

Summer Seminar on Research Integrity
25 August 2021

Michael Willis

About me

- Humanities education
- Peer review
- Research Advocate



Today's outline

- Context
- The impact of Covid-19
- Three factors
- Preprints and emerging developments
- Peer review and emerging developments
- The future



Speed and progress





COVID-19 entry restrictions for the Netherlands

Before you travel, check the "Entry requirements">check the "Entry requirements section for the Netherlands' current entry restrictions and requirements. These may change with little warning. Monitor this advice for the latest updates and stay in contact with your travel provider.



Returning to the UK

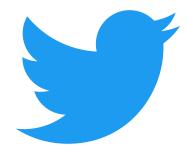
Netherlands is on the <u>amber list for entering England</u>. Check what you must do to enter England, Scotland, Wales or Northern Ireland.





1. An impatient society



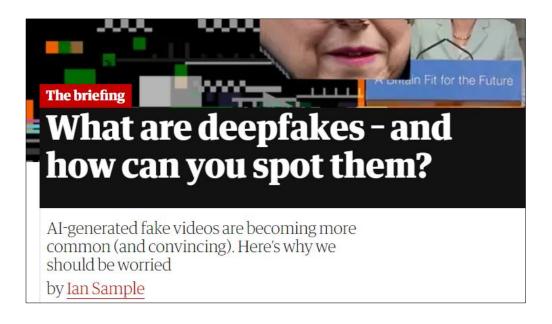






2. Questioning truth







3. The push for openness













UK government censured for a lack of transparency and accountability

The Open Government Partnership says the government failed to live up to its pledges to improve transparency and accountability.



The state of preprints (1)

Preprints: Their Evolving

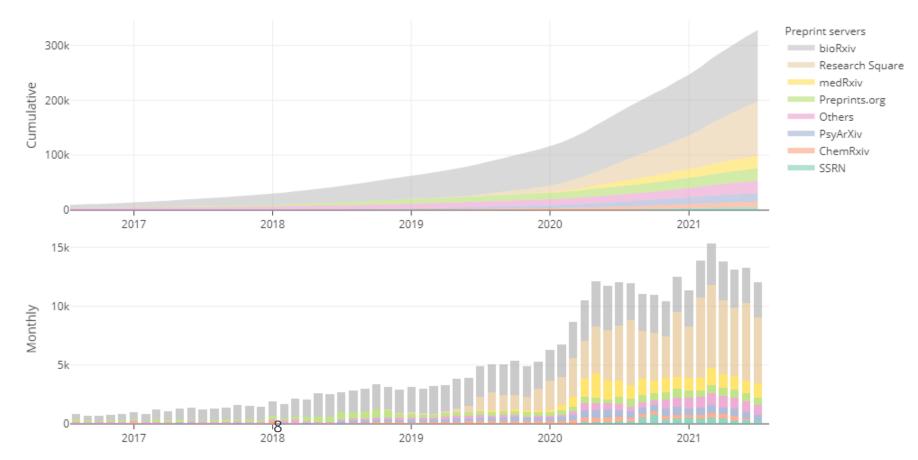
Role in Science

Communication

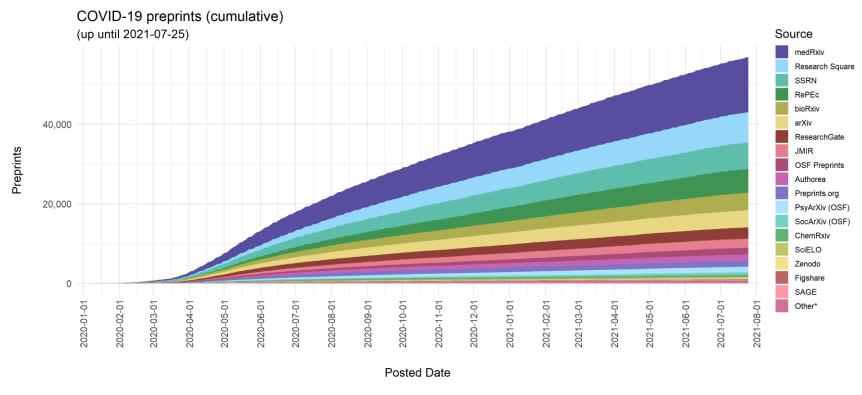
Iratxe Puebla, Jessica Polka and Oya Rieger

https://dx.doi.org/10.31222 /osf.io/ezfsk





The state of preprints (2)



^{* &#}x27;Other' refers to preprint repositories containing <100 total relevant preprints. These include: AfricArXiv (OSF), AgriXiv (OSF), BioHackrXiv (OSF), Cambridge University Press, Copernicus GmbH, EcoEvoRxiv (OSF), EdArXiv (OSF), engrXiv (OSF), ESSOAR, Frenxiv (OSF), INA-Rxiv (OSF), IndiaRxiv (OSF), LawArXiv (OSF), MediArXiv (OSF), MetaArXiV (OSF), NutriXiv (OSF), ScienceOpen, SportRxiv (OSF), Techrxiv (IEEE), WHO.



Information, information, information









Deborah Cohen @deb_cohen · 2m

Not asking for sympathy & it's not an original thought...all this hyperbolic coverage and tweeting of teeny tiny studies about vaccine responses and variants-that in normal times would struggle to get published-is causing mega confusion and is making life of a science journo hell



Preprints integrity

COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

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.







Speed: good or bad?











https://www.ama-assn.org/delivering-care/public-health/qa-why-jamas-editor-finds-pandemic-answers-conversation



Preprints: emerging developments

- COVID 19 Rapid Review: https://oaspa.org/covid-19-rapid-review-collaboration-initiative/
- Review Commons: https://www.reviewcommons.org/
- Rapid Reviews: Covid-19 (RR:C19): https://rapidreviewscovid19.mitpress.mit.edu/
- Prelights: https://prelights.biologists.com/
- PREreview: https://prereview.org/
- ASAPBio Crowd Preprint: https://asapbio.org/join-crowd-preprint-review
- ASAPBio Preprint Reviewer Recruitment Network: https://asapbio.org/preprint-reviewer-recruitment-network
- Peer Community In: https://peercommunityin.org/
- Sciety: https://sciety.org/

The state of peer review (1)

It's always been this way! There's only one form of peer review!

Peer review is unpopular!

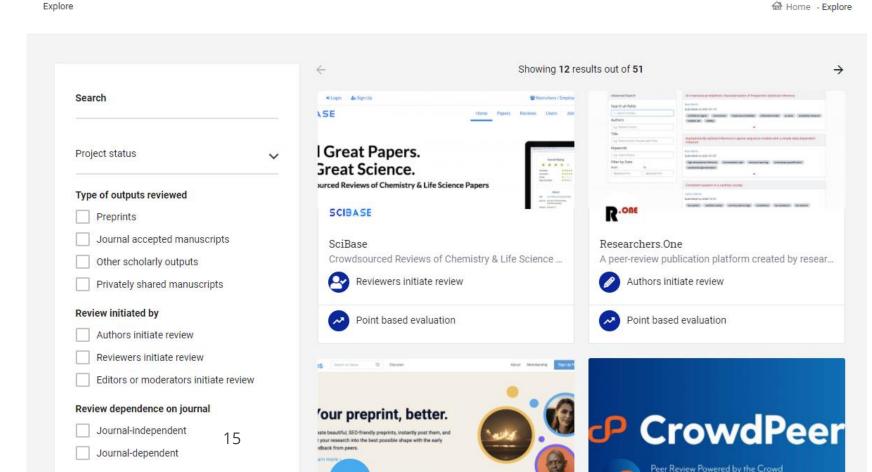
There aren't enough peer reviewers!



The state of peer review (2)



https://reimaginereview.asapbio.org/



Peer review: emerging developments (1)

'Peer review takes too long'

- Post-publication peer review
- Crowd-sourced peer review

Peer review: emerging developments (2)

'The quality of peer review is poor'

- 'Better Peer Review' at Wiley
 https://secure.wiley.com/better-peer-review
- Academic kindness





Peer review: emerging developments (3)

'Peer review is a black box'

- Transparent peer review
- STM Peer review taxonomy
- Standardised reviewer scoresheet



Peer review: emerging developments (4)

'There is a shortage of reviewers'

- Discoverability
- Diversity, equity and inclusion
- Journal transfer networks

MB₀C | PERSPECTIVE

How to bring peer review ghostwriters out of the dark

Gary S. McDowell^a, Caroline A. Niziolek^b, and Rebeccah S. Lijek^{c,*}

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ABSTRACT Early career researchers are frequent and valuable contributors to peer review. Systemic changes that acknowledge this fact would result in ethical co-reviewing, peer reviews of greater quality, and a reduction in peer reviewer burden.

1. Expect greater breadth

Journals 400 years ago	Journals today	Journals in the future
Printed and shipped to the scientific elite.	Digital with the start of interactive and enriching features.	Digital with rich data for easy collaboration and reproducibility.
Text	Text	Text Video Methods O Images Materials
O Images	O Images	Code Data



2. Expect greater specialisation

data, methods, ethics, coding...



3. Expect greater diversity

https://www.peoplemattersglobal.com/article/leadership/leadin g-with-cognitive-diversity-in-the-face-of-covid-19-25621

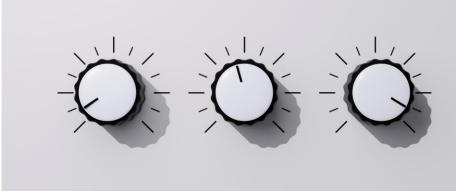


4. Expect more technology



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5. Expect more power to the author





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Thank you for listening.

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