Leonard G. Horowitz
DrLenHorowitz.com
Editor@MedicalVeritas.org
Editor-in-Chief, Medical Veritas International, Inc.
5348 Vegas Drive, Suite 353
Las Vegas, NV 89108
Telephone: 310-877-3002

Honorable U.S. Senator, Asley Moody
201 S. Orange Ave., Suite 350
Orlando, FL 32801-3499
407-254-2573

July 31, 2026

Honorable U.S. Senator, Rick Scott
225 East Robinson Street, Suite 410
Orlando, FL 32801
407-872-7161

RE: NEW EVIDENCE FOR PENDING INVESTIGATIONS INTO DR. ANTHONY FAUCI'S ENTERPRISE IN BIOTERRORISTIC THREATENING, RACKETEERING, AND A WELL EVIDENCED PATTERN OF COMPLICITY IN THE MANUFACTURE OF BIOLOGICAL WEAPONS OF MASS DESTRUCTION FOR POLITICAL INFLUENCE AND UNJUST ENRICHMENT

Dear Honorable Florida Senators Moody and Scott:

Thank you for your representations on behalf of *We The People* on July 29th before the Homeland Security and Governmental Affairs Committee's interrogation of Dr. Anthony Fauci.

This correspondence supplements your inquiries and provides new evidence/discovery for pending investigations, overcoming statutes of limitations, for enabling civil and criminal actions.

A. STANDARDS IN REVIEW

Pursuant to Dr. Fauci's influence over the Trump administration, legislators nationwide, and the public during the COVID pandemic, 18 U.S.C. § 2332b(g)(5) ("Federal crime of terrorism") precludes acts calculated to influence or affect the conduct of government by intimidation or coercion. This law condemns terroristic threatening with weapons-of-mass-destruction including biological agents. In addition, RICO statute 18 U.S.C. § 1962 criminalizes obstruction of justice (section 1503); obstruction of criminal investigations (section 1510; interference with commerce (section 1951); use of biological weapons (sections 175-178); or use of chemical weapons (sections 229-229F) for commercial gain or political influence. Federal RICO prosecutors must establish both the existence of an enterprise and its pattern of organized criminal activities to prevail. Herein I provide such clear and convincing evidence satisfying these elements in Dr. Fauci's enterprise for pending civil and criminal proceedings.

B. FACTUAL BACKGROUND

For the past 30 years I have been working diligently to protect populations from what we now know to be true about Dr. Fauci's secreted "gain-of-function" lab virus "dual use" financial enterprise. Now that you have witnessed his aversion to honest disclosures regarding COVID's lab origin, it is unreasonable to presume he has not similarly concealed the lab origins of HIV/AIDS, Ebola, and other infectious disease vectors, including H1N1, Hepatitis viruses, and Anthrax mailed to members of Congress during Fauci's tenure.

Consequently, as background for your consideration of Fauci's decades old pattern of conduct within the alleged infectious disease (racketeering) enterprise, I am attaching hereto copies of U.S. Government records: two NIH Contracts, and a Congressional Record[1] excerpted from 1970—contracts and testimony from which numerous immune system destroying viruses, including AIDS-like and Ebola-like viruses were bioengineered in labs before those viruses emerged in humans.

During the 1960s through the late 1970s the Congress appropriated military funds for the NIH and National Cancer Institute (NCI), including grants numbered "NIH-71-2025" and "NIH-71-2059." These two contracts were initially secreted/classified; never officially declassified; and subsequent to my discovery and publication of these records in 1996, there has never been legacy-media disclosures, only near complete mass media censorship of these revealing and incriminating records. As such, for your purposes, these records provide new discoveries evidencing the generally neglected overlap between lucrative federal lab virus contracts, related vaccine developments, and the outbreaks of AIDS and Ebola and more.

C. DR. FAUCI, DR. GALLO and HIV/AIDS COVID TIES

Dr. Fauci operated as the Director of NIAID from November 2, 1984, to December 31, 2022. During that time, he was the federal government's most visible and influential scientist on emerging infectious diseases. He was involved in AIDS research from the first reported cases in 1981. He and Dr. Robert Gallo are recognized as foundational figures in the U.S. response to HIV/AIDS. Gallo described Fauci's NIAID, along with other supporters such as the Bill & Melinda Gates Foundation, as critical partners in vaccine developments for HIV/AIDS and more.

Gallo left the NIH in the mid-1990s and established the Institute of Human Virology (University of Maryland). In 2016, contemporaneous with Fauci's NIAID funding of COVID' "gain of function," Gallo's team received $14.4 million for HIV vaccine work.

Foreshadowing Fauci's *pattern* of administering damaging COVID policies, lab financing, fraudulent concealments, and silence during the July 29th hearing, according to Michael Astrue, past General Counsel of the U.S. Department of Health and Human Services (HHS), Fauci acted with Gallo to conceal evidence and intelligence regarding the true "isolation" and "source" of the AIDS virus that Gallo falsely claimed he had "discovered". According to Astrue, Fauci "wove a carefully crafted tale about how important the Gallo discovery was for the reputation of NIH, and that it was essential for HHS to rally around Gallo and to stonewall oversight by Representative John Dingell's . . . oversight committee."

The same year (2016) that Fauci awarded Gallo $14.4 million for HIV vaccine work Fauci's NIAID awarded Dr. Peter Daszig's EcoHealth Alliance $611,000.00 (under grant No. R01AI110964) for coronavirus research, paralleling General Counsel Astrue's description of Fauci and Gallo's

misrepresentations regarding HIV's "isolation" and "source." Fauci did the same to obscure COVID's true source.

D. RACKETEERING & RETALIATORY INFLUENCE ON GOVERNMENT

In 2002, the U.S. General Accounting Office (GAO), now the Government Accountability Office, issued report GAO-02-809R, titled "Origin of the AIDS Virus" that Ohio Rep. James A. Traficant, Jr. (D-OH) prompted based on my publications and related complaints. I was solicited by the GAO to provide expert testimony on the matter of HIV/AIDS's lab origin. Subsequently, testimony was *completely censored* in the final report. Synchronously, I endured harsh media criticism and professional blacklisting, Rep. Traficant faced severe legal and political consequences resulting in his criminal prosecution, and conviction and incarceration.

1. The Related Anthrax Mailings Case

Shortly after the 9/11 terrorist attacks, between October 4 and November 20, 2001, news organizations (including American Media, Inc. in Boca Raton, Florida) and U.S. Senators Tom Daschle and Patrick Leahy received letters containing the most weaponized anthrax spores ever seen. Both senators at that time advanced pending legislation to reduce drug industry profits. I was made a suspect, or person of interest in the FBI's investigation by reason of my having hounded FBI Director Robert Mueller to direct investigators properly to the source of the crimes—the CIA and/or military operatives at the Battelle Memorial Institute in West Jefferson, OH. Its "Life Science" facility was the only possible place in America that could follow Dr. Ken Alibek's instructions on how to produce a hyper-weaponized, super-concentrated, electro-magnetized, aerosolized never before seen "dual use" gain-of-function anthrax for military, intelligence, and commercial interests. (See my Anthrax Chart below.)

At that time, Sen. Leahy's legislation forced Bayer to accept substantially lower prices for government stockpile purchases. Nevertheless, during the scare, retail and wholesale demand for Bayer's CIPRO spiked dramatically. This antibiotic was Bayer's top-selling drug, with annual sales before the fright in the $1.4-1.6 billion range. Bayer trippled production in response to the fright, from approximately 60 million tablets per three months towards 200 million tablets.

The following month, in December 2001, similar to Fauci's endorsement of the "novel" (experimental) mRNA vaccines for COVID-19, Fauci announced that a new anthrax vaccine would be offered on a voluntary basis—under an investigational protocol. He recommended this as a possible supplement for people who had completed or were finishing CIPRO prescriptions. The doses came from existing stocks controlled by the Department of Defense and supplied by vaccine maker BioPort, LLC.

2. BioPort Anthrax and Smallpox Emergency Vaccines

Foreshadowing "Operation Warp Speed," in March 16, 1999, Robert C. Myers, DVM, Chief Operating Officer of BioPort--America's only anthrax vaccine maker-appealed to a Senate Appropriations Committee for urgent funding for both anthrax and smallpox vaccines. In 1996, in his own words, he "was part of a team of organizations, led by Battelle Memorial Institute [i.e., the presumed birthplace of the hyper-weaponized anthrax]. The gathering assembled to compete for the Department of Defense's Joint Vaccine Acquisition Program (JVAP). Despite there being dozens of potential bioterrorist threats, Dr. Myers stated these two threats were the greatest since anthrax is easy to handle and "because smallpox is highly contagious and probably most of the world is now susceptible. . . ."

Further evidencing racketeering in bioterrorism and "inside trading" administered with Fauci's willful blindness and consent, the preceding year (September 1998), Bioport took over a failing anthrax vaccine business from state-owned Michigan Biologic Products Institute. Less than a month later, the company obtained an exclusive $29 million contract with the Department of Defense to "manufacture, test, bottle and store the anthrax vaccine." The contract was acquired by insider, Admiral William J. Crowe, Jr., a former Chairman of the Joint Chiefs of Staff and close personal aid to President Clinton. Crowe, whose records showed no financial investment of his own, received 22.5% of Bioport's stock to promote, secure, and manage the military/medical anthrax vaccine contracts.

3. Saudi Rockefeller Connections

Bioport's principal investor was Saudi business man Fuad El-Hibri-a close friend of the bin Laden family, and a previous merger and acquisitions manager for the Rockefeller-linked Citigroup in New York. According to reputable investigators, additional Bioport shares were believed to be held by The Carlyle Management Group—a leading American defense contractor largely directed by past CIA director Frank Carlucci, James Baker III, George H.W. Bush, and former British Prime Minister John Major. According to the Associated Press, Past President George H.W. Bush acted as a business agent for the Carlyle Group and wealthy Saudi families including the bin Ladens.

Journalist Ian Gurney provided additional evidence linking Osama bin Laden's al-Qaeda network to Bioport in a report issued over the Internet on December 19, 2001. According to the original story published on December 1, by the Pakistan News Service, documents originating from the US Defense Department that referred to Bioport, Inc. were found in the possession of the al-Qaeda in Kabul, Afghanistan. The documents contained highlighted items and stars scribbled across the top of one page. According to Bioport spokeswoman Kim Brennen Root, "The document was a report on the environmental impact of renovations to our Lansing, Michigan plant, not a 'how-to' manual on making the vaccine." The Bioport official surmised, "The discovery supports the notion that the al-Qaeda and the Taliban have been studying biological warfare and protecting against weapons of mass destruction," despite the greater likelihood that Osama bin Laden, in light of the above revelations, including his family's investments in the Carlyle Group with ties to Bioport's principal, Fuad El Hibri, desired to keep tabs on their alleged Bioport investments.

I developed the numbered chart below, and related published articles, to bring awareness to this alleged biocrime syndicate. It threatens National Security. The cartel wields the capacity to scrub incriminating evidence off the Internet and even government websites, as was done with the Pakistan News Report. [1]

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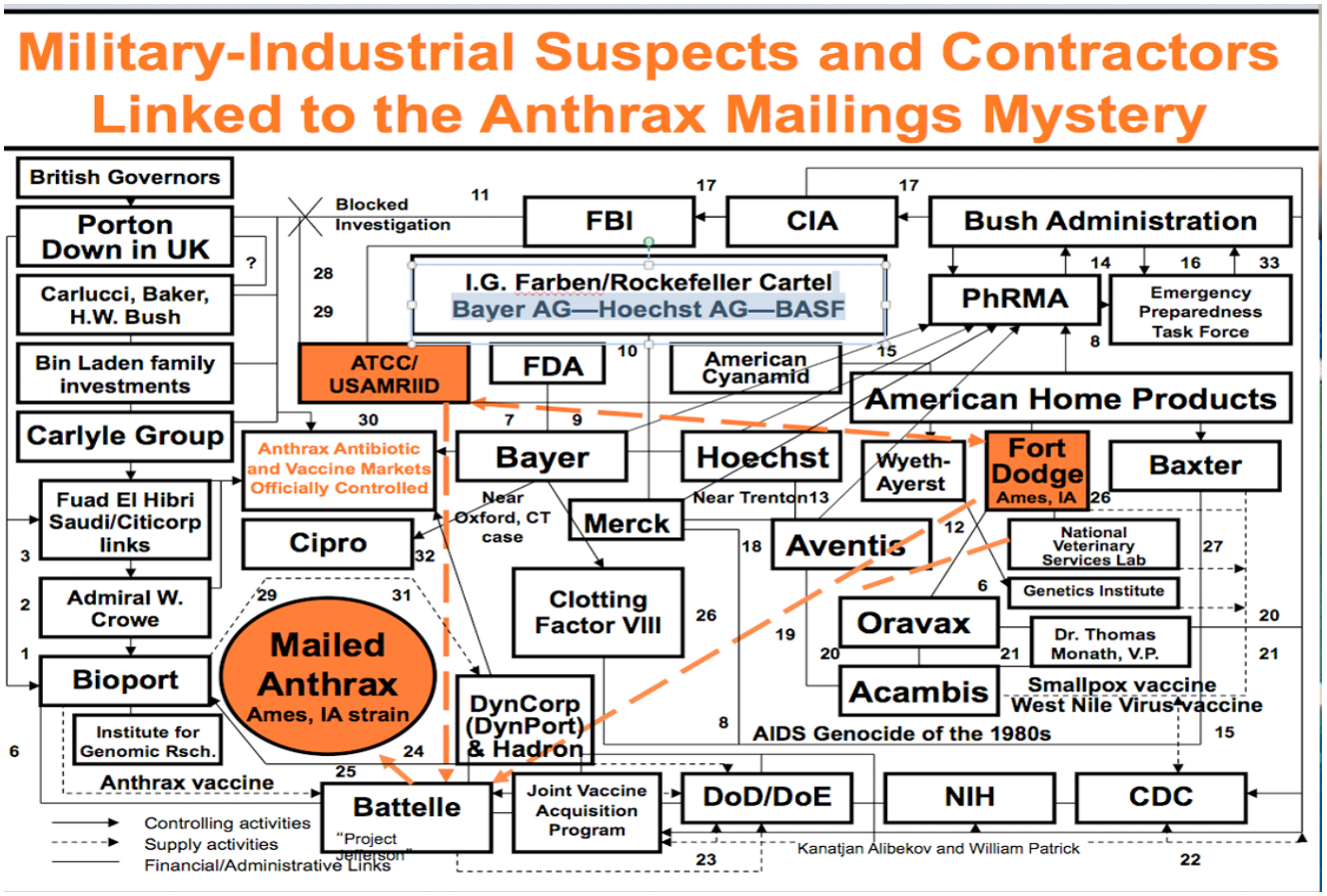
[1] Bioport was originally purchased by majority shareholder Intervac, a Maryland based biotech firm owned by Admiral William J. Crowe Jr., but paid for by Fuad El Hibri, the general manager of Intervac. Mr. El Hibri directed the buyout as he had previously done with Porton Products Ltd., a Cambridge, England company apparently linked to Porton Down, England's top biological weapons development and testing facility. (See: U.S. Government Reform Subcommittee on National Security, Veterans Affairs, and International Relations. June 30, 1999, available from http://www.freerepublic.com/forum/a3b12516e4594.htm;

In August 2001, the BBC reported that 20,000 "so called human guinea pigs went to Porton Down between 1939 and the 1960s" for various illegal chemical and biological weapons tests. Thousands were harmed or killed as a result. See: http://news.bbc.co.uk/low/english/uk/newsid_1506000/1506968

For Robert Myers, Battelle Memorial Institute and the DoD's Joint Vaccine Acquisition Program data see: Myers RC. Chief Operating Officer and Director, BioPort Corporation, The joint meeting of the Senate Veterans Affairs Committee and the Subcommittee on Labor, Health and Human Services, Education and Related Agencies of the Senate Appropriations Committee, March 16, 1999. Available from:



4. The Global Biotechnology & Pharmaceutical Enterprise

Further measuring the reach of this "Deep State" globalist biotechnology enterprise, research by Pamela Asa, Y. Cao, and Robert F. Garry—the same Tulane microbiologist/immunologist demonstrating duplicity in the conspiracy to deny COVID's lab origin by Farrar/Fauci/Wellcome/NIH/NIAID officials—that team reported detecting antibodies to squalene (i.e., an alleged "adjuvant") in many veterans suffering with Gulf War Syndrome. This finding suggested a likely vaccine-related autoimmune mechanism similar to the chronic fatigue, immune dysfunction, and Guillain-Barre syndrome associated with many vaccines.

Synchronously, smallpox vaccines were being similarly stockpiled for National Security. Dr. Fauci told the Senate's regulators that "the animal model data are very impressive. . ," according to the November 23, 2001 *New York Times* article that reported Aventis Pharma of Frankfurt, Germany had developed a promising pharmaceutical formula for smallpox." The enterprise's German operations are further detailed below and in the five-page attached excerpt from my 2001 book, *Death In The Air: Globalism, Terrorism & Toxic Warfare*, published prophetically three months before 9/11. My delivery of this book by hand to the FBI in mid-June presumably prompted the FBI to make me a "suspect," or "person of interest," in the anthrax mailing scheme.

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http://www.senate.gov/~appropriations/old/labor/myrs3_16.htm

5. The Neglected CIA MKULTRA and MKNAOMI Special Virus Cancer Program: Bioweapons Development, Concealment, and Propaganda Cover

Further evidencing earlier racketeering activities committed by this same global biotechnology, virology, and vaccinology enterprise, the CIA (known to monitor and arguably oversee all threats to National Security (foreign and domestic with the FBI) administered a pattern and practice of issuing false intelligence, media propaganda, evidence destruction, and whistleblower censorship whenever protective and profitable to the secret government.

This was recorded by the CIA and Congress during the Rockefeller and "Frank Church Commission" hearings in the mid-1970s wherein the CIA's MKULTRA "mind control," hallucinogenic drugs, and biological and chemical weapons program was vetted. Subordinate to MKULTRA mind control programs was the depopulation (allegedly cancer prevention) program called "MKNAOMI." This involved manufacturing viruses and bacteria, genetic mutants, and related vaccines. Like COVID, that earlier black-op intertwined with the "Special Virus Cancer Program" (1962 thru 1978) that likewise required bio-terror campaigns and deceptive media coverage for public persuasion and coercion (i.e., social engineering and "population management"), threatening disease outbreaks or biological warfare risks to public health, safety, and National Security. And similar to Fauci concealing "gain-of-function" bat virus studies between 2014 and 2022 (along with related vaccine trials), during the 1950s through the 1970s, the CIA administered covert biological weapons tests on unsuspecting citizens worldwide using agents of mass destruction cultured and genetically altered in labs at taxpayer expense.

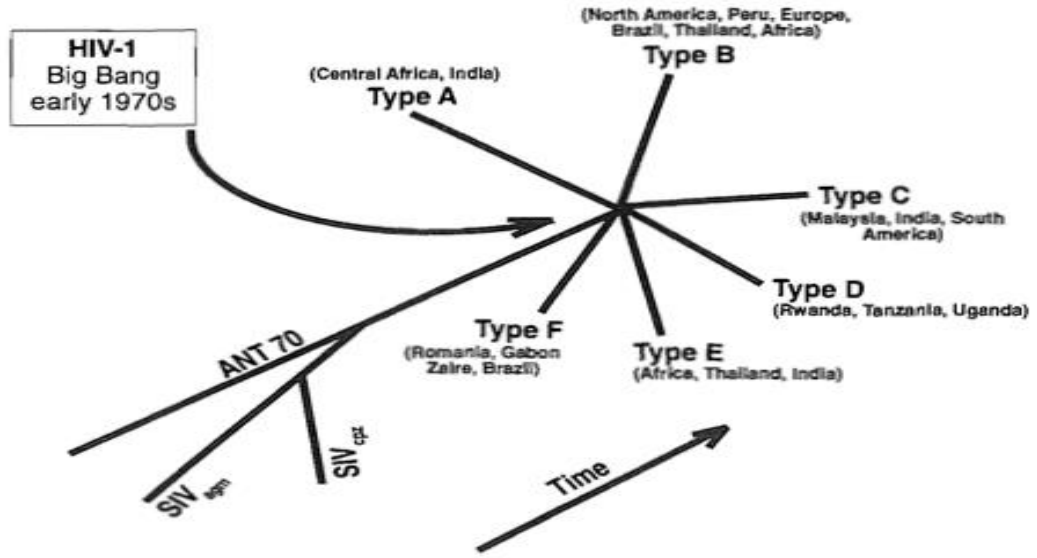
Throughout these years, Fauci et. al. have consistently diverted attention from their global racketeering enterprise. That was Fauci's fundamental "frontman" assignment. Careful examination reveals the fact that in favor of secret military/commercial (i.e., "dual use") interests:

1) the NIAID and U.S. military co-financed development of viruses, diseases and lucrative drug deals. The COVID-19 virus followed this pattern and practice. It was covertly developed and then conveniently released just in time to commercialize the "novel" mRNA vaccines. Resistance and hesitance threatened the oligarchy administering disease and deaths. Citizens who failed to get vaccinated and follow the enterprise's orders were persecuted and prosecuted. Similarly,

2) the NIAID and Army helped Germany's Merck pharmaceutical company develop the 1974 hepatitis B vaccine that followed this same pattern. The virus was developed and deployed. It was a lab mutation of the pathogen originally called the "Australian Antigen" ("AuAg"). Its vaccine is well evidenced to have triggered AIDS's "Big Bang" in 1976. Gerald Myers's Los Alamos Lab conclusions certify this fact. (See the Myers chart below.) This clear and convincing evidence was published in peer-reviewed science journals to no avail. That tainted Hep. B vaccine was given to gay men in NYC, Blacks in Central Africa, Haitian nurses and sex workers, and Willowbrook State School for the "mentally retarded" in 1972-1974. And much like COVID's dual use (public/private) mRNA vaccine commerce, the Hep. B vaccine was administered by the CDC, Army, NY Univ. Medical Center, and the Rockefeller-controlled New York City Blood Counsel. Note: Willowbrook was suspiciously closed in 1976, except for its biological research lab that continued monitoring the vaccinated subjects. Their immune-damage, and morbidity and mortality.[2]

[2] Note: Willowbrook was suspiciously closed in 1976, except for its biological research lab that continued monitoring the vaccinated subjects. Their immune-damage, and morbidity and mortality.

Fig. 8.4. The Evolution of AIDS-like Viruses Based on Gene Typing and Molecular Epidemiology Theory as Presented By Dr. Gerald Myers



Chief of the special HIV Sequence Database AIDS Project at the Los Alamos National Laboratory, Myers stated "the preponderance of evidence still argues for an explosive event in the mid-1970s." Regarding the origin of AIDS, he insisted, HIV-1 evolved fairly recently from SIV_{agm}. SV40, the monkey virus Gallo and Bionetics researchers genetically altered in a series of steps and then cultured in human WBCs to alter its outer membrane characteristics, may have been a building block for HIV-2 and HIV-1. Additional evidence suggests that SIV_{agm} may have been man-made as well. Source: See chapter 6, and Myers. G, MacInnes K, and Myers L. "Phenogenetic Moments in the AIDS Epidemic," Chapter 12 in S. S. Morse, ed., *Emerging Viruses* (Oxford, Eng.: Oxford University Press, 1993).

E. THE "SWINE FLU" (H1N1) AND EBOLA LAB "OUTBREAKS"

During the July 29th hearing, Rand Paul raised the 1977 H1N1 influenza virus outbreak (misrepresented as the "Russian flu") to exemplify an outbreak caused by a virus that had been stored in a laboratory freezer. Like Ebola and COVID, H1N1 mysteriously emerged, had no confirmed "reservoir" in nature; then was reintroduced into distant human populations. With H1N1, military recruits in the Far East and Fort Dix suffered. They had been forced to take an inadequately attenuated live virus vaccine. Alternatively, the cause was attributed to a "lab accident" or "intentional release". That pandemic followed 1976 trials of the 1950-era H1N1 strains. Fear provided justification in the aftermath of the 1976 U.S. swine-flu military outbreak at Fort Dix. After taking that same vaccine my mother died from Guillain Barre Syndrome, known to be caused by the H1N1 "Swine Flu" vaccine.

Consistent with a pattern and practice of racketeering in organized bioterrorism, 1976 saw two simultaneous outbreaks of Ebolavirus in Zaire and the Sudan, determined to have been transmitted in hospitals wherein vaccines are administered along with "nosocomial infections". The 30-40% genetic difference between the two simultaneously emerging Ebola nosocomial strains outbreaking more than 400 miles apart cannot be reasonably attributed to nature or zoonotic spillover. Only to refrigerated transport.

One year earlier, in 1975, NIH veterinarian Dr. Robert Whitney stated at a Fort Detrick biohazards symposium considering the lab outbreaks of Ebola and its immediate predecessor, the Marburg virus known to have emerged simultaneously from three far distant vaccine production facilities: "These are viruses which naturally occur in apes and monkeys which are apparently nonpathogenic, but might cause

disease in human beings by being transmitted in biologics [vaccines] manufactured from nonhuman primate [monkey] tissues... Inoculation of the agents by parenteral route is necessary to establish infection in rhesus and cynomolgus monkeys."

F. COMMON SENSE ATTRIBUTIONS ENCOURAGING CRIMINAL INDICTMENTS

Common sense might conclude that given the military appropriations of 1970, to develop and test viruses and viral vaccines within five years that would do precisely what Ebola and HIV do to human immune systems (enriching patent holders and vaccine makers), the 1975/1976 aforementioned outbreaks might, once again, best be presumed, and most reasonably attributed, to reflect the "dual use" intersection between public health and national security commerce administered by our military-medical-petrochemical-pharmaceutical enterprise, effectively our "Deep State" secret government. The CIA's hand in virus surveillance, pathogen research, and pandemic preparedness is now public knowledge, as is Dr. Fauci's interactions with CIA operatives revealed by EcoHealth insider, Dr. Andrew Huff.

Now that we know these facts, it is unreasonable, irresponsible, and reckless to presume the 44 million people who have died from AIDS worldwide thus far, or the millions killed from COVID, did not succumb to a lab virus enterprise fraudulently blaming "zoonosis".

Moreover, it is likewise repugnant to presume that Fauci and his underlings, including Hugh Auchincloss and the authors of the sham *Nature New Medicine* damage control publication, operated without CIA monitoring and approval.

Fauci e-mails prove their scheme to hide the enterprise's operation. Therein Jeremy "James" Farrar is most incriminated for representing the interests of the "Deep State" British oligarchs administering the Welcome Trust, the World Health Organization, and Bill Gates' World Economic Forum (WEF) members' interests. The Epstein Files do likewise, revealing why Gates, Boris Nikolic, Leon Black, and other Big Biotech investors with JP Morgan-Chase, financed Harvard, MIT, ASU and Sante Fe Institute notables (including most importantly Charles Lieber at Harvard and Robert Langer at MIT/Moderna).

It is also public knowledge revealed in Fauci's e-mails and teleconference recordings between January 31, 2020 and February 2, 2020, that Farrar was directing the COVID lab origin cover-up in coordination with WHO officials. It is also public knowledge that Farrar transitioned as Welcome Trust Director to Chief Scientist at the WHO when his complicity in the Fauci/COVID cover-up was becoming widely known. Further, Farrar's heavy hand in the damage control was prompted by Prashant Pradhan, et. al.'s "Indian Paper" that evidenced HIV/AIDS genes spliced into the SARS-COV-2 (COVID-19) Spike Protein antigen. This mutation was key to COVID's transmissibility, mRNA vaccine efficacy, and billions of dollars in unjust enrichments. The Farrar/Fauci et. al., cover-up was conducted to profitably evade liability, conceal the principle investors, and advance their anti-American globalist agenda.

It is also public knowledge that at the precise time of the *Nature New Medicine* fraud occurred involving Robert Garry, Christian Andersen, and others mid-March 2020, the Gates Foundation and Welcome Trust each committed up to $50 million as seed funding for their joint "COVID-19 Therapeutics Accelerator"—the global pharmaceutical effort to accelerate development and access to lucrative COVID-19 treatments. Then, Farrar, as Welcome Director, publicly announced and promoted that initiative.

G. CONCLUSION

In closing, I applaud your presentations during the televised hearing. I especially appreciated Senator Scott's line of unanswered questions delving into the depths of my aforementioned facts. I have been continuously acquiring, assessing, and contesting these deadly, arguably demonic, covert operations for decades.

For me, the Fauci hearing was not vindication of my reputability, publications and legacy, but corroboration. I have been censored and disparaged as a "conspiracy theorist" all these years following my 1996 publication of the world's best-selling longest-enduring textbook in this field of laboratory engineered viruses: *Emerging Viruses: AIDS & Ebola—Nature, Accident or Intentional?* Thanks to your efforts, my works now stand as definitive resources of honest intelligence and scientific analysis.

Accordingly, more than thanks, I offer my professional expertise free of charge in support of your ongoing and pending investigations, indictments, and prosecutions. It is my duty and passion in life to be helpful here.

Thanks again and best wishes,

Leonard G. Horowitz, DMD, MA, MPH, DNM (hon.) DMM (hon.)
President, Medical Veritas International Inc.*

Cc: Sen. Tommy Tuberville
Sen. Josh Hawley
Sen. Ron Johnson
Sen. Rand Paul
Florida AG, James Uthmeier

* Medical Veritas International Inc. is a 501(c)(3) non-profit health educational publisher.

EXHIBITS

1. Source: Department of Defense Appropriations for 1970. Hearings Before a Subcommittee of the Committee of Appropriations House of Representatives, Ninety-First Congress, Part 5 Research, Development, Test, and Evaluation. Dept. of the Army. Tuesday, July 1, 1969, page 79. Washington: U.S. Government Printing Office, 1969.

Fig. 1.1. Department of Defense Appropriations Hearings for 1970 on the Development of Immune-System Destroying Agents for Biological Warfare

SOVIET CHEMICAL AND BIOLOGICAL WEAPONS

Mr. SIKES. The statements indicate that the Soviets have made extensive progress in chemical and biological weapons. I would like you to provide for the record a statement which shows what they are doing in this area and with some indication of their capabilities in this area.

Mr. POOR. We will be happy to provide that.

(The information follows:)

The Soviet Union is better equipped defensively, offensively, militarily, and psychologically for chemical and biological warfare than any other nation in the world. She has placed a great deal of emphasis on these systems in her military machine. Utilizing a wide spectrum of chemical munitions, the Soviets consider that chemical tactical weapons would be used in conjunction with nuclear weapons or separately, as the case may dictate. The Soviet agent stockpiles include a variety of agents and munitions capable of creating a wide range of effects on the battlefield. The Soviet soldier is well equipped defensively. He trains vigorously and for long periods of time utilizing his equipment. He looks upon chemical as a real possibility in any future conflict, and respects his protective equipment. The research program in the Soviet Union for chemical warfare and biological agents has encompassed every facet from incapacitating to lethal effects, both offensively and defensively.

(Additional classified information was supplied to the committee [including the testimony below].)

SYNTHETIC BIOLOGICAL AGENTS

There are two things about the biological agent field I would like to mention. One is the possibility of technological surprise. Molecular biology is a field that is advancing very rapidly and eminent biologists believe that within a period of 5 to 10 years it would be possible to produce a synthetic biological agent, an agent that does not naturally exist and for which no natural immunity could have been acquired.

Mr. SIKES. Are we doing any work in that field?

Dr. MACARTHUR. We are not.

Mr. SIKES. Why not? Lack of money or lack of interest?

Dr. MACARTHUR. Certainly not lack of interest.

Mr. SIKES. Would you provide for our records information on what would be required, what the advantages of such a program would be, the time and the cost involved?

Dr. MACARTHUR. We will be very happy to.

(The information follows:)

The dramatic progress being made in the field of molecular biology led us to investigate the relevance of this field of science to biological warfare. A small group of experts considered this matter and provided the following observations:

1. All biological agents up to the present time are representatives of naturally occurring disease, and are thus known by scientists throughout the world. They are easily available to qualified scientists for research, either for offensive or defensive purposes.

2. Within the next 5 to 10 years, it would probably be possible to make a new infective microorganism which could differ in certain important aspects from any known disease-causing organisms. Most important of these is that it might be refractory to the immunological and therapeutic processes upon which we depend to maintain our relative freedom from infectious disease.

3. A research program to explore the feasibility of this could be completed in approximately 5 years at a total cost of $10 million.

4. It would be very difficult to establish such a program. Molecular biology is a relatively new science. There are not many highly competent scientists in the field, almost all are in university laboratories, and they are generally adequately supported from sources other than DOD. However, it was considered possible to initiate an adequate program through the National Academy of Sciences-National Research Council (NAS-NRC).

5. The matter was discussed with the NAS-NRC and tentative plans were made to initiate the program. However, decreasing funds in CB, growing criticism of the CB program, and our reluctance to involve the NAS-NRC in such a controversial endeavor have led us to postpone it for the past 2 years.

It is a highly controversial issue and there are many who believe such research should not be undertaken lest it lead to yet another method of massive killing of large populations. On the other hand, without the sure scientific knowledge that such a weapon is possible, and an understanding of the ways it could be done, there is little that can be done to devise defensive measures. Should an enemy develop it there is little doubt that this is an important area of potential military technological inferiority in which there is no adequate research program.

The above testimony of Acting Assistant Secretary of the Army for Research and Development, Charles L. Poor, was printed on page 79 of the public record cited below. However, Dr. MacArthur's above statements were deleted. Dr. MacArthur was, at the time, the deputy director of the Department of Defense. The complete testimony was found initially by military investigator Zears Miles and subsequently by attorney Theodore Strecker, J.D., through the Freedom of Information Act (on page 129 of the supplemental record). A copy of the original classified document was later published on page 124 of *Deadly Innocence* by this author in 1994. Source: Department of Defense Appropriations for 1970. Hearings Before a Subcommittee of the Committee on Appropriations House of Representatives, Ninety-First Congress, Part 5 Research, Development, Test, and Evaluation, Dept. of the Army. Tuesday, July 1, 1969, page 79. Washington: U.S. Government Printing Office, 1969.

Source 2. NCI Staff. *The Special Virus Cancer Program. Progress Report #8*. Office of the Associate Scientific Director for Viral Oncology (OASDVO). J. B. Moloney, Ed., Washington, D.C.: U.S. Government Printing Office. 1971. (Library reference # HE 20.3152:V81.

BIONETICS RESEARCH LABORATORIES, INC. (NIH-71-2025)

Title: Investigations of Viral Carcinogenesis in Primates

Contractor's Project Directors: Dr. John Landon
Dr. David Valerio
Dr. Robert Ting

Project Officers (NCI): Dr. Roy Kinard
Dr. Jack Gruber
Dr. Robert Gallo

Objectives: (1) Evaluation of long-term oncogenic effects of human and animal viral inocula in primates of various species, especially newborn macaques; (2) maintenance of monkey breeding colonies and laboratories necessary for inoculation, care and monitoring of monkeys; and (3) biochemical studies of transfer RNA under conditions of neoplastic transformation and studies on the significance of RNA-dependent DNA polymerase in human leukemic tissues.

Major Findings: This contractor continues to produce over 300 excellent newborn monkeys per year. This is made possible by diligent attention to reproductive physiological states of female and male breeders. Semen evaluation, artifical insemination, vaginal cytology and ovulatory drugs are used or tried as needed.

Inoculated and control infants are hand-fed and kept in modified germ-free isolators. They are removed from isolators at about 8 weeks of age and placed in filtered air cages for months or years of observation. The holding area now contains approximately 1200 animals up to 5 years old. Approximately 300 are culled every year at a rate of about 25 per month. This is necessary to make room for young animals inoculated with new or improved virus preparations.

During the past year macaques were inoculated at birth or *in utero* with the Mason-Pfizer monkey mammary virus, Epstein-Barr virus, Herpesvirus saimiri, and Marek's disease virus. EB virus was given with immunostimulation and immunosuppression (ALS, prednisone, Imuran). Australia antigen was given to newborn African green monkeys.

The breeding and holding colonies were surveyed for antibody to EBV. All breeders were positive and their offspring contain maternal antibody for several months. Colony-born offspring that have lost maternal antibody and are sero-negative will be surveyed periodically for conversion to the EB positive state.

An RNA-dependent DNA polymerase similar to that associated with RNA tumor viruses was detected in human leukemic cells but not in normal cells stimulat by phytohemagglutinin. The enzyme was isolated, purified and concentrated 200-fold, making possible its further characterization and study in relation to the leukemic process in man.

Significance to Biomedical Research and to the Program of the Institute: Inasmuch as tests for the biological activity of candidate human viruses will not be tested in the human species, it is imperative that another system be developed for these determinations and, subsequently for the evaluation of vaccines or other measures of control. The close phylogenetic relationship of the lower primates to man justifies utilization of these animals for these purposes. Further study of altered transfer RNA and polymerase enzymes would determine their significance in neoplastic change and provide a basis for selection of therapeutic agents.

Proposed Course: Continuation with increased emphasis on monitoring and intensive care of inoculated animals to determine if active infection occurs, effects of infection, and degree of immunosuppression when used. Further studies of human neoplasms at a molecular level will continue.

Date Contract Initiated: February 12, 1962.

Merck and Company, Inc. (NIH-71-2059)

Title: Study of Viruses in Human and Animal Neoplasia.

Contractor's Project Director: Dr. Maurice R. Hilleman

Project Officers (NCI): Dr. Robert A. Manaker
Dr. Jack Gruber

Objectives: To perform investigations designed to develop vaccines or other agents effective for the prophylaxis and therapy of human neoplasia of suspected viral etiology.

Major Findings: This is a new contract.

Significance to Biomedical Research and the Program of the Institute: Current data support the concept that a virus or viruses are the essential element in most animal tumors studied and that viruses are probably the necessary etiological component in human neoplasia, though expression may be greatly influenced and modified by host and environmental factors. If viruses are the essential element in human cancer, then prophylaxis by vaccines to prevent or minimize infection should provide a rational approach to cancer prevention. This could be accomplished by utilization of live or killed virus vaccines or possibly by vaccines of purified virion subunits.

Vaccines would obviously provide their greatest benefit in preventing infection with oncogenic viruses transmitted horizontally after birth. However, even the possible vertical transmission of hypothetical neoplastic agents does not rule out a potential benefit from vaccines. Nononcogenic viruses may function as essential cofactors in expression of neoplasia, and immunity against such secondary agents might prevent expression of the neoplastic state. Additionally, antibody or cellular immunity may be enhanced by vaccination with homologous virus in virus-dependent cancer. Obviously this research investigation is of fundamental importance to the goals of SVCP and can make unique contributions to the total program.

Proposed Course: The investigators will devote initial efforts to developing methods for propagation, purification, concentration and specific quantitation of candidate viruses suspected or shown to cause cancer in man. At the present time, investigations will be focused upon herpes-type (DNA) viruses and "B" and "C" type (RNA) particles. Parallel studies to evolve live attenuated and killed virus vaccines in appropriate animal model systems will be conducted. Particular attention will be given to developing and applying optimal methods for viral attenuation, viral inactivation, viral quantitation, vaccine safety assessment, and vaccine potency assay.

Date Contract Initiated: March 1, 1971

MERCK AND COMPANY, INC. (NIH-71-2059)

Title: Oncogenic Virus Research and Vaccine Development

Contractor's Project Director: Dr. Maurice Hilleman

Project Officers (NCI): Dr. Robert A. Manaker
Mr. J. Thomas Lewin

Objectives: To conduct investigations designed to develop vaccines or other agents effective for the prophylaxis and therapy for human neoplasia of suspected viral etiology.

Major Findings: Multiple construction and renovation projects have been involved in the expansion and reorientation for this program. Remodeling of a laboratory, physically separated from the animal tumor virus area, was recently completed and is in use for Herpes simplex type 2 vaccine work. Two rooms (440 sq. ft.) in Bldg. #43 were remodeled and equipped and are in use for the germ-free derivation of kittens for the SPF cat colony breeding nucleus. Plans were completed for the renovation of half of Bldg. #65 (5,940 sq. ft.) for housing an SPF cat colony and for housing experimental cats. The construction and equipping of the new biohazard containment building #26B (12,096 sq. ft.) for laboratory work is progressing on schedule. The projected completion date is September, 1972.

Tumor-specific cellular vaccine development: The preparation and assay of tumor cell vaccines for protective efficacy in the hamster model system was continued at a lower priority level. Testing of adenovirus 31 tumor cell fractions prepared by mechanical disruption of the cells and fractionation by differential centrifugation was completed. None of the vaccines (crude cell homogenate, nuclear fraction-$w^2t = 10^7$ pellet, membrane fraction-$w^2t = 5 \times 10^9$ pellet, particulate fraction-$w^2t = 10^{11}$ pellet, cell sap-$w^2t = 10^{11}$ supernate) protected hamsters against development of tumors when they were challenged by inoculation of viable homologous tumor cells. Work on the preparation of two other types of tumor cell antigens was continued. Cell membranes were prepared from a adenovirus 12 tumor cells by hypotonic extraction and were solubilized by sonication. The solubilized material was fractionated on Sephadex G200