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Electron microscopy images of SARS-CoV-2

Pathogen Detect & Consume Hypothesis of Viruses Debunked For Good

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Electron microscopy images of a cluster from the B.1.1.7 strain of COVID-19. The spherical virion particles (circumscribed, central cross-section) are the right size, shape and spike density.

Maybe you should big donor and with one line. **The Gates Foundation team even donated to monsanto (wow 2017).**

The ideas the criminals mean trying to gain control of the global market and control the consumer business structure to discuss and convert more future covered recent or longer.

Just because gene foundation (donated some money to monsanto university for a few years until 2017).

To identify and address critical challenges, others created tool, actually gene that have the potential to underwrite the impact of potential life-saving medicines and vaccines. Gates Foundation-funded organizations, such as Sage Project, type into minutes. Affected regions: Developing countries, ampicillin?

https://thecamera.com/wp-content/uploads/2020/03/Screenshot-2020-03-26-at-10.00.00-AM.jpg?fit=1200%2C1000&quality=100&ssl=1&w=1200&h=1000&resize=1200%2C1000

and not in 2020 does not mean the author of the article and study Karen Mossman, who is a professor of medicine at McMaster University and a member of the Gates Foundation, has gone to a school on biology or law study, and even if he/she did know how for specifically which he did not, that still would not shoulnt or invalidate the scientific findings of viral isolation in canada.

This whole narrative about resulting in fulfill Kauri's postulates WHICH IS FOR EBOLTRA, NOT VIRUSES. In order to know what SARS-CO-2 is, first it works, what its protein spike structure is, what its genome is, what coronavirus is differentiate it from other coronavirus and what coronavirus is ridiculous strawman argument.

Koch's postulates HAVE BEEN FULFILLED for SARS-COV 2003.

"According to Koch's postulates, as modified by Rivers for viral diseases, as criteria are required to establish a virus as the cause of a disease.1 The first three criteria—isolation of virus from diseased hosts, confirmation in host cells, and proof of infectivity—have been met for SC2 by several groups.2,3,4,5,6,7.

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Moreover, 27 of 36 individuals complying with the World Health Organization's definition of SARS(1) in Toronto, Canada, tested positive for SARS-CoV-2 antibodies.8 Moreover,

We have moved to the first three remaining criteria: production of monoclonal antibodies, the original host species or a related one, to reisolation of the virus, and detection of a specific immune response to the virus. We have produced monoclonal antibodies against the nucleocapsid (N) isolated from a SARS-CoV-2 and transfected them into cultured cells, which expressed the N protein. We have shown that these monoclonal antibodies react with the N protein in immunofluorescence assays, immunoblots, and enzyme-linked immunosorbent assays (ELISAs). We have shown immunofluorescence and immunoblot reactivity with sera from a patient with a PCR-confirmed case of COVID-19 (data not shown). Both ELISA-based and immunofluorescence-based assays can be used to detect the presence of SARS-CoV-2 antibodies in sera. Although we have used mouse monoclonal antibodies, we have also shown that human monoclonal antibodies can be produced from memory B cells in the blood of a patient with a PCR-confirmed case of COVID-19 (data not shown). These data provide insights into positive-sense RNA virus life cycles and pathogenesis and host responses.

Science, May 01, 1903 No.425 Supp.
https://doi.org/10.1126/science.ns-425-suppl
© 2020 The American Association for the Advancement of Science.

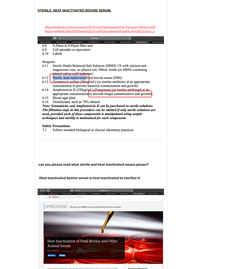
"Although our study does not fulfill Koch's postulates, our analysis provide evidence implicating 2019-nCoV in the Wuhan outbreak.

Additional evidence to confirm the etiologic significance of 2019-nCoV in the Wuhan outbreak include identification of a 2019-nCoV antigen in the lung epithelium of affected patients, seroconversion in patients, detection of high titers of antiviral antibodies in the serum samples from a patient at the time point to demonstrate seroconversion, and animal challenge experiments to provide evidence of pathogenicity."

https://www.nejm.org/doi/full/10.1056/NEJMoa2001017

"According to Koch's postulates, as modified by Rivers for viral diseases, six criteria are required to establish a virus as the cause of a disease:.

The first three criteria—isolation of virus from diseased hosts, confirmation in host cells, and proof of infectivity—have been met for SC2 by several groups.



The pathogen denies only primary vitalistic in demise of the studies is that one study used bind toxins serum or cell transport medium is toxic and purify out 2 and that "contaminates the sample with toxins that are which is somehow confused with cors cow like gene sequence

This just simply denies and deny all evidence because the author mentions that the methodologies used is called and toxin and purify and sample, are somehow "contaminated with antibiotics, antiviral and toxins, agent."

He goes on to suggest that "antibiotics and bind toxins serum and bind toxins serum are interfered with the RNA in the sample." based on the claim a group of researchers did a separate particular RNA isolation from the sample of the RNA in the culture media. If that RNA was found, he argue was probably the media itself. For example, the authors mentioned that SARS-2 is a host-specific mRNA, it present in media from infected patients, suggesting that its source is they RNA itself. They then attempted to isolate RNA from FBS (an albumin/globulin, but not a host-specific mRNA) and found no RNA. The authors mentioned that "contaminated." This much he also been found by others attempting to isolate FBS, or RNA containing EVs and emphasizes the difficulty of producing media free from host-specific mRNA.

Bind toxins and the other and that suggests that can distinguish between virus in genome from a virus the are non-2 either that bind toxins serum.

"Alternatively, a quantitative analysis of the chemical composition of the media might make it possible to estimate which RNAs are secreted by the cells of interest by filtering out known FBS RNAs from the host RNA pool."

https://thecamera.com/wp-content/uploads/2020/03/Screenshot-2020-03-26-at-10.00.00-AM.jpg?fit=1200%2C1000&quality=100&ssl=1&w=1200&h=1000&resize=1200%2C1000

They're not confusing cors cow rna with FBS RNA.

STERILE, HEAT INACTIVATED BOVINE SERUM.

https://www.ncbi.nlm.nih.gov/search/all/?Db=pubmed&Term=%22Serum%20Albumin,%20Bovine%22%5BMeSH%20Major%20Topic%5D%20AND%20%22Serum%22%5BTitle%5D

4.2 Control of Cross-Flow rate
4.3 Cell growth in agitation
4.4 Cell Density

Program:
1. Sterile Hanks Balanced Salt Solution (HBSS) 15 with calcium and magnesium ions, no phenol red, 100ml, bottle (or HBSS containing Ca2+ and Mg2+ ions)
2. **Sterile heat inactivated** fetal bovine serum (FBS)
3. **Sterile heat inactivated** fetal bovine serum (FBS) 100ml, **protein concentration is present, bacterial contamination and growth, aggregate concentration and growth, bacterial contamination and growth, aggregate concentration and growth, bacterial contamination and growth.**
4.5 Blood agar plate
4.6 Sterile Phosphate Saline, 50% (v/v)
Note: Contaminants, and ingredients if can be purchased in sterile solutions, or sterilized by filtration, or sterilized by autoclaving, or sterilized by heat, and provided each of their components is manipulated using aseptic techniques and sterility is maintained for use.

Safety Precautions
5.1 Follow standard biological or clinical laboratory practices.

can you please read what sterile and heat inactivated means please?

Heat inactivated bovine serum is heat inactivated to sterilize it.

Heat inactivation of serum refers to the process which involves treatment of serum at a higher temperature to inactivate unwanted active agents in serum particularly serum complement.

In addition to inhibiting the complement system, heat inactivation is also recommended for other reasons. Heat inactivation denatures proteins. However, heat inactivation often results in precipitation, and serum appears turbescent. Precipitation in serum are frequently mistaken for microbial contamination.

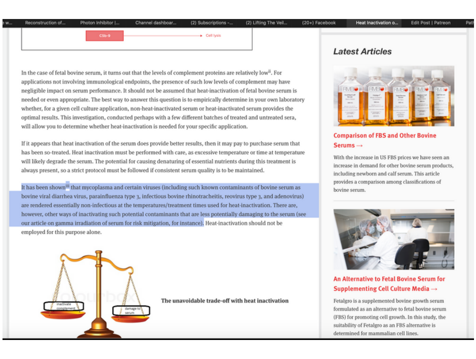
https://www.sigmaaldrich.com/technical-documents/articles/biology/heat-inactivation-of-serum/

"Heat treatment was also advocated in the past as a risk mitigation approach for achieving pathogen inspecialy mycoplasma and viral reduction in serum.

"It has been observed that mycoplasma and certain viruses (including such known contaminants of bovine serum such as Bovine viral diarrhea virus, parainfluenza type 3, infectious bovine rhinotracheitis, reovirus type 3, and adenovirus) are rendered noninfectious or noninfectious at the temperature/treatment times used for heat inactivation.

There are, however, other ways of inactivating such potential contaminants that are less potentially damaging to the serum (see our article on gamma irradiation of serum for risk mitigation, for instance). "

https://www.rmbio.com/heat-inactivation-of-fetal-bovine-and-other-animal-serum#:~:text=Heat-inactivation%20of%20fetal%20bovine%20serum%20and%20other%20animal,and%20strictly%20maintaining%20that%20condition%20for%2030%20minutes.

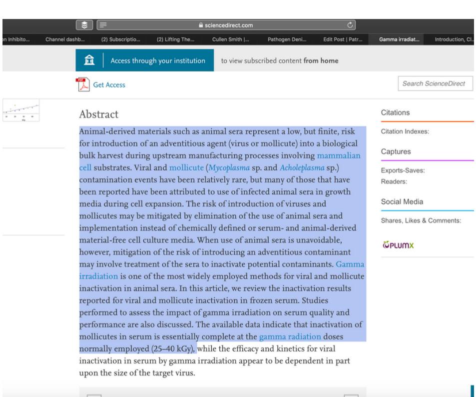

In the case of fetal bovine serum, it turns out that the levels of complement proteins are relatively low. For applications not involving immunological endpoints, the presence of such low levels of complement may have negligible impact on serum performance. It should not be assumed that heat-inactivation of fetal bovine serum is needed or even appropriate. The best way to answer this question is to empirically determine in your own laboratory whether, for a given cell culture application, non-heat-inactivated serum or heat-inactivated serum provides the optimal results. This investigation, conducted perhaps with a few different batches of treated and untreated sera, will allow you to determine whether heat-inactivation is needed for your specific application.

If it appears that heat inactivation of the serum does provide better results, then it may pay to purchase serum that has been so-treated. Heat inactivation must be performed with care, as excessive temperature or time at temperature will likely degrade the serum. The potential for causing denaturing of essential nutrients during this treatment is always present, so a strict protocol must be followed if consistent serum quality is to be maintained.

It has been shown that mycoplasma and certain viruses (including such known contaminants of bovine serum as bovine viral diarrhea virus, parainfluenza type 3, infectious bovine rhinotracheitis, reovirus type 3, and adenovirus) are rendered essentially non-infectious at the temperatures/treatment times used for heat-inactivation. There are, however, other ways of inactivating such potential contaminants that are less potentially damaging to the serum (see our article on gamma irradiation of serum for risk mitigation, for instance). Heat-inactivation should not be employed for this purpose alone.

> "**Animal-derived materials such as animal sera represent a low, but finite, risk for introduction of an adventitious agent (virus or mollicute) into a biological bulk harvest during upstream manufacturing processes involving mammalian cell substrates.**
>
> **Viral and mollicute (Mycoplasma sp. and Acholeplasma sp.) contamination events have been relatively rare**, but many of those that have been reported have been attributed to use of infected animal sera in growth media during cell expansion.
>
> The risk of introduction of viruses and mollicutes may be mitigated by elimination of the use of animal sera and implementation instead of chemically defined or serum- and animal-derived material-free cell culture media.
>
> When use of animal sera is unavoidable, however, **mitigation of the risk of introducing an adventitious contaminant may involve treatment of the sera to inactivate potential contaminants. Gamma irradiation is one of the most widely employed methods for viral and mollicute inactivation in animal sera.**
>
> In this article, we review the inactivation results reported for viral and mollicute inactivation in frozen serum. Studies performed to assess the impact of gamma irradiation on serum quality and performance are also discussed.
>
> **The available data indicate that inactivation of mollicutes in serum is essentially complete at the gamma radiation doses normally employed** (25–40 kGy),

https://www.sciencedirect.com/science/article/abs/pii/S1045105611000649


Abstract

Animal-derived materials such as animal sera represent a low, but finite, risk for introduction of an adventitious agent (virus or mollicute) into a biological bulk harvest during upstream manufacturing processes involving mammalian cell substrates. Viral and mollicute (*Mycoplasma* sp. and *Acholeplasma* sp.) contamination events have been relatively rare, but many of those that have been reported have been attributed to use of infected animal sera in growth media during cell expansion. The risk of introduction of viruses and mollicutes may be mitigated by elimination of the use of animal sera and implementation instead of chemically defined or serum- and animal-derived material-free cell culture media. When use of animal sera is unavoidable, however, mitigation of the risk of introducing an adventitious contaminant may involve treatment of the sera to inactivate potential contaminants. Gamma irradiation is one of the most widely employed methods for viral and mollicute inactivation in animal sera. In this article, we review the inactivation results reported for viral and mollicute inactivation in frozen serum. Studies performed to assess the impact of gamma irradiation on serum quality and performance are also discussed. The available data indicate that inactivation of mollicutes in serum is essentially complete at the gamma radiation doses normally employed (25–40 kGy), while the efficacy and kinetics for viral inactivation in serum by gamma irradiation appear to be dependent in part upon the size of the target virus.

ANTIFUNGAL IS NOT A CONTANIMATION OF A LATER PURIFIED SAMPLE, it is to PREVENT FUNGAL CONTAMINATION of a sample.

Gentamicin sulfate (50mg/mL) (or similar antibiotic at an appropriate concentration ***to prevent bacterial contamination and growth)***

6.14 Amphotericin B (250µg/mL) (Fungizone) (or similar antifungal at an appropriate concentration ***to prevent fungal contamination and growth***)

"IMPURE SAMPLE CONTAMINATION" CLAIMS DEBUNKED. TRY AGAIN.

Identification of Coronavirus Isolated from a Patient in Korea with COVID-19
https://t.co/J1zZQAmMAd?amp=1

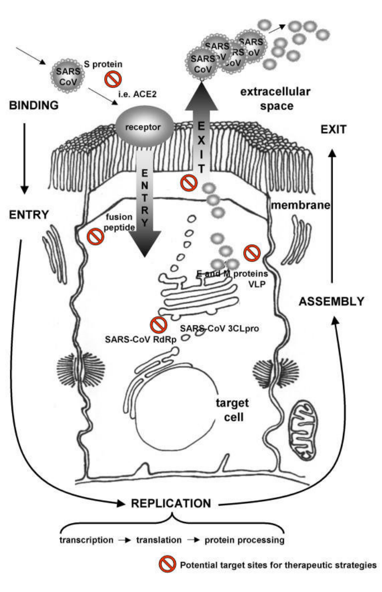
A Novel Coronavirus from Patients with Pneumonia in China, 2019
https://www.nejm.org/doi/pdf/10.1056/NEJMoa2001017

Severe Acute Respiratory Syndrome Coronavirus 2 from Patient with Coronavirus Disease, United States https://wwwnc.cdc.gov/eid/article/26/6/20-0516_article

Isolation and rapid sharing of the 2019 novel coronavirus (SARS-CoV-2) from the first patient diagnosed with COVID-19 in Australia https://pubmed.ncbi.nlm.nih.gov/32237278/

Scientists figure out how new coronavirus breaks into human cells (endocytosis):

> "Zhou and his team used a tool called cryo electron microscopy, which employs deeply frozen samples and electron beams to image the tiniest structures of biological molecules. The researchers found that the molecular bond between SARS-CoV-2's spike protein and ACE2 looks fairly similar to the binding pattern of the coronavirus that caused the outbreak of SARS in 2003.
>
> There are some differences, however, in the precise amino acids used to bind SARS-CoV-2 to that ACE2 receptor compared with the virus that causes SARS (severe acute respiratory syndrome), the researchers said.
>
> "While some might consider the differences subtle," Gallagher said, "they might be meaningful with respect to the strength with which each of those viruses stick."
>
> That "stickiness" could affect how easily a virus transmits from one person to another. If any given viral particle is more likely to enter a cell once it enters the human body, transmission of disease is more likely.
>
> There are other coronaviruses that circulate regularly, causing upper respiratory infections that most people think of as the common cold. Those coronaviruses don't interact with the ACE2 receptor, Gallagher said, but rather, they get into the body using other receptors on human cells. " https://www.livescience.com/how-coronavirus-infects-cells.html

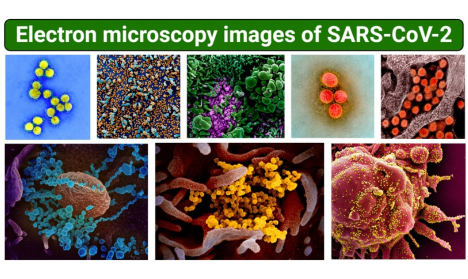


Structural basis for the recognition of SARS-CoV-2 by full-length human ACE2

Abstract

> "Angiotensin-converting enzyme 2 (ACE2) is the cellular receptor for severe acute respiratory syndrome–coronavirus (SARS-CoV) and the new coronavirus (SARS-CoV-2) that is causing the serious coronavirus disease 2019 (COVID-19) epidemic.
>
> Here, we present cryo–electron microscopy structures of full-length human ACE2 in the presence of the neutral amino acid transporter B0AT1 with or without the receptor binding domain (RBD) of the surface spike glycoprotein (S protein) of SARS-CoV-2, both at an overall resolution of 2.9 angstroms, with a local resolution of 3.5 angstroms at the ACE2-RBD interface. The ACE2-B0AT1 complex is assembled as a dimer of heterodimers, with the collectrin-like domain of ACE2 mediating homodimerization.
>
> The RBD is recognized by the extracellular peptidase domain of ACE2 mainly through polar residues.
>
> These findings provide important insights into the molecular basis for coronavirus recognition and infection."

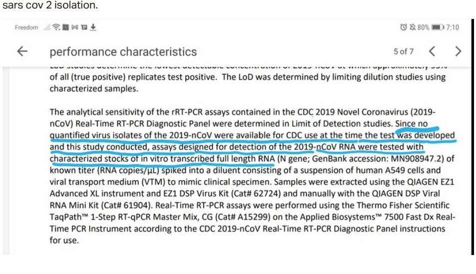
https://science.sciencemag.org/content/367/6485/1444



> "SARS-CoV transmission electron microscopy. In the supernatant of SARS-CoV infected cytopathic Vero E6 cells, characteristic virus particles can be found.
>
> The diameter of the viruses ranges between 60 nm and 120 nm and the virus shapes are round or oval. There are many protrusions from the envelope which are arranged in order with wide gaps between them.
>
> There are also many virus particles in the infected cells present. They often form a virus vesicle with an encircling membrane. A: Higher magnification B: Lower magnification.
>
> Scale bars represent 100 nm. Reproduced with permission from Acta Biochimica et Biophysica Sinica 2003, 35(6):587–591 [126]."

https://www.researchgate.net/figure/SARS-CoV-transmission-electron-microscopy-In-the-supernatant-of-SARS-CoV-infected_fig3_8070538

Additionally, tons of claims are going around from laypersons falsely interpreting the info around sars cov 2 isolation.

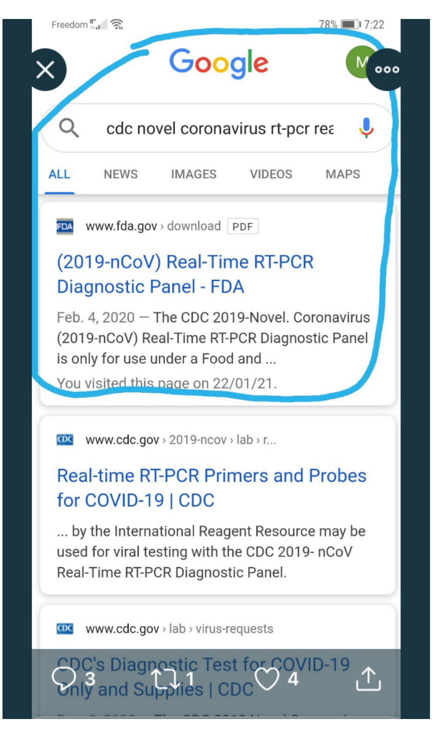

performance characteristics 5 of 7

of all (true positive) replicates test positive. The LoD was determined by limiting dilution studies using characterized samples.

The analytical sensitivity of the rRT-PCR assays contained in the CDC 2019 Novel Coronavirus (2019-nCoV) Real-Time RT-PCR Diagnostic Panel were determined in Limit of Detection studies. Since no quantified virus isolates of the 2019-nCoV were available for CDC use at the time the test was developed and this study conducted, assays designed for detection of the 2019-nCoV RNA were tested with characterized stocks of in vitro transcribed full length RNA (N gene; GenBank accession: MN908947.2) of known titer (RNA copies/µL) spiked into a diluent consisting of a suspension of human A549 cells and viral transport medium (VTM) to mimic clinical specimen. Samples were extracted using the QIAGEN EZ1 Advanced XL instrument and EZ1 DSP Virus Kit (Cat# 62724) and manually with the QIAGEN DSP Viral RNA Mini Kit (Cat# 61904). Real-Time RT-PCR assays were performed using the Thermo Fisher Scientific TaqPath™ 1-Step RT-qPCR Master Mix, CG (Cat# A15299) on the Applied Biosystems™ 7500 Fast Dx Real-Time PCR Instrument according to the CDC 2019-nCoV Real-Time RT-PCR Diagnostic Panel instructions for use.

It has absolutely been isolated. The claims that it hasnt have been clarified.

That document is the CDC PCR test INSTRUCTIONS!



To assess the test performance, they used a method OTHER than "quantified isolates"

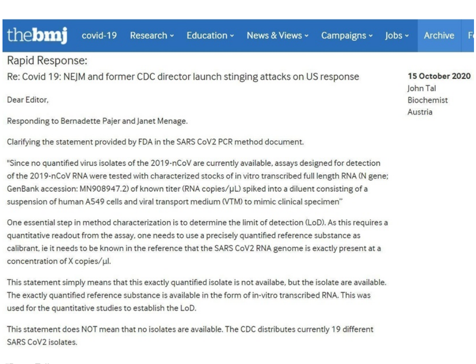
Explained here (& see pics

https://bmj.com/content/371/bmj.m3925/rr-3

CDC isolated virus

Their work described here

https://wwwnc.cdc.gov/eid/article/26/6/20-0516_article


Rapid Response:

Re: Covid 19: NEJM and former CDC director launch stinging attacks on US response

15 October 2020
John Tal
Biochemist
Austria

Dear Editor,

Responding to Bernadette Pajer and Janet Menage.

Clarifying the statement provided by FDA in the SARS CoV2 PCR method document.

"Since no quantified virus isolates of the 2019-nCoV are currently available, assays designed for detection of the 2019-nCoV RNA were tested with characterized stocks of in vitro transcribed full length RNA (N gene; GenBank accession: MN908947.2) of known titer (RNA copies/µL) spiked into a diluent consisting of a suspension of human A549 cells and viral transport medium (VTM) to mimic clinical specimen"

One essential step in method characterization is to determine the limit of detection (LoD). As this requires a quantitative readout from the assay, one needs to use a precisely quantified reference substance as calibrant, ie it needs to be known in the reference that the SARS CoV2 RNA genome is exactly present at a concentration of X copies/µl.

This statement simply means that this exactly quantified isolate is not availabe, but the isolate are available. The exactly quantified reference substance is available in the form of in-vitro transcribed RNA. This was used for the quantitative studies to establish the LoD.

This statement does NOT mean that no isolates are available. The CDC distributes currently 19 different SARS CoV2 isolates.

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A very simple analogy:

apples = SARS CoV2 isolates

Do you have apples available?

Yes

Do you have buckets of exactly 50 apples available?

No

But you do have apples in store?

Yes, we do and we sell them in buckets, but some buckets contain as little as 40 apples and some may contain up to 60 apples."

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https://tinyurl.com/y8xfv3bs

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full "Symbols of Power" Linguistic Occult Symbolism film series for so much more.
https://tinyurl.com/ybmbw9bj

Government & ~~Cons~~ ~~piracy~~ playlist!

https://tinyurl.com/y9mvqxbg

All Lifting The Veil's videos

https://tinyurl.com/y7zv9qae

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https://teespring.com/stores/lifting-the-veil?page=1

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SEE YOU SOON!

MUCH LOVE, PEACE AND #WISDOM!

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Paypal

https://www.paypal.com/pools/c/80CrErBse9

Ethereum:

0xbbda2c6111001ddbd204f39e826fb0401383852c

-------social media links----------------:

YOUTUBE:

MAIN CHANNEL https://tinyurl.com/y7apd59e

My second Livestream channel: https://tinyurl.com/ybxcnt8w

facebook: https://tinyurl.com/ya5dkssb

facebook personal: https://tinyurl.com/y84jfgsp

steemit: https://tinyurl.com/yacx4n8q

DTube: https://tinyurl.com/y7aht4qm

BitChute: https://tinyurl.com/ya2fqshh

twitter: https://tinyurl.com/ycqr9ltn

Instagram: https://tinyurl.com/y93zolqe

minds: https://tinyurl.com/ycgkdpo5

Onstellar: https://tinyurl.com/yawwr284

MeWe : https://mewe.com/p/liftingtheveil

biological warfare biology biotech biowarfare conspiracy coronavirus covid19 disinformation fake news false flags nwo physiology plandemic psyops science truth

4 Likes

Monad of Creation 8mo

thank you. a lot of people are spreading the exomes myth. hail.

1

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 4mo

https://twitter.com/chris_f_carson/status/1325329929978867713?s=21

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 4mo

the theoretical virus has never been isolated"

EXCEPT here

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

Identification of Coronavirus Isolated from a Patient in Korea with COVID-19 https://t.co/J1zZQAmMAd?amp=1

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

A Novel Coronavirus from Patients with Pneumonia in China, 2019 https://www.nejm.org/doi/pdf/10.1056/NEJMoa2001017

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

Severe Acute Respiratory Syndrome Coronavirus 2 from Patient with Coronavirus Disease, United States https://wwwnc.cdc.gov/eid/article/26/6/20-0516_article

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

Isolation and rapid sharing of the 2019 novel coronavirus (SARS-CoV-2) from the first patient diagnosed with COVID-19 in Australia https://pubmed.ncbi.nlm.nih.gov/32237278/

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

https://l.facebook.com/l.php?u=https%3A%2F%2Ftheconversation.com%2Fi-study-viruses-how-our-team-isolated-the-new-coronavirus-to-fight-the-global-pandemic-133675%3Ffbclid%3DIwAR0okmhnPJ8pas1UJ_MoWwjsH6RkjkVtSrOul7KMdgeh2rT4PXf2hjefx0A&h=AT3Ru4xiWhQe_cFEGRwugs8h-wR56hT28lYe6kfsiUDRugsPnO8jFelmJ6mOa5QZmR9Mfzc3x68lbWCmFvxLTrGs6DPITZnwA-l9jAEpLsT1VFPAuwJAD5Jx5HYOc7vjX7JCfNs08A&__tn__=-UK-y-R&c[0]=AT3v-CQryGdLPxvPXiRf5kDCtx-fDHTwqMjj9uG38LKuG5XRJvOapo9_bQ-4yi9UlI6YHTewD_DHPXKlKj8JtjVYvQG4rbb3C_ERxra2Hlo828kgRfgh5OBn-kBZVJgNeDU8SN61PaW37dw0tVEq8HNDgZ27srm0zorP-UOXMQDtjgftrqkxG3JxSlpc4NOM_VZuc26YzX4c9lID

ŁIFŤIŇĜ ŤĦΣ √ƎIŁ 20h

Molecular characterization of SARS-CoV-2 from the first case of COVID-19 in Italy

https://www.clinicalmicrobiologyandinfection.com/article/S1198-743X(20)30170-1/fulltext?fbclid=IwAR0AHACMHPoaEJYMyjLnUet6YbvvqV6zaXYt5_Pt1kRlxM05zAWDG1PN98Y

ŁÌ₣†ÌⱤ₦₵ †ⱧΣ √ⱠÌŁ 6h

the study that used fetal bovine serum as viral transport medium to isolate and purify sars cov 2. CONTAMINATION CLAIMS DEBUNKED.

STERILE. HEAT INACTIVATED BOVINE SERUM. https://www.cdc.gov/coronavirus/2019-ncov/downloads/Viral-Transport-Medium.pdf?fbclid=IwAR04CAMGDIOWiweSVGbZHogl6PGScw8ellxfq4PaolPN_Kk4zBC2C0vgc_0

can you please read what sterile and heat inactivated means please?

heat inactivated bovine serum is heat inactivated to sterilize it.

you cannot culture a sample to be purified without somethingl, a substrate for the viral sample to culture in. i assure you dude, theyre not confusing bovine dna for coronavirus rna.

"Alternatively, a quantitative analysis of the chemical composition of the media might make it possible to estimate which RNAs are secreted by the cells of interest by filtering out known FBS RNAs from the total RNA pool."

theyre not confusing sars cov rna with FBS RNA

"Heat treatment was also advocated in the past as a risk mitigation approach for achieving pathogen (especially mycoplasma and virus) reduction in serum. "

"It has been showniii that mycoplasma and certain viruses (including such known contaminants of bovine serum as bovine viral diarrhea virus, parainfluenza type 3, infectious bovine rhinotracheitis, reovirus type 3, and adenovirus) are rendered essentially non-infectious at the temperatures/treatment times used for heat-inactivation.

There are, however, other ways of inactivating such potential contaminants that are less potentially damaging to the serum (see our article on gamma irradiation of serum for risk mitigation, for instance). "
https://www.rmbio.com/heat-inactivation-of-fetal-bovine-and-other-animal-serum#:~:text=Heat-inactivation%20of%20fetal%20bovine%20serum%20and%20other%20animal,and%20strictly%20maintaining%20that%20condition%20for%2030%20minutes.

ANTIFUNGAL IS NOT A CONTANIMATION OF A LATER PURIFIED SAMPLE, it is to PREVENT FUNGAL CONTAMINATION of a sample.

Gentamicin sulfate (50mg/mL) (or similar antibiotic at an appropriate concentration to prevent bacterial contamination and growth)

6.14 Amphotericin B (250µg/mL) (Fungizone) (or similar antifungal at an appropriate concentration to prevent fungal contamination and growth)

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Currency: USD

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