

The comparative recency of the proximal ancestors of SARS-CoV-1 and SARS-CoV-2

SARS-CoV-2 coronavirus | nCoV-2019 Evolutionary History



jepekar

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The comparative recency of the proximal ancestors of SARS-CoV-1 and SARS-CoV-2

Jonathan E. Pekar, Spyros Lytras, Andrew Magee, Jennifer L. Havens, Edyth Parker, Simon Dellicour, Joseph Hughes, Tetyana I. Vasylyeva, Philippe Lemey, David L. Robertson, Michael Worobey, Joel O. Wertheim

Oct 19

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Environmental Research

Volume 216, Part 2, 1 January 2023, 114631



Editorial

Scientific evidence on the origin of SARS-CoV-2

Avelino Núñez-Delgado  , Warish Ahmed, Jesús L. Romande, Kuldeep Dhama, José L. Domingo

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bioRxiv posts many COVID19-related papers. A reminder: they have not been formally peer-reviewed and should not guide health-related behavior or be reported in the press as conclusive.

New Results

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Endonuclease fingerprint indicates a synthetic origin of SARS-CoV-2

Valentin Bruttel, Alex Washburne, Antonius VanDongen

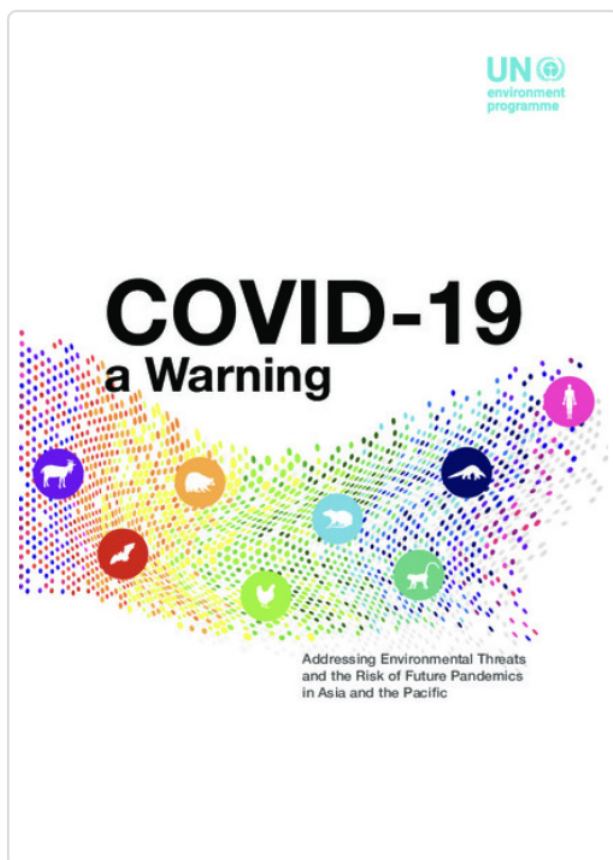
doi: <https://doi.org/10.1101/2022.10.18.512756>

This article is a preprint and has not been certified by peer review [what does this mean?].



20 Oct 2022

COVID-19: A Warning - Addressing Environmental Threats and the Risk of Future Pandemics in Asia and the Pacific



Description

This scientific review begins with the history of humans and zoonoses and provides clarity on the issues of zoonoses and emerging infectious diseases. It then presents the seven anthropogenic drivers of zoonotic disease emergence as well as the concept of viral mixing. After providing rich context, this review continues to outline solutions that address the intricate link between nature and human health and strategies to prevent future zoonotic outbreaks.

URI

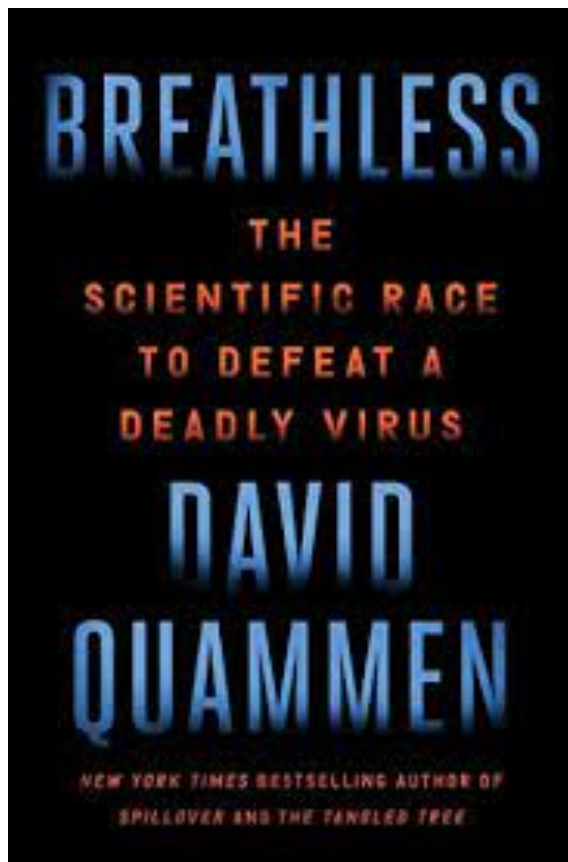
<https://wedocs.unep.org/20.500.11822/40871>

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[UNEP Publications](#)

Lead author: Colin Butler, 34 reviewers
warns of significant risks from virological research
concludes covid-19 origin is possibly research-related.



BOOKS AND CULTURE

Friends in Viral Places

David Quammen fails to ask the necessary questions of his scientific sources, rendering his new book on Covid a work of advocacy, not reporting.

Nicholas Wade

October 21, 2022 Covid-19

Breathless: The Scientific Race to Defeat a Deadly Virus, by David Quammen (Simon & Schuster, 469 pp., \$29.99)

<https://www.city-journal.org/review-of-breathless-the-scientific-race-to-defeat-a-deadly-virus>



Jamie Metzl

@JamieMetzl

I just finished @DavidQuammen new book, Breathless. David does a great job making the case for a zoonotic origin of #COVID19 but a poor job presenting the alternate hypothesis of a potential lab accident origin. My further thoughts in the thread below. 1/

https://twitter.com/JamieMetzl/status/1584237070251593730?s=20&t=jRsMkQ15U_-RkqT2RshvuQ

Obtain, but Verify

PUBLISHED OCTOBER 22, 2022

By Jon Cohen

Just because information is difficult to obtain, it doesn't mean that the obtained information is particularly meaningful—or accurate.

“On July 25, 2020, I received an anonymous e-mail ...”

<https://joncohen.org/2022/10/22/obtain-but-verify/>

similar opinion and the morning afterwards sent a detailed list of the reasons why the claim was certainly wrong.

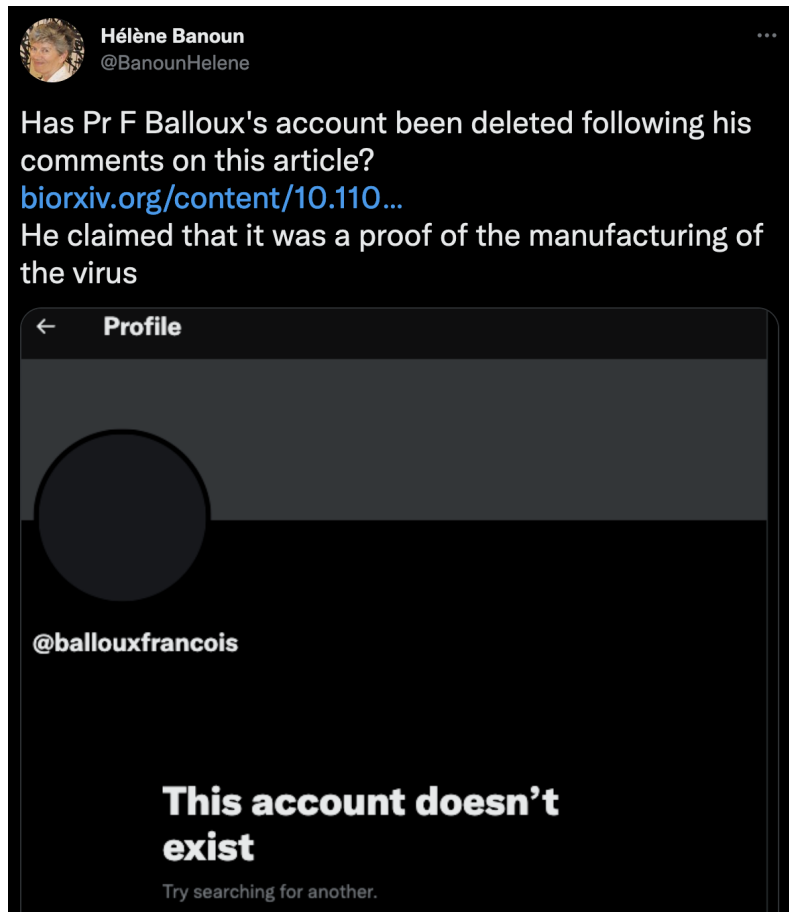
After the paper with the exact opposite claim was received at *Nature*, senior editor, Clare Thomas sent it out for review to some of the best people in the world... Not surprisingly, this happened to include a very close colleague of one of the experts who had been on the conference call. You can perhaps imagine the shock. Thomas was quickly appraised of the situation and *Nature* rejected the paper. It was then sent to *Nature Medicine*, where it was soon published. One author on the paper was not on the conference call: Ian Lipkin. It's not clear how much of the back-story he is aware of. It might be worth giving him a call to ask, in case you feel like investigating. If his co-authors left him in the dark as to what actually happened and he's worried about the possible fallout he may want to help.

I apologize for mailing you without revealing my name (at least for now). I work in the field and have heard this story from two people who were on the initial call with Fauci. I'm not keen to be personally involved, but I find the situation so outrageous, hypocritical, and shameless that I also find I can't keep silent. It doesn't change anything with respect to knowledgeable thinking about the origin of the virus, of course, but it's a pretty ugly situation that I (obviously) think should be exposed.

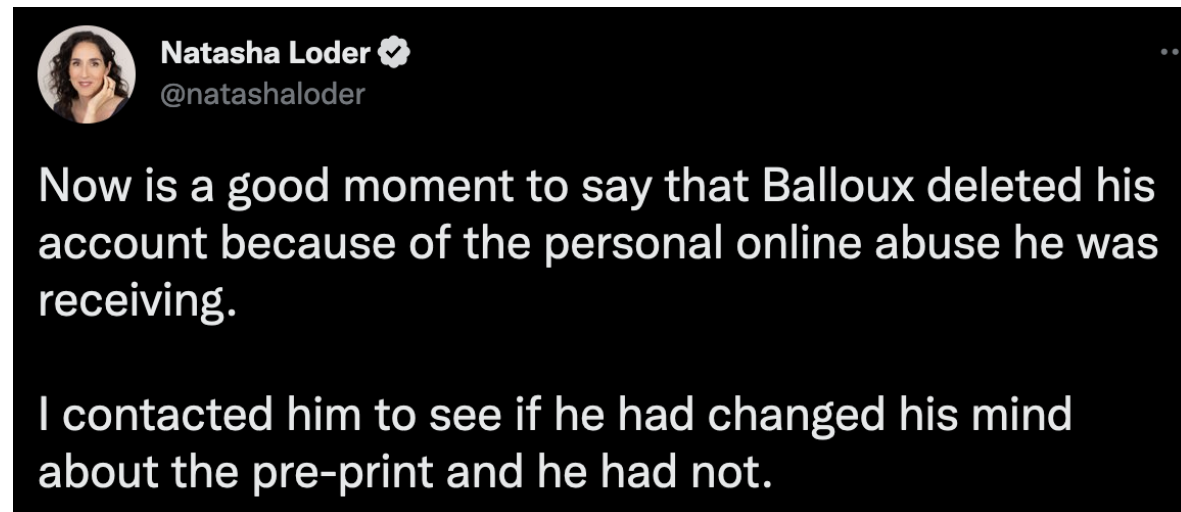
----- EMAIL REPLY DRAFT -----

Hi Jon

22 October 2022: Francois Balloux' twitter account is deleted



https://twitter.com/BanounHelene/status/1583530927934013440?s=20&t=Jr5Q_NpTgO8jFTGJzfBWdg



https://twitter.com/natashaloder/status/1584100721854943232?s=20&t=Jr5Q_NpTgO8jFTGJzfBWdg

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26.10.2022 16:18

Teilen:    [Magazin](#)

Scientific response to the recent reporting on the origin of SARS-CoV-2

Stefan Dreising *Presse- und Öffentlichkeitsarbeit*
[Universitätsklinikum Würzburg](#)

“In summary, the analyses presented in the study do not provide sufficient evidence for the authors’ conclusion that SARS-CoV-2 is of synthetic origin. The origin of SARS-CoV-2 thus remains unresolved.”

⚠ Caution: Unverified Contents

Papers are not peer-reviewed by Zenodo, and must be regarded as preliminary until peer-reviewed by multiple experts in the field. Papers reported in news media as established information, as the main claims may not stand the test of scientific scrutiny.

October 28, 2022

Preprint

Open Access

Evidence for a proximal origin of SARS-CoV-2 in the wildlife trade is lacking

Chan, Alina

The announcement by the Chinese authorities in early 2020 that SARS-CoV-2 was likely from animals sold at the Huanan seafood market and the rapid release of four preprints describing Guangdong pangolin CoV sequences fueled support for the hypothesis that SARS-CoV-2 had spilled over from the wildlife trade. However, since then, international efforts have failed to identify a proximal animal source or a direct precursor of SARS-CoV-2. No SC2-like viruses have been found in the wildlife trade supply to Wuhan or in bats in Hubei province. Virus tracking experts in Wuhan have not been able to find the types of evidence for a natural origin that were so quickly obtained in the case of the 2003 SARS outbreak. Under these circumstances where definitive evidence has yet to be found and investigations have been hindered, it would be premature to declare the origin of the pandemic solved or to claim that the scientific evidence for a natural spillover origin at the Huanan seafood market is overwhelming.

“it would be premature to declare the origin of the pandemic solved or to claim that the scientific evidence for a natural spillover origin at the Huanan seafood market is overwhelming. “

COVID-19 Origins: Investigating a “Complex and Grave Situation” Inside a Wuhan Lab

The Wuhan lab at the center of suspicions about the pandemic’s onset was far more troubled than known, documents unearthed by a Senate team reveal. Tracing the evidence, Vanity Fair and ProPublica give the clearest view yet of a biocomplex in crisis.

Coronavirus origins: the debate flares up, but the evidence remains weak

Publié: 28 octobre 2022, 17:13 CEST

auteur



Francois Balloux

Chair Professor, Computational
Biology, UCL

Déclaration d'intérêts

Francois Balloux receives funding from the Wellcome Trust, the NIHR and the EU 2020 Framework Programme.

eLetters (6)

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OCT. 28, 2022

SARS-CoV-2 origin is still unknown

VIRGINIE COURTIER-ORGOGOZO Biologist, CNRS Research Director, Institut Jacques Monod, Université Paris Cité, CNRS, Paris, France

RAHUL BAHULIKAR Plant genetics and taxonomy expert, BAIF Development Research Foundation, Pune, India

COLIN BUTLER Honorary Professor, Australian National University, Canberra, Australia

JEAN-MICHEL CLAVERIE Virologist, Emeritus Professor of Public Health, Aix-Marseille University, France

ETIENNE DECROLY Virologist, Aix-Marseille University, France

JOSEPH DUDLEY Leidos Inc and University of Alaska Fairbanks, USA

RICHARD EBRIGHT Professor of Chemistry and Chemical Biology, Rutgers University, USA

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GÜNTHER THEISSEN Geneticist, Professor, Friedrich Schiller University, Jena, Germany

In their article, Worobey et al. [1] confirm that the Huanan market served as an early super-spreading event for COVID-19, but provide no definitive evidence that SARS-CoV-2 was first transmitted to humans from wildlife sold there. Out of the 457 animals (18 species) tested...

https://www.researchgate.net/publication/365134036_SARS-CoV-2_origin_is_still_unknown

<https://www.science.org/doi/10.1126/science.abp8715>

Alina Chan and Robert Garry on the Megyn Kelly podcast

Apple Podcasts Preview

7 Nov 2022



<https://podcasts.apple.com/us/podcast/dark-brandon-tries-again-with-andrew-klavan-and/id1532976305?i=1000584994806>

<https://podtext.ai/the-megyn-kelly-show/dark-brandon-tries-again-with-andrew-klavan-and-covid-origins-deep-dive-with-dr-alina-chan-and-dr-robert-garry-ep-426>



Forensic Analysis of Novel SARS2r-CoV Identified in Game Animal Datasets in China Shows Evolutionary Relationship to Pangolin GX CoV Clade and Apparent Genetic Experimentation

by  Adrian Jones ¹ ,  Steven E. Massey ^{2,*} ,  Daoyu Zhang ³,  Yuri Deigin ⁴ and  Steven C. Quay ⁵ 

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Published: 7 November 2022



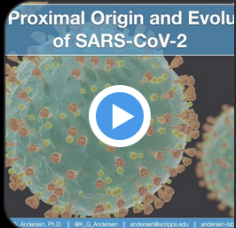
Kristian G. Andersen ✓

@K_G_Andersen

I gave a talk earlier today at #VGE22 on “The Proximal Origin and Evolution of SARS-CoV-2”.

Slides are here: andersen-lab.com/files/VGE_2022...

Recorded talk (25mins) here:



youtube.com

The Proximal Origin and Evolution of SARS-CoV-2

Prof. Kristian Andersen's virtual talk from the 2022 Virus Genomics and Evolution Conference on the origin of SARS-...

7:15 PM · Nov 9, 2022 · Twitter for Mac

49 Retweets 6 Quote Tweets 172 Likes

https://twitter.com/K_G_Andersen/status/1590407745324617729?s=20&t=Jr5Q_NpTgO8jFTGJzfBWdg

Slides: https://andersen-lab.com/files/VGE_2022.pdf

Recorded talk (25min):
<https://www.youtube.com/watch?v=2nZB07FV4Ug> "

Lab Leak

- Bioweapon
- Chimeric virus
- Culture
 - Gain of Function research (tissue culture or animals)
 - Natural virus
- Sampling of bats for research purposes (zoonosis)
- Contaminated sample brought to the lab (zoonosis)

Natural Emergence

- Zoonotic spillover

10 Nov 2022

nature

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NEWS | 10 November 2022

Chances of finding COVID-virus ancestor ‘almost nil’, say virologists

Genome analysis finds SARS-CoV-2 and bat coronaviruses shared an ancestor just a few years ago, but extensive recombination has muddled the picture.

[Smriti Mallapaty](#)

<https://www.nature.com/articles/d41586-022-03611-w>

Paper critical of ‘lab leak theory’ cribbed ideas from controversial gain-of-function virologist



Posted: November 14, 2022 by [Emily Kopp](#)

Fouchier, Koopmans and Drosten “could not countenance the fact it might be a lab escape, for good reason: if someone was engineering a coronavirus, they wouldn’t use some random bat virus,” he [Farrar] wrote.