

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Jeremy Farrar](#)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Tuesday, February 4, 2020 6:23:47 AM

---

(b) (5) Very thoughtful summary and analysis. We really need to get WHO moving on getting the convening started.

---

**From:** Collins, Francis (NIH/OD) [E] (b) (6)  
**Sent:** Tuesday, February 4, 2020 6:12 AM  
**To:** Jeremy Farrar (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

Yes, (b) (4)  
Francis

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Tuesday, February 4, 2020 6:08 AM  
**To:** Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

(b) (4)

On 4 Feb 2020, at 10:58, Collins, Francis (NIH/OD) [E] (b) (6) wrote:

Very thoughtful analysis. (b) (4)

(b) (4)

Francis

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Tuesday, February 4, 2020 2:01 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)

**Subject:** FW: Prevalence of infection and stage of the epidemic in Wuhan  
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Pushing WHO again today

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Will finish as soon as we can.

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**PROFESSOR EDWARD C. HOLMES FAA FRS**

ARC Australian Laureate Fellow

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School of Life & Environmental Sciences and School of Medical Sciences,  
The University of Sydney | Sydney | NSW | 2006 | Australia

T (b) (6)

E (b) (6)

**From:** [Tabak, Lawrence \(NIH/OD\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Tuesday, February 4, 2020 6:26:53 AM

---

Francis,

(b) (4)

Larry

---

**From:** Francis Collins (b) (6)  
**Date:** Tuesday, February 4, 2020 at 6:12 AM  
**To:** "Tabak, Lawrence (NIH/OD) [E]" (b) (6)  
**Subject:** FW: Prevalence of infection and stage of the epidemic in Wuhan  
More...

---

**From:** Collins, Francis (NIH/OD) [E]  
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T

[REDACTED] (b) (6)

E

[REDACTED] (b) (6)

**From:** [Jeremy Farrar](#)  
**To:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Tuesday, February 4, 2020 9:07:10 AM

---

Exactly!

---

**From:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)  
**Date:** Tuesday, 4 February 2020 at 13:18  
**To:** Francis Collins (b) (6), Jeremy Farrar (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan  
?? (b) (4)

**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:** (b) (6)  
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T (b) (6)

E (b) (6)

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** names for WHO working group  
**Date:** Tuesday, February 4, 2020 7:36:52 AM

---

Francis:

(b) (5)

Thanks,

Tony

**Anthony S. Fauci, MD**  
**Director**  
**National Institute of Allergy and Infectious Diseases**  
**Building 31, Room 7A-03**  
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**From:** [Jeremy Farrar](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Tuesday, February 4, 2020 3:27:55 PM

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Wild West.....

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**From:** Francis Collins (b) (6)  
**Date:** Tuesday, 4 February 2020 at 20:23  
**To:** Jeremy Farrar (b) (6), "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan (b) (4)

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Tuesday, February 4, 2020 9:03 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
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Francis

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Francis

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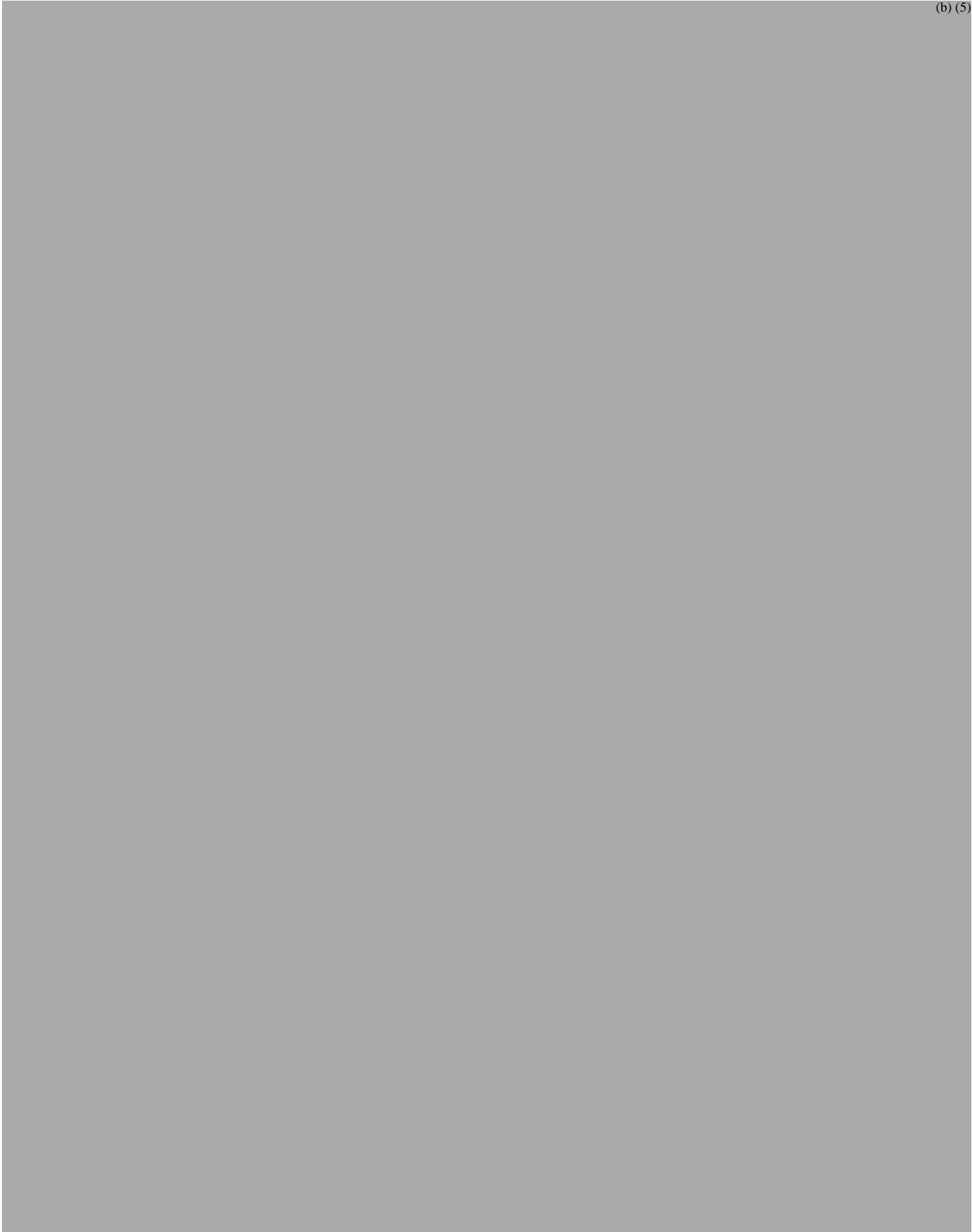
-----  
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**From:** [Jeremy Farrar](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Edward Holmes](#)  
**Subject:** FW: Origins  
**Date:** Wednesday, February 5, 2020 1:58:16 AM  
**Attachments:** [Summary.pdf](#)

---

Tony and Francis

The revised draft from Eddie, copied here.

(b) (5)













**From:** [Jeremy Farrar](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**Subject:** Origins  
**Date:** Tuesday, February 4, 2020 3:54:37 PM  
**Attachments:** [Summary.pdf](#)

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Tidied up

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**From:** [Jeremy Farrar](#)  
**To:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Cc:** [Josie Golding](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Wednesday, February 5, 2020 6:21:36 AM

---

Francis and Tony

Couple of things:

- I spoke again with WHO this morning. I believe they have listened and acted. Let me know if you agree
  - At the WHO meeting next week they will set up the Group who will “look at the origins and evolution of 2019n-CoV”
  - They have asked for names to sit on that Group – please do send any names
  - We can have a call this week with a core group of that to frame the work of the Group including – if you could join?
  - I think this puts it under the umbrella of WHO, with action this week and into next
  - With names to be put forward into the Group from us and pressure on this group from your and our teams next week.
- The team will update the draft today and I will forward immediately – they will add further comments on the glycans

Does that sound reasonable to you?

Jeremy

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Francis

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[REDACTED] (b) (6)

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T (b) (6)

E (b) (6)

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**To:** [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Wednesday, February 5, 2020 6:55:51 PM

---

My mistake. Sorry. Battle fatigue. I will write to Jeremy now and include her

**Anthony S. Fauci, MD**  
**Director**  
**National Institute of Allergy and Infectious Diseases**  
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**Sent:** Wednesday, February 5, 2020 6:39 PM  
**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

(b) (5)

FC

---

**From:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Sent:** Wednesday, February 5, 2020 5:25 PM  
**To:** Jeremy Farrar (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Josie Golding (b) (6); Tabak, Lawrence (NIH/OD) [E]  
(b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

Jeremy:

Thanks for the note. Looks like things are moving along with WHO. I will list below a number of names for potential members of the working group to examine the evolutionary origin of the 2019-nCoV in addition to the individuals who were on the call with us last Saturday:

Harold Varmus – Weill Cornell Medical Center – New York City  
Feng Zhang – MIT (CRISPR expert)  
Joseph DeRisi - Chan Zuckerberg (CZ) BioHub (he's paying close attention to the Wuhan strain vs other bat viruses and the SARS virus)  
Don Ganem - University of California at San Francisco (UCSF) and the CZ BioHub (knows more about hepadnaviruses but an outstanding clinical and basic virologist)  
John Coffin - Tufts and National Cancer Institute, NIH (worked out the confusion over the alleged Chronic Fatigue Syndrome retrovirus that proved to be a xenotropic MLV)  
Eugene Koonin - NCBI/National Library of Medicine, NIH;  
<https://www.ncbi.nlm.nih.gov/research/groups/koonin/>  
Wayne Hendrickson – Columbia University and the New York Structural Biology Center  
Gary Nabel – Sanofi (Boston)

Best regards,  
Tony

**Anthony S. Fauci, MD**  
**Director**  
**National Institute of Allergy and Infectious Diseases**  
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**From:** Jeremy Farrar (b) (6)  
**Sent:** Wednesday, February 5, 2020 6:21 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] <(b) (6)>; Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Josie Golding (b) (6)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

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**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

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**Sent:** Tuesday, February 4, 2020 6:08 AM  
**To:** Collins, Francis (NIH/OD) [E] [REDACTED] (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] [REDACTED] (b) (6)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

[REDACTED] (b) (4)

On 4 Feb 2020, at 10:58, Collins, Francis (NIH/OD) [E] [REDACTED] (b) (6) wrote:

Very thoughtful analysis. [REDACTED] (b) (4)

[REDACTED] (b) (4)

Francis

---

**From:** Jeremy Farrar [REDACTED] (b) (6)  
**Sent:** Tuesday, February 4, 2020 2:01 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] [REDACTED] (b) (6); Collins, Francis (NIH/OD) [E] [REDACTED] (b) (6)  
**Subject:** FW: Prevalence of infection and stage of the epidemic in Wuhan

Please treat in confidence – a very rough first draft from Eddie and team – they will send on the edited, cleaner version later.

Pushing WHO again today

---

**From:** Edward Holmes [REDACTED] (b) (6)  
**Date:** Tuesday, 4 February 2020 at 06:33  
**To:** Jeremy Farrar [REDACTED] (b) (6)

**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

Here's our summary so far. Will be edited further.

It's fundamental science and completely neutral as written. Did not mention other anomalies as this will make us look like loons. As it stands it is excellent basic science I think, which is a service in itself.

Will finish as soon as we can.

-----

-----

**PROFESSOR EDWARD C. HOLMES FAA FRS**

ARC Australian Laureate Fellow

**THE UNIVERSITY OF SYDNEY**

Marie Bashir Institute for Infectious Diseases & Biosecurity,  
School of Life & Environmental Sciences and School of Medical Sciences,  
The University of Sydney | Sydney | NSW | 2006 | Australia

T (b) (6)

E (b) (6)

**From:** [Jeremy Farrar](#)  
**To:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Cc:** [Josie Golding](#); [Tabak, Lawrence \(NIH/OD\) \[E\]](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Thursday, February 6, 2020 2:18:28 AM

---

Thank you. Pardis is great, respected by everyone – best wishes Jeremy

---

**From:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)  
**Date:** Thursday, 6 February 2020 at 00:00  
**To:** Jeremy Farrar (b) (6), Francis Collins (b) (6)  
**Cc:** Josie Golding (b) (6), "Tabak, Lawrence (NIH/OD) [E]" (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

Jeremy:

I left out an important name for the coronavirus evolution working group.  
Please include her: Pardis Sabeti at the Broad Institute of MIT and Harvard  
Thanks,  
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:** (b) (6)  
**FAX: (301) 496-4409**  
**E-mail:** (b) (6)

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---

**From:** Fauci, Anthony (NIH/NIAID) [E]  
**Sent:** Wednesday, February 5, 2020 5:25 PM  
**To:** Jeremy Farrar (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Josie Golding (b) (6); Tabak, Lawrence (NIH/OD) [E] (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

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Thanks for the note. Looks like things are moving along with WHO. I will list below a number of names for potential members of the working group to examine the evolutionary origin of the 2019-nCoV in addition to the individuals who were on the call with us last Saturday:

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Feng Zhang – MIT (CRISPR expert)

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Don Ganem - University of California at San Francisco (UCSF) and the CZ BioHub (knows more about hepadnaviruses but an outstanding clinical and basic virologist)

John Coffin - Tufts and National Cancer Institute, NIH (worked out the confusion over the alleged Chronic Fatigue Syndrome retrovirus that proved to be a xenotropic MLV)

Eugene Koonin - NCBI/National Library of Medicine, NIH;

<https://www.ncbi.nlm.nih.gov/research/groups/koonin/>)

Wayne Hendrickson – Columbia University and the New York Structural Biology Center

Gary Nabel – Sanofi (Boston)

Best regards,

Tony

**Anthony S. Fauci, MD**

**Director**

**National Institute of Allergy and Infectious Diseases**

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---

**From:** Jeremy Farrar (b) (6)

**Sent:** Wednesday, February 5, 2020 6:21 AM

**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E]

(b) (6)

**Cc:** Josie Golding (b) (6)

**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

Francis and Tony

Couple of things:

- I spoke again with WHO this morning. I believe they have listened and acted. Let me know if you agree
  - At the WHO meeting next week they will set up the Group who will “look at the origins and evolution of 2019n-CoV”
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  - With names to be put forward into the Group from us and pressure on this group from your and our teams next week.
- The team will update the draft today and I will forward immediately – they will add further comments on the glycans

Does that sound reasonable to you?

Jeremy

---

**From:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)

**Date:** Tuesday, 4 February 2020 at 13:18

**To:** Francis Collins (b) (6), Jeremy Farrar (b) (6)

**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

?? (b) (4)

**Anthony S. Fauci, MD**

**Director**

**National Institute of Allergy and Infectious Diseases**

**Building 31, Room 7A-03**

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---

**From:** Collins, Francis (NIH/OD) [E] (b) (6)  
**Sent:** Tuesday, February 4, 2020 6:12 AM  
**To:** Jeremy Farrar (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

Yes, (b) (4)

Francis

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Tuesday, February 4, 2020 6:08 AM  
**To:** Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

(b) (4)

On 4 Feb 2020, at 10:58, Collins, Francis (NIH/OD) [E] (b) (6) wrote:

Very thoughtful analysis. (b) (4)

(b) (4)

Francis

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Tuesday, February 4, 2020 2:01 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)  
**Subject:** FW: Prevalence of infection and stage of the epidemic in Wuhan

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Pushing WHO again today

---

**From:** Edward Holmes [REDACTED] (b) (6)

**Date:** Tuesday, 4 February 2020 at 06:33

**To:** Jeremy Farrar [REDACTED] (b) (6)

**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

Here's our summary so far. Will be edited further.

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Will finish as soon as we can.

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The University of Sydney | Sydney | NSW | 2006 | Australia

T [REDACTED] (b) (6)

E [REDACTED] (b) (6)



**From:** [Jeremy Farrar](#)  
**To:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Cc:** [Josie Golding](#); [Tabak, Lawrence \(NIH/OD\) \[E\]](#)  
**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan  
**Date:** Thursday, February 6, 2020 2:18:30 AM

---

Perfect, thank you

---

**From:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)  
**Date:** Wednesday, 5 February 2020 at 22:24  
**To:** Jeremy Farrar (b) (6), Francis Collins (b) (6)  
**Cc:** Josie Golding (b) (6), "Tabak, Lawrence (NIH/OD) [E]" (b) (6)  
**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

Jeremy:

Thanks for the note. Looks like things are moving along with WHO. I will list below a number of names for potential members of the working group to examine the evolutionary origin of the 2019-nCoV in addition to the individuals who were on the call with us last Saturday:

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<https://www.ncbi.nlm.nih.gov/research/groups/koonin/>  
Wayne Hendrickson – Columbia University and the New York Structural Biology Center  
Gary Nabel – Sanofi (Boston)

Best regards,  
Tony

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**Sent:** Wednesday, February 5, 2020 6:21 AM

**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E] (b) (6) >

**Cc:** Josie Golding (b) (6)

**Subject:** Re: Prevalence of infection and stage of the epidemic in Wuhan

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**Date:** Tuesday, 4 February 2020 at 13:18

**To:** Francis Collins (b) (6), Jeremy Farrar (b) (6)

**Subject:** RE: Prevalence of infection and stage of the epidemic in Wuhan

?? (b) (4)

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Yes, (b) (4)

Francis

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(b) (4)

(b) (4)

Francis

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(b) (6)

**Subject:** FW: Prevalence of infection and stage of the epidemic in Wuhan

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**From:** Edward Holmes (b) (6)

**Date:** Tuesday, 4 February 2020 at 06:33

**To:** Jeremy Farrar (b) (6)

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School of Life & Environmental Sciences and School of Medical Sciences,  
The University of Sydney | Sydney | NSW | 2006 | Australia

T

(b) (6)

E

(b) (6)

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Cc:** [Tabak, Lawrence \(NIH/OD\) \[E\]](#)  
**Subject:** FW: Teleconference  
**Date:** Sunday, February 2, 2020 11:49:36 AM

---

Francis:

Do you have a minute for a quick call?

Tony

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Sunday, February 2, 2020 11:28 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Tabak, Lawrence (NIH/OD) [E] (b) (6)  
**Subject:** Re: Teleconference

Tedros and Bernhard have apparently gone into conclave....they need to decide today in my view. If they do prevaricate, I would appreciate a call with you later tonight or tomorrow to think how we might take forward.

Meanwhile....

<https://www.zerohedge.com/geopolitical/coronavirus-contains-hiv-insertions-stoking-fears-over-artificially-created-bioweapon>

---

**From:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6)  
**Date:** Sunday, 2 February 2020 at 15:30  
**To:** Jeremy Farrar (b) (6), Francis Collins (b) (6)  
**Cc:** "Tabak, Lawrence (NIH/OD) [E]" (b) (6)  
**Subject:** RE: Teleconference

Jeremy:

Sorry that I took so long to weigh in on your e-mails with Francis and me. I was on conference calls. (b) (5)

Best regards,

Tony

---

**From:** Jeremy Farrar (b) (6)  
**Sent:** Sunday, February 2, 2020 7:13 AM  
**To:** Collins, Francis (NIH/OD) [E] (b) (6)  
**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Tabak, Lawrence (NIH/OD) [E] (b) (6)  
**Subject:** Re: Teleconference

....Really appreciate us thinking through the options.... (b) (5)

---

**From:** Francis Collins (b) (6)

**Date:** Sunday, 2 February 2020 at 12:03

**To:** Jeremy Farrar (b) (6)

**Cc:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6), "Tabak, Lawrence (NIH/OD) [E]" (b) (6)

**Subject:** RE: Teleconference

Hi Jeremy,

Thanks for forwarding these additional reflections from Mike and Bob. (b) (5)

Francis

---

**From:** Jeremy Farrar (b) (6)

**Sent:** Sunday, February 2, 2020 6:53 AM

**To:** Collins, Francis (NIH/OD) [E] (b) (6)

**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Tabak, Lawrence (NIH/OD) [E] (b) (6)

**Subject:** Re: Teleconference

Thank you

See thoughts overnight from others.

Jeremy

(b) (5)

**From:** Francis Collins (b) (6)

**Date:** Sunday, 2 February 2020 at 10:27

**To:** Jeremy Farrar (b) (6)

**Cc:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6), "Tabak, Lawrence (NIH/OD) [E]" (b) (6)

**Subject:** RE: Teleconference

Jeremy,

(b) (5)

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

---

**From:** Jeremy Farrar (b) (6)

**Sent:** Sunday, February 2, 2020 4:48 AM

**To:** Andrew Rambaut (b) (6)

**Cc:** R.A.M. Fouchier (b) (6); Fauci, Anthony (NIH/NIAID) [E]

(b) (6); Patrick Vallance (b) (6); Drosten, Christian

(b) (6); M.P.G. Koopmans (b) (6); Eddie Holmes  
(b) (6); Kristian G. Andersen  
(b) (6); Paul Schreier (b) (6); Ferguson,  
Mike (b) (6) Collins, Francis (NIH/OD) [E] (b) (6); Tabak,  
Lawrence (NIH/OD) [E] (b) (6); Josie Golding (b) (6)

**Subject:** Re: Teleconference

This is a very complex issue.

I will:

(b) (5)

I suggest we don't get into a further scientific discussion here, but wait for that group to be established.

Jeremy

---

**From:** (b) (6)

**Date:** Sunday, 2 February 2020 at 09:38

**To:** Jeremy Farrar (b) (6)

**Cc:** (b) (6) "Fauci, Anthony (NIH/NIAID) [E]"

(b) (6), Patrick Vallance (b) (6), "Drosten,  
Christian" (b) (6), Marion Koopmans (b) (6),  
Edward Holmes (b) (6)

(b) (6), "Kristian G. Andersen" (b) (6), Paul Schreier

(b) (6) Michael FMedSci

(b) (6), Francis Collins (b) (6),

(b) (6) Josie Golding

(b) (6)

**Subject:** Re: Teleconference

Dear Jeremy, Ron and all,

Thanks for inviting me on the call yesterday.

(b) (5)  
(b) (5)



(b) (5)

Best,  
Andrew

On 2 Feb 2020, at 08:40, Jeremy Farrar (b) (6) wrote:

Thanks Ron

(b) (5)

Thoughts on that very welcome.

On 2 Feb 2020, at 08:30, R.A.M. Fouchier (b) (6) wrote:

Dear Jeremy and others,

This was a very useful teleconference.

(b) (5)

(b) (5)

Thanks for organizing this on such short notice,

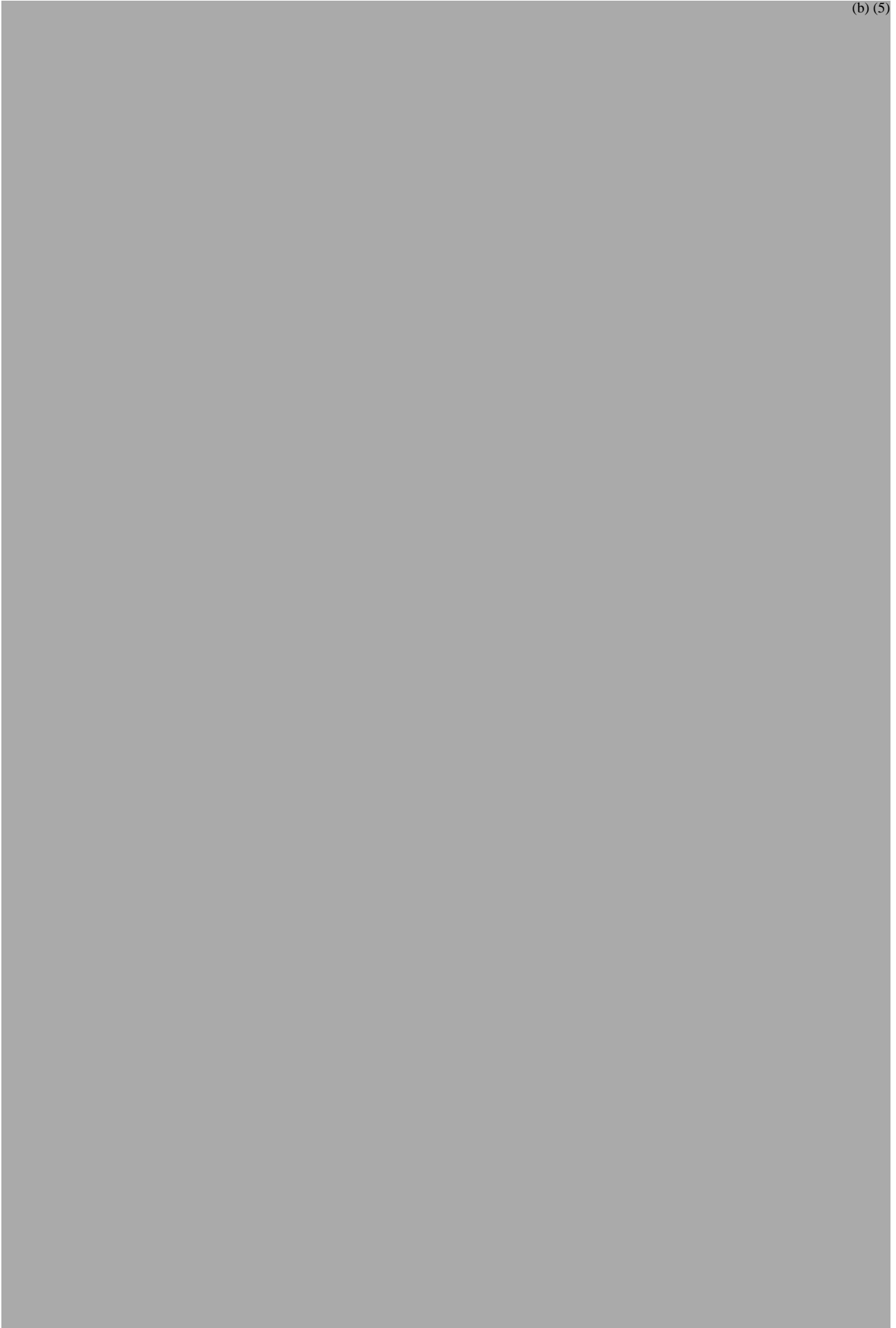
Kind regards

Ron

Ron's notes:

(b) (5)





**Van:** Jeremy Farrar (b) (6) >

**Datum:** zaterdag 1 februari 2020 om 21:59

**Aan:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6),

Patrick Vallance (b) (6)

**CC:** Christian Drosten (b) (6), "M.

Koopmans" (b) (6), "R.A.M. Fouchier"

(b) (6), Edward Holmes

(b) (6), (b) (6)

(b) (6), Andrew Rambaut (b) (6),

"Kristian G. Andersen" (b) (6), Paul Schreier

(b) (6)

(b) (6), "Ferguson, Mike"

(b) (6), Francis Collins

(b) (6)

(b) (6), Josie Golding

(b) (6)

**Onderwerp:** Re: Teleconference

Thank you to everyone for joining.

There is clearly much to understand understand in this. This call was very helpful to hear some of our current understanding and the many gaps in our knowledge.

(b) (5)

(b) (5)

(b) (5)

I hope that is a reasonable approach, please send any thoughts or suggestions.

Once again, thank you for making time over a weekend and for such an informed discussion on a complex issue.

Thank you and best wishes Jeremy

---

**From:** Jeremy Farrar (b) (6)

**Date:** Saturday, 1 February 2020 at 15:34

**To:** "Fauci, Anthony (NIH/NIAID) [E]" (b) (6), Patrick Vallance (b) (6)

**Cc:** "Drosten, Christian" (b) (6), Marion Koopmans (b) (6)

(b) (6) Edward Holmes (b) (6)

(b) (6)  
<[a.rambaut@ed.ac.uk](mailto:a.rambaut@ed.ac.uk)>, "Kristian G. Andersen"

(b) (6)>, Paul Schreier (b) (6)

(b) (6) Michael FMedSci

(b) (6)

**Subject:** Teleconference

**1st February (2nd Feb for Eddie)**

**Information and discussion is shared in total confidence and not to be shared until agreement on next steps.**

**Dial in details attached.**

**Please mute phones.**

**I will be on email throughout – email Paul or I Paul if any problems**

**If you cannot make it, I will phone you afterwards to update.**

**One Hour**

6am Sydney

8pm CET

7pm GMT

2pm EST

11am PST

*(Hope I have the times right!)*

Thank you for the series of calls and for agreeing to join this call.

**Agenda**

- Introduction, focus and desired outcomes - JF
- Summary – KA
- Comments – EH
- Q&A – All
- Summary and next steps - JF

Kristian Anderson

Bob Garry - I have not been able to contact Bob. Please forward if you

can.

Christian Drosten

Tony Fauci

Mike Ferguson

Ron Fouchier

Eddie Holmes

Marion Koopmans

Stefan Pohlmann

Andrew Rambaut

Paul Schreier

Patrick Vallance

---

### **Andrew Rambaut**

Institute for Evolutionary Biology

Ashworth Laboratories, University of Edinburgh, Edinburgh, EH9 3FL, UK

contact – (b) (6) | <http://tree.bio.ed.ac.uk> | tel (b) (6)

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** RE: BioRxiv report on 2019 nCoV from Shi et al.  
**Date:** Saturday, February 1, 2020 11:48:58 AM

---

Thanks. I did see it, but did not check the similarities. Obviously we need more details.

-----Original Message-----

From: Collins, Francis (NIH/OD) [E] (b) (6)  
Sent: Saturday, February 1, 2020 11:46 AM  
To: Tabak, Lawrence (NIH/OD) [E] (b) (6); Fauci, Anthony (NIH/NIAID) [E]  
(b) (6); Wolinetz, Carrie (NIH/OD) [E] (b) (6)  
Subject: BioRxiv report on 2019 nCoV from Shi et al.

In case you haven't already seen this preprint from one week ago. (b) (5)

No evidence this work was supported by NIH.

Francis

**From:** [Edward Holmes](#)  
**To:** [M.P.G. Koopmans](#)  
**Cc:** [Jeremy Farrar](#); [Fauci, Anthony \(NIH/NIAID\) \[E\]](#); [Patrick Vallance](#); [Christian Drosten](#); [R.A.M. Fouchier](#); [\(b\) \(6\)](#); [Andrew Rambaut](#); [Kristian G. Andersen](#); [Paul Schreier](#); [\(b\) \(6\)](#); [Ferguson, Mike](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** Re: Teleconference  
**Date:** Saturday, February 1, 2020 3:10:08 PM

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Hi Marion,

(b) (5)

Best wishes

Eddie

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**PROFESSOR EDWARD C. HOLMES FAA FRS**

ARC Australian Laureate Fellow

**THE UNIVERSITY OF SYDNEY**

Marie Bashir Institute for Infectious Diseases & Biosecurity,  
School of Life & Environmental Sciences and School of Medical Sciences,  
The University of Sydney | Sydney | NSW | 2006 | Australia

T [\(b\) \(6\)](#)

E [\(b\) \(6\)](#)

On 2 Feb 2020, at 6:43 am, M.P.G. Koopmans [\(b\) \(6\)](#)  
wrote:

(b) (5)

On 1 Feb 2020, at 19:12, Jeremy Farrar [\(b\) \(6\)](#)  
wrote:

Kristen and Eddie have shared this and will talk through it on the call.  
Thank you.  
Hope it will help frame the discussions.

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**From:** Jeremy Farrar [\(b\) \(6\)](#)

**Date:** Saturday, 1 February 2020 at 15:34



**1st February (2nd Feb for Eddie)**

**Information and discussion is shared in total confidence and not to be shared until agreement on next steps.**

**Dial in details attached.**

**Please mute phones.**

**I will be on email throughout – email Paul or I Paul if any problems**

**If you cannot make it, I will phone you afterwards to update.**

**One Hour**

6am Sydney

8pm CET

7pm GMT

2pm EST

11am PST

*(Hope I have the times right!)*

Thank you for the series of calls and for agreeing to join this call.

**Agenda**

- Introduction, focus and desired outcomes - JF
- Summary – KA
- Comments – EH
- Q&A – All
- Summary and next steps - JF

Kristian Anderson

Bob Garry - I have not been able to contact Bob. Please forward if you can.

Christian Drosten

Tony Fauci

Mike Ferguson

Ron Fouchier

Eddie Holmes

Marion Koopmans

Stefan Pohlmann

Andrew Rambaut

Paul Schreier

Patrick Vallance

<Coronavirus sequence comparison[1].pdf>

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Grigsby, Garrett \(HHS/OS/OGA\)](#); [Harrison, Brian \(HHS/IOS\)](#)  
**Cc:** [Kerr, Lawrence \(HHS/OS/OGA\)](#); [Kadlec, Robert \(OS/ASPR/IO\)](#); [Collins, Francis \(NIH/OD\) \[E\]](#)  
**Subject:** follow up  
**Date:** Saturday, February 1, 2020 5:58:33 PM

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Folks:

The call with Jeremy Farrar (Wellcome Trust

(b) (5)

(b) (5)

(b) (5) Happy to chat with any of you about this.

Best regards,

Tony

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**From:** Grigsby, Garrett (HHS/OS/OGA) (b) (6)

**Sent:** Saturday, February 1, 2020 2:29 PM

**To:** Harrison, Brian (HHS/IOS) (b) (6)

**Cc:** Fauci, Anthony (NIH/NIAID) [E] (b) (6); Kerr, Lawrence (HHS/OS/OGA)

(b) (6)

**Subject:** follow up

Brian,

Sorry it's been so hard to connect...

Been on many calls w/ Dr F, Stew & Larry, but things have evolved throughout the day – see articles attached from around the world on issue being discussed. It's now very much in the public domain so it would appear to make the imperative of what we were discussing moot because others will certainly get the ball rolling on examination of data.

I know Dr F was speaking with Jeremy of Wellcome Trust this afternoon, so he may have more perspective to add...

Happy to connect on this or anything else at your convenience...

**Garrett Grigsby**

**Director for Global Affairs**

**Office of the Secretary**

**U.S. Department of Health & Human Services**

(b) (6)

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Tabak, Lawrence \(NIH/OD\) \[E\]](#); [Wolinetz, Carrie \(NIH/OD\) \[E\]](#)  
**Subject:** RE: More on evolution of coronavirus  
**Date:** Sunday, February 2, 2020 6:26:16 AM

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The Indian paper [REDACTED] (b) (5)

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**From:** Collins, Francis (NIH/OD) [E] [REDACTED] (b) (6)  
**Sent:** Sunday, February 2, 2020 5:58 AM  
**To:** Fauci, Anthony (NIH/NIAID) [E] [REDACTED] (b) (6); Tabak, Lawrence (NIH/OD) [E]  
[REDACTED] (b) (6); Wolinetz, Carrie (NIH/OD) [E] [REDACTED] (b) (6)

**Subject:** More on evolution of coronavirus

In case you haven't seen, attached is the Indian paper claiming HIV sequences have been inserted into 2019-nCoV, which has been roundly debunked.

I found Jon Cohen's piece in Science to be a pretty useful summary:

<https://www.sciencemag.org/news/2020/01/mining-coronavirus-genomes-clues-outbreak-s-origins>

FC

**From:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#)  
**To:** [Daley, George Q.](#)  
**Cc:** [Collins, Francis \(NIH/OD\) \[E\]](#); [Marston, Hilary \(NIH/NIAID\) \[E\]](#); [Graham, Barney \(NIH/VRC\) \[E\]](#)  
**Subject:** RE: Inquiry and possible phone call  
**Date:** Sunday, February 2, 2020 10:44:27 AM

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George:

Thanks for the note. There is a lot of communications between scientists in China and their colleagues in the USA, many with whom they have been collaborating prior to the outbreak. There is no real "coordination" of this response since we do not know who is doing what until we are told – just like you have done here. Dr. Soumya Swaminathan, Chief Scientist at WHO is organizing a meeting on Feb. 11-12 in Geneva to try and develop a research agenda for nCoV. I am sure that Chinese scientists will be there. It might be helpful to contact her. Her e-mail address is (b) (6)

I hope that this is helpful. I will follow-up with a call.

Best,

Tony

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**From:** Daley, George Q. (b) (6)  
**Sent:** Sunday, February 2, 2020 10:32 AM  
**To:** [Fauci, Anthony \(NIH/NIAID\) \[E\]](#) (b) (6); [Fauci, Anthony \(NIH/NIAID\) \[E\]](#) (b) (6)  
**Subject:** Inquiry and possible phone call

Dear Tony,

Alan Garber, Harvard's Provost, and I met yesterday with a team led by Jack Xia, the CEO of China's Evergrande Company, and Dr Jack Liu, Evergrande's chief health officer, who stated they were acting on behalf of Dr Zhong Nanshan, China's key point person on the coronavirus outbreak (see below). They wish to engage the Harvard community in a joint research strategy, and they arranged a conference call for tomorrow morning EST with Dr. Zhong.

While I have been mobilizing efforts of our community to react to the virus and to this request, I am not naïve to the challenging politics of such a relationship. I do not want to complicate or duplicate efforts already underway, and am writing to request whatever information you are willing to share on your current efforts to coordinate a response.

If a phone call is more facile, please do not hesitate to try my cell: (b) (6) anytime today.

Sincerely,

George  
George Q. Daley, MD, PhD  
Dean, Harvard Medical School  
Caroline Shields Walker Professor of Medicine  
Professor of Biological Chemistry and Molecular Pharmacology  
Office of the Dean, Gordon Hall  
25 Shattuck Street, Boston MA 02115  
Contact: (b) (6)  
(b) (6)

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**From:** Jack Liu (b) (6)  
**Date:** Saturday, February 1, 2020 at 11:26 PM  
**To:** Public HMS Email (b) (6)  
**Cc:** 谈朝晖 (b) (6), 陈敏 Min Chen  
(b) (6) (b) (6)

**Subject:** Follow up on today's meeting

Dear Dr. Daley:

Per our discussion this afternoon in the conference room at your school, we have secured researchers who will take part in the planned video conference call next Monday morning. As you suggested that the call would offer an opportunity for researchers from both side to mutually identify projects in the fashion of near term, middle term, and long term according to the nature of the project and the urgency of the outbreak. The following are the chinese research names and their projects respectively. Would you please forward me the same from your side?!

1. Zhong, nanshan. Leader of the task force Chinese side.
2. Li, yimin. Opt. of diag. and treatment plan for critical patients.
3. Zhao, jincun. R & D for 2019-nCov antibody & vaccine.
4. Yang, zifeng. Prevention and treatment of 2019-nCov with traditional Chinese Medicine.
5. Zhou, rong. Topic on intensive treatment.
6. Chen, ling. Topic on drug R & D.
7. Dr. He. AI reading and screening of CT, DR image of 2019-nCov pneumonia.

Jack Liu, MD

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