

Publisher's Perspective on Open Access

March 2, 2023

Moderator: Kristin West, *Director, Research Ethics & Compliance, COGR*

Speakers:

Jennifer Griffiths, *Head of Academic Affairs, North America Springer Nature*

Alfredo Morabia, *Professor of Clinical Epidemiology, Columbia University, Editor in Chief, AJHP*

Lara Urban, *Principal Investigator, Helmholtz Pioneer Campus, Helmholtz AI, Technical University of Munich*

David Weinreich, *Director of Public Affairs, Americans STM*



**How publishers can support the research
community in a fully open world**

Dr. Jennifer Griffiths
Head of Academic Affairs, North America
March 2, 2023

Springer Nature is a leading global research publisher

10k employees in over **50** countries
with revenues of **€1.6bn**



OUR DIVISIONS



RESEARCH
Advancing Discovery



EDUCATION
Advancing Learning

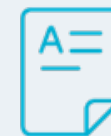


PROFESSIONAL
Advancing Achievement

IN RESEARCH ALONE:



Handling
1m+
submissions a year



Publishing
350,000+
articles a year
and



1 billion
downloads a year



13,000+
books

Coordinating a team of



90,000+
academic editors



750,000+
peer reviewers



Research represents
c75% of revenue

Opening up research increases its use and re-use, speeds up scientific advances and can deliver financial efficiencies for research

WHAT ARE WE DOING

OPENING UP ALL ASPECTS OF RESEARCH



DATA



CODE



PROTOCOLS
AND
METHODS



PREPRINTS



FINAL
PUBLISHED
VERSION OF
RECORD



MAKING RESEARCH MORE ACCESSIBLE



First publisher to enable sharing of subscription articles via SharedIt

ResearchGate

First publisher to enable content to be accessed on ResearchGate



2021 published over 1 million articles OA



Helping countries flip their research to OA - have 17 national agreements in place

AND WHY

FOR AUTHORS

A SIGNIFICANT ADVANTAGE FOR OA ARTICLES / On average:

6x

MORE
DOWNLOADS
of OA articles than non-OA articles



1.6x

MORE
CITATIONS
of OA articles than non-OA articles across all subjects



4.9x

MORE ALTMETRIC
ATTENTION
OA articles attracted 1.9x more news mentions and 1.2x more policy mentions



FOR SCIENCE

NECESSARY FOR OPEN SCIENCE: POTENTIAL TO DELIVER EFFICIENCIES

In Europe alone, €26 billion is wasted due to research not being FAIR



FINDABLE



ACCESSIBLE



INTEROPERABLE



REUSABLE

That's double the annual Horizon Europe research budget, over 10 times the annual spend in the EU on combined journal subscriptions and OA APCs.

FOR SOCIETY

SPEED UP SCIENTIFIC DISCOVERIES

Society benefits more quickly e.g. COVID vaccine



2022 Update to the OSTP Public Access memo (“Nelson memo”)

OSTP removes 12-month embargo to publications and requires immediate data sharing

- **Previous** US public access policies based on [2013 OSTP memo](#) requiring federally-funded articles to be accessible no later than **12 months** from publication
- **New memo** issued August 2022 instructs agencies to update policies to make federally-funded research publicly available **immediately** on publication
- Underlying research data must also be shared upon publication of an article
- Agencies in process of updating their plans (NASA final plan released; NIH plan RFI in progress)



- [Press release](#)
- [Blogpost](#)
- [Memorandum](#)
- [Economic report](#)

The transition needs to be to be sustainable for publishers

Publishers are key, trusted sources of information for the public

***Nature* published more than 550 articles on the pandemic from Jan 2020- August 2021.**

Impact data shows that Nature is a trusted, authoritative source on COVID-19

- > 57 million page views
- > 1 million mentions on social media
- >3400 citations
- 16 awards and nominations
- Policy impact - Face masks feature cited in Scottish and EU policy documents
- Media impact - Feature pointed to by *New York Times*, *Washington Post*, *TIME* and global media outlets
- Educational impact - Health inequality feature used in public health course curricula

NEWS FEATURE · 06 OCTOBER 2020

Face masks: what the data say

The science supports that face coverings are saving lives during the coronavirus pandemic, and yet the debate trundles on. How much evidence is enough?

Lynne Peoples









Publishing is a key part of the scientific process

Publishers ensure the integrity of the scientific record



Gold Open Access is the best long-term solution

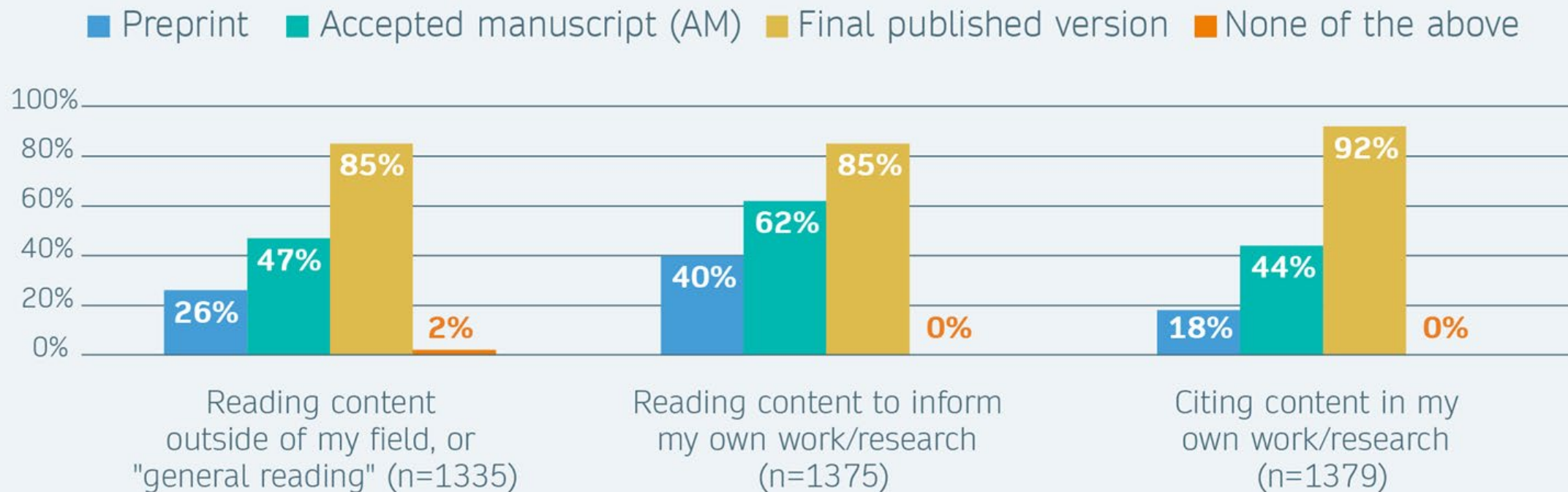
Gold OA publishing offers the simplest, most open, and most sustainable route to OA and open science

FACTOR		GOLD OA	GREEN OA
	Version	✓ Final published <u>version of record (VOR)</u> , after any copyediting and typesetting	* Usually incomplete <u>author's accepted manuscript (AAM)</u> after peer review but before copyediting and typesetting
	Location and discoverability	✓ Article freely available and easily discoverable on <u>publisher's platform</u> , alongside other relevant content	* Article made available <u>somewhere other than publisher's website</u> , e.g. repository, or author's homepage – less discoverable
	Research integrity	✓ Publisher ensures VOR is <u>up-to-date</u> , and linked to any post-publication corrections	* Version <u>may not be updated</u> in sync with VOR
	Licensing	✓ <u>Open licence</u> (e.g. CC BY) allows users to build on, adapt, and share onwards	* Rights/re-use may be <u>limited</u>
	Open research ecosystem	✓ Can be <u>bi-directionally linked</u> to and from other open outputs, e.g. data	* <u>Less easily integrated</u> into OR ecosystem due to multiplicity of versions
	Viability of full OA transition	✓ Publishing infrastructure funded via APCs/ transformative agreements – <u>transition to full OA is possible</u>	* Reliant on <u>existence of subscriptions</u> to fund publishing infrastructure – transition to fully OA system not possible

Researchers want access to the article version of record (VOR)

Our white paper shows that researchers overwhelmingly prefer the article VOR, both for general reading and for citing.

For each of the following actions, which article format(s) would you feel comfortable working with? (multi select)



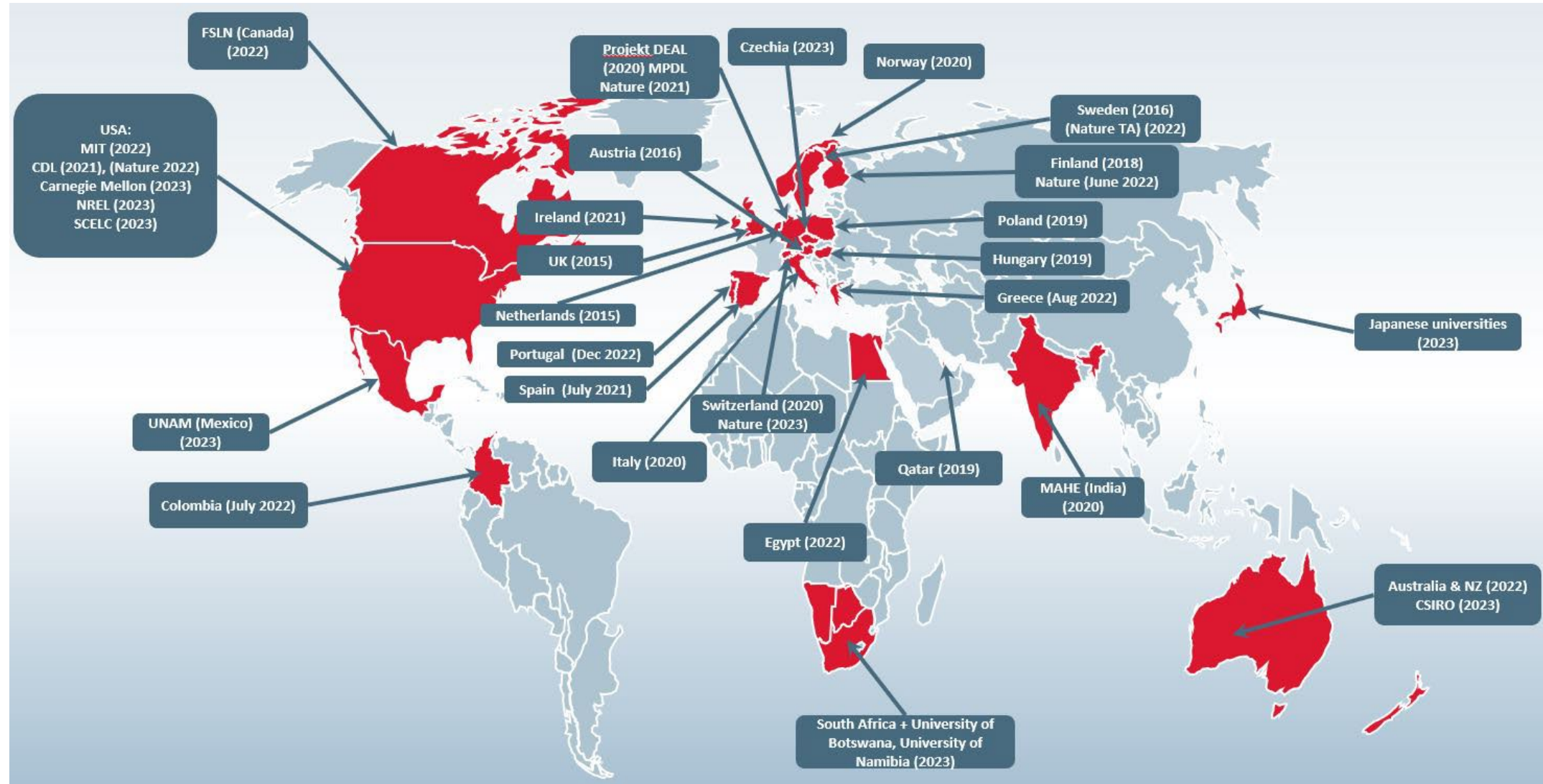
Read more in our press release and white paper:

<https://group.springernature.com/fr/group/media/press-releases/new-research-on-version-of-articles-researchers-prefer/18866902>

SPRINGER NATURE GROUP

Transformative Agreements streamline the funding process

Springer Nature is a leader in implementation at the national and consortia/institutional levels



Publishers are catalysts of Open Science

Going beyond publications

Authors rely on publishers to provide **support for the sharing of research objects**.

Integrated solutions to deposit preprints, data and code as part of the manuscript submission system have demonstrated that facilitating the process for authors **increases uptake** of open science practices

SN aims to provide **policies and services** that support authors follow **open research practices**. We do this via **partnerships** (Figshare, Code Ocean and Protocol Exchange/RSQ) that facilitate and promote the sharing of research objects as part of the article publication experience.

Growing focus on improving data sharing

Growing requirements for authors

Open Access | Published: 15 March 2016

The FAIR Guiding Principles for scientific data management and stewardship

Mark D. Wilkinson, Michel Dumontier, ... Barend Mons  [+ Show authors](#)

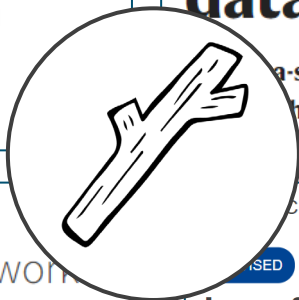
Scientific Data **3**, Article number: 160018 (2016) | [Cite this article](#)

451k Accesses | **3993** Citations | **1958** Altmetric | [Metrics](#)

NEWS | 16 February 2022 | Correction [16 February 2022](#)

NIH issues a seismic mandate: share data publicly

A data-sharing policy could set a global standard for biomedical research, scientists say. They have questions about logistics and equity.



Practice Papers

Developing a Research Data Policy Framework for All Journals and Publishers

Authors: Iain Hrynaszkiewicz , Natasha Simons, Azhar Hussain, Rebecca Grant, Simon Goudie

PREPRINT ARTICLE 

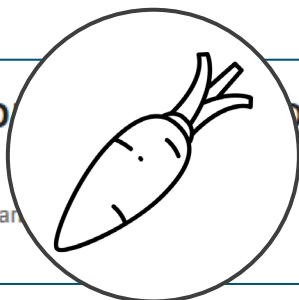
Open Peer Review: Data Management Plans in Horizon 2020: what beneficiaries think and what we can learn from their experience [version 2; peer review: 2 approved, 1 approved with reservations]

Daniel Spichtinger  

The citation advantage of linking publications to research data

Giovanni Colavizza, Iain Hrynaszkiewicz, Isla Staden, Kirstie Whitaker, Bar

Published: April 22, 2020 • <https://doi.org/10.1371/journal.pone.0230416>



↑ 25% more citations

Integrating with the figshare data repository

Lowering the barrier of effort for best practice

Springer Nature is partnering with **figshare** at seven Nature Portfolio and Academic Journals, providing authors with a simple solution to share their data into a repository.

- **Ease of use:** facilitating deposition during manuscript submission encourages data sharing by authors who haven't yet used a repository.
- **Automation:** integrated deposition is quick, easy and allows coordination of manuscript and data progress.
- **Integrity:** data are made available to reviewers and editors prior to being made publicly available.
- **Control:** data are stored privately until publication of the related article.
- **Expert support:** data specialists check all submissions and provide feedback to authors.
- **Flexibility:** submissions can be handled up to 50GB, covering a wide range of disciplines and data types

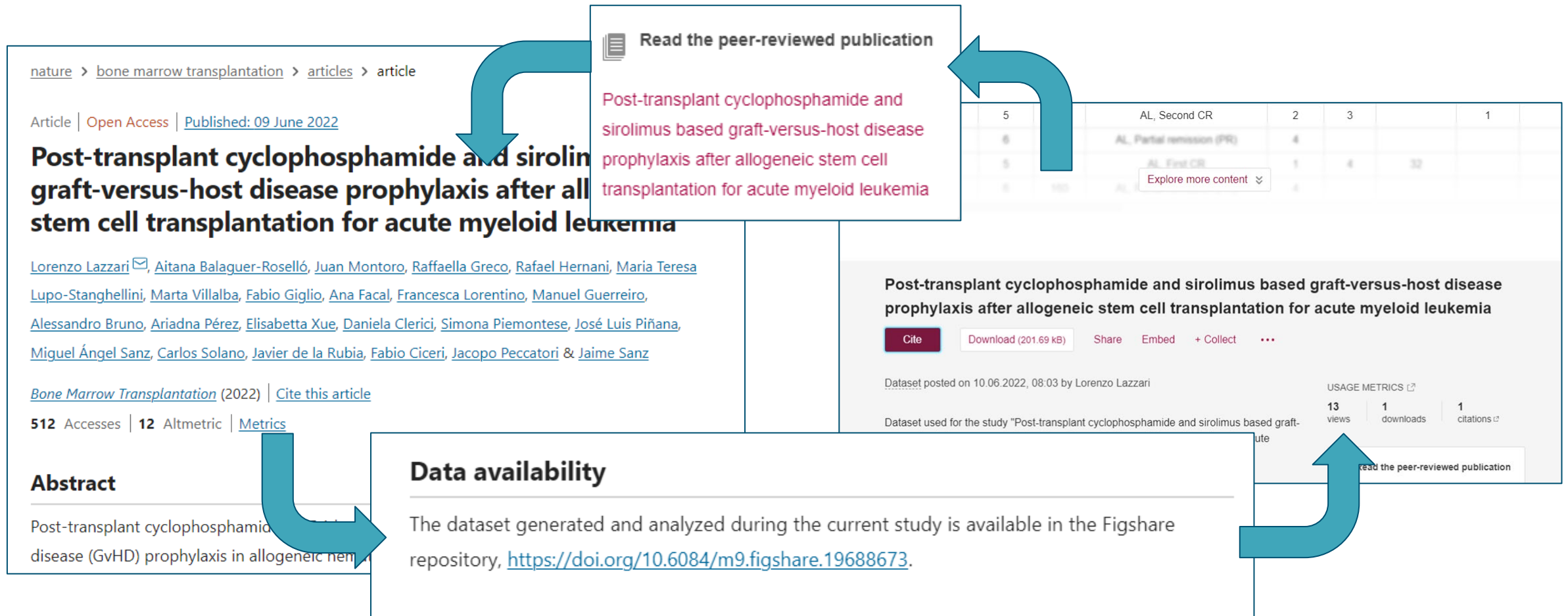


ACADEMIC JOURNALS
ON NATURE.COM

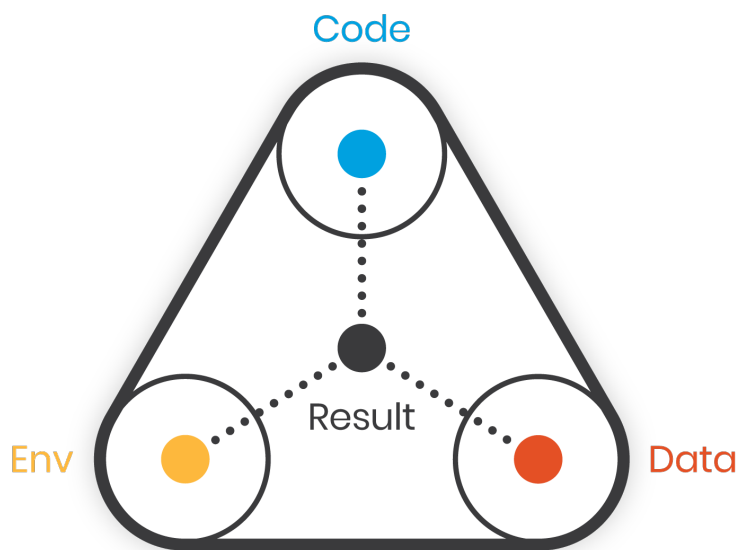


The published output

Linked article and data



Partnership with Code Ocean to support sharing of open executable code



nature machine intelligence

Explore content | Journal information | Publish with us | Subscribe

nature > nature machine intelligence > articles > article

Article | Published: 01 March 2021

Out-of-the-box deep learning prediction of pharmaceutical properties by broadly learned knowledge-based molecular representations

Wan Xiang Shen, Xian Zeng, Feng Zhu, Ya li Wang, Chu Qin, Ying Tan, Yu Yang Jiang & Yu Zong Chen

Nature Machine Intelligence 3, 334–343(2021) | Cite this article

1275 Accesses | 18 Altmetric | Metrics

Abstract

Successful deep learning critically depends on the representation of the learned objects. Recent state-of-the-art pharmaceutical deep learning models successfully exploit graph-based de novo learning of molecular representations. Nonetheless, the combined potential of human expert knowledge of molecular representations and convolution neural networks has not been adequately explored for enhanced learning of pharmaceutical properties. Here we show that broader exploration of human-knowledge-based molecular representations enables more enhanced deep learning of pharmaceutical properties. By broad learning of 1,456 molecular descriptors and 16,204 fingerprint features of 8,506,205 molecules, a new feature-generation method MolMap was developed for mapping these molecular descriptors and fingerprint features into robust two-dimensional feature maps. Convolution-neural-network-based MolMapNet models were constructed for out-of-the-box deep learning of pharmaceutical properties, which outperformed the graph-based and other established models on most of the 26 pharmaceutically relevant benchmark datasets and a novel dataset. The MolMapNet learned important features that are consistent with the literature-reported molecular features.



Code Ocean interface showing a 'Reproducible Run' of the article. The main content is a 2D embedding plot titled '2D embedding of fingerprint based on umap method' with 'number of fingerprint: 1303, metric method: cosine'. The plot shows a dense cluster of points colored by category: MACCSFP (blue), PharmacoERGFP (green), and PubChemFP (purple). A tooltip for 'PharmacoERGFP' is visible. The x-axis ranges from 2 to 10.

Timeline of the run:


- Feb 10, 2021: Published Version 1.0 (Currently viewing)
- Author ran Feb 10, 2021 (00:21:57)
- Published Result:
 - BACE_novel_set.svg (32.66 KB)
 - BACE_novel_pred.csv (36.51 KB)
 - BACE_test_set.svg (28.44 KB)
 - BACE_test_pred.csv (12.03 KB)
 - BACE_valid_set.svg (29.32 KB)
 - BACE_valid_pred.csv (13.16 KB)
 - descriptor_1344_cosin... (111.22 KB)
 - descriptor_1344_cosi... (155.26 KB)
 - descriptor.mp (35.49 MB)
 - ESOL_loss.png (123.58 KB)
 - ESOL_test_pred_vs_obs... (93.76 KB)
 - ESOL_train_history.csv (23.47 KB)
 - fingerprint_1303_cosi... (116.83 KB)
 - fingerprint_1303_cosi... (158.63 KB)
 - fingerprint.mp (16.55 MB)
 - output (165.26 KB)
- SHEN WANXIANG, Charles committed Feb 10, 2021 (Version 1.0)
- Feb 10, 2021: Created capsule

Positive engagement and response from the community

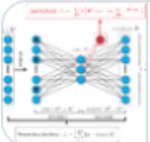
- Average 54% uptake from authors of offered service
- High engagement by reviewers (24 views per capsule; 1.3 runs per capsule)
- Positive feedback from the community


 **Benjamin Haibe-Kains** @.. · Jan 2, 2020 
Replying to @bhaibeka and @nature



5/5 As a community, we must do better. The Journals should pay attention to this. Research reproducibility is not an unattainable dream, it is a duty and we have the technologies so no excuse.

 **Declan O'Regan**
@DrDeclanORegan

For our paper in [@NatMachIntell](#) we put everything on [@CodeOceanHQ](#) including a simulated dataset. There are no excuses for avoiding reproducibility.


 **4Dsurvival: Deep learning cardiac motion analysis for human survival...**
[codeocean.com](#)

2:15 PM · Jan 21, 2020 

 6  See Declan O'Regan's other Tweets

Code availability





All source codes and models of DeepFragLib are publicly available through a Code Ocean compute capsule (<https://doi.org/10.24433/CO.3579011.v1>)⁴⁹ and on GitHub (<https://github.com/ElwynWang/DeepFragLib>). We have also provided an online server for DeepFragLib at <http://structpred.life.tsinghua.edu.cn/DeepFragLib.html>.

 **Dr. Rachel Kurchin**
@rachel_kurchin

Just had an absolute joy of a reviewing experience for [@NatComputSci](#) – really interesting paper that I felt I could help strengthen even more, and solid code capsule on [@CodeOceanHQ](#) as part of the package too! May all reviews be so educational and fun! AND HAVE INLINE FIGURES

1:07 PM · Mar 12, 2021 · Twitter for iPhone

1 Retweet 6 Likes

THANK YOU

“If rapidly and openly sharing research data and papers is critical to understanding and combating coronavirus, doesn’t the same hold true for Cancer? Heart disease? Climate change? The scientific community—moving with great speed and clarity of purpose—has clearly signaled that open science is the most efficient way to tackle issues that have a significant and direct effect on the lives of the general public. The unambiguous conclusion is that **open is better for science.**”

Scientific American

SPRINGER NATURE GROUP

Publishers as partners in open science

David Weinreich

Director, Public Affairs

STM

(International Association of Scientific, Technical, and Medical Publishers)

2nd March 2023

STM

Contact me:

weinreich@stm-assoc.org

202-599-0639

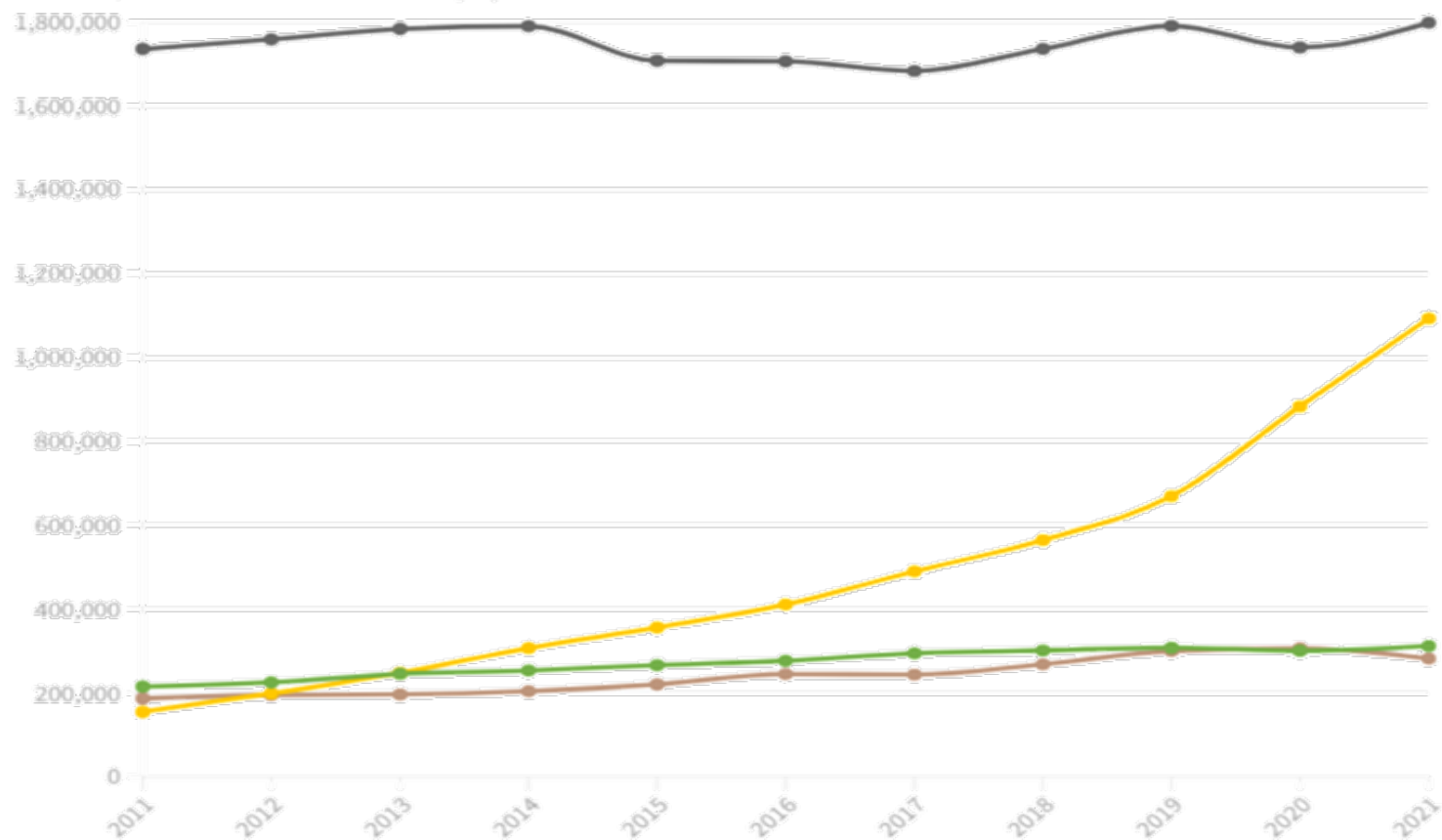
Open Science is the Future



Open Science is Now

Gold Green Bronze Subscription-only

Articles, reviews and conference papers



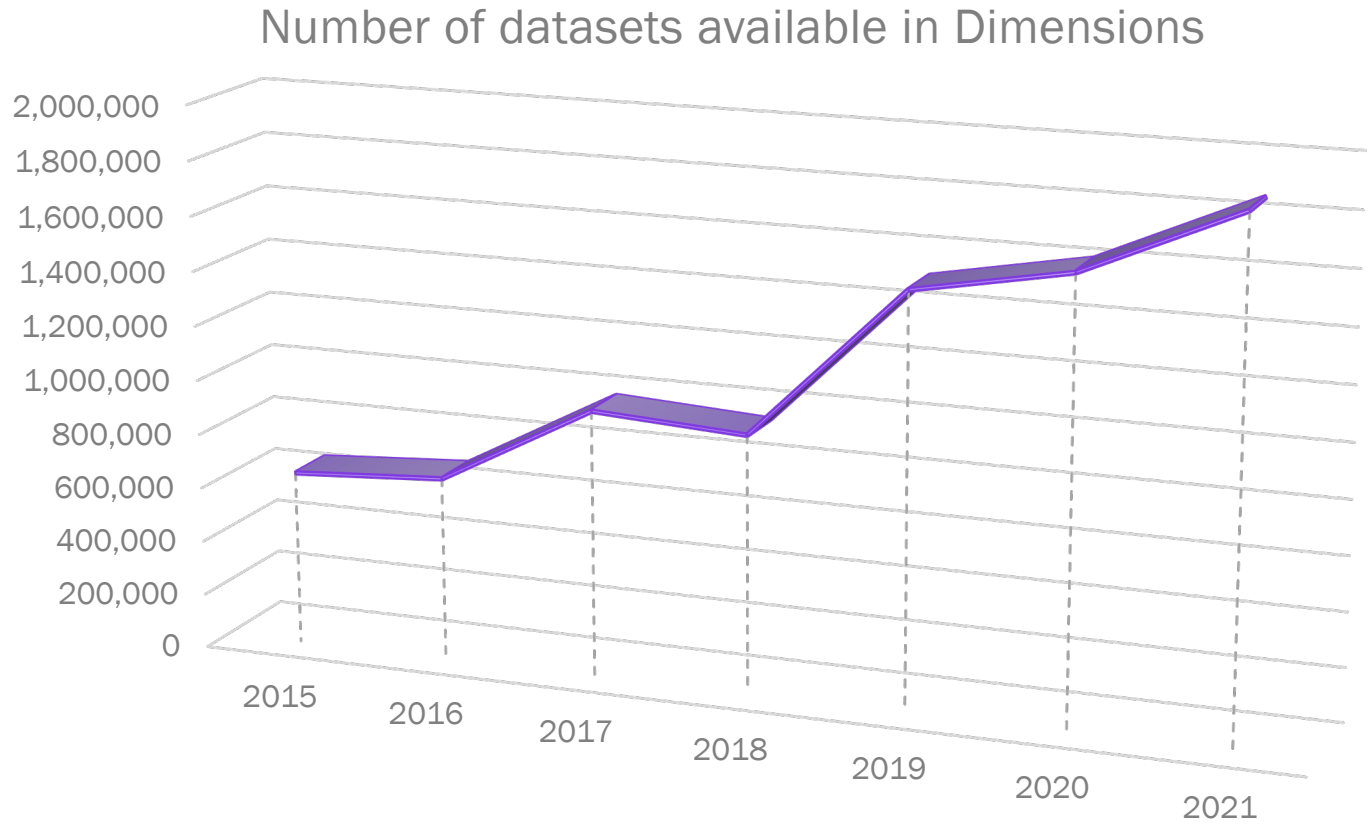
Article growth overall:

- Historically 3-4%
- Accelerating 7-8%
- (# of journals slowing)

Open Access

- ~10% growth

Open Science is Now

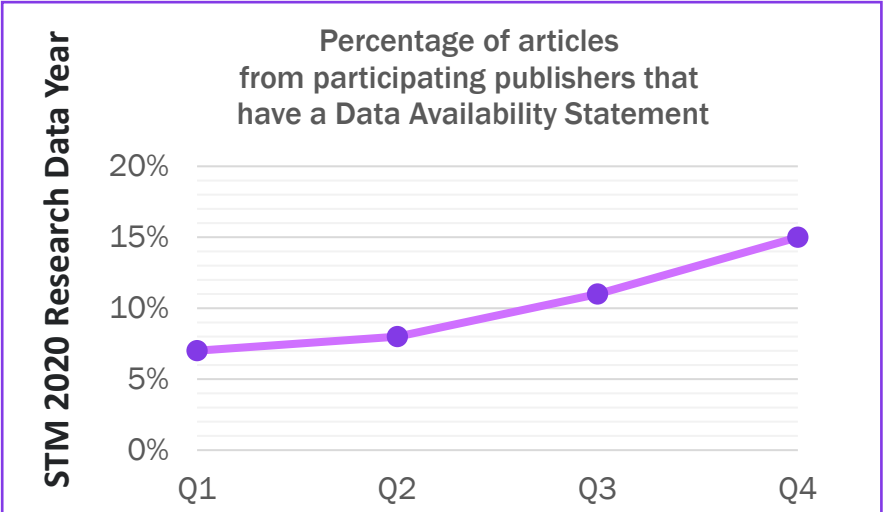


Dataset availability

- # datasets tripled over last 6 years

Focused attention makes difference

- % articles with data availability stmt tripled in 1 yr with STM data initiative



Source: Dimensions https://app.dimensions.ai/discover/data_set

Source: <https://www.stm-assoc.org/research-data-program/>

What is driving growth?



Publishers



Institutions



Funders



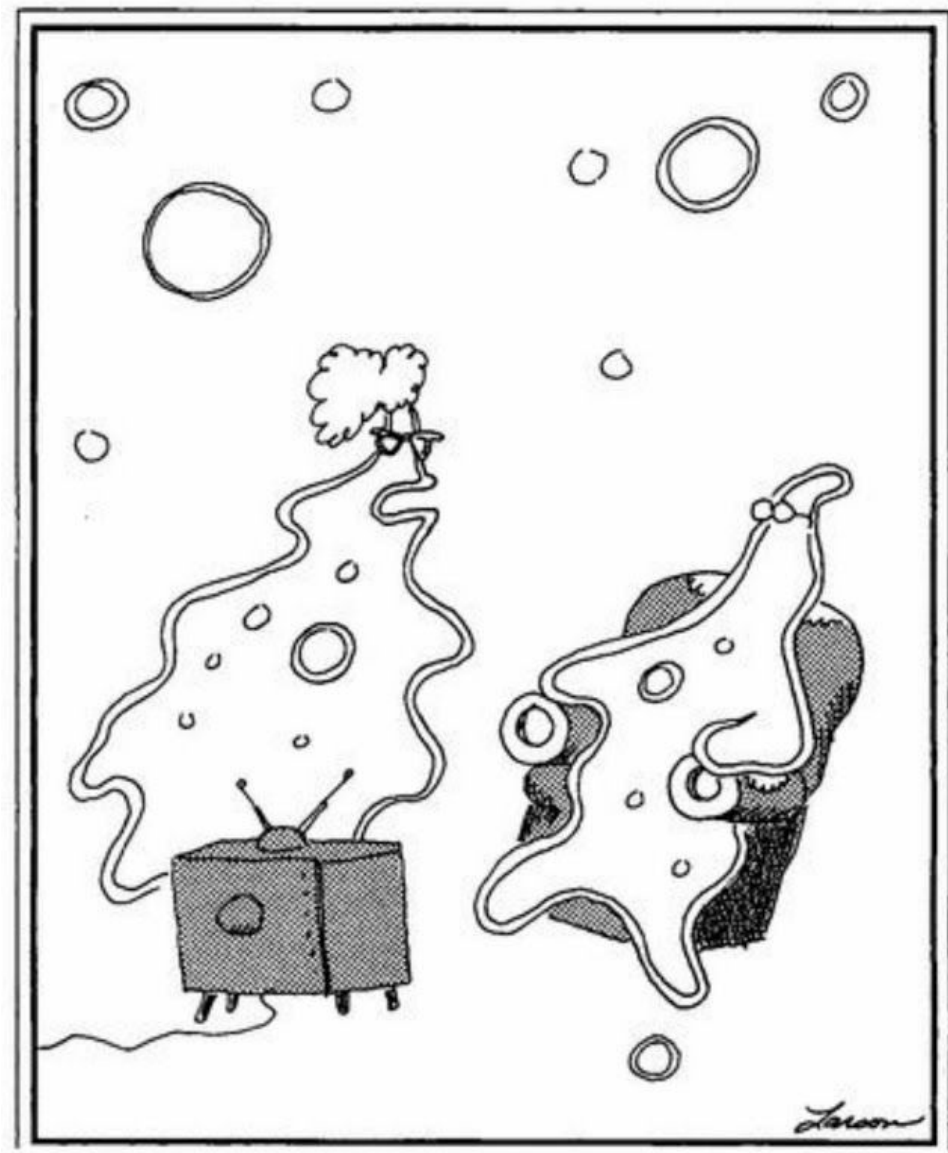
Other
policymakers



Research
communities

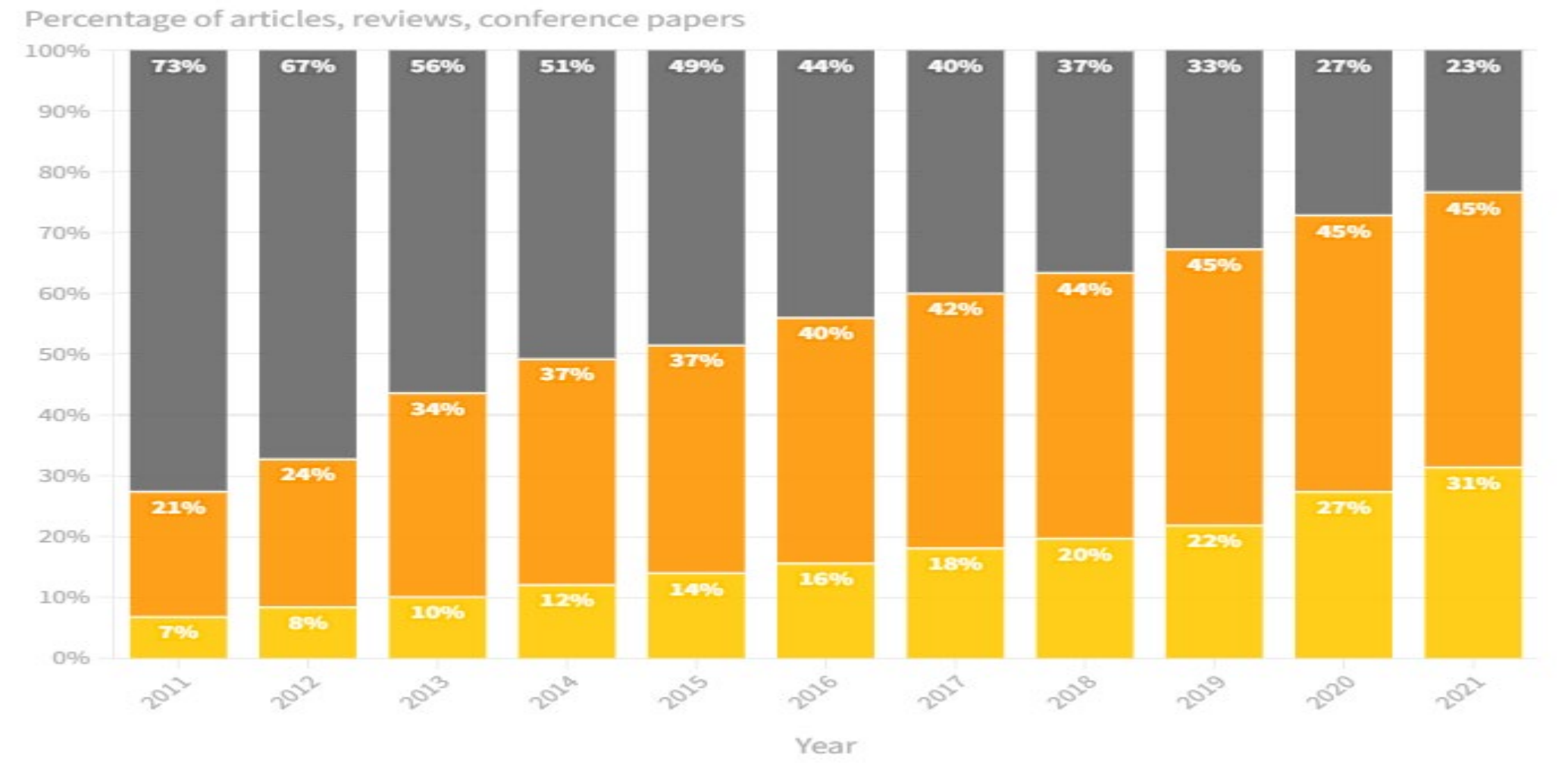


Others?



“Stimulus, response! Stimulus, response! Don’t you ever think?”

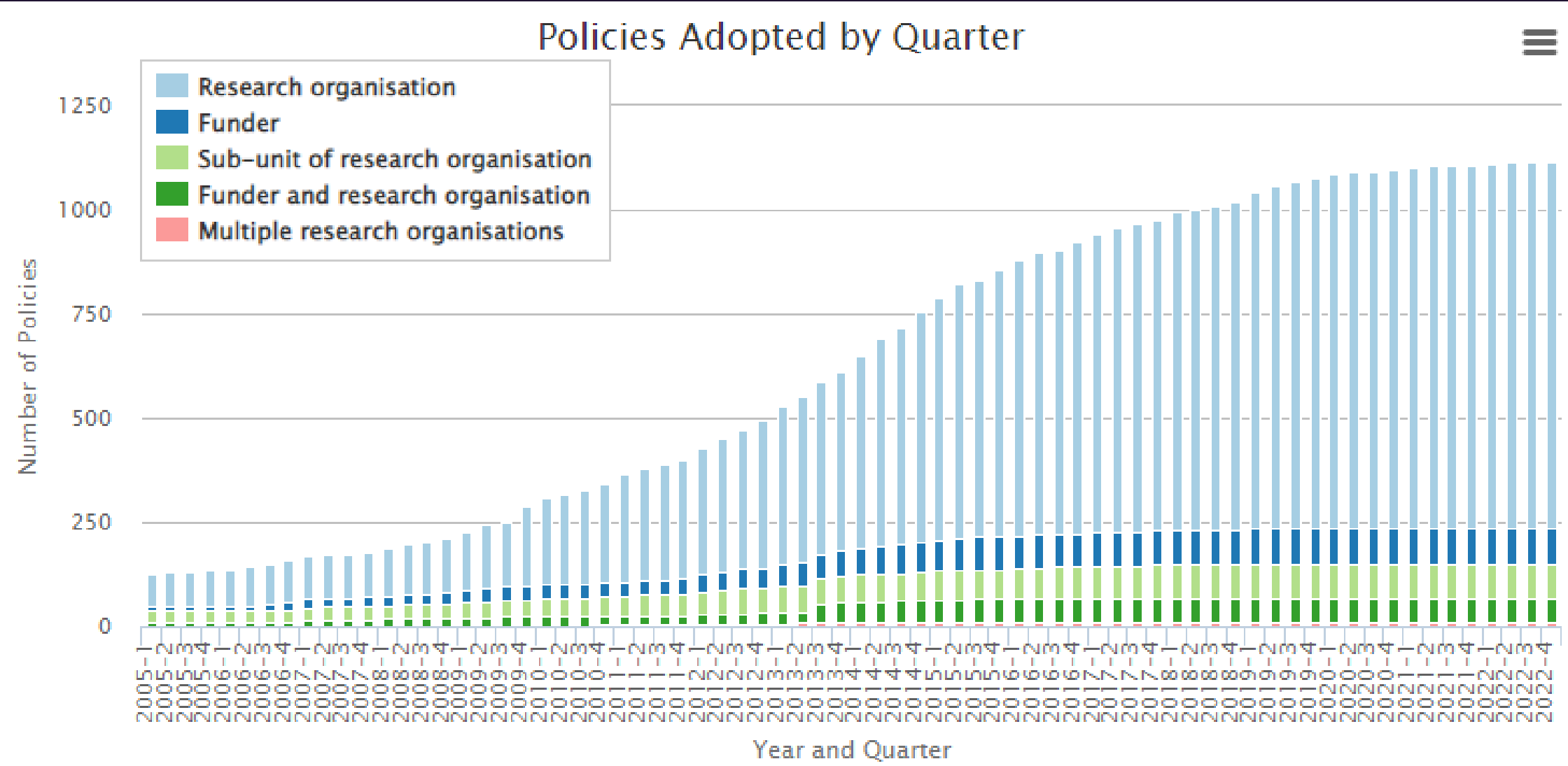
Publishers increasing options



Authors: ■ offered and published OA ■ offered but did not select OA ■ not offered option for OA

Based on Scopus data, Feb 2023

Funders/institutions increasing mandates

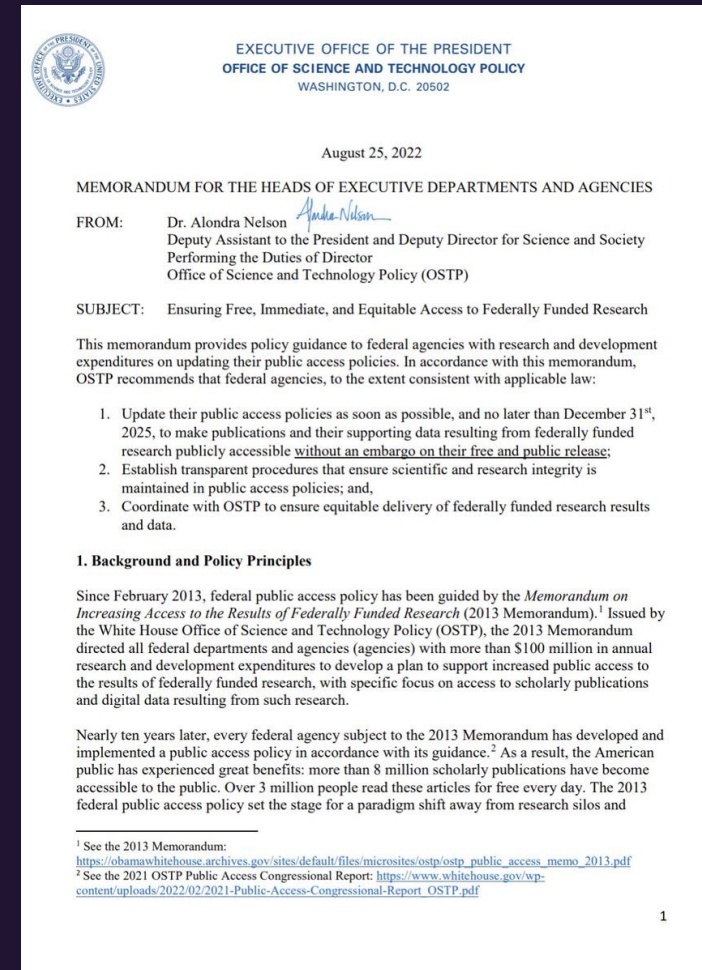


OSTP Nelson Memo on Ensuring Immediate Public Access to Federally Funded Research Results

Requires all federal agencies to:

“Update their public access policies as soon as possible, and not later than December 31, 2025, to make publications and their supporting data resulting from federally funded research publicly accessible without an embargo on their free and public release.”

- August 25, 2022



Publishing is valued, necessary

Publishers ensure the integrity, availability, interoperability, discoverability of the scholarly record

- Quality assurance
- Permanence & accountability
- Findability
- Connectivity

Federal policy requires sharing of manuscripts after peer-review

Researchers prefer the version of record

STM

A piece of research is not completed until it is published.

-- Robert Kiley, Wellcome Trust

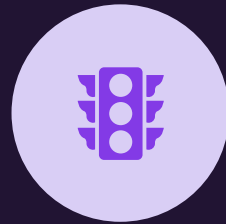
How can publishing continue to be supported?



DIRECT FUNDING
(E.G. GOLD)



TRANSFORMATIVE
AGREEMENTS



SUBSCRIPTIONS



DIAMOND



COMMUNITY-BASED



OTHERS

Fully-funded open access (gold OA) is the best way forward.

Mechanisms needed to support quality publishing

Experimentation happening:

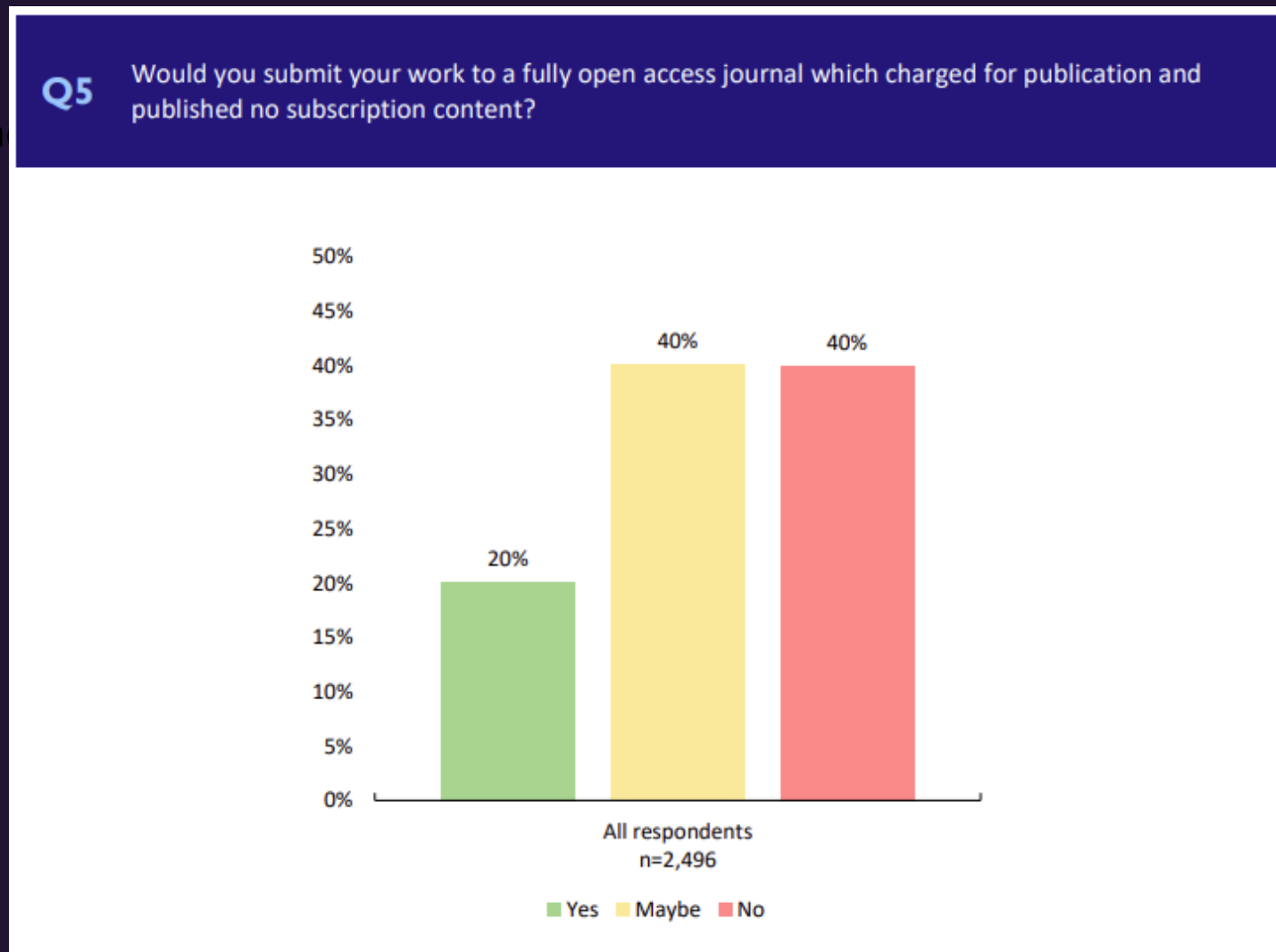
- New models, approaches
- Bundling, micropayments

Some efficiencies may be available, but costs are real

Need to help researchers embrace and budget for open science

Researchers not embracing funded open access

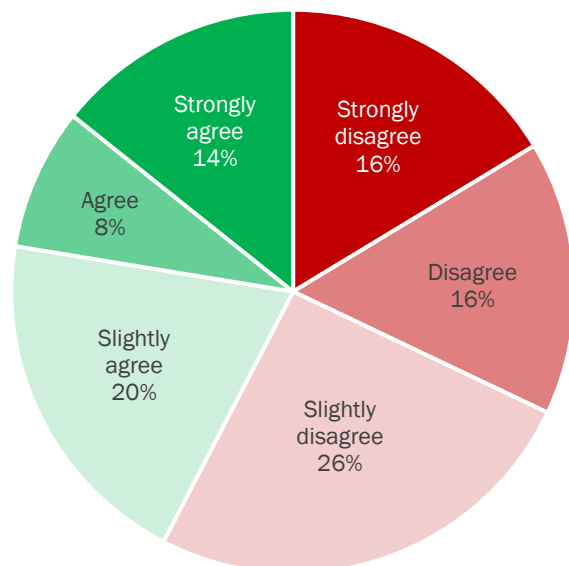
Paying article processing charges for open access



Researchers not embracing funded open access

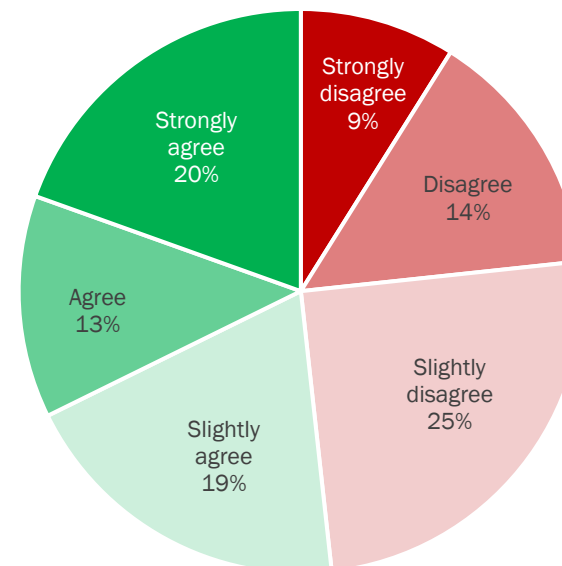
Paying a

Paying article processing charges for open access is a reasonable alternative to subscription fees.



nable alt

If the journals in which I typically publish became fully open access with APCs, I would find alternative ways to publish my research



UC Davis' Pay it Forward researcher survey (conducted 2015). Survey data:

<https://datadryad.org/stash/dataset/doi:10.5060/d8z59f> Report: https://library.ucdavis.edu/wp-content/uploads/2022/07/ICIS-UC-Pay-It-Forward-Final-Report.rev_.7.18.16.pdf

How to work together to ensure quality, integrity, availability?



Support researcher understanding of requirements, options



Addressing administrative burdens (budgeting, planning, funding)



Working through issues that affect compliance, funding flows



Ensure versions are linked, updated, technically useful

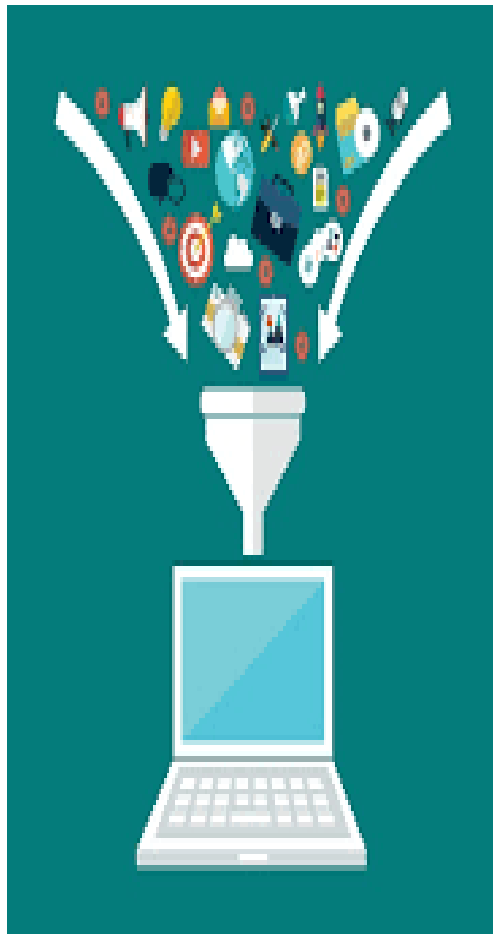


Address equity concerns for less-well-funded researchers



Support all publishers, funding models

How to work together on data sharing



Publishers
support
“share, cite,
link”

Institutions
address
costs,
curation

How can we ensure, assess quality of data?

How will researchers be encouraged/required to budget for costs?

Can we work on education/signposting together?

Can we share information for allegations of misconduct?

The future is open; we need to get there together



DIVERSITY, EQUITY, & INCLUSION IN SCIENTIFIC PUBLICATION

The American Journal of Public Health Perspective

Alfredo Morabia, MD, PhD

Editor in Chief, AJPH

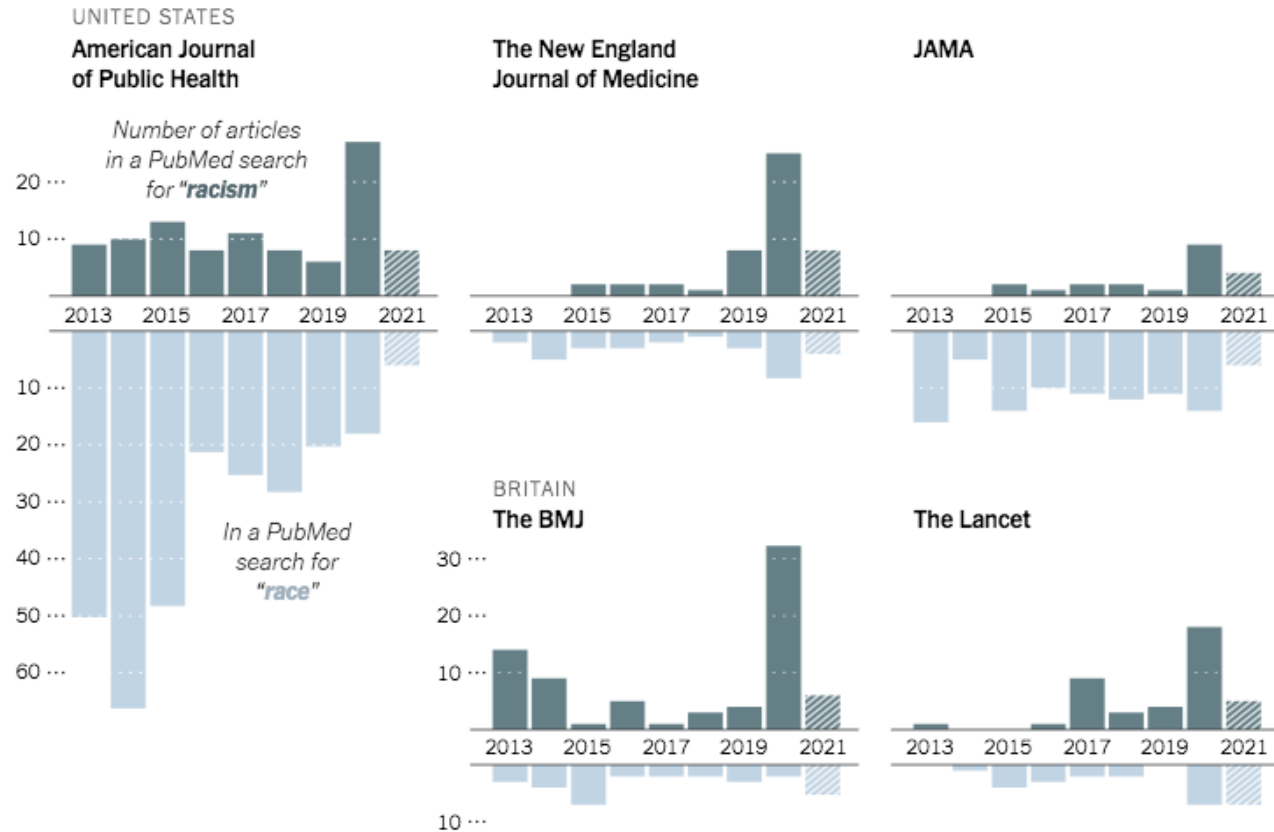
OUTLINE

- How it all started
- What AJPH is working on
- The Open Access dilemma

HOW IT ALL STARTED

'Race' and 'Racism' in Prominent Medical Journals

Five influential medical journals published more articles that included the word "racism" in 2020 than they had in previous years. Only JAMA still published more articles on race as a socioeconomic concept than those that addressed systemic racism.



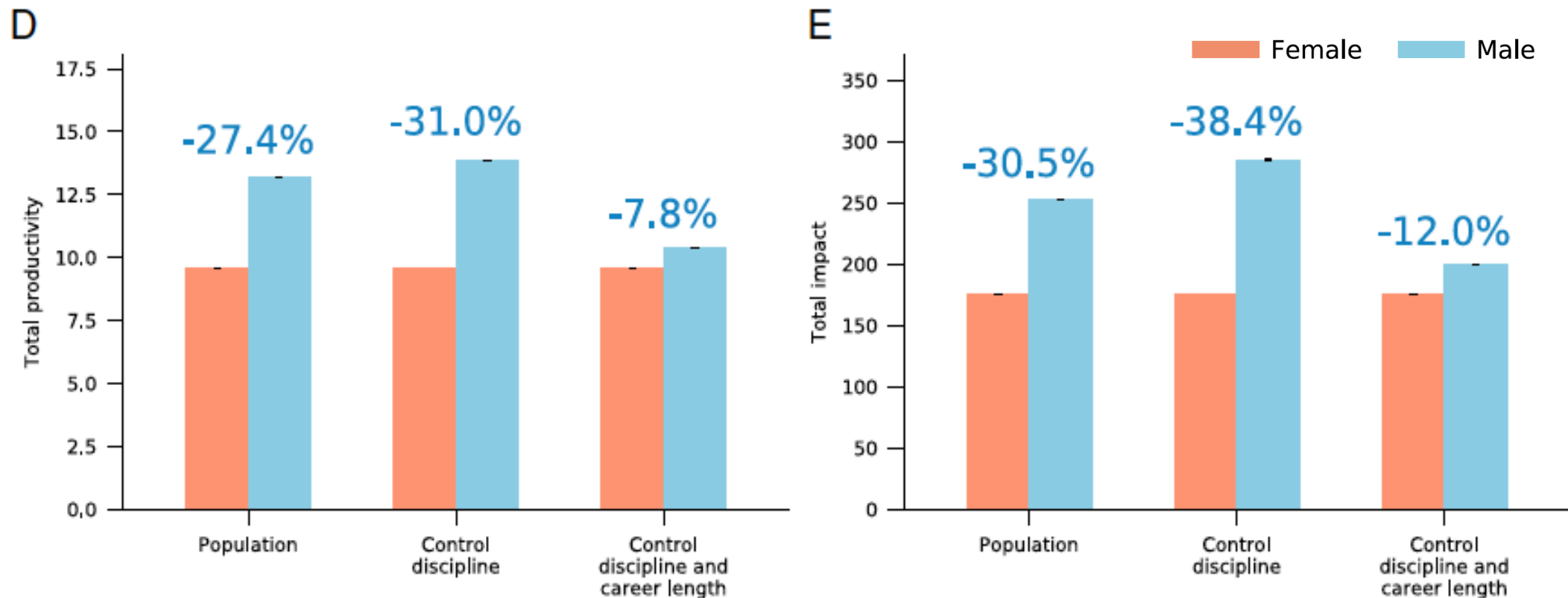
DIVERSITY, EQUITY, AND INCLUSION IN
SCHOLARLY PUBLICATION
FUNDED BY THE ROBERT WOOD JOHNSON FOUNDATION

QUESTION I:

What is the prevalence of diversity and inclusion within scholarly publication and how pervasive is the magnitude of its effect within the field?

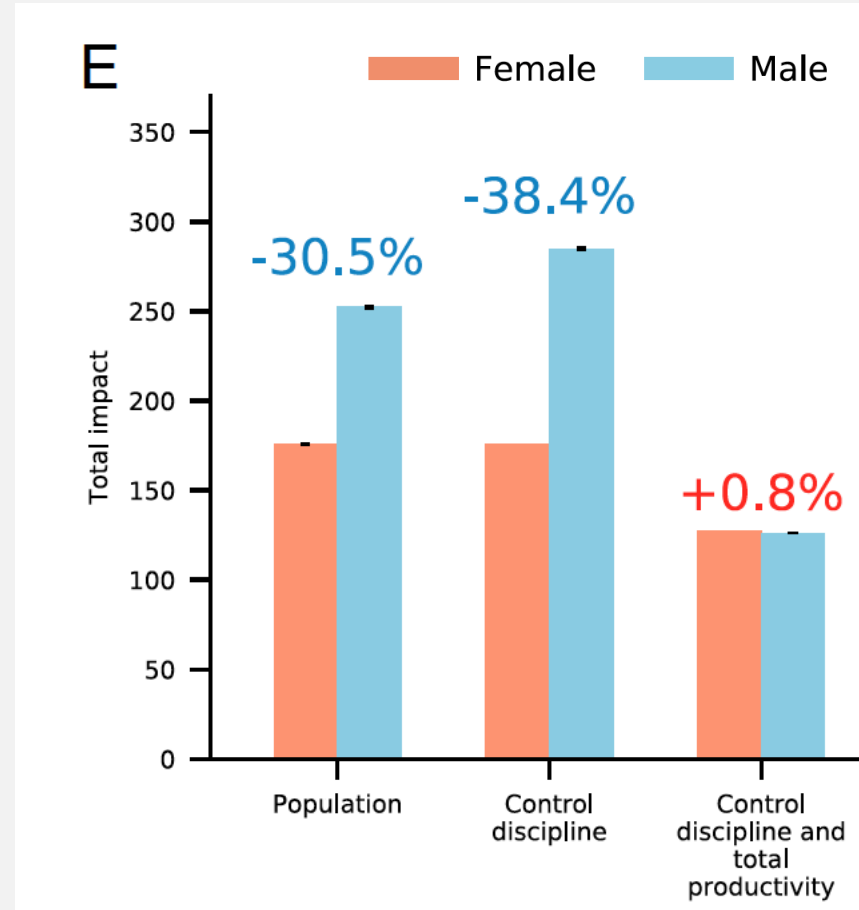
Historical comparison of gender inequality in scientific careers across countries and disciplines

Junming Huang^{a,b,c,1}, Alexander J. Gates^{a,1}, Roberta Sinatra^{d,e} , and Albert-László Barabási^{a,f,g,h,2} 



Historical comparison of gender inequality in scientific careers across countries and disciplines

Junming Huang^{a,b,c,1}, Alexander J. Gates^{a,1}, Roberta Sinatra^{d,e} , and Albert-László Barabási^{a,f,g,h,2} 



DIVERSITY, EQUITY, AND INCLUSION IN
SCHOLARLY PUBLICATION
FUNDED BY THE ROBERT WOOD JOHNSON FOUNDATION

QUESTION 2:

What are the causes and mechanisms that continue to facilitate a lack of diversity within scholarly publication?

ARTICLE

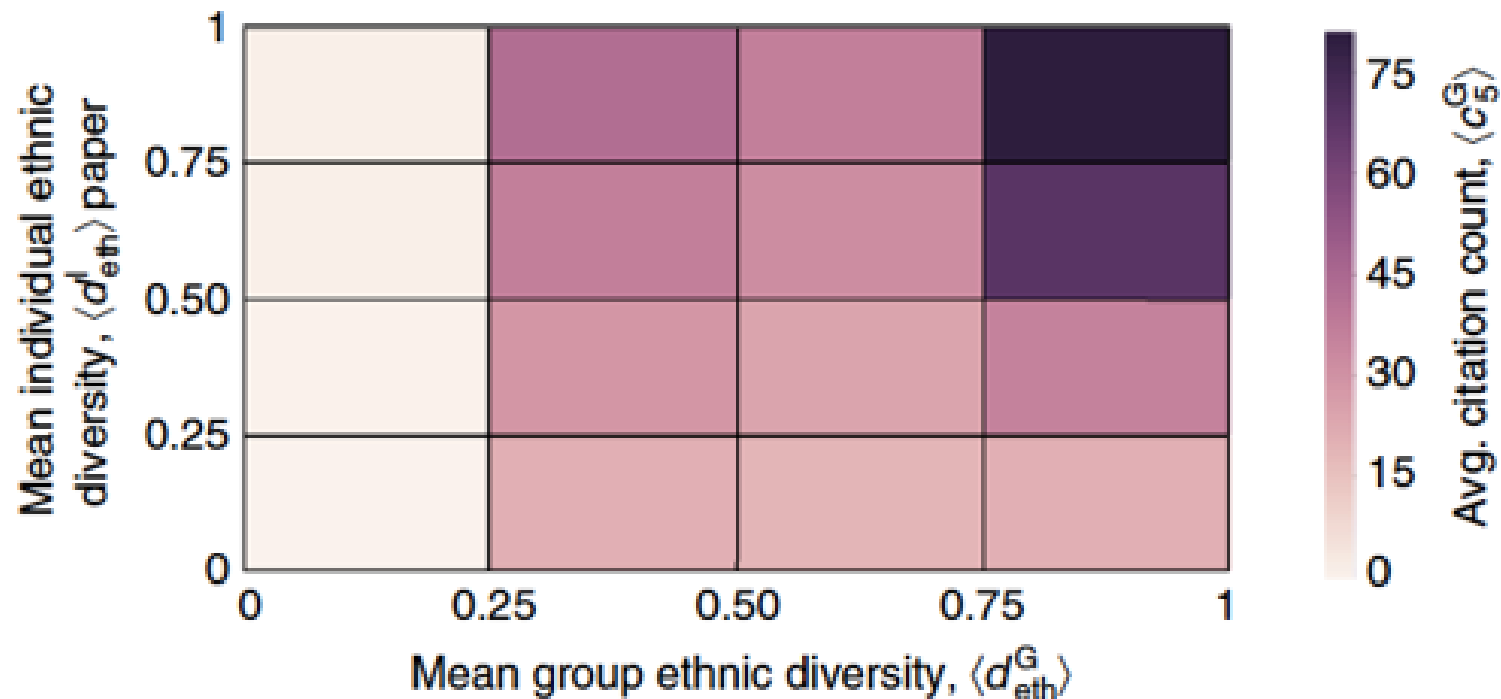
DOI: 10.1038/s41467-018-07634-8

OPEN

The preeminence of ethnic diversity in scientific collaboration

Bedoor K. AlShebli¹, Talal Rahwan^{1,2} & Wei Lee Woon^{1,3}

Average Citation Count Based on Diversity of Authorship, Alshebli et al., 2018



(Alshelbi, 2018)

DIVERSITY, EQUITY, AND INCLUSION IN
SCHOLARLY PUBLICATION
FUNDED BY THE ROBERT WOOD JOHNSON FOUNDATION

QUESTION 3:

- What are practices and interventions to generate a more diverse, equitable, and inclusive science?
- How can we all learn from these initiatives?

THE OPEN ACCESS DILEMMA

- The case of non-profit journals
- Subscriptions (institutional) vs open access fees
- Funding research vs funding publication

eLife and its impact on science communication

Lara Urban · March 2nd 2023



- **a non-profit to drive reform in science communication**
& a peer-reviewed, open-access scientific journal for the biomedical and life sciences
- established at the end of 2012 by the Howard Hughes Medical Institute, Max Planck Society, and Wellcome Trust



eLife Early-Career Advisory Group (ECAG)



Mariana De Niz
Institut Pasteur, France



Florencia Fernández Chiappe
Biomedicine Research Institute of Buenos Aires - CONICET - Partner Institute of the Max Planck Society



Laura Han
University of Melbourne, Australia



Regina Mencia
Instituto de Agrobiotecnología del Litoral, Argentina



Divyansh Mittal
Center for Integrative Genomics, Faculty of Biology and Medicine, University of Lausanne, Switzerland



Elizabeth Ochola
Kenya Medical Research Institute, Kenya



Carolina Quezada
Universidad Católica de la Santísima Concepción, Chile



Facundo Romani
University of Cambridge, United Kingdom



Lana Sinapayen
Sony Computer Science Labs, Japan



Andy Tay
Stanford University, United States
National University of Singapore, Singapore



Lara Urban
University of Otago, New Zealand



Aalok Varma
National Centre for Biological Sciences (NCBS), India



Lamis Yahia Mohamed Elkheir
University of Khartoum, Sudan



eLife ECAG

Aim: to establish standards for diversity, equity, and inclusion

- across eLife
 - discuss next steps to revolutionise the **scientific peer review and publishing system**
 - increase involvement of early-career researchers and underrepresented scientists in the **editorial board** and **reviewer pool**
- beyond eLife
 - create peer networks and the **eLife Ambassadors program**
 - award **grants to early-career and underrepresented authors**
 - showcase early-career talents and perspectives through **interviews, podcasts** and **webinars**





AUGUST 25, 2022

OSTP Issues Guidance to Make Federally Funded Research Freely Available Without Delay

[OSTP](#)[BRIEFING ROOM](#)[PRESS RELEASES](#)

Today, the White House Office of Science and Technology Policy (OSTP) updated U.S. policy guidance to make the results of taxpayer-supported research immediately available to the American public at no cost. In a [memorandum](#) ↗ to federal departments and agencies, Dr. Alondra Nelson, the head of OSTP, delivered guidance for agencies to update their public access policies as soon as possible to make publications and research funded by taxpayers publicly accessible, without an embargo or cost. All agencies will fully implement updated policies, including ending the optional 12-month embargo, no later than December 31, 2025.


The advent of preprints

Peer Review: Implementing a "publish, then review" model of publishing



From July 2021 eLife will only review manuscripts already published as preprints, and will focus its editorial process on producing public reviews to be posted alongside the preprints.

Dec 1, 2020 · <https://doi.org/10.7554/eLife.64910>  


Michael B Eisen , Anna Akhmanova, Timothy E Behrens, Diane M Harper,
Detlef Weigel, Mone Zaidi
eLife, United Kingdom

Scientific Publishing: Peer review without gatekeeping

eLife is changing its editorial process to emphasize public reviews and assessments of preprints by eliminating accept/reject decisions after peer review.



Oct 20, 2022 · <https://doi.org/10.7554/eLife.83889>  

Michael B Eisen , Anna Akhmanova, Timothy E Behrens, Jörn Diedrichsen,
Diane M Harper, Mihaela D Iordanova, Detlef Weigel, Mone Zaidi
eLife, United Kingdom

eLife's new model



- eLife will no longer accept/reject decisions after review
- eLife will publish all manuscripts with reviews and eLife assessment
- The **reviewed preprint** is a citable object
- Authors will control decision if/when to revise and if/when to publish a version of record
- Upfront APC of \$2,000 with fee waiver option

eLife assessments

- Capture the **major conclusions of the review**
- Aim for more consistency by drawing on shared vocabulary
- Written for a **general audience**

Significance of Findings	Strength of Evidence
Landmark: findings with profound implications that are expected to have widespread influence	Exceptional: exemplary use of existing approaches that establish new standards for a field
Fundamental: findings that substantially advance our understanding of major research questions	Compelling: evidence based on methods, data and analyses more rigorous than the current state-of-the-art
Important: findings that have theoretical or practical implications beyond a single subfield	Convincing: appropriate and validated methodology in line with current state-of-the-art
Valuable: findings that have theoretical or practical implications for a subfield	Solid: methods, data and analyses broadly support the claims with only minor weaknesses
Useful: findings that have focused importance and scope	Incomplete: main claims are only partially supported
None: for findings with no anticipated impact	Inadequate: methods, data and analyses do not support the primary claims

A reviewed preprint

Curation that communicates the editors' and reviewers' assessment of the impact and quality of the science with controlled vocabulary

The screenshot shows the eLife website interface for a research article. At the top, there is a navigation bar with the eLife logo and links for Home, Journal, Magazine, Community, and About. A search bar and a 'SUBMIT YOUR RESEARCH' button are also present. The article title is 'A connectome and analysis of the adult *Drosophila* central brain'. Below the title, the authors are listed: Louis K Scheffer, C Shan Xu, Michal Januszewski, Zhiyuan Lu, Shin-ya Takemura, Kenneth J Hayworth, Gary B Huang, Kazunori Shinomiya, Jeremy Maitlin-Shepard, and Stephen M Plaza. The article is categorized under 'Computational and Systems Biology, Neuroscience'. A 'Reviewed preprint' badge is prominently displayed on the right side of the article. Below the badge, there are buttons for 'Download', 'Cite', 'Follow', and 'Share'. A table shows the article's review timeline: 'Peer reviewed' on May 22, 2022; 'Sent for review' on Apr 19, 2022; and 'Preprint posted' on Mar 31, 2022. The abstract text is visible, and there is a section for 'eLife assessment' at the bottom of the page.

Indication that the work was made available as a preprint and reviewed by eLife

Full peer reviews available within the eLife website

Advantages of new eLife model



Restores control of publishing to authors



Focuses attention on what authors have published



Streamlines the process of peer review and publication, and gives certainty of process outcome



Provides richer and more nuanced, yet still compact, assessments for readers and for use in hiring and funding



Promote hiring and funding of scientists based on what, not where, they publish

External support

Strong support from eLife's funders as well as other funding bodies and research institutions



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