# The Orf Report

# **"COVID COVER UP"**

# **Animation - Primary Sources**

Matt Orfalea

Jul 24, 2023

Feb 1, 2020, <u>email</u> from Anthony Fauci to Jeremy Farrar. "I just got off the phone with Kristian Anderson and he related to me his concern about the Furine site mutation in the spike protein of the currently circulating 2019-nCoV..."

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From:	Fauci, Anthony (NIH/NIAID) [E]
Sent:	Sat, 1 Feb 2020 00:38:35 +0000
To:	Jeremy Farrar
Cc:	Kristian G. Andersen
Bcc: (NIH/NIAID) [E]	Conrad, Patricia (NIH/NIAID) [E];Mascola, John (NIH/VRC) [E];Conrad, Patricia
Subject:	RE: Phone call

Jeremy:

Best regards, Tony

Anthony S. Fauci, MD Director National Institute of Allergy and Infectious Diseases Building 31, Room 7A-03 31 Center Drive, MSC 2520 National Institutes of Health Bethesda, MD 20892-2520 Phone: 00(6) FAX: (301) 496-4409 E-mail: 00(6)

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From: Jeremy Farrar Sent: Friday, January 31, 2020 5:57 PM 
 From:
 Fauci, Anthony (NIH/NIAID) [E]

 Sent:
 Sat, 1 Feb 2020 00:38:35 +0000

 To:
 Jeremy Farrar

 Cc:
 Kristian G. Andersen

 Bcc:
 Conad, Patricia (NIH/NIAID) [E],Mascola, John (NIH/VRC) [E];Conrad, Patricia (NIH/NIAID) [E]

 Subject:
 RE: Phone call

### Jeremy:

I just got off the phone with Kristian Anderson and he related to me his concern about the Furine site mutation in the spike protein of the currently circulating 2019-nCoV. I told him that as soon as possible he and Eddie Holmes should get a group of evolutionary biologists together to examine carefully the data to determine if his concerns are validated. He should do this very quickly and if everyone agrees with this concern, they should report it to the appropriate authorities. I would imagine that in the USA this would be the FBI and in the UK it would be MI5. It would be important to quickly get confirmation of the cause of his concern by experts in the field of coronaviruses and evolutionary biology. In the meantime, I will alert my US. Government official colleagues of my conversation with you and Kristian and determine what further investigation they recommend. Let us stay in touch.

Best regards, Tony

Anthony S. Fauci, MD Director National Institute of Allergy and Infectious Diseases Building 31, Room 7A-03 31 Center Drive, INSC 2520 National Institutes of Health Bethesda, MD 20892-2520 Phone: FAX: (301) 496-4409 E-mail: (0) (6) The Information in this e-mail and any of its attachments is confidential and may contain sensitive

Information. It should not be used by anyone who is not the original intended recipient. If you have received this e-mail in error please inform the sender and delete it from your mailbox or any other storage devices. The National Institute of Allergy and Infectious Diseases (NIAID) shall not accept liability for any statements made that are the sender's own and not expressly made on behalf of the NIAID by one of its representatives.

From: Jeremy Farrar (b) (6) Sent: Friday, January 31, 2020 5:57 PM

Kristian Andersen on the laboratory-accident hypothesis for the origin of COVID-19, <u>02/02/2020</u> (i.e., \*after\* writing the first draft of "Proximal Origins"): "The main issue is that accidental escape is in fact highly likely–it's not some fringe theory."

### Andrew Rambaut 04:55 Hi Kristian,

#### February 2nd, 2020 ×

I missed this this morning otherwise I would have held off on the reply to Ron. I will take a look and let you know. [edited]

#### Kristian Andersen 09:44

REferences and worked work of the second sec unlikely and not something they want to consider. The main issue is that accidental escape is in fact highly likely - it's not some fringe theory. I absolutely agree that we can't prove one way or the other, but we never will be able to - however, that doesn't mean that by default the data is currently much more suggestive of a natural origin as opposed to e.g. passage. It is not - the furin cleavage site is very hard to explain.

I think my initial attempt at writing up a summary was ok, but I'm not happy with it - it's not really getting to the point. I'll rejig it this morning, go climbing, and then come back to it around noon PT. Maybe Eddie can then send it over to Jeremy later today - I don't think we should reply back on the current thread as he effectively shut down the discussion there and I think will just lead to a shouting match - Christian and Ron made it clear that they think this is a crackpot theory.

Andrew Rambaut 1029

I just had a phone call from Mark Perkins as WHO who was asking me about the HIV paper - the DG had rung him and wanted to know if it was true. Toki Mark it was complete bollocks and why it was. But twitter is going crazy. @ @ # Q :

#### Kristian Andersen 10:40

- **Result Numerous** notes that the second of the second seco bollocks. My fear is that the likes of Christian and Ron puts the question that's being asked here into the same category - I'm pretty sure by now they think I'm a complete crackpot.
- Robert Garry 10:48
- was added to paper-2020-nature\_medicine-proximal\_origin by Kristian Andersen.
- Andrew Rambaut 11:10 February 2nd, 2020 
  Febru

Kristian Andersen 11:54 Interesting. Tim all for GGF experiments, I think they're really important" - however performing these in BSL-3 (or less) is just completely nuts! IMO it has to be performed at BSL-4 with extra

1 have evolved a bit on this point. I used to think they're really important, but I'm actually not so sure anymore. I thought it was really important that we understood whether e.g., avian influenza could be transmissible between humans - and importantly which steps (and how many) would need to be involved - but honestly I'm not sure that type of knowledge is at all actionable, while, of course, being exceptionally dangerous. It only takes one mistake.

#### Kristian Andersen 11:15

Kristian Numersen 1113 @Andrew Rambaut to this comment - "I think we should write a parallel document about scenarios for natural origins. The two things can be considered completely independently". Yup, totally agree. I'll take that whole section out of the document and write it all differently. Do you maybe want to take a stab on getting the other document started based on your points from the email: 1 6

💄 1 reply 3 years ago

#### Andrew Rambaut 11:16

Andrew Kamawu 11100 Yes my feeling is you have to consider the cost benefit for every experiment. And do it safely.

### Kristian Andersen 11:47

February 2nd 2020 ~ Notant private set 1007 this is unnatural (which is understandable), but except for the most simple scenario where somebody plugged a gene into a preexisting backbone, that would simply be impossible to prove

~ ~ ~ n ·

. . .

Natural selection and accidental release are both plausible scenarios explaining the data - and a priori should be equally weighed as possible explanations. The presence of furin a posteriori moves me slightly more towards accidental release, but it's well above my paygrade to call the shots on a final conclusion.

Andrew Rambaut 11:53 Given the shit show that would happen if anyone serious accused the Chinese of even accidental release, my feeling is we should say that given there is no evidence of a specifically engineered virus, we cannot possibly distinguish between natural evolution and escape so we are content with ascribing it to natural processes.

### Kristian Andersen 11:56

Wight have been too we were that that's a very reasonable conclusion. Although I hate when politics is injected into science - but it's impossible not to, especially given the circumstances. We should be sensitive to that, (plus none of this matters at the moment)

Separately - having all of these discussions is really critical to countering ALL the friggin' bullshit coming out and at the end of the day, that's probably the most important things that'll come out of

The latest being two novel viruses circulating... https://www.bioxiv.org/content/10.1101/2020.01.30.926477v1

(I'm starting to think that for outbreak research, the bioRxiv really needs to start screening submissions - it's a slippery slope, but it's justified at this stage)

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	bR bioRxiv		
	Evolution and variation of 2019-novel coronavirus		
	Background: The current outbreak caused by novel coror	avirus (2019-nCoV) in China	
	has become a worldwide concern. As of 28 January 2020	, there were 4631	
	confirmed cases and 106 deaths, and 11 countries or reg	ions were affected.	
	Methods: We downloaded the genomes of 2019-nCoVs	and similar isolates from the	
	Global Initiative on Sharing Avian Influenza Database (GI	SAID and nucleotide	
	database of the National Center for Biotechnology Inform	nation (NCBI). Lasergene 7.0	
	and MEGA 6.0 softwares were used to calculate genetic	distances of the sequences,	
	to construct phylogenetic trees, and to align amino acid s	equences. Bayesian	
	coalescent phylogenetic analysis, implemented in the BE	AST software package, was	
	used to calculate the molecular clock related characterist	ics such as the nucleotide	
	substitution rate and the most recent common ancestor	(tMRCA) of 2019-nCoVs.	
	Results: An isolate numbered EPI\_ISL\_403928 showed	different phylogenetic trees	
	and genetic distances of the whole length genome, the ca	oding sequences (CDS) of	
	ployprotein (P), spike protein (S), and nucleoprotein (N) fr	om other 2019-nCoVs.	
	There are 22, 4, 2 variations in P, S, and N at the level of a	amino acid residues. The	
	nucleotide substitution rates from high to low are 1.05 ×	10-2 (nucleotide	
	substitutions/site/year, with 95% HPD interval being 6.2	7 × 10-4 to 2.72 × 10-2) for	
	N, 5.34 × 10-3 (5.10 × 10-4, 1.28 × 10-2) for S, 1.69 × 10	)-3 (3.94 × 10-4, 3.60 × 10-	
	3) for P, 1.65 × 10-3 (4.47 × 10-4, 3.24 × 10-3) for the w	hole genome, respectively.	

February 1, 2020, email transcribed and published by the House Oversight Committee:

From Bob [Garry]:

Before I left the office for the ball, I aligned nCoV with the 96% bat CoV sequenced at WIV. Except for the RBD the S proteins are essentially identical at the amino acid level – well all but the perfect insertion of 12 nucleotides that adds the furin site. S2 is over its whole length essentially identical. I really can't think of a plausible natural scenario where you get from the bat virus or one very similar to it to nCoV where you insert exactly 4 amino acids 12 nucleotide that all have to be added at the exact same time to gain this function – that and you don't change any other amino acid in S2? I just can't figure out how this gets accomplished in nature. Do the alignment of the spikes at the amino acid level – its stunning. Of course, in the lab it would be easy to generate the perfect 12 base insert that you wanted. Another scenario is that the progenitor of nCoV was a bat virus with the perfect furin cleavage site generated over

2

evolutionary times. In this scenario RaTG13 the WIV virus was generated by a perfect deletion of 12 nucleotides while essentially not changing any other S2 amino acid. Even more implausible IMO.

Jeremy Farrar, organizer and uncredited contributor to "Proximal Origin", wrote in his <u>book</u> that Andersen found a scientific paper that "looked like a how-to manual for building the Wuhan coronavirus in a laboratory...Fuck, this is bad,' was Eddie's first reaction to Kristian's observations. His second instinct was to call me on the burner phone."

technique had been used to modify the spike protein of the original SARS-CoV-1 virus, the one that had caused the SARS outbreak of 2002/3. At first glance, the paper Kristian had unearthed looked like a how-to manual for building the Wuhan coronavirus in a laboratory. The pair knew of a laboratory where researchers had been experimenting on coronaviruses for years: the Wuhan Institute of Virology, in the city at the heart of the outbreak.

'Fuck, this is bad,' was Eddie's first reaction to Kristian's observations. His second instinct was to call me on the burner phone.

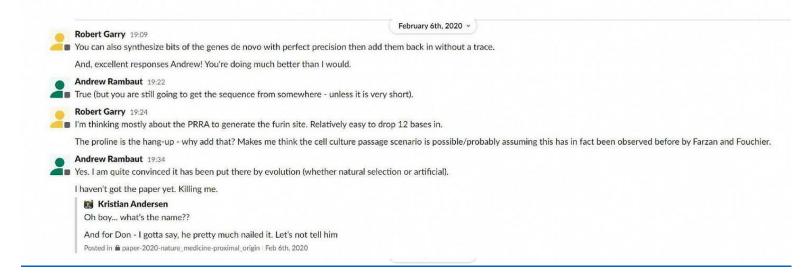
February 1, 2020, Eddie Holmes and the rest discussed how elements of the virus look <u>"exactly what was expected by engineering"</u>.

	Kristian Andersen 13:43 Yup	February 1st, 2020 ×	
	What does the region around that site look like in your previous alignments?	2	
	Kristian Andersen 13:49 As for the BamHI site, it's a single synonymous transition. The conservation	downstream of it is typical for other sequences here, so also not unexpected.	
P	Eddie Holmes 13:51 Whatever has happened here, the virus became very quickly loaded for hum	ian transmission.	ଟ୍  କ୍  ନ  ଯ :
	Kristian Andersen 13:51 So I think we can say that (1) hyper mutation and (2) restriction site are both ascertainment bias.	n consistent with evolutionary theory. (3) furin site is peculiar and (for now) unexpected, but we	
	Yes - that could definitely be due to the RBD mutations + furin		
P	Eddie Holmes 13:52 But they would also be exactly what was expected by engineering		
2.	Andrew Rambaut 13:52 It will be interesting to know what Ron thinks. He is not going to want it to b	be a GOF escape.	
	Kristian Andersen 13:52 Question is - evolution or engineering. My problem is that both really rather	plausible.	
	Yup		
	Ron will likely bush back hard - which is fine.	↓ Latest messages	

February 2, 2020, Rambaut discussed omitting the likely possibility of a lab leak to avoid a political "shit show". Andersen said, "I totally agree."

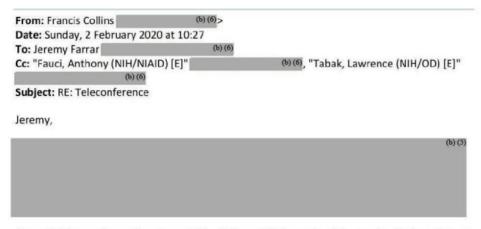
200 C	Kristian Andersen 11:47	February 2nd, 2020 ~	
		nuch everything he's saying - I come to the same conclusions. Where we differ is the he most simple scenario where somebody plugged a gene into a preexisting backb	
	Natural selection and accidental release are both plausible me slightly more towards accidental release, but it's well a	scenarios explaining the data - and <i>a priori</i> should be equally weighed as possible e pove my paygrade to call the shots on a final conclusion.	explanations. The presence of furin a posteriori moves
	Andrew Rambaut 11:53		
		ccused the Chinese of even accidental release, my feeling is we should say that giv ution and escape so we are content with ascribing it to natural processes.	en there is no evidence of a specifically engineered
	Kristian Andersen 11:56		
	Yup, I totally agree that that's a very reasonable conclusion sensitive to that. (plus none of this matters at the moment	. Although I hate when politics is injected into science - but it's impossible not to, $\boldsymbol{\varepsilon}$	specially given the circumstances. We should be
	Separately - having all of these discussions is really critical this!	to countering ALL the friggin' bullshit coming out and at the end of the day, that's p	probably the most important things that'll come out of
	The latest being two novel viruses circulating https://www	w.biorxiv.org/content/10.1101/2020.01.30.926477v1	
	(I'm starting to think that for outbreak research, the bioRxi	v really needs to start screening submissions - it's a slippery slope, but it's justified	at this stage)
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	bR bioRxiv	1 COTAN 7 LINA, LOLO	
	Evolution and variation of 2019-novel coronavirus		
	Background: The current outbreak caused by novel cord	navirus (2019-nCoV) in China	
	has become a worldwide concern. As of 28 January 202		
	confirmed cases and 106 deaths, and 11 countries or re		
	Methods: We downloaded the genomes of 2019-nCoVs	-	

February 6, 2020, Rambaut: "I am quite convinced it has been put there by evolution (whether natural selection or artificial)."



Feb 2, 2020, NIH Director Collins emails Fauci and others, warning that a free and open debate about covid origins may do "great potential harm to science and the international harmony". GOP Oversight Committee <u>published</u> the previously redacted text.

## 2. Email from Dr. Francis Collins to Drs. Jeremy Farrar, Anthony Fauci, and Lawrence Tabak



I'm available any time today except 3:15 - 5:45 pm EST (on a plane) for a call to Tedros. Let me know if I can help get through his thicket of protectors.

Francis

... Though the arguments from Ron Fouchier and Christian Drosten are presented with more forcefulness than necessary, I am coming around to the view that a natural origin is more likely. But I share your view that a swift convening of experts in a confidence inspiring framework (WHO seems really the only option) is needed, or the voices of conspiracy will quickly dominate, doing great potential harm to science and international harmony...

Likewise, GOP Oversight Committee <u>published</u> redacted email text of NIH-funded gain of function researcher, Ron Fouchier saying the same: a debate about covid origins would "harm science".

3. Email from Dr. Andrew Rambaut to Drs. Jeremy Farrar, Anthony Fauci, Patrick Vallance, Christian Drosten, Marion Koopmans, Edward Holmes, Kristian Andersen, Paul Schreier, Mike Ferguson, Francis Collins, and Josie Golding

Cc:	(6) (6)	>, "Fauci, Anthony (NIH/N	IAID) [E]"
	(b) (6), Patrick Vallance	(b) (6)>, "Droster	
Christian"	(b)(6), Marion Koopman		(6) (6)
Edward Holmes		(b) (6)	
	(b) (6), "Kristian G. Andersen"	(b) (6), Paul Schreie	
		(b) (6) Michael	I FMedSci
	(b) (6) >, Francis Collins	(6) (6)	
		e Golding	
	(6) (6)		
Subject: Re: Tele	econference		
Dear Jeremey, Ro	n and all,		
Thanks for inviting	g me on the call vesterday.		(b) (5) (b) (3
			69 C
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Best,			(b) (
Best, Andrew			(b) (
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Andrew - I do not w what is utionary p sual is the missing so ination wo ure arose b	have any experience of labores s likely or not in that co- point of view the only thin furin cleavage site. It strong omething important in the buld be that it is a missing h	pratory virology ontext. From a g here that strik gly suggests to n origin of the host species in v that host. We ca	gnostic of and dor (natura ces me ne that v virus. M vhich th an see th

Eddie Holmes tells the story of how he exclaimed "Oh my god," thinking it wasn't just 60/40 likelihood of lab leak/natural but 80/20. "I thought it might have been 80/20 at some point but that phase lasted like 3 days, and then very quickly I changed my mind, bc of the data."

Holmes explains his questionable evolution: "My colleagues at the University of Hong Kong emailed me and said I've got this sequence of a pangolin, it's kind of close...suddenly the pangolin, the same sequence, more or less is there...there it is in nature...that must be natural."

Source: <a href="https://censorednews.substack.com/p/covid-covier-up-animation-primary">https://censorednews.substack.com/p/covid-covier-up-animation-primary</a>

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