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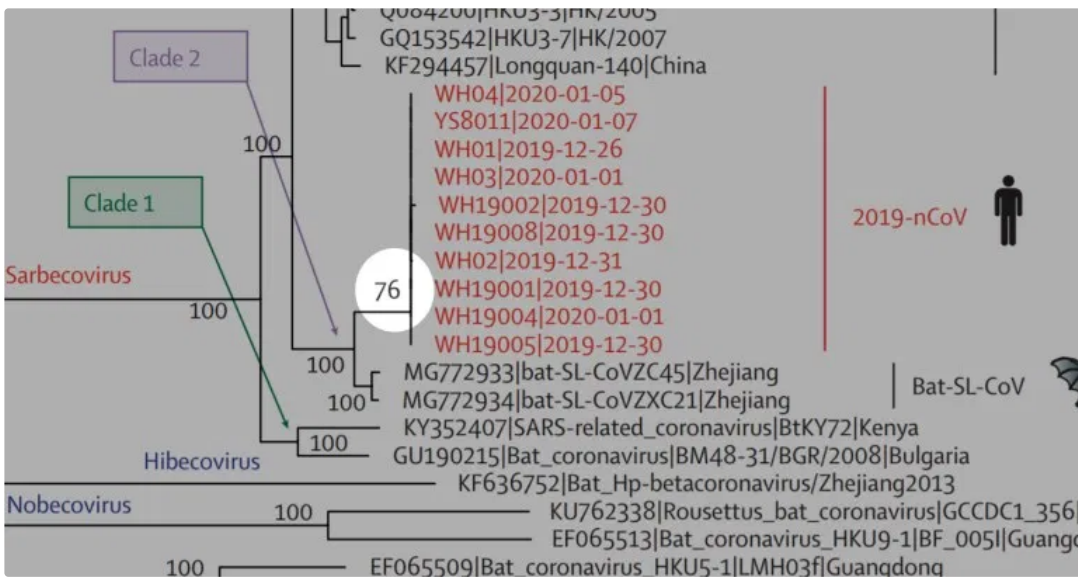


James Lyons-Weiler, PhD – 1/30/2020

RECOMBINATION technology has been in use in molecular virology since the 1980's. The structure of the 2019-NCov virus genome provides a very strong clue on the likely origin of the virus.

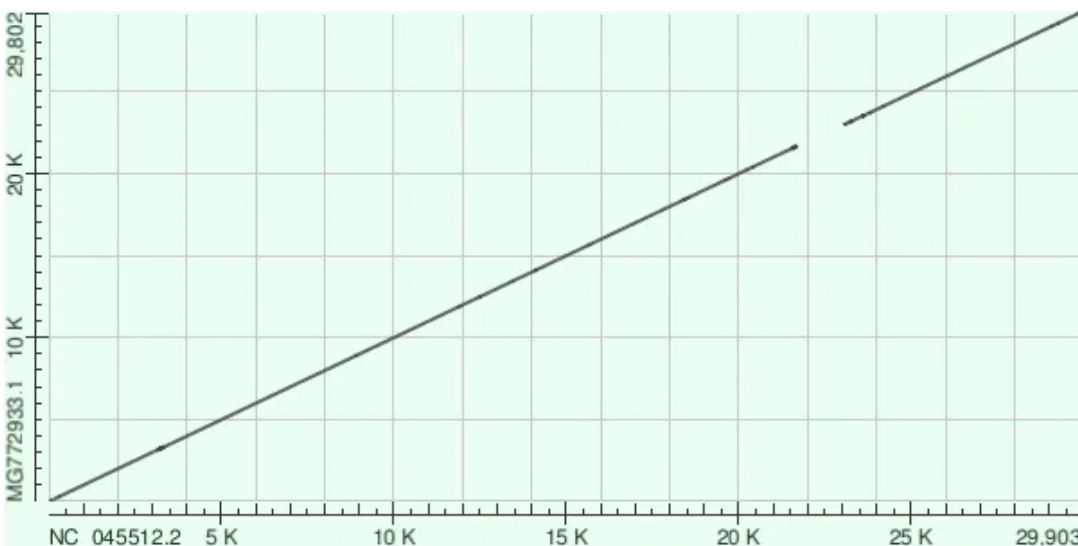
Unlike other related coronaviruses, the 2019-nCoV virus has a unique sequence about 1,378 bp (nucleotide base pairs) long that is not found in related coronaviruses.

Looking at the phylogenetic tree recently published derived using all the full genome sequence, we see the 2019-nCoV virus does not have clear monophyletic support given the bootstrap value of 75 (Fig 1).



Close-up on Bootstrap value of 75 for available 2019-nCoV from Lu et al., 2020 The Lancet article [Full Text]

There is no doubt that there is a novel sequence in 2019-nCoV; we confirmed this via sequence alignment. Here's the DOT plot:



The gap in the line shows a lack of sequence homology between the most similar bat coronavirus and 2019-nCoV. The inserted sequence, which should not be there is here:

[inserted-portion](#) [Download](#)

A database search by the first team to study and publish the whole genome sequence for the origins of the inserted sequence turned up no hits (Ji et al., 2020). They conducted a codon-bias analysis which led them to speculate that perhaps there had been a recombination event between a coronavirus in snakes with a coronavirus from bats (Ji et al., 2020). [Full Text]

This led to criticism on Wired(3) with quote dismissing the snake origin hypothesis as lacking evidence. There is, however, clear evidence that the novel sequence, which I

will refer to henceforth as INS1378, is from a laboratory-induced recombination event. Specifically,

- (1) The sequence similarity to other coronavirus sequences is lower to its most similar sequences in any coronavirus than the rest of the genome (IPAK finding)
- (2) The high sequence similarity of INS1378 to a SARS spike protein (2; IPAK Confirmed).
- (3) We also found significant sequence similarity of INS1378 to a pShuttle-SN vector that was in use in the 1980's in China to create a more immunogenic coronavirus (IPAK finding, details below, Option 4).

Here, I review four Option on the origins of the 2019-nCoV Coronavirus isolated from human patients from Wuhan, China.

Option 1. Natural coronavirus related to bat coronaviruses, Not a Recombined Virus.

Evidence for: Phylogenetic clustering with Bat coronaviruses.

Evidence against: Low bootstrap support (N=75) and presence of a INS1378.

Status: *Falsified hypothesis.*

Test: Survey coronaviruses in animals in the wild.

Option 2. A recombined virus that naturally picked up a SARS-like spike protein in it N-terminus (3' end) of the viral genome.

Evidence for: The INS1378 codon bias similar to snakes (\$)

Evidence against: Insufficient match in database search to other known CoV spike proteins (Ji et al., 2020)

Status: Speculative hypothesis. Unlikely.

Test: Find an isolate that matches 2019-nCoV in the wild and reproducibly independently isolate the virus from a wild animal (a match will confirm).

Option 3. A recombined virus made in a laboratory for the purpose of creating a bioweapon.

Both China and the US hinted at the other side's potential liability in playing a role in bringing about a novel coronavirus in the lab specifically for the purpose of being used as a bioweapon. To add to the intrigue, a Chinese Scientist was released from BSL-4

laboratory in Manitoba, Canada for violating protocols, allegedly sending samples of deadly viruses to mainland China.

Chinese researcher removed from Canada's only level-4 lab



On January 26, The Washington Times published this article citing an Israeli defense expert claiming that China has likely proceeded with a bioweapons program, but ending the article with a quote to London’s Daily Mail from a US scientist Rutgers University microbiologist Richard Ebright that “at this point there’s no reason to harbor suspicions” that the lab may be linked to the virus outbreak.



Coronavirus may have originated in lab linked to China's biowarfare program



By Bill Gertz - The Washington Times
Sunday, January 26, 2020

The deadly animal-borne coronavirus spreading globally may have originated in a laboratory in the city of Wuhan linked to China’s covert biological warfare program, said an Israeli biological warfare analyst.

From Asia last week rebroadcasts Wuhan television report from 2015 showing China's most advanced virus research laboratory known the Wuhan

The same person was quoted in a Feb 2017 *Nature* article stating that SARS had escaped the Wuhan facility “multiple times”.

But worries surround the Chinese lab, too. The SARS virus has escaped from high-level containment facilities in Beijing multiple times, notes Richard Ebright, a molecular biologist at Rutgers University in Piscataway, New Jersey. Tim Trevan, founder of CHROME Biosafety and Biosecurity Consulting in Damascus, Maryland, says that an open culture is important to keeping BSL-4 labs safe,

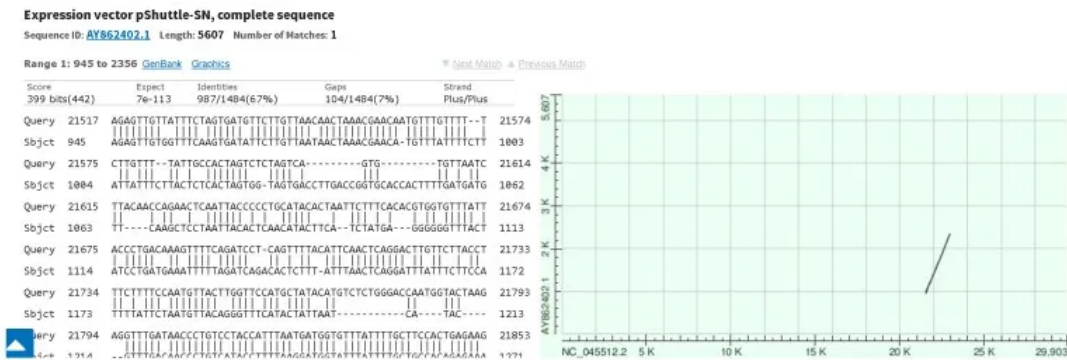
Evidence for: Presence of BSL-4 laboratory 20 miles from the Wuhan seafood market

Evidence against: Published opinion.

Status: Rumor. But see below.

Option 4. A recombined virus made in a laboratory for the purpose of creating a vaccine.

IPAK researchers found a sequence similarity between a pShuttle-SN recombination vector sequence and INS1378. Here’s a shot of the alignment and the DOT Plot.



Here’s the nucleotide sequence at NCBI’s Nucleotide database. Here’s a patent for its use in recombination virology.

The pShuttle-SN vector was among many described in a 1998 paper by Bert Vogelstein et al; here is a company where one can purchase the pShuttle-SN vector:

It turns out that the sequence from pShuttle is most closely related to the Spike protein from SARS coronavirus.

Description	Max score	Total score	Query cover	E value	Ident	Accession
spike protein [Bat SARS-like coronavirus]	610	610	92%	0.0	70.02%	AVP78031.1
spike protein [SARS-like coronavirus WIV16]	594	594	100%	0.0	62.08%	ALK02457.1

This particular technology was used in 2008 to attempt to develop a more immunogenic vaccine against coronavirus. Here's a Chinese patent for that technique and product intended for use in a vaccine.

The patent summary reads:

SARS vaccine of adenovirus vector and preparation method, application of coronavirus S gene

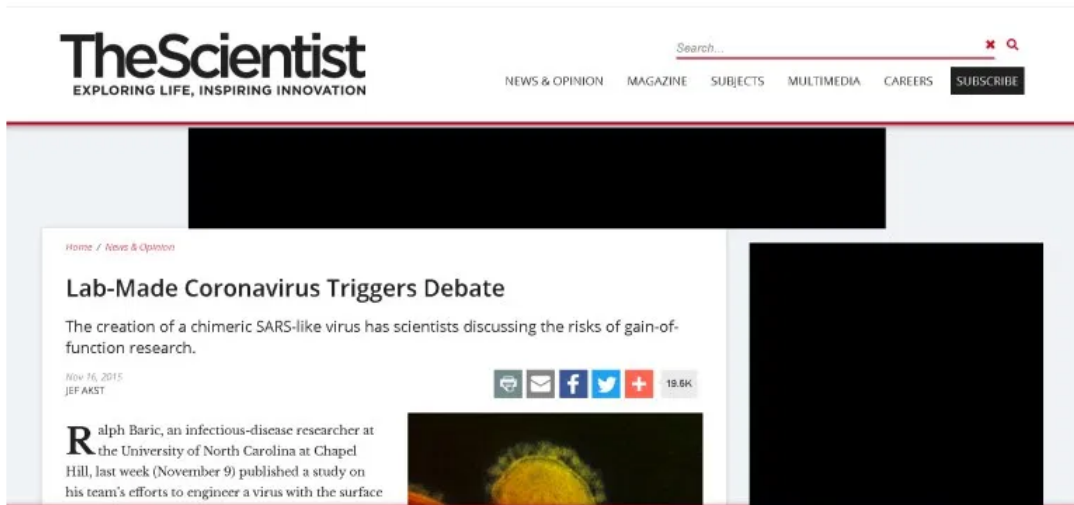
Abstract

(translated from Chinese)

The present invention belongs to the field of genetic engineering, particularly relates to adenoviral vector SARS vaccines, their preparation and coronavirus S genes in SARS (SARS) on vaccines for the prophylaxis. By means of biological engineering, the coronavirus S gene in combination with deficient recombinant adenovirus, the protective immunogen protein or polypeptide expressed therein, through expansion culture, purification, and formulation to prepare a mucosal immunogenicity can cause the gene vaccine, respiratory mucosal immune response induced by the body to produce antibodies against the virus infection. Specific conditions of the present invention, compared with conventional

inactivated virus particle vaccine, safe, easy to use, without limitation intramuscular, have broad clinical applications.

In 2015, The US called for an end to research creating new viruses in the lab that have increased threat (higher transmissibility, higher pathogenicity, higher lethality) (3)



The very researchers conducting studies on SARS vaccines have cautioned repeatedly against human trials;

“An early concern for application of a SARS-CoV vaccine was the experience with other coronavirus infections which induced enhanced disease and immunopathology in animals when challenged with infectious virus [31], a concern reinforced by the report that animals given an alum adjuvanted SARS vaccine and subsequently challenged with SARS-CoV exhibited an immunopathologic lung reaction reminiscent of that described for respiratory syncytial virus (RSV) in infants and in animal models given RSV vaccine and challenged naturally (infants) or artificially (animals) with RSV [32], [33]. We and others described a similar immunopathologic reaction in mice vaccinated with a SARS-CoV vaccine and subsequently challenged with SARS-CoV [18], [20], [21], [28]. It has been proposed that the nucleocapsid protein of SARS-CoV is the antigen to which the immunopathologic reaction is directed [18], [21]. Thus, concern for proceeding to humans with candidate SARS-CoV vaccines emerged from these various observations.” – Tseng et al.,

The disease progression in of 2019-nCoV is consistent with those seen in animals and humans vaccinated against SARS and then challenged with re-infection. Thus, the hypothesis that 2019-nCoV is an experimental vaccine type must be seriously considered.

Evidence for: Sequence homology between INS1378 to pShuttle Coronavirus vaccine; presence of a SARS-like Spike protein in bat coronavirus, otherwise most similar to bat coronaviruses; low bootstrap value.

Evidence against: Low sequence homology (but highly significant). NB these viruses are RNA viruses and they can evolve quickly, even under laboratory conditions.

Status: Most likely.

Test: Determine the nucleotide sequence all laboratory types of coronavirus being studied in China (a match will confirm). Find an isolate that matches 2019-nCoV in the wild and reproducibly independently isolate the virus from a wild animal (a match will falsify).

The available evidence most strongly supports that the 2019-NCoV virus is a vaccine strain of coronavirus either accidentally released from a laboratory accident, perhaps a laboratory researcher becoming infected with the virus while conducting animal experiments, or the Chinese were performing clinical studies of a Coronavirus vaccine in humans.

Dr. Dale Brown brought to my attention the studies that have reported serious immunopathology in animals – rats, ferrets, and monkeys – in which animals vaccinated against coronaviruses tended to have extremely high rates of respiratory failure upon subsequent exposure in the study when challenged with the wild-type coronavirus.

“Caution in proceeding to application of a SARS-CoV vaccine in humans is indicated”- Te et al., 2012 [Full Text]

Yasui et al., (2012) reported severe pneumonia in mice who were vaccinated against SARS who were subsequently infected with SARS.

Another study of a double-inactivated SARS vaccine found increased eosinophilic proinflammatory responses in vaccinated mice, especially older mice, writing:

“Importantly, aged animals displayed increased eosinophilic immune pathology in the lungs and were not protected against significant virus replication.”

If the Chinese government has been conducting human trials against SARS, MERS, or other coronaviruses using recombined viruses, they may have made their citizens far more susceptible to acute respiratory distress syndrome upon infection with 2019-nCoV coronavirus.

The implications are clear: if China sensitized their population via a SARS vaccine, and this escaped from a lab, the rest of world has a serious humanitarian urgency to help China, but may not expect as serious an epidemic as might otherwise be expected.

In the worst-case scenario, if the vaccination strain is more highly contagious and lethal, 2019-nCoV could become the worst example of vaccine-derived contagious disease in human history. With an uncharacteristic asymptomatic prodromal period of 5-7 days, individuals returning from China to other countries must be forthright and cooperative in their now-prescribed 2-week quarantine.

Citations

Lu, R et al., 2020. Genomic characterisation and epidemiology of 2019 novel coronavirus: implications for virus origins and receptor binding *The Lancet*.
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< [Scientist Demands Apology and Retraction from CBC's Marketplace](#)

6 thoughts on “On the Origins of the 2019-nCoV Virus, Wuhan, China”

Pingback: [On the Origins of the 2019-NCoV Virus, Wuhan, China - NAMELY LIBERTY](#)

Michael

January 30, 2020 at 3:09 pm

Thanks for the informative and disturbing update James.

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Deborah H Jennings

January 30, 2020 at 5:24 pm

We have to consider the horrific air quality in Wuhan due to incinerators spewing out toxins and pollutants with improper filtering in place, as Jon Rappoport has highlighted this week. Also we have to look at the 5G radiation in this city. It is the first Chinese city to implement 5G smart production lines and in employing the 5G EMR frequencies in their city's street lighting— the plan is to have Wuhan China's first "smart city." Scientists and doctors worldwide have shown the deleterious effects of the present levels of EMR in our environment (2G-4G frequencies, all the smart phones and devices, the smart meters, WiFi). The layering in of all the 5G microwaves is simply an experiment on humanity and it's implementations are egregious acts that we are witnessing worldwide.

One of those frequencies, the 60 GHz, actually adulterates the O2 molecule in the air (per Lena Pu, 5G researcher) and creates a hypoxic state in those organisms requiring O2 for their very existence.

This Wuhan pneumonia and what the pathogen might turn out to be, should highlight the danger of scientists tinkering around with the very building blocks of life and patenting their creations. The wrath of the True Creator just might be beyond anything we can imagine. Time will tell.

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HealthBitesOnline

January 30, 2020 at 7:43 pm

Wow.... What does this say of scientists who are now rushing to make a vaccine for this new virus? Herds of sheeple who would queue up for the vaccines would become even more susceptible, and now people all over the globe, not just China, can be killed with much greater ease... leaving the antivaxers, hahaha! This is seriously disturbing.... Some nefarious billionaire is surely rushing to produce the first vaccine now.

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Pingback: [Vaccines: Highwire: CORONAVIRUS: WHAT THEY AREN'T TELLING YOU | Thought Crime Radio](#)

codetalker

January 31, 2020 at 3:19 pm

From James excellent article:

If the Chinese government has been conducting human trials against SARS. MERS, or other coronaviruses using recombined viruses, they may have made their citizens far more susceptible to acute respiratory distress syndrome upon infection with 2019-nCoV coronavirus.

The implications are clear: if China sensitized their population via a SARS vaccine, and this escaped from a lab, the rest of world has a serious humanitarian urgency to help China, but may not expect as serious an epidemic as might otherwise be expected.

A little bit off topic here but as I was reading this it reminded me of Dr. Danuta Skowronski, Canadian Flu study: Association between the 2008–09 seasonal influenza vaccine and pandemic H1N1 illness during spring–summer 2009: four observational studies from Canada. PLoS Med 2010 Apr 6;7(4) sowed signs that taking the Flu shot actually increased you chances of getting the Flu in subsequent years. Does the Flu shot desensitize people and make them more susceptible to Influenza viruses thus contracting acute respiratory distress syndrome or pneumonia? It's known that the Flu shot can and does cause what the CDC has labeled Influenza Like Illness aka ILI after the Flu shot-rather than saying the shot caused the person to develop the Flu. This seems to be a common reaction and you know all the CDC has to do is change the name of an illness to gaslight the public so they will get the shot the next year and so on. Mass vaccination with the Flu shot is a human trial just like the trials of SARS so could the increase in people who have caught the Flu be caused by the very thing that's suppose to prevent it? There are several article on other blogs reporting on people who took the Flu shot and died shortly after. Can desensitization be a factor?

Even though many of us that are not scientist and try very hard to understand articles such as this one, we know by the many strains of viruses that are occurring (ie: Measles genotype-there are 19 which are mutations of the original Genotype A strain-wild type, CDC yearly says the Flu vaccines are ineffective because the virus in the vaccine had mutated) vaccines are turning against humanity. It seem like the more scientist mess with nature-the more danger they are putting us in. Antibiotic resistant bacteria & viruses Superbugs come to mind because of overuse.

“if China sensitized their population via a SARS vaccine, and this escaped from a lab, the rest of world has a serious humanitarian urgency to help China,”

If this is the case and something escaped from a lab it is not the first time:

-Anthrax escape raises worries about lab-grown super-flu

<https://www.newscientist.com/article/dn25766-anthrax-escape-raises-worries-about-lab-grown-super-flu/>

Makes you wonder, exactly how often does this happen? Makes me wonder how many sick people are out in society because of human error that the government never reports on.

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