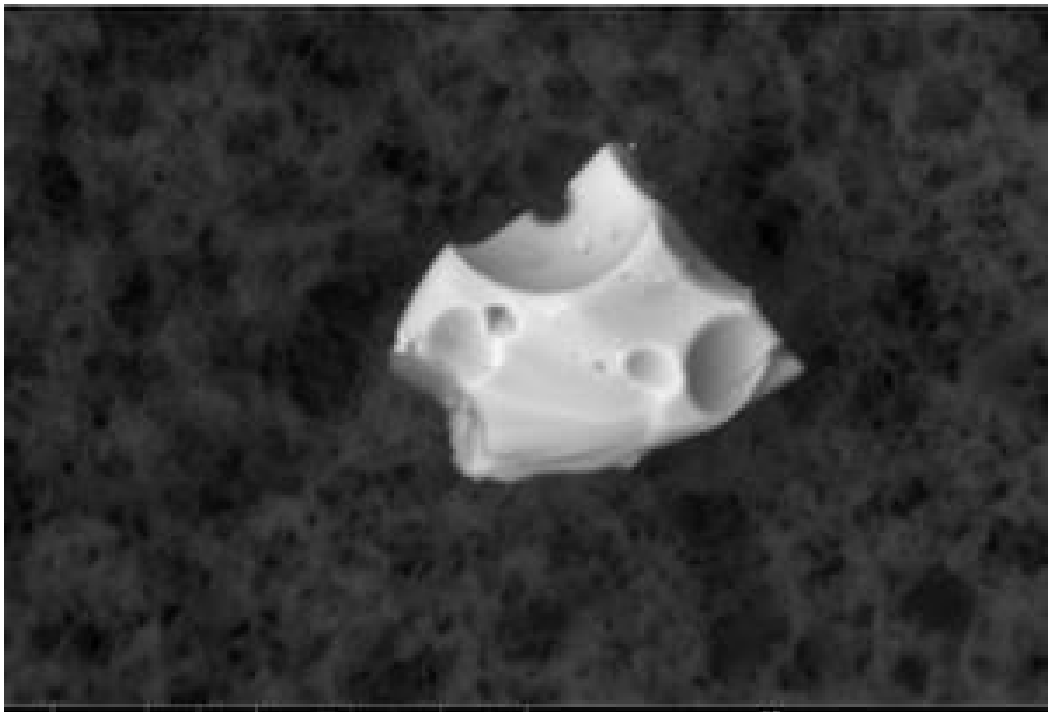
[Figure 26 Transmission Electron Microscopy Reveals a Graphene Oxide Composite of Embedded Organic and Non-Organic Matter.[83]]



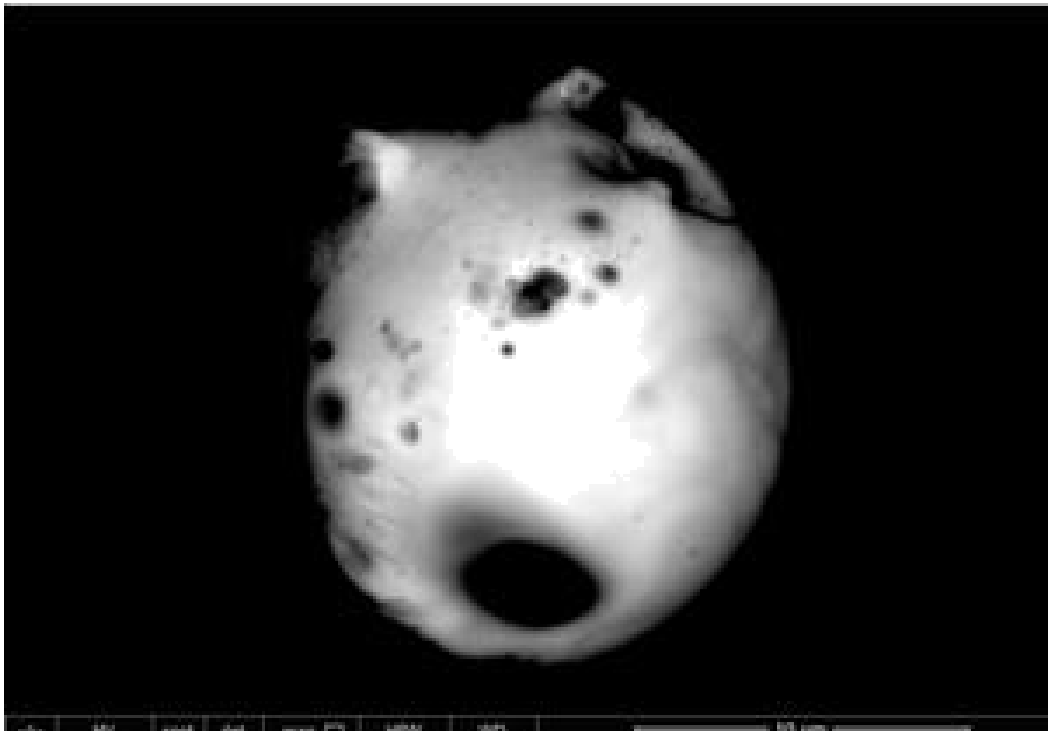
[Figure 27 Reveals Embedded Cytotoxic Nano Particulates.[75][76][83][84]]

Figures 27 and 28 shows an analysis which was also performed under Transmission Electron Microscopy (TEM) and quantified with an x-ray microprobe of an Energy Dispersive System (EDS) and revealed the chemical nature of the observed micro and nano particulates. Many foreign bodies were identified with a spherical morphology with some bubble-shaped cavities.

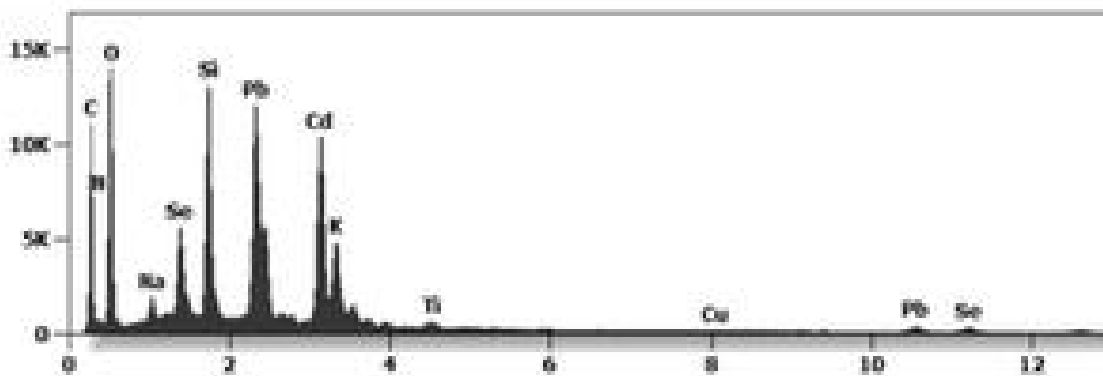
Figure 29 shows they are composed of carbon, nitrogen, oxygen, silicon, lead, cadmium, and selenium. This highly toxic nano particulate composition are quantum dots of cadmium selenide which are cytotoxic and genotoxic.[14][15][83]



[Figure 27 Reveals the Nano Dots in the Graphene Oxide Found in the Moderna "Vaccine".[83]]

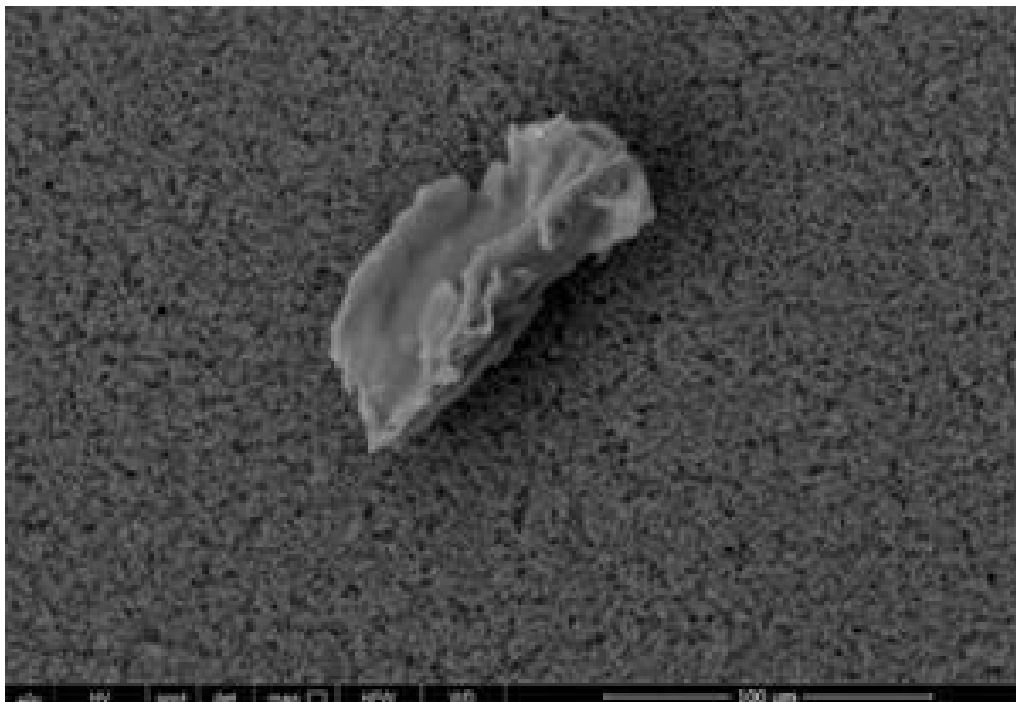


[Figure 28 Reveals the Nano Dots in the Graphene Oxide Found in the Moderna "Vaccine".[83]]

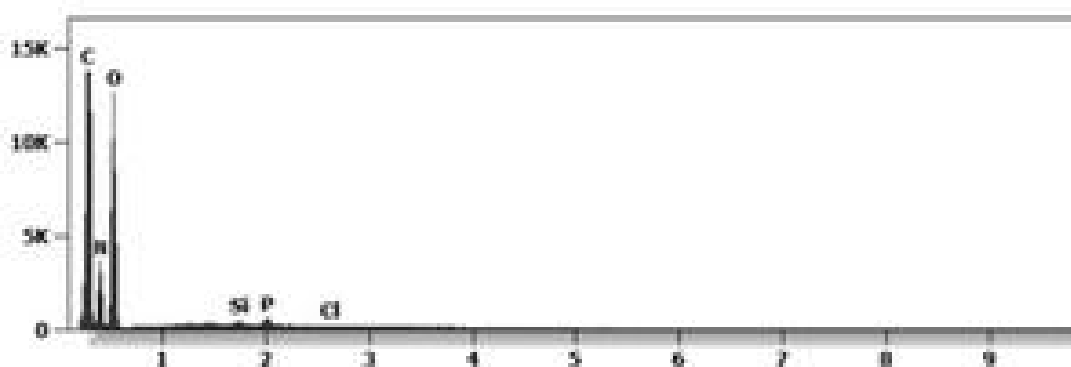


[Figure 29 Reveals the Cytotoxic and Genotoxic Composite of Nano Particulates in Graphene Oxide Found in the Moderna "Vaccine".[75][76][83][84]]

Figures 30 and 31 further analysis of the so-called Moderna "vaccine" showed a 100-micron symplast of reduced graphene oxide nano particulate composite. The rGO is composed of carbon and oxygen with contamination of nano particulates of nitrogen, silicon, phosphorus and chlorine.[16][83]

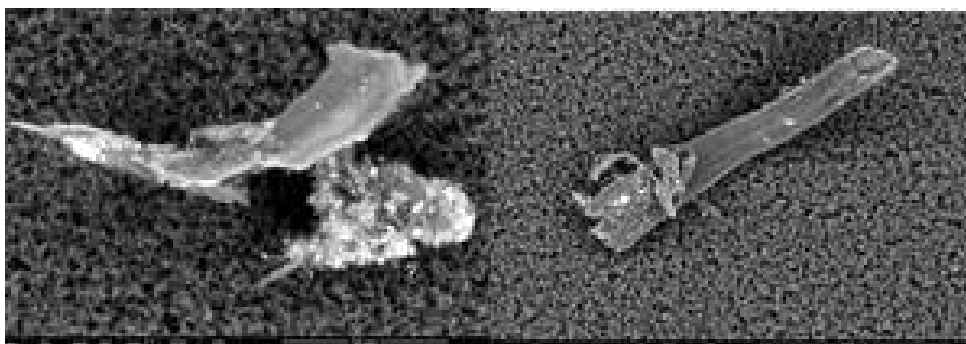


[Figure 30 Transmission Electron Microscopy Reveals a Large 100 micron Symplast Composite of Reduced Graphene Oxide.[83]]

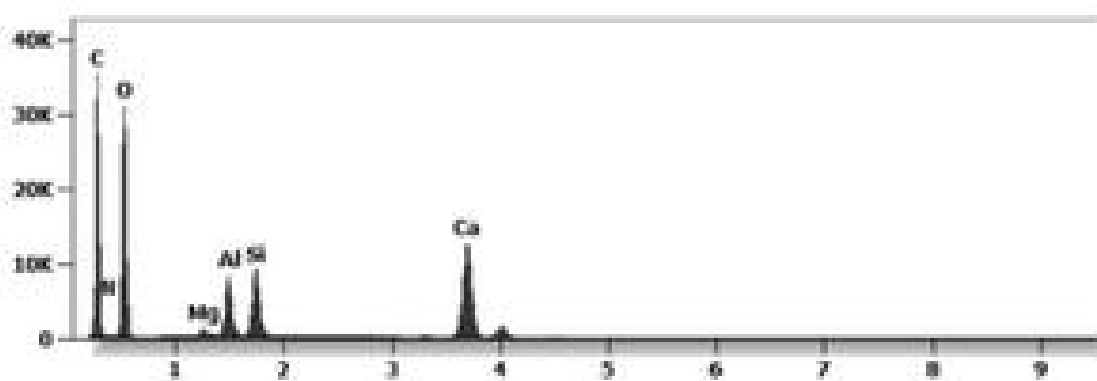


[Figure 31 Reveals the Nano Particulate Complex Contained in the Moderna "Vaccine".[75][83]]

Figures 32 and 33 show carbon-based reduced graphene oxide entities in the Moderna “vaccine” mixed with aggregates filled with Aluminum silicate nanoparticulates.[17][83]



[Figure 32 Reveals a Complex of Graphene Oxide and Aluminum Silicate Using Transmission Electron Microscopy.[75][83]]



[Figure 33 Reveals the Nano Elements of Graphene Oxide and Aluminum Silicate Contained in the Moderna "Vaccine".[75][83]]

Discussion

The SARS-CoVid-2-19 pandemic induced the pharmaceutical industries to develop new drugs that they called vaccines.

The mechanism of action of these new drugs as declared by the pharmaceutical industry coupled with what is reported in the vaccine products' data sheet is NOT clear for current medical savants to understand that those new drugs produced by **Pfizer--BioNTech mRNA Vaccine**, the **Moderna-Lonza mRNA-1273 Vaccine**, the **Serum Institute Oxford Astrazeneca Vaccine** and the **Janssen COVID -19 Vaccine**, manufactured by *Janssen Biotech Inc.*, a *Janssen Pharmaceutical Company* of *Johnson & Johnson* are **NOT** vaccines but nanotechnological drugs working as a genetic therapy.

The name “vaccine” is likely to be an escamotage (trickery) used for bureaucratic and technocratic reasons in order to receive an urgent approval, ignoring all the normal rules necessary for new drugs, especially for those involving novel nanotechnological mechanisms which have never been developed nor experienced by humans any where, at any time in the history of World.

All these so-called “vaccines” are patented and therefore their actual content is kept secret even to the buyers, who, of course, are using taxpayers' money. So, consumers (taxpayers) have no information about what they are receiving in their

bodies by inoculation. Humanity is kept in the dark as far as the nano particulate technological processes involved are concerning, on the negative effects on the cells of the body, but mostly on the possible magneticotoxic, cytotoxic and genotoxic nano-bio-interaction effect on the blood and body cells.[82]

This current research study via direct analysis on the aforementioned so-called "vaccines" by means of nano particulate technological instrumentation reveals disturbing and life-altering information concerning the truth about the actual toxic acidic contents and their effects of these so-called "vaccines".



The vaccines for SARS-CoVid-2 or also renamed as CoVid-19 have been fast tracked from 10 years to 1 year. It is important for us all to be aware that the clinical trials of these so-called "vaccines" or "gene therapy" inoculations do not finish until 2023!!

The Pfizer, Moderna, Astrazeneca and Janssen drugs are **NOT** "vaccines" but complexed Graphene Oxide nano particulate aggregates of varying nano elements attached to genetically modified nucleic acids of mRNA from animal or vero cells and aborted human fetal cells as viewed and described above. Once again the ingredients in these so-called vaccines are highly magneticotoxic, cytotoxic and genotoxic to plant, insect, bird, animal and human cell membranes and their genetics which already has lead to serious injuries (estimated at over 500 million) and/or death (estimated at over 35 million).[17][18] through [55][73][82][83]

The so-called "experts" or "medical savants" are telling YOU that CoV -2 - 19 vaccines are the ONLY way to stop the spread of CoV-19... even when there is NO EVIDENCE of its existence and NO EVIDENCE of it spreading as determined by the scientific method of Koch or Rivers postulates![54]

Koch vs Rivers

Koch (1884)

1. The microorganism found in the ill but not the healthy
2. The microorganism must be isolated from a diseased organism and grown in pure culture.
3. Produce same disease in host
4. Re-isolation of microorganism

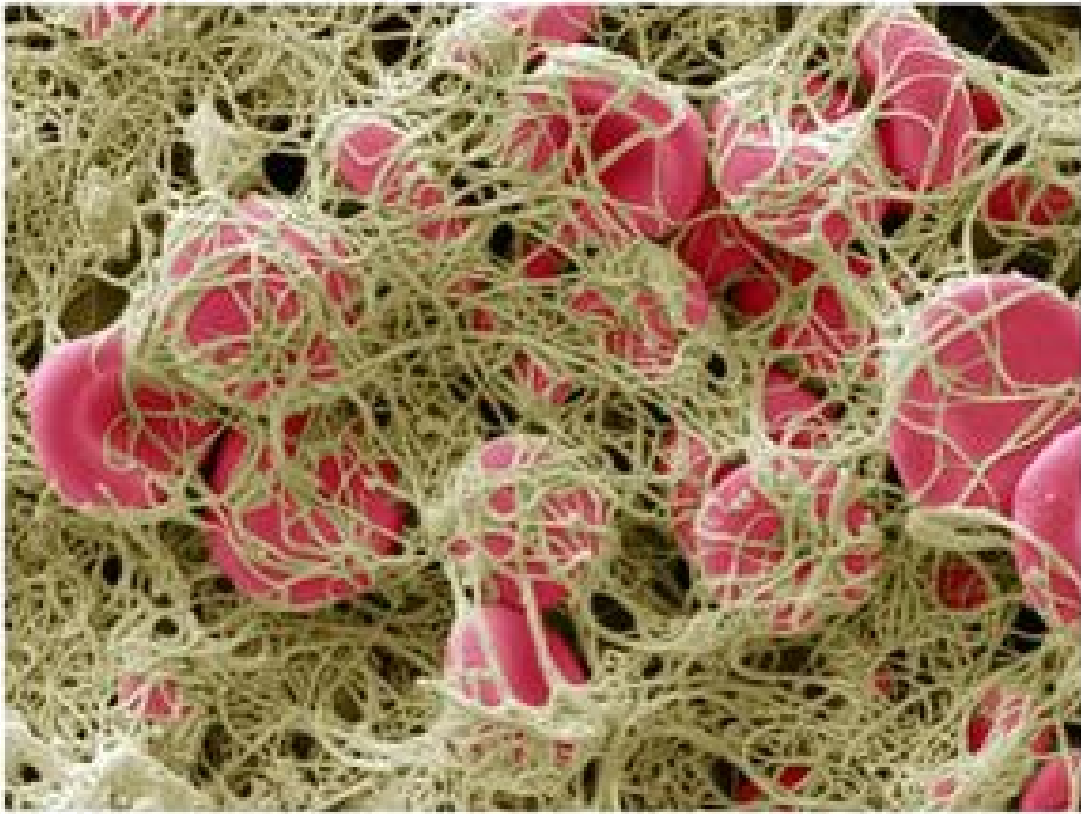
Rivers (1937)

1. Isolation of virus from diseased host
2. Cultivation of virus in host cells
3. Proof of filterability
4. Produce same disease in host
5. Re-isolation of virus
6. Detection of a specific immune response to virus

[Dismantling the Viral Theory - <https://www.drrobertyoung.com/post/dismantling-the-viral-theory.>]

That they're safe — despite the documented evidence is to the contrary... [54][73][83]

That they're effective — even though millions of “double-jabbed” people are getting sick, theoretically exposing themselves to a NON-EXISTENT VIRUS called CoV - 19, and dying...[55] NOT from some phantom viral infection but from the FEAR or false evidence appearing real and the toxic acid contents of reduced graphene oxide delivered via the genetically modified mRNA to specific targets of the human body leading to pathological blood coagulation, oxygen deprivation, hypercapnia, hypoxia and then death by suffocation.[56][57][58][83]



Phase Contrast Micrograph 2 - Erythrocytic Fibrin Net Indicating
Disseminated Intravascular Coagulation - DIC

[Disseminated Intravascular Coagulation (DIC) or Pathological Blood Coagulation.[57][58]]

That YOU MUST get at LEAST two shots PLUS “boosters” to live “normal lives”...

And soon, they’ll be telling YOU that YOU have no choice but to comply with ALL their MANDates even when the CDC and other Governments, Universities and Medical Institutes have admitted in writing that they have NO "GOLD STANDARD" isolation of the CoV - 2 now called CoV - 19 virus![55]

There is NO CORONA VIRUS and NEVER HAS BEEN![56]

Remember ...

DON'T LET ANYONE TAKE AWAY YOUR HEALTH FREEDOM!

It is YOUR Body, YOUR Life and YOUR Choice!

Knowledge is power. And it’s the key to understanding why the experimental CoV -19 vaccines are so dangerous — despite the corporate media’s official narrative that suppresses and censors anyone who dares to speak out.

You are in control of your own health. Don’t fall victim to global governments and bureaucrats that are pushing everyone to get vaccinated. Billionaire “philanthropist” Bill Gates and billionaire Big Tech activists think they know what’s best for you and your family.



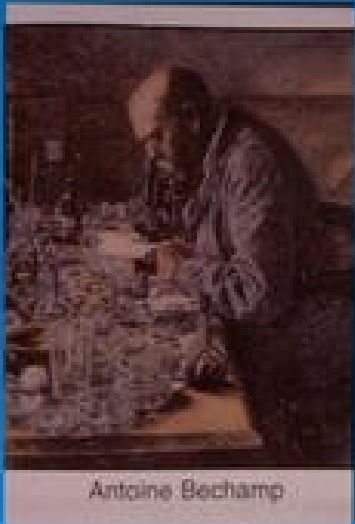
You must be free to decide what's right for you. Do NOT let governments and employers force you into getting "vaxxed" "for your own good".

And never let the cancel culture make you too afraid to stand up for your rights!

In the words of the great French doctor and scientist, Antione BeChamp, "there is nothing so false that does NOT contain an element of truth and so it is with the germ theory." In this case the viral, vaccine and immunity theory![59]

The Law of Change Doctrine of Pleomorphism

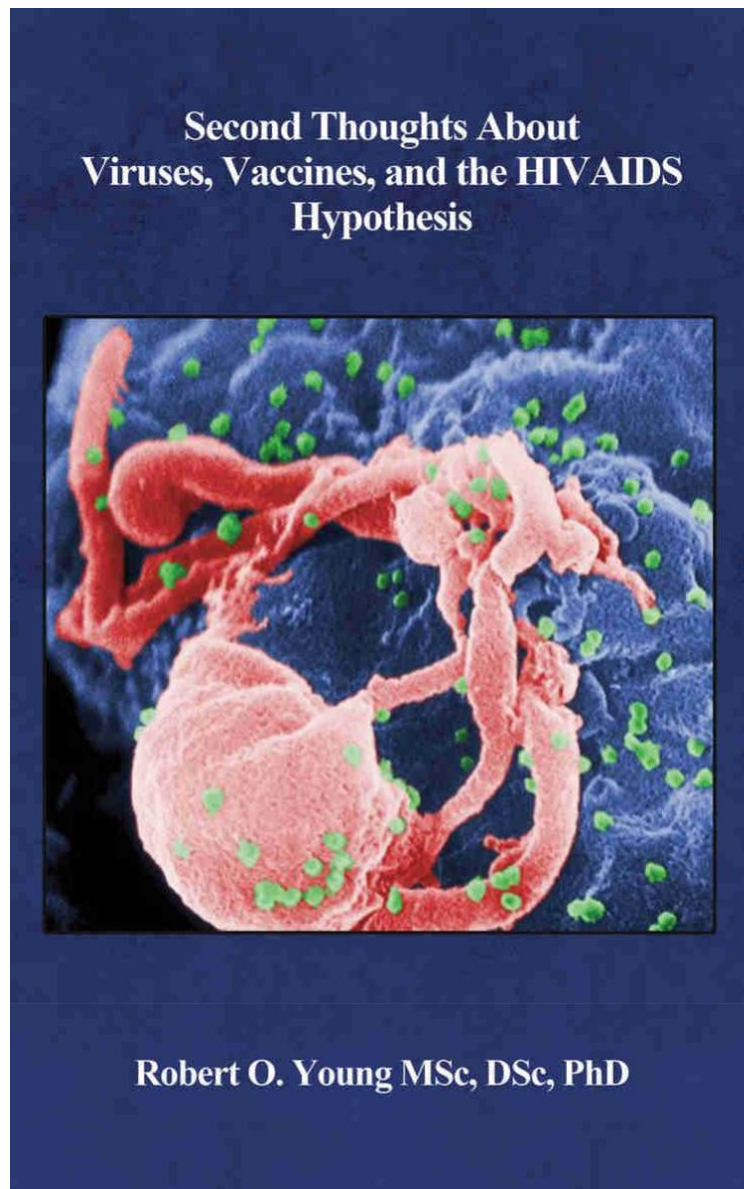
- > Antoine BeChamp (1815-1908)
- > Microzyma Theory
- > Germs are born in us
- > Father of Pleomorphism
- > Many Forms - Many Functions
- > Germs are transmutations of organized healthy cells
- > Germs do not cause disease
- > Disease comes from within
- > Germs are nothing the Terrain is everything
- > Discovered Fermentation
- > Contextual Scientist



Antoine BeChamp

To learn more about viruses, vaccines and the viral theory please read and study, A Second Thought About Viruses, Vaccines and the HIV AIDS Hypothesis. You can order this book at:

<https://www.phmiracleproducts.com/collections/books-audio-video/products/second-thoughts-about-viruses-vaccines-and-the-hiv-aids-hypothesis-booklet>



Read and Learn More About Viruses, Vaccines and the Viral Theory in the Following Scientific Articles![60][61][62]



Robert O Young MSc, DSc, PhD, Naturopathic Practitioner

1. Scanning & Transmission Electron Microscopy Results Revealing Graphene Oxide in CoV-19 Vaccines - An Interview with Dr. Robert O. Young.

An absolute bombshell and major reveals on what is in the vaccines, with use of electron and other kinds of microscopy from original research by Dr. Robert Young and his team, confirming what the La Quinta Columna researchers found---toxic nanometallic content with cytotoxic and genotoxic effects as well as an identified parasite. This is major revelation: please stay tuned for a major article reporting this at ECC, meanwhile please share this video widely!

<https://www.bitchute.com/video/Z2sAH0Woz38r/>



<https://rumble.com/vlonug-electron-microscopy-reveals-graphene-oxide-in-cov-19-vaccines.html>



https://odysee.com/@DrRobertYoung:7/MicroscopyEvidenceofGOinVaccineszoom_0:c?r=DwWt6qy5ACY9nSS1q6nAqSpAYbuZDjWf

2. The Epidemic Curves of the Most Vaccinated Countries

<https://www.drrobertyoung.com/post/world-health-organization-who-publishes-epidemic-curves-of-the-most-vaccinated-countries>

3. Sweden Is Following the Biological Science NOT the Political Science

<https://www.drrobertyoung.com/post/sweden-is-following-the-biological-science-not-the-political-science>

4. What is Happening in India <https://www.drrobertyoung.com/post/what-happened-in-india>

5. Surviving the Plague of Corruption

<https://www.drrobertyoung.com/post/surviving-the-plague-of-corruption>

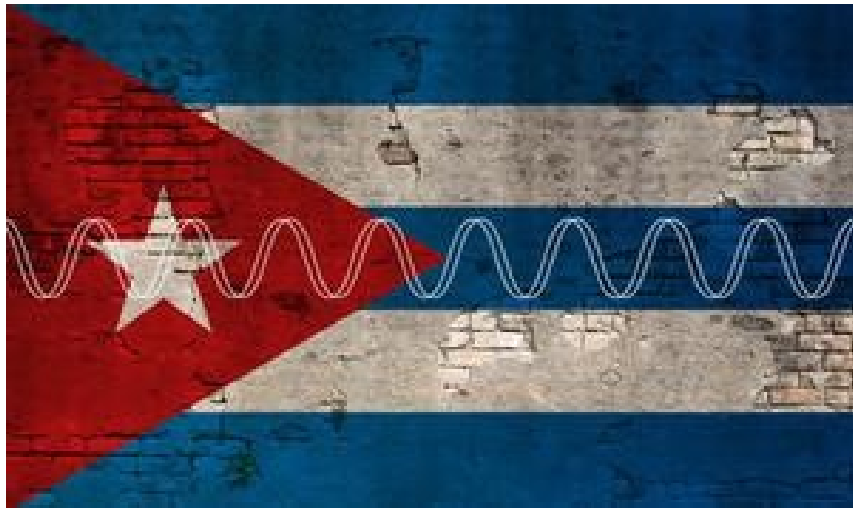
6. Dismantling the Viral Theory

<https://www.drrobertyoung.com/post/dismantling-the-viral-theory>

7. Corona on Trial <https://www.drrobertyoung.com/post/corona-on-trial-explosive-and-exclusive>

8. The Havana Cuba Syndrome Caused by Directed Pulsating EMF

Microwaves <https://www.drrobertyoung.com/post/the-havana-syndrome-pulsating-microwaves>



9. CDC NOW Admits NO 'Gold Standard' for the Isolation for ANY Virus! - <https://www.drrobertyoung.com/post/cdc-now-admits-no-gold-standard-for-the-isolation-for-any-virus?postId=60c4dbc74f7fc9002ba2507e>



10. Freedom of Information Responses on CoV - 2 Now Called CoV - 19 - <https://www.drrobertyoung.com/post/freedom-of-information-responses-on-cov-2>

11. Why Viruses Do Not Exist! - <https://www.drrobertyoung.com/post/why-viruses-do-not-exist>



12. Report 255 | Dr. Robert Young: All Disease is Outfection Not Infection-- Vaccine Nano is Bioweapon! <https://www.bitchute.com/video/rdQhuY455VmK>

13. Report 255 | Dr. Robert Young: All Disease is Outfection, not Infection | The Vaccine's Lipid Nanoparticles with Graphene Plus Radiation is the Bioweapon--No COVID Virus Exists!
<https://www.brighteon.com/250210af-c8a3-47a1-8922-c960342fe2fb>

14. Report 255 | Dr. Robert Young: All Disease is Outfection Not Infection-- Vaccine Nano is Bioweapon!
<https://odysee.com/@RamolaDReports:8/Report-255---Dr.-Robert-Young-Explains-Disease-by-Outfection,-Lipid-Nanoparticles-with-Graphene-the:4>

15. Forget Everything Else! Look at THE VAER's NUMBERS on Injuries and Deaths! <https://www.drrobertyoung.com/post/forget-everything-else-you-ve-heard-just-look-at-the-numbers>



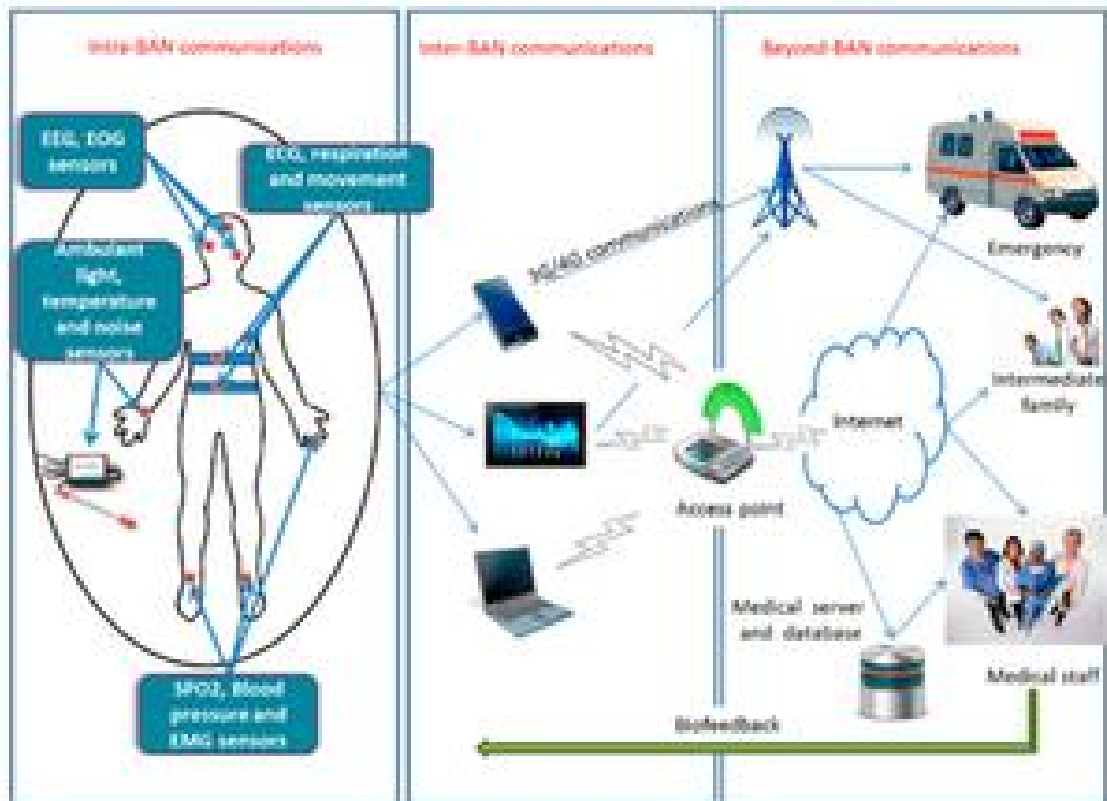
16. Dr. Robert O. Young ITNJ Testimony

<https://youtu.be/gKjnEz5s37o>

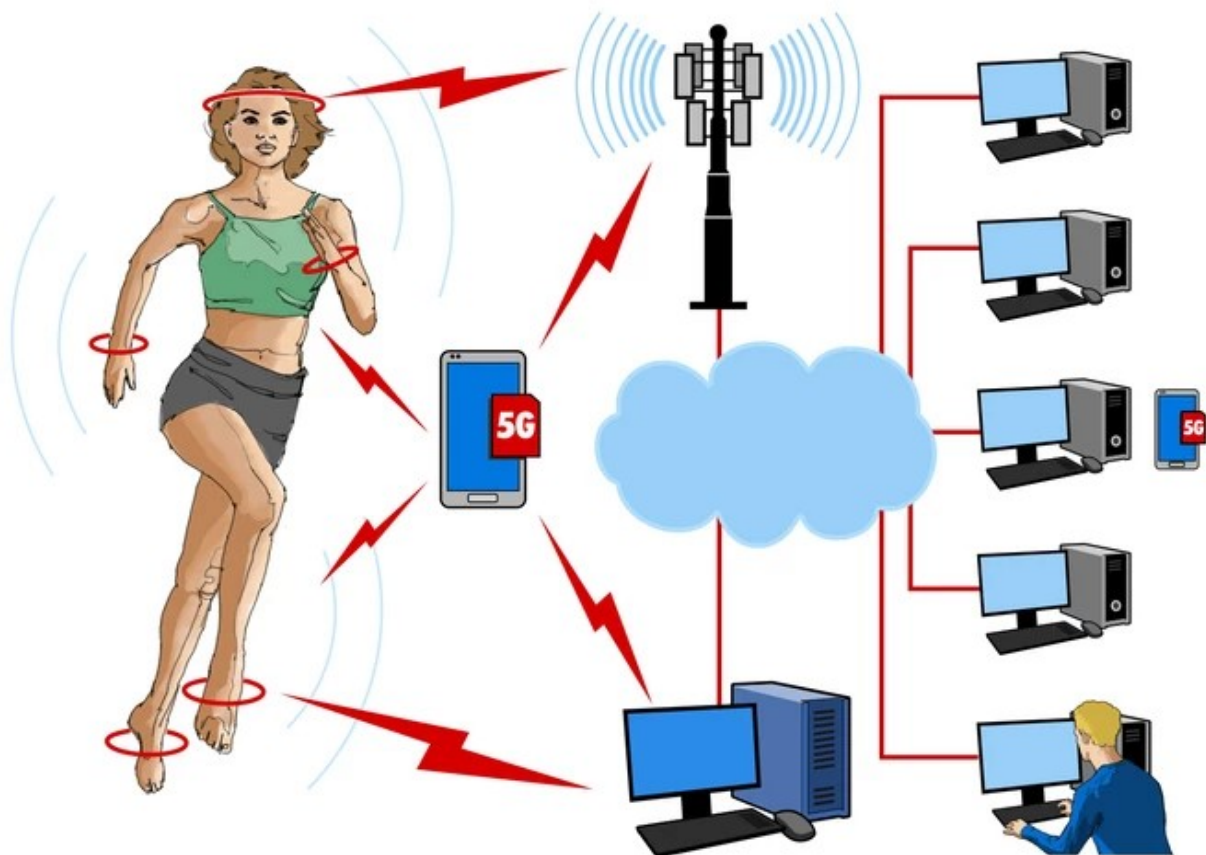


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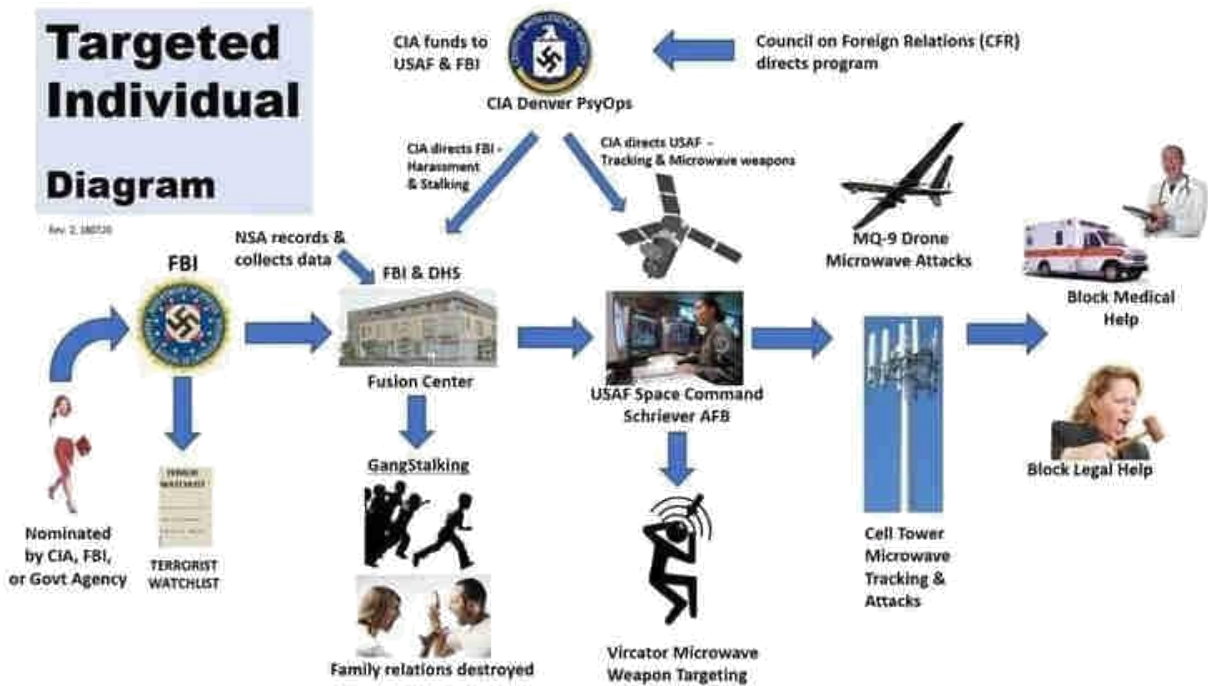
17. The Pfizer patent application approved, August 31st, 2021 is the very first patent that shows up in a list of over 18500 for the purpose of remote contact tracing of all vaccinated humans worldwide who will be or are now connected to the "internet of things" by a quantum link of pulsating microwave frequencies of 2.4 GHz or higher from cell towers and satellites directly to the graphene oxide held in the fatty tissues of all persons inoculated.[63][64][65][66] [67][82]



Once Impregnated With Stainless Steel, Graphene Oxide and Iron Oxide from the CoV - 19 Vaccine YOU are NOW Ready to Connected to the Internet of Things!



19. Wireless Connections from Cell Towers or Satellites to YOU![73][74][82]



20. Read the article on the link below: COVID-19 Vaccine Ingredients and Their Connection to Graphene Oxide, Parasites and EMF at: nobulart.com/covid-19-vaccine-ingredients/ Published: August 31st, 2021.

21. YOUR Body YOUR Life YOUR Choice:
<https://rumble.com/vn4n6i-your-body-your-life-your-choice.html>



22. Updated PDF file of this article:

[GrapheneOxideVaccinePaperUpdated12.pdf](#)
[Download PDF - 6.77MB](#)

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<https://patents.google.com/patent/CN112220919A/en>

Abstract

The invention belongs to the field of nano materials and biomedicine, and relates to a vaccine, in particular to development of 2019-nCoV coronavirus nuclear recombinant nano vaccine. The invention also comprises a preparation method of the vaccine and application of the vaccine in animal experiments. The new corona vaccine contains graphene oxide, carnosine, CpG and new corona virus RBD; binding carnosine, CpG and neocoronavirus RBD on the backbone of graphene oxide; the CpG coding sequence is shown as SEQ ID NO 1; the novel coronavirus RBD refers to a novel coronavirus protein receptor binding region which can generate a high-titer specific antibody aiming at the RBD in a mouse body, and provides a strong support for prevention and treatment of the novel coronavirus.

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WO US [US10786570B2](https://patents.google.com/patent/US10786570B2) Jeffrey Friedman The Rockefeller University
Priority 2011-08-24 • Filed 2018-07-30 • Granted 2020-09-29 • Published 2020-09-29

The present invention provides methods and compositions for the remote control of cell function based on the use of radiofrequency waves to excite nanoparticles targeted to specific cell types. The nanoparticles may be applied to the target cell extracellularly and/or expressed intracellularly.

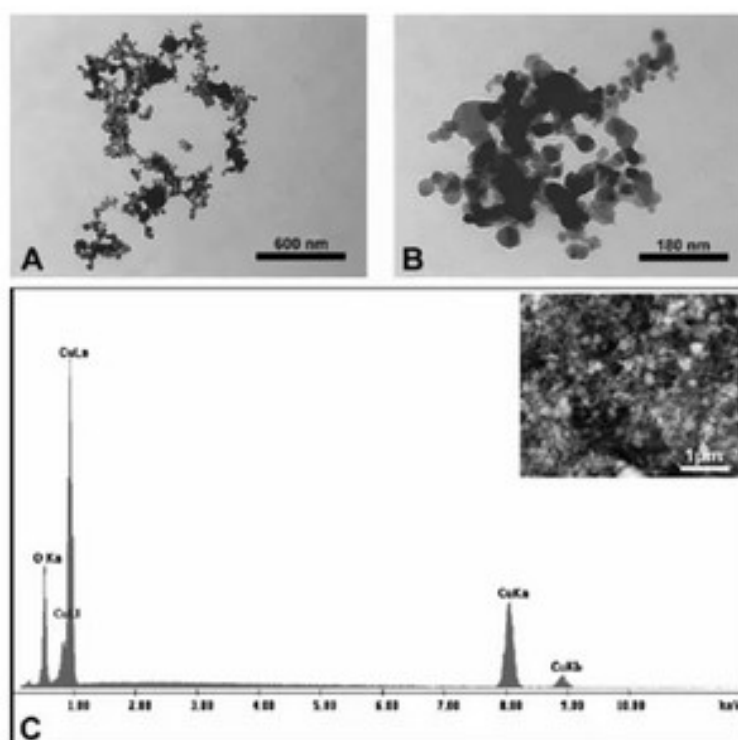
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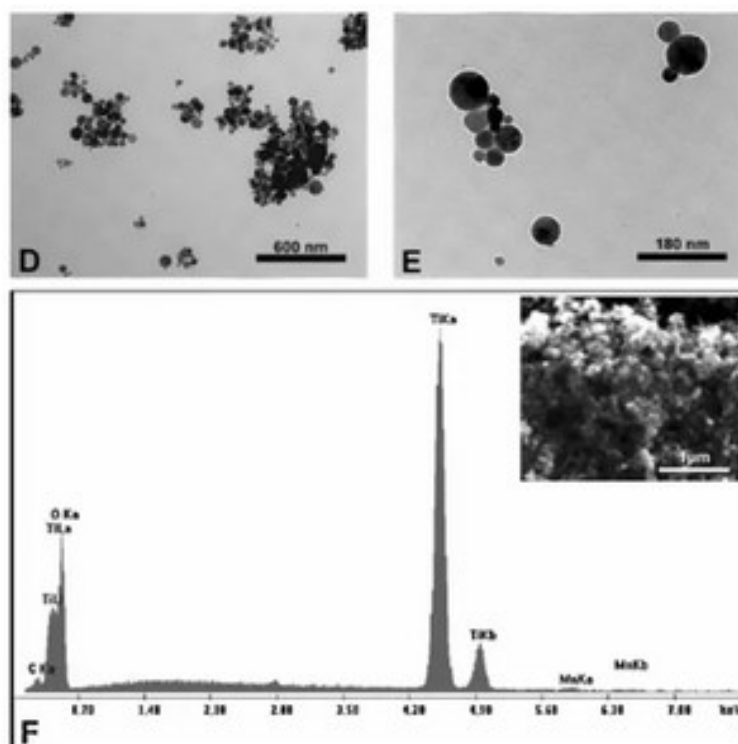
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[Figure 34] shows nanoparticulate characterization with TEM and SEM-EDX microscopy. (A and B) TEM micrographs reveal Copper Oxide nanoparticualte size. (C) A EDX spectrum of Copper Oxide powder. (D and E) The TEM micrographs showed Titanium Oxide and Titanium Dioxide. (F) EDX revealed a spectrum of Titanium Dioxide.[75][76]]

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COVID-19 VACCINE IDENTIFIED INGREDIENTS				
IDENTIFIED INGREDIENTS	PFIZER	ASTRAZENECA	JANSEN	MODERNA
Aluminum salt	Yes			Yes
Beta-2-Microglobulin	Yes			
Calcium chloride				Yes
Cholesterol				Yes
Citric acid	Yes			Yes
DiSodium EDTA	Yes			
Ethanol or 2-phenoxyethanol	Yes	Yes	Yes	Yes
Hydroxyethyl starch	Yes	Yes	Yes	
Hydroxyethylcellulose	Yes	Yes		Yes
Hydroxypropyl-beta-cyclodextrin	Yes	Yes	Yes	Yes
Insulin	Yes	Yes	Yes	Yes
Isosorbide dinitrate				Yes
Isosorbide mononitrate			Yes	
Isosorbide		Yes	Yes	
Isosorbide dinitrate	Yes			Yes
Isosorbide mononitrate	Yes			Yes
Isosorbide	Yes			Yes
Isosorbide dinitrate				Yes
Isosorbide mononitrate				Yes
Isosorbide	Yes	Yes	Yes	Yes
Isosorbide dinitrate	Yes	Yes	Yes	Yes
Isosorbide mononitrate	Yes	Yes		
Isosorbide		Yes		
Isosorbide dinitrate	Yes			Yes
Isosorbide mononitrate	Yes	Isosorbide		
Isosorbide	Yes			

Source: <http://www.fishbase.org/summary/summary.cfm?id=10000>

COVID-19 VACCINE DECLARED INGREDIENTS

DECLARED INGREDIENTS	CHEMICAL COMPOSITION	PFIZER	MODERNA
Active Ingredients			
Genetically modified mRNA	$C_{12}H_{19}N_5O_{12}P_2$ (mRNA)	Yes	
mRNA-1273 mRNA	$C_{12}H_{19}N_5O_{12}P_2$ (mRNA)		Yes
Lipids			
Cholesterol	$C_{27}H_{46}O$	Yes	Yes
1,3-bis(sn-3'-phosphatidyl)-2-(sn-3'-phosphatidyl)glycerol	$C_{64}H_{102}NO_8$	Yes	Yes
1,3-bis(sn-3'-phosphatidyl)-2-(sn-3'-phosphatidyl)glycerol	$C_{64}H_{102}NO_8$	Yes	
1,3-bis(sn-3'-phosphatidyl)-2-(sn-3'-phosphatidyl)glycerol	$H_2O-CH_2-CH_2-OH$	Yes	
Lipid ACP	$C_{44}H_{82}NO_6$		Yes
1,3-bis(sn-3'-phosphatidyl)-2-(sn-3'-phosphatidyl)glycerol	$(C_{12}H_{19}N_5O_{12}P_2)_2$		Yes
Buffer			
potassium chloride	KCl	Yes	
monobasic potassium phosphate	KH_2PO_4	Yes	
sodium chloride	NaCl	Yes	
basic sodium phosphate dihydrate	$Na_2HPO_4 \cdot 2H_2O$	Yes	
monobasic potassium phosphate	$C_{12}H_{19}N_5O_{12}P_2$		Yes
monobasic potassium phosphate	$C_{12}H_{19}N_5O_{12}P_2$		Yes
acetic acid	$C_2H_4O_2$		Yes
sodium acetate	$C_2H_3NaO_2$		Yes
water	H_2O	Yes	Yes
Other			
sucrose	$C_{12}H_{22}O_{11}$	Yes	Yes

COVID-19 Vaccine - (continued from previous slide) (Note: The list of ingredients is subject to change without notice.)

[84] Elisa Moschini, Maurizio Gualtieri, Miriam Colombo, Umberto Fascio, Marina Camatini, Paride Mantecchia, "The modality of cell-particle interactions drives the toxicity of nanosized CuO and TiO₂ in human alveolar epithelial cells."

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[85] Young RO (2016) Pathological Blood Coagulation and the Mycotoxic Oxidative Stress Test (MOST). Int J Vaccines Vaccin 2(6): 00048. DOI:

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