

Virology 101

Drs. Mary Hauser and Jennifer Smith present an overview of the field of virology



JENNIFER SMITH, PHD

FEB 06, 2024



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This information was presented to members of [PANDA](#), Pandemic Data and Analytics, in October 2022. PANDA was established in April 2020 by a group of multidisciplinary professionals, who perceived the global reaction to COVID - from lockdowns to mandates - as overwrought and damaging to the point of causing a great tear in the fabric of society.

PANDA is a multidisciplinary, sense-making group of global experts who encourage good science, rational debate and sound public policy, with the aim of empowering people to make informed decisions.

In this presentation, virologists Dr. Mary Hauser and Dr. Jennifer Smith gave an overview of the field of virology, covering the basics from virus structure to the mechanisms of viral infections and how virologists isolate and study viruses.

Virology | Mary Hauser, PhD and Jennifer Smith, PhD



"One of the myths that was perpetuated over the last few years is that SARS-CoV-2 was a novel coronavirus, something we haven't seen before, and that is false."

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christinem@fluoridefreepeel.ca

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Christine Massey FOIs Christine Massey's "germ" FOI N... Mar 29

Drs. Tom Cowan and Mark Bailey responded with their own video:

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

My own comments (and yes they are mine own, based on my own investigation into the pseudoscience):

A very thorough demonstration of logical fallacies at work, i.e. reification, appeal to authority, bandwagon, circular reasoning. These woman either want you confused/misled, or they somehow fail to grasp the need for valid independent and dependent variables in hypothesis testing, and that finding sequences and/or proteins doesn't tell you that they are "viral" in origin. They seem to think that condescendingly repeating the words "virus" and "viral" enough times is going to convince people. Unreal. This is on par with declaring that Santa and elves exist and were "isolated" based on men in red outfits at the mall, presents under Christmas trees and cookies crumbs on kitchen tables.

Truly astounding to hear them imply that intact so-called "viral genomes" have been found, and especially to hear them claim that "viruses" can be "isolated" directly from "hosts" when literally every single one of 222 institutions that were challenged to cite evidence of such for "SARS-COV-2" failed, and all challenges re other imaginary "viruses" also failed:

<https://www.fluoridefreepeel.ca/fois-reveal-that-health-science-institutions-have-no-record-of-any-virus-having-been-isolated-purified-virology-isnt-a-science/>

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Jennifer Smith, PhD Mar 29 · edited Mar 29  Author

So do you believe the entire field of immunology is also fake? How do you account for virus specific antibodies? What you are doing is quite dangerous, insinuating that microorganisms do not exist. Have you not ever been sick once in your entire life?

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Christine Massey FOIs Christine Massey's "germ" FOI N... Mar 29

Why are you trying to put words in my mouth instead of responding to what I actually wrote? I've never said that microorganisms don't exist. And lol, declaring antibodies are "virus specific" is not valid evidence that "viruses" exist or that antibodies are specific. It's almost as if you didn't even read my comment re your logical fallacies. You first need to show that a "virus" exists, which you haven't even come close to doing.

People getting sick is not the issue, the issue is the alleged cause. I'm not sure how you could possibly be serious with these irrelevant questions.

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Jennifer Smith, PhD Mar 29 📌 Author

My colleagues and I have dealt with many people like you who do not believe viruses exist. I don't think there is anything I can do to you to change your position. I can tell you all about how I have sucrose gradient purified viruses by ultracentrifugation and viewed virus particles by electron microscopy. I can tell you I have colleagues who are working with SARS viruses in animal models. Nothing will convince you. So you tell me as an expert in whatever you think you are an expert in, how would you like a virologist to show you that viruses exist?

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Christine Massey FOIs Christine Massey's "germ" FOI N... Mar 31

Hi Jennifer, I suggest you review the video response from Drs Bailey and Cowan, or read the first page of the Settling the Virus Debate Challenge (of which I'm a signatory) if you still don't know what is required to scientifically show the existence of a "virus". Scientific evidence requires application of the scientific method, and we've yet to find any for any alleged "virus":

<https://drsambailey.com/resources/settling-the-virus-debate/>

Simply having EM images of (allegedly) purified particles isn't enough to demonstrate a "virus". You'd also need rigorous valid controlled experiments (where the purified particles are the IV) to show disease causation and replication-competence, and valid experiments showing contagion.

And rigorous controls need to be implemented every step of the way during "sequencing" and characterization. We've seen how "sequencing" works in virology - meaningless "genomes" are made up in silico and never found intact.

Having said that, I'm skeptical that you'd be even be able to show the first step - alleged "virus" particles that were purified from "hosts", since the CDC and Mount Sinai Hospital in Toronto already confessed in official communications that this is never done in virology and it's clear from the literature that it isn't done, and we have literally hundreds of failed freedom of information responses on the topic.

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Jennifer Smith, PhD 10 hrs ago · *edited 10 hrs ago* 🔒 Author

As someone who holds only a MSc in Geology, I would not expect you to understand the field of virology. I am well aware of those people and their supposed arguments. Who are they that anyone has to prove anything to them or you?! I am not going to waste my time on this ridiculous argument. I spent many years studying viruses and many more working with them in a laboratory and in animal models. If they or anyone else wants to know how it is done, then go spend the time and learn for yourself. I am well aware of the scientific rigor that is required to perform experiments in an ethical manner and the use of proper controls. Your argument is baseless. Keep in mind that clinical virology and scientific research are different practices. What do you think made millions of people sick? Best of luck to you.

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Christine Massey FOIs Christine Massey's "germ" FOI N... 4 hrs ago · *edited 4 hrs ago*

So you're not going to cite any evidence of alleged "virus" particles being purified from "hosts", because it would be a "waste of time"? That's strange, especially for someone who went out of their way to do an entire video to convince people that virology is legit.

No idea where you get the idea that I have a MSc in geology, but it's irrelevant anyways. There is nothing complicated about logic and the scientific method and both are missing the

methodologies employed by virologists. The methods aren't hidden and they've been discussed at great lengths. You don't even have a valid independent variable to work with, so no scientific investigation is possible.

I'll be publishing our conversation and am quite happy to give you another chance to cite some evidence.

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Jennifer Smith, PhD 4 hrs ago  Author

You are making a lot of assumptions without validation. I have always used proper controls in every experiment I have performed whether in cell culture or animal models. I'm not certain what you are basing your assumption that virologists don't use proper controls. That being said, I have spent a lot of time and money gaining the knowledge and experience that I have in the field of virology. I could spend hours typing out protocols and explaining the whole field to you, however time is money. FOIAs mean nothing. No will take the time out of important work to reply to someone who is not paying them and is on a witch hunt. Are you or someone else going to pay me to take the time to educate you? Watch the video again. It was all distilled down as a primer for the field of virology. My colleague and I went through all this debate a couple years ago. It will always be circular and we will never be able to satisfy you and your colleagues. Here is my stance: 1. There was/is a virus (SARS). 2. People did get ill 3. Some people did die. Here is the caveat: was it as deadly as it was made out to be? NO. The response was not proportionate to the threat. The virus was a TOOL used to implement the new biosecurity state. Instead of arguing semantics, my time is more well spent fighting the implementation of the IHR and draconian measures of public health. The public policy should be the most important issue to argue and push

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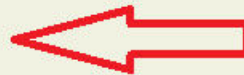
health. The public policy should be the most important issue to argue and push back against. I can't tell you how to spend your time but I believe you are wasting it on this unscientific argument.



Hi Jennifer. I don't get paid to spend my time on this, I do it because of the enormous consequences of this false paradigm. Immeasurable carnage has occurred for well over 100 years based on belief in "viruses". Were you paid for your presentation posted above?

Your slides claim at the 14 minute mark in your video that "viruses can be isolated directly from the host", while Mary stated verbally that it's very difficult to do so. Neither of you seem to grasp that purification of particles from hosts is necessary in order to perform

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