

New challenges to publish science in Chile and the world.

David Ramírez, PhD

Assistant professor

Pharmacoinformatics & Drug Design Lab

Pharmacology Department - University of Concepción

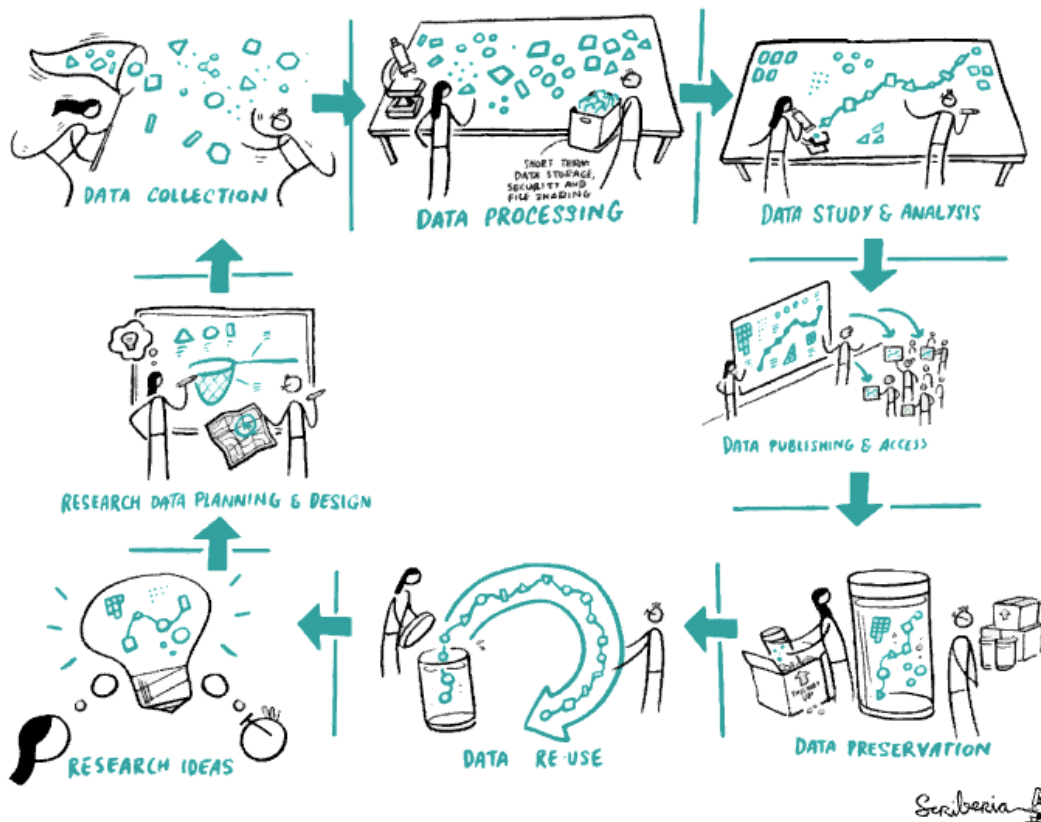
eLife ambassador 2022 - 2023



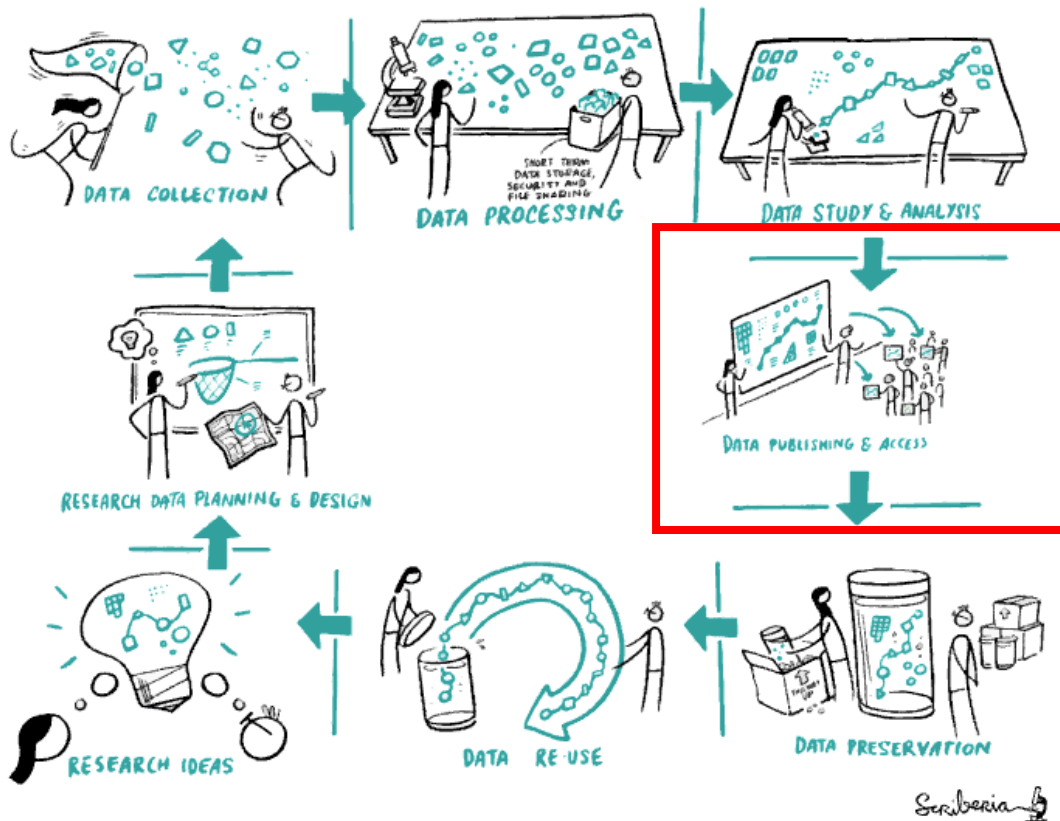
Universidad
de Concepción



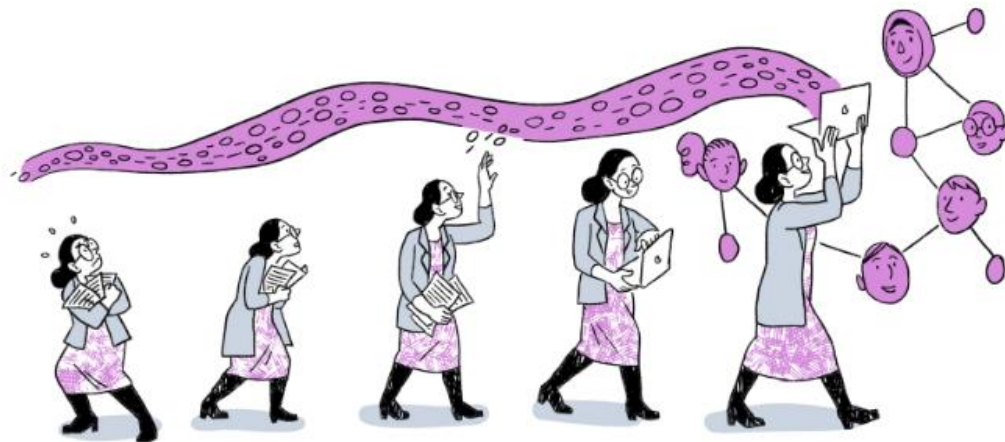
Overview of Reproducible Research



Overview of Reproducible Research



Open Science - Open Research



EVOLVING TOWARDS AN
ERA OF
OPEN RESEARCH

Scriberia

How we publish?

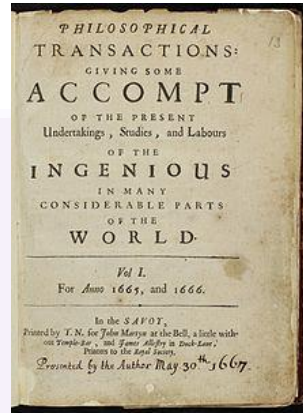
How we publish?

1665



THE ROYAL
SOCIETY

"The philosophical
Transactions"

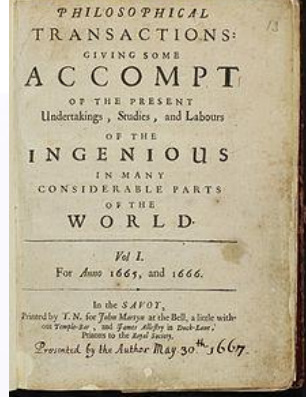


How we publish?

1665



THE ROYAL SOCIETY



"The Philosophical Transactions"

PEER REVIEW

DATE OF PUBLICATION



APPROVED!

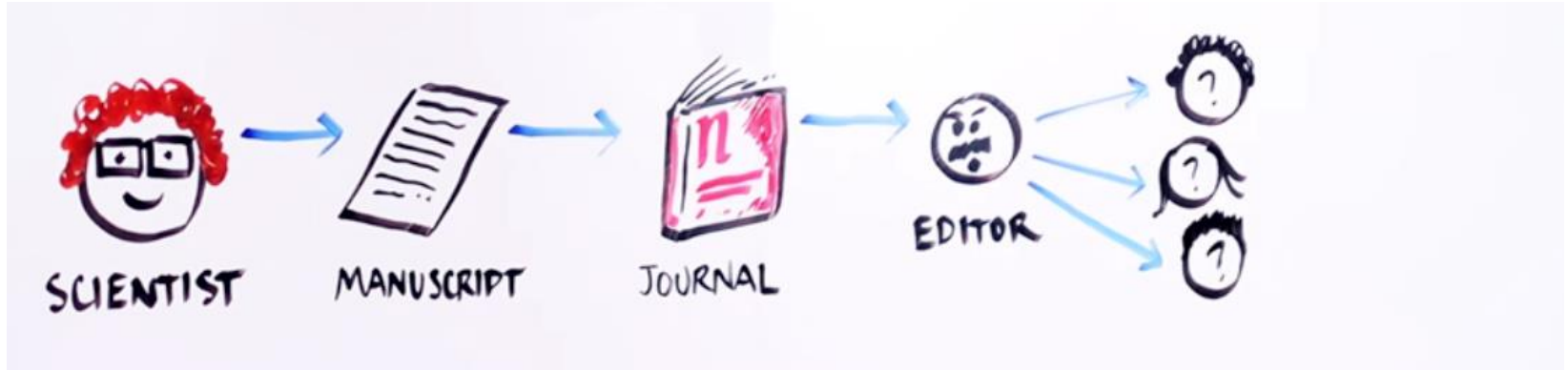


HMMM...

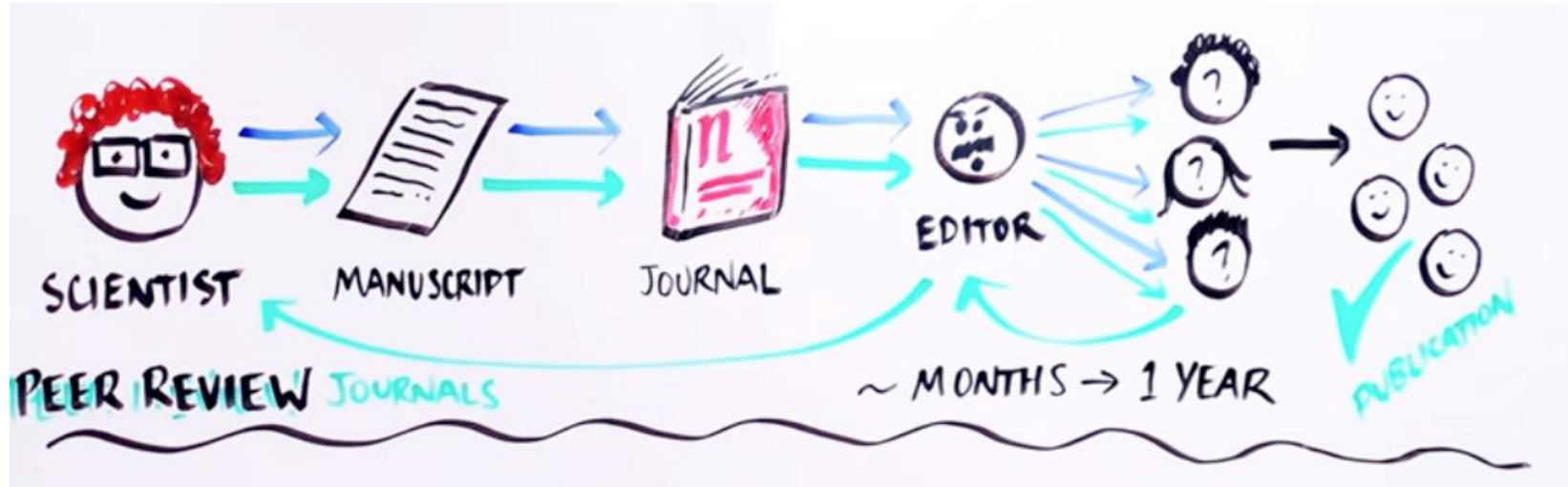


QUALITY ✓

How we publish?



How we publish?



BUT... IS THERE A **BETTER** WAY?

BUT... IS THERE A **BETTER** WAY?

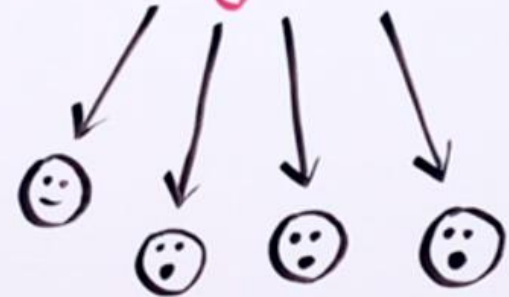
IN **1991**:

PAUL GINSBURG
PHYSICIST



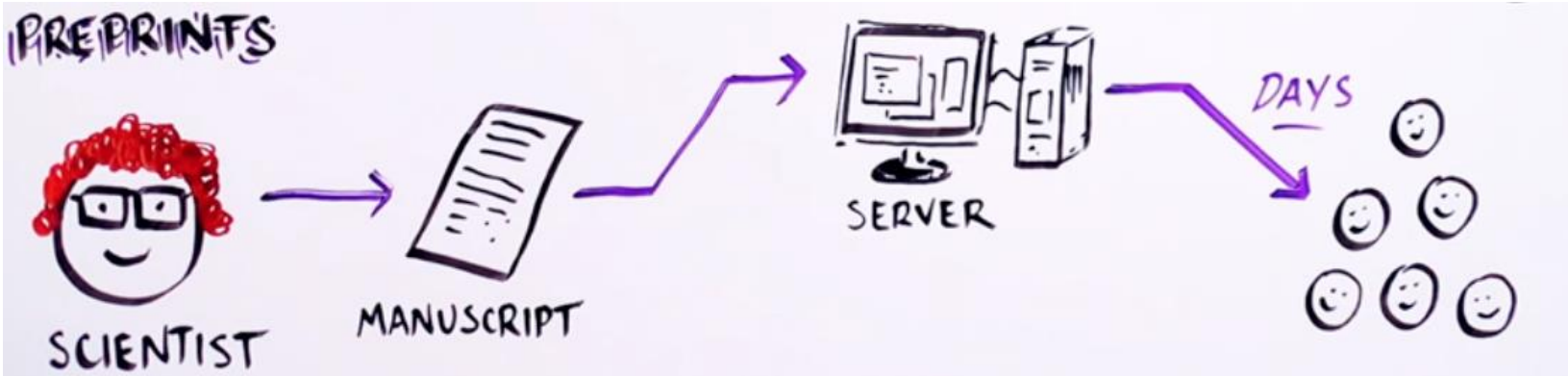
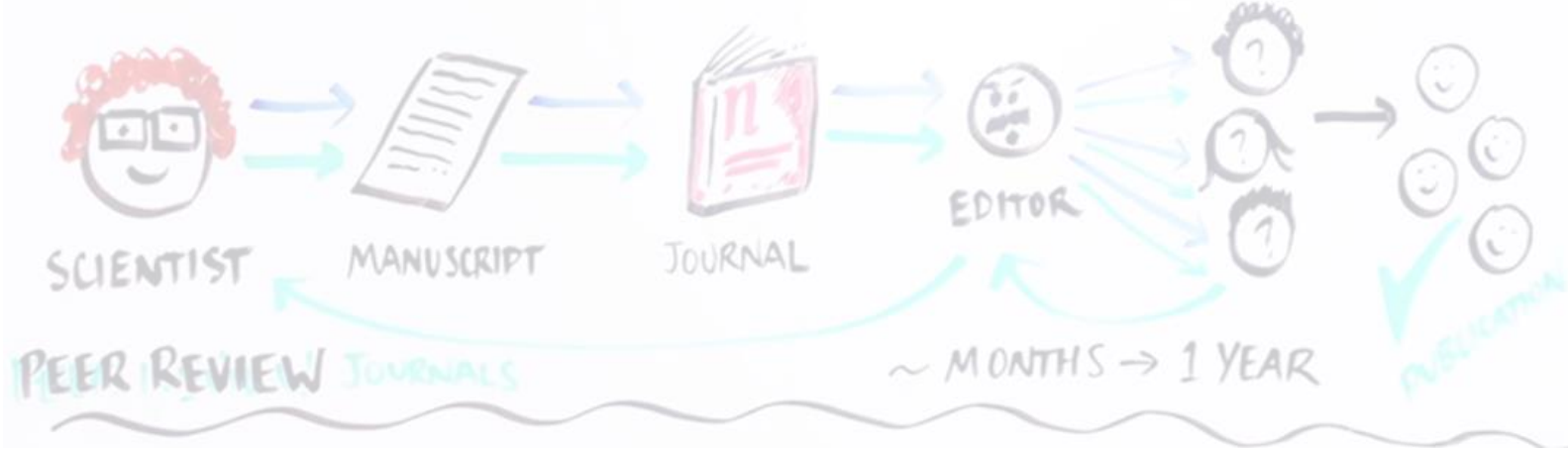
arXiv.org A PREPRINT
SERVER

arXiv: > 100,000 papers
EACH YEAR!

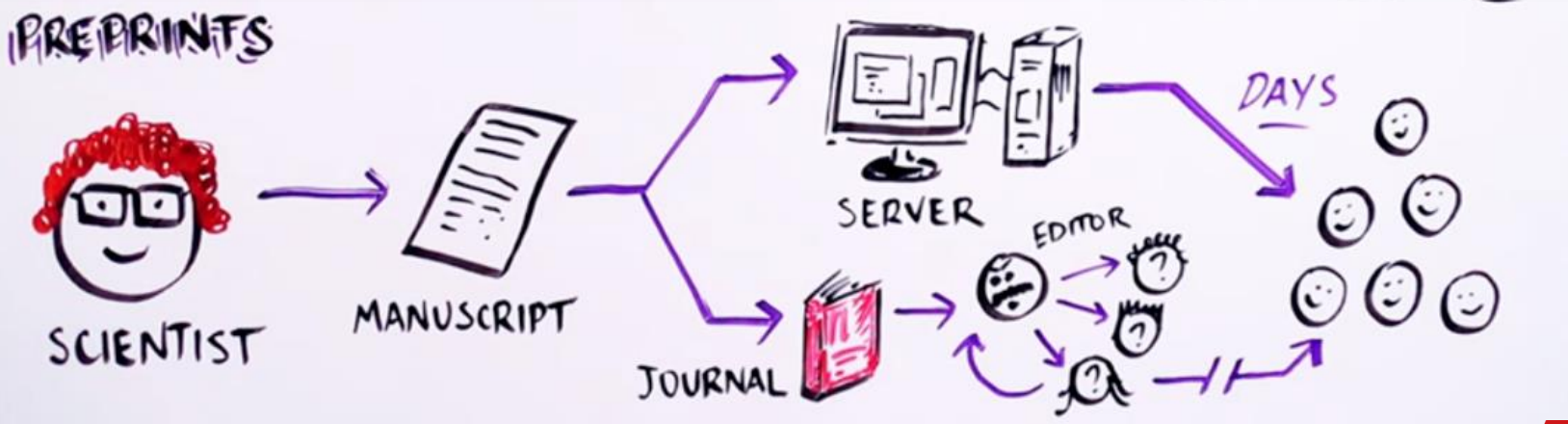
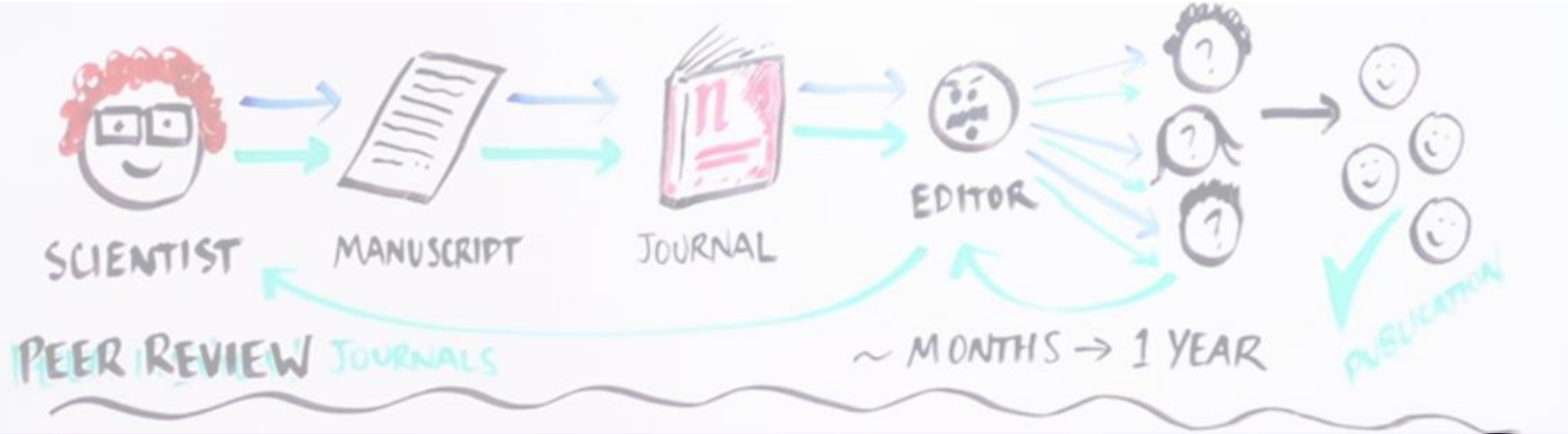


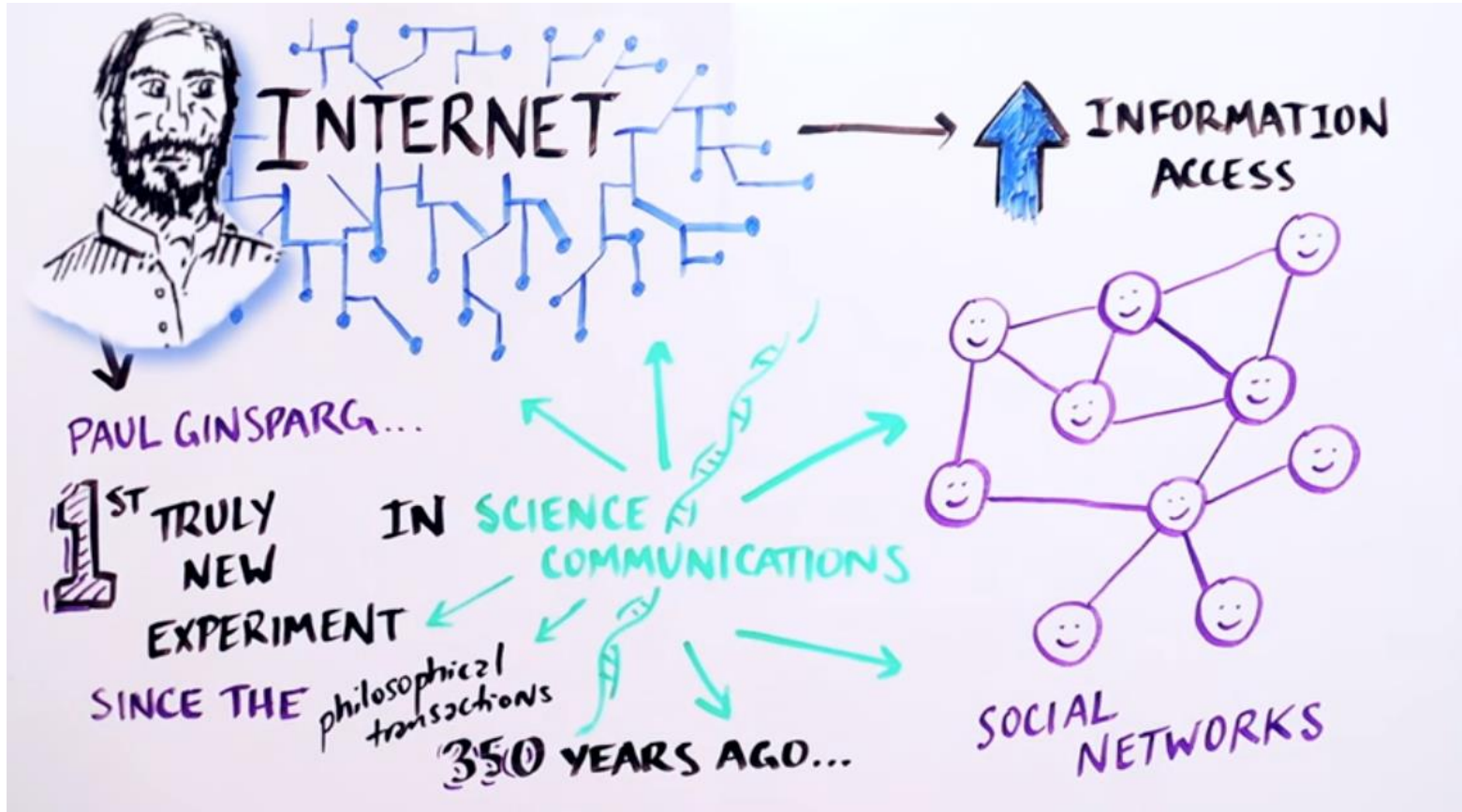
== RAPID COMMUNICATION

How can we publish nowadays?

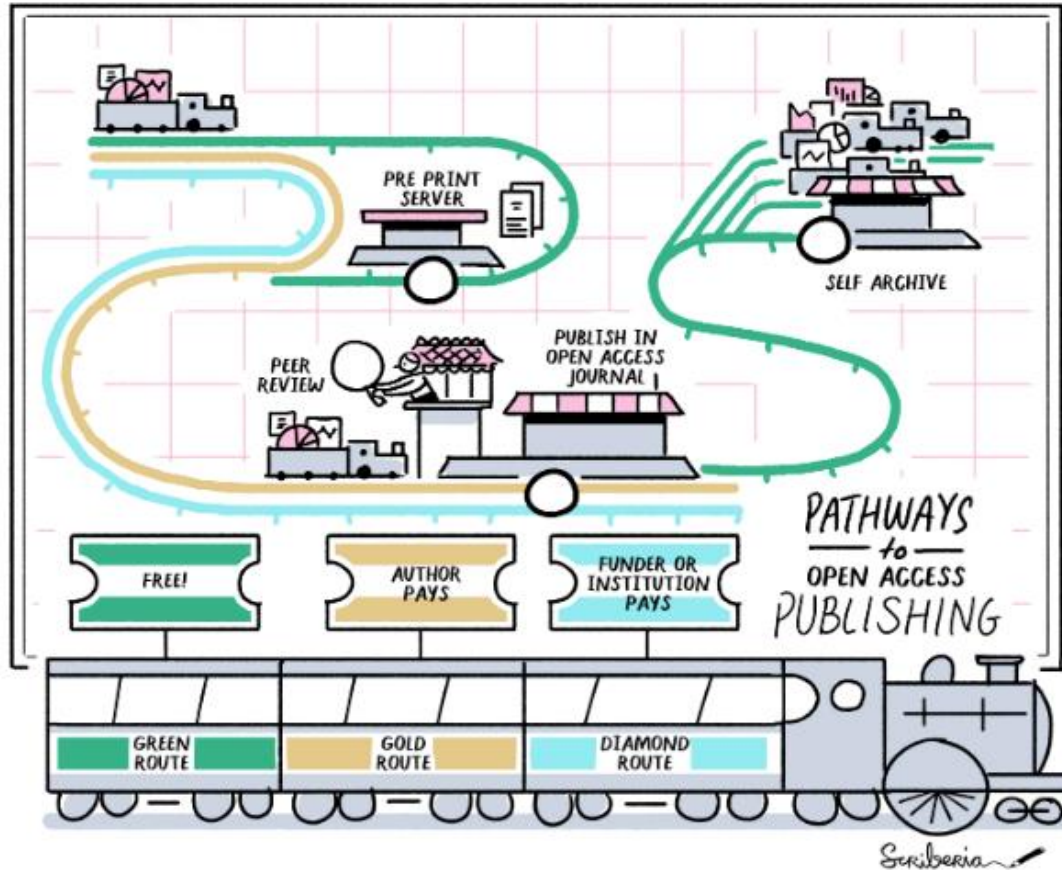


How can we publish nowadays?

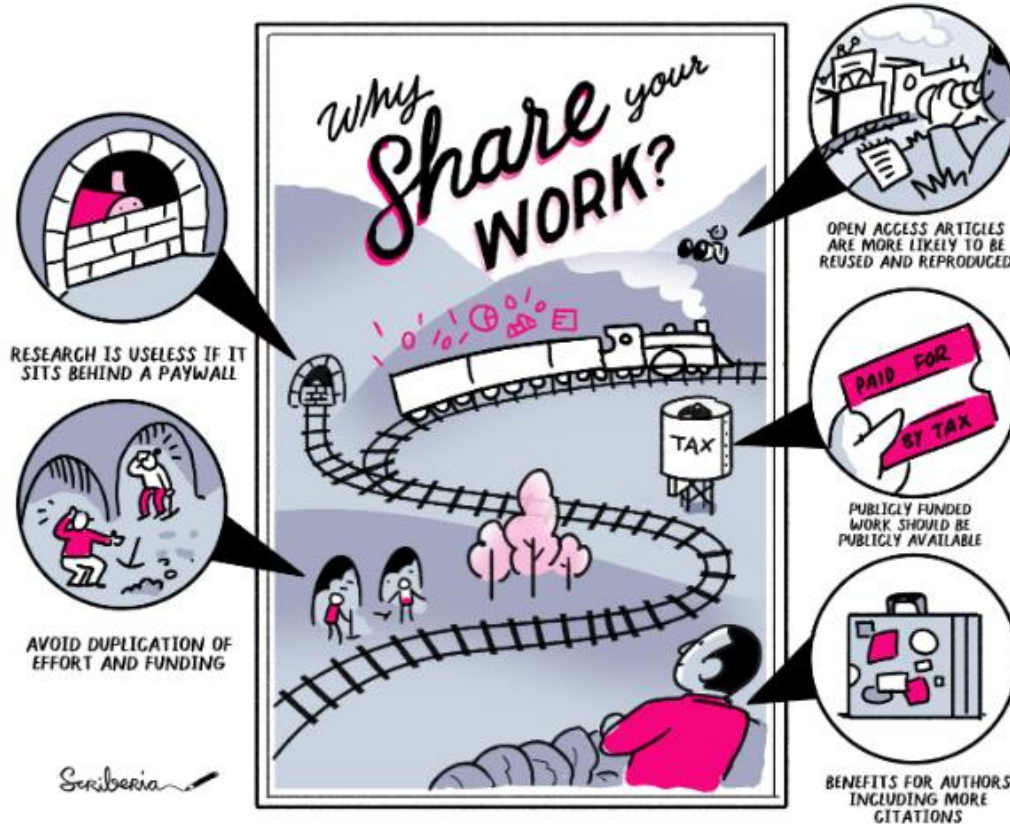




What is “open access”?



Advantages to sharing your research openly



The rise of open access



Scopus

Open Access

- All Open Access (334,631) >
- Gold (173,672) >
- Hybrid Gold (38,797) >
- Bronze (50,824) >
- Green (244,129) >

Open Access types available in Scopus



Gold open

Documents that are in journals which only publish open access.

Hybrid Gold

Documents that are in journals which provide authors the choice of publishing open access.

Bronze

Published version of record or manuscript accepted for publication. The publisher has chosen to provide temporary or permanent free access.

Green

Published version or manuscript accepted for publication, available at repository.

Challenges: Publication fees to publish open access

Open access for science that inspires

Cell Press welcomes open access



Cell Press APC prices are set on a per-journal basis. Fees range between **US\$1,750 and US\$9,900** excluding tax, with prices clearly displayed on the [APC price list](#) on our rights, sharing, and embargos page.

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nature

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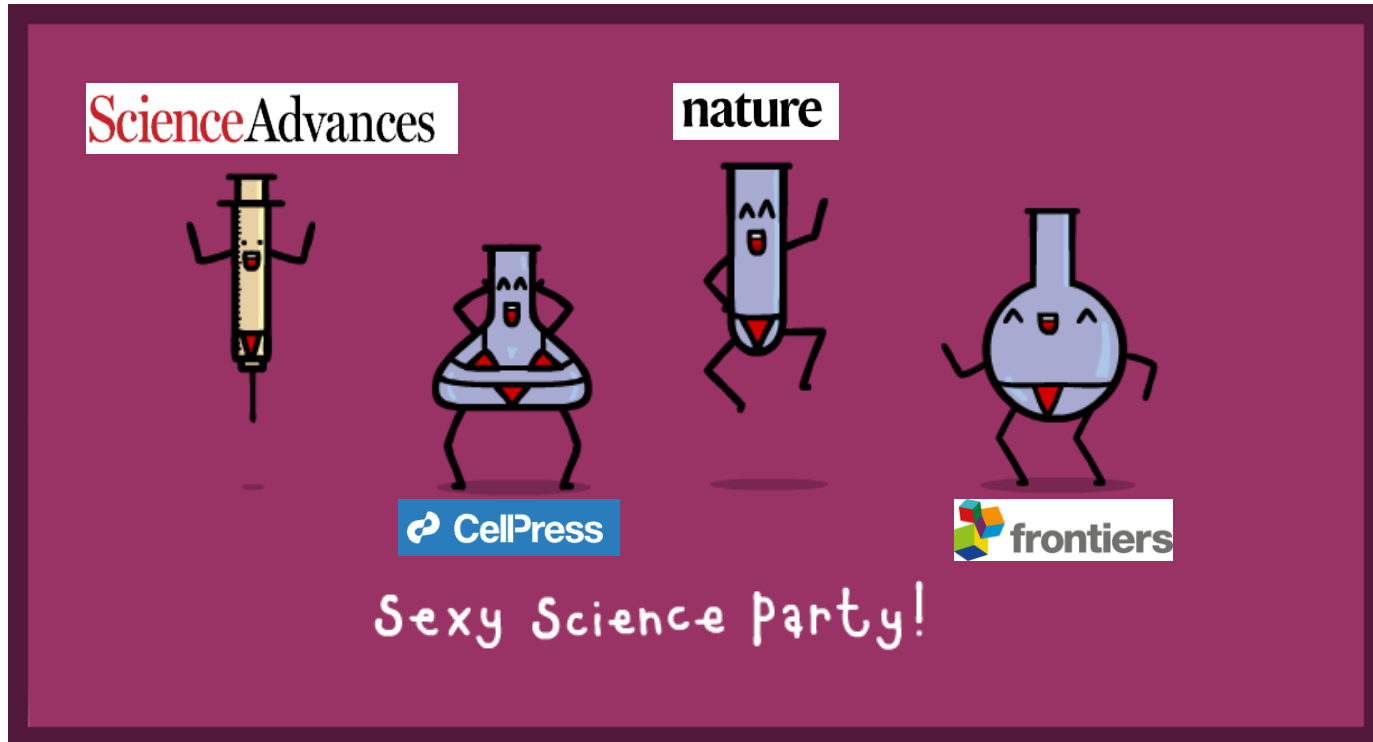
[nature](#) > [news](#) > article

NEWS | 24 November 2020

Nature journals reveal terms of landmark open-access option

The journals will charge authors up to **€9,500** to make research papers free to read, in a long-awaited alternative to subscription-only publishing.

Challenges: Sexy science is more publishable than science-science



Focusing in Latin America (and Chile)

News >



Open Science in Latin America and the Caribbean: a strong tradition with a long journey ahead

UNESCO Montevideo organised a Regional Consultation on Open Science, with the aim of incorporating the Region's experience and contributions into the UNESCO Recommendation on this subject



Shamila Naira-Bedouelle, UNESCO Assistant Director- General for the Natural Sciences

In her welcoming remarks, Shamila Naira-Bedouelle, UNESCO Assistant Director- General for the Natural Sciences, highlighted that the Latin American and Caribbean region has a long tradition of open science initiatives and acknowledged that those present at the Consultation belonged to regional institutions that have been working to promote the notion of Open Science for many years. She also recalled as a milestone the [Panama Declaration on Open Science](#), signed in 2018, in the framework of the CILAC Forum, and confirmed that

"It is clear that for the countries of Latin America and the Caribbean, Open Science is very relevant and this consultation process will be a means to achieve greater regional and international scientific cooperation". She added that: "Open Science will contribute to the redistribution of global research and ensure that all countries can access science and technology, from emerging to developed economies", and emphasised "We need to level the playing field".

Focusing in research communication & publishing

- **Publishing** research in a timely manner and open access to all
- preprints
- **Reviewing** research in a timely manner and reviews open to all under the [FAIR principles](#)
- **Curation, sharing, collaborating** on research across the globe to advance science & discovery

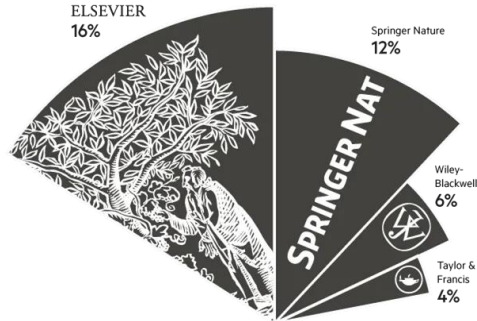


Why preprints are important for open science communication?

- Makes research study available to the community (and the public) as early as possible
- Readers can critically assess the research papers published on preprint platform
- Allows updating potential errors or suggestions before final publishing
- Helps authors strengthen their research arguments
- Makes way for collaboration and the advancement of science and discovery
- Improving global research culture as more grants and funding agencies are supporting preprints
- Among many more ways..



History to now



Open Letter to Scientific Publishers

We support the establishment of an online public library that would provide the full contents of the published record of research and scholarly discourse in medicine and the life sciences in a freely accessible, fully searchable, interlinked form.



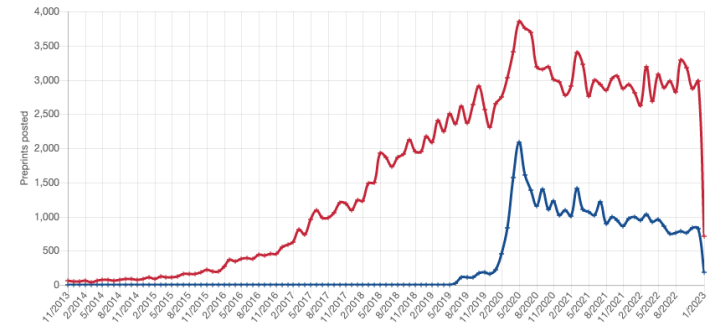
20th century, after WW II – external peer review becomes standard practice across science and medical journals

Both JAMA and Nature were founded in the 19th century, but it was only in the second half of the 20th century that they started using outside referees

20th century to today – big publishing houses own many of the society journals and generate high revenues from publishing

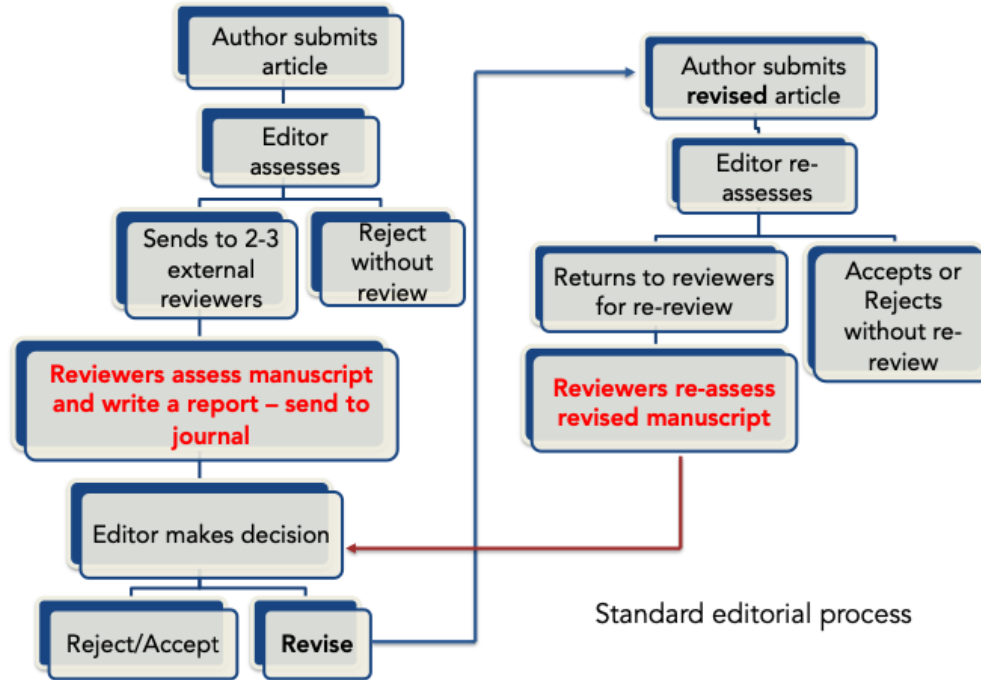
Global market share of journal articles by leading publishers, 2013 (%). Source: [Financial Times](https://www.ft.com/content/2013-11-14). In 2020, big five publishers owned more than 50 % of the publishing market

Monthly submissions, overall



Red line: bioRxiv / Blue line: medRxiv
Source: rXivist (<https://rxivist.org/stats>), 4 Jan 2023

Standard process in most journals (in theory)



Challenge:

How to change the model without reinventing the wheel?



~~You don't~~ have to reinvent
the wheel.



Challenge:

How to change the model without reinventing the wheel?

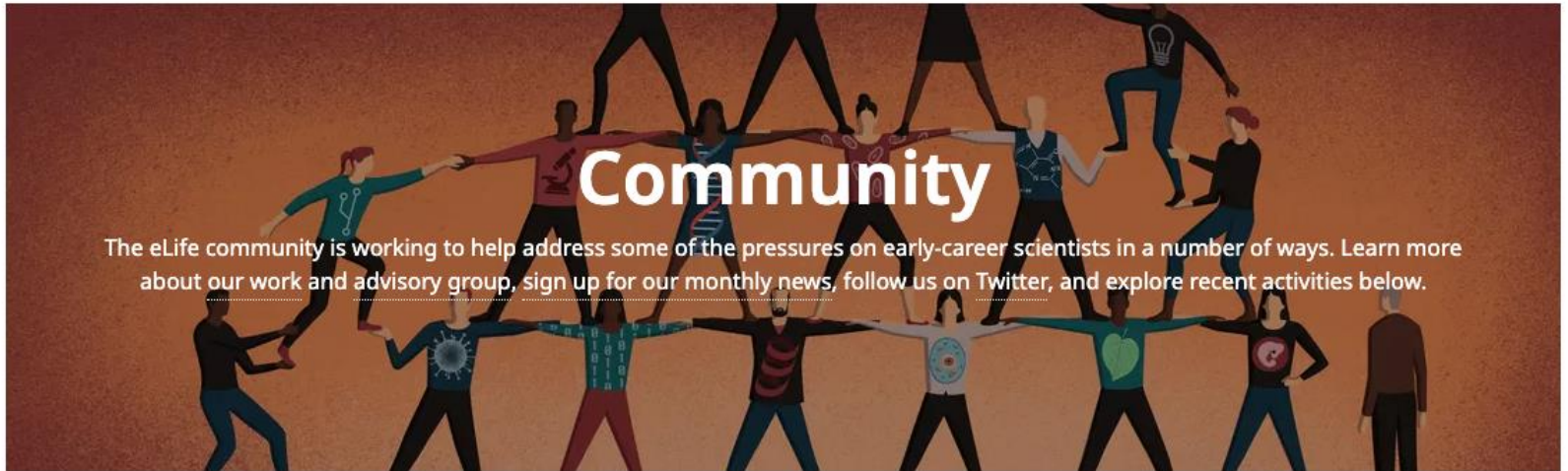


Illustration by Davide Bo

Founded 2012-2022

10 years of aiming to “*Reform research communication*”





Preprints at eLife

- From 2021 eLife started to exclusively review papers that had been posted as a preprint
- Now posted public reviews and evaluations for more than 2,200 preprints
- Next steps...



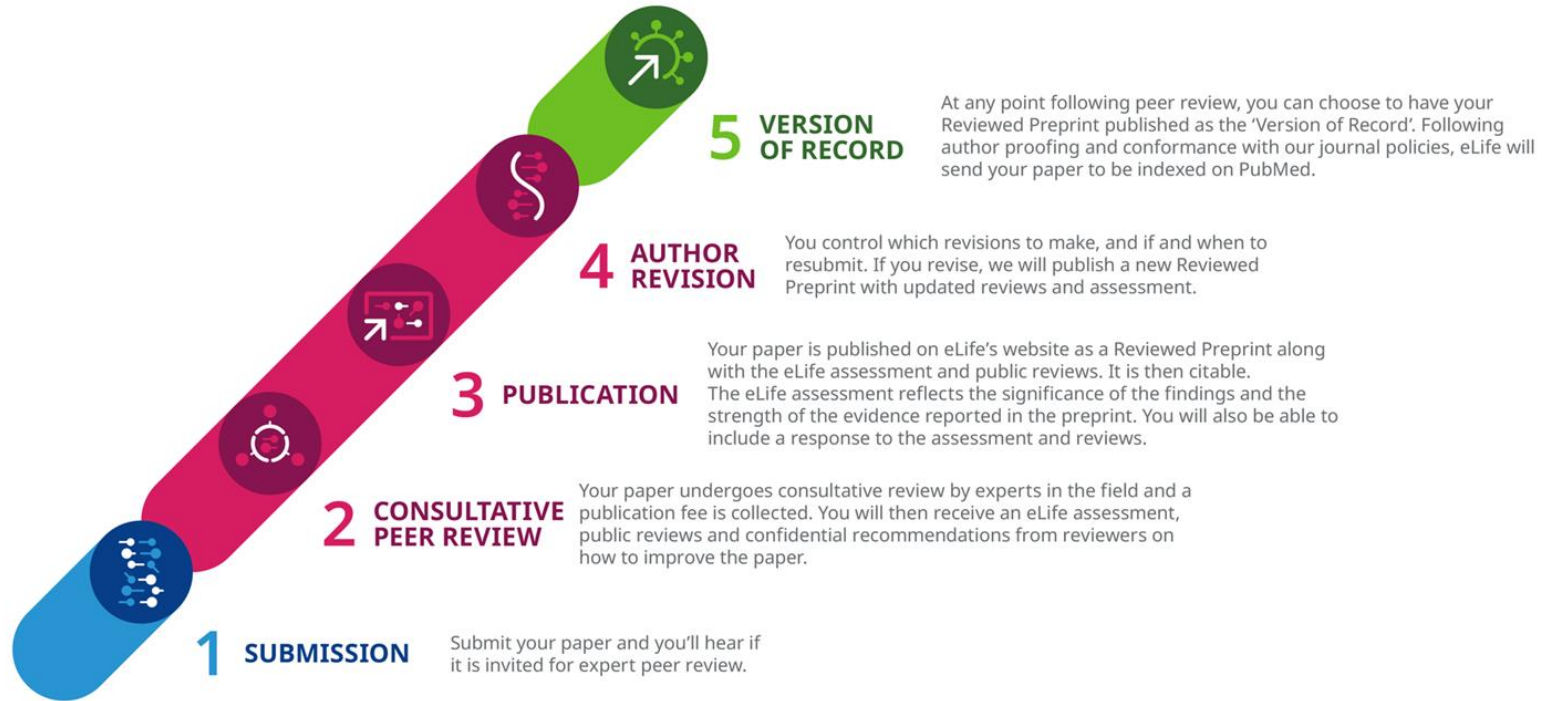
eLife's new model 2023-



Key changes to the editorial and publishing process

- eLife will publish all manuscripts with reviews and an eLife assessment on the eLife website
- eLife will no longer make accept/reject decisions after review
- Authors choose when to publish a version of record (these are the items that will be sent for indexing)
- Upfront Article Processing Charge (APC) of \$2,000 charged at the point of sending to peer review (rather than the current USD \$3,000 charged at publication). Full waivers are available.

The new eLife model



<https://www.youtube.com/watch?v=R3deFFtCnL4&t=7s>

Reviewed Preprint

Curation that communicates the editors' and reviewers' assessment of the impact and quality of the science using a common vocabulary

Full peer reviews available within the eLife website

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

The screenshot shows the eLife website interface for a preprint 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', categorized under 'Computational and Systems Biology, Neuroscience'. The authors listed are Louis K Scheffer, C Shan Xu, Michal Januszewski, Zhiyuan Lu, Shin-ya Takemura, Kenneth J Holyworth, Gary B Huang, Kazunori Shinomiya, Jeremy Maitlin-Shepard, and Stephen M Plaza, with a '+ 24 more' link. The article's DOI is <https://doi.org/10.7555/reviewed-by-eLife.57443>. Below the title, there are tabs for 'Full text', 'Figures and data', and 'Peer review'. The 'Full text' tab is active, showing an 'Abstract' section. To the right of the abstract, there is a 'Reviewed preprint' badge with the text: 'This preprint was sent for review by eLife. Authors may revise their preprint in response to reviews. About eLife's process'. Below this badge are buttons for 'Download', 'Cite', 'Follow', and 'Share'. A table shows the review timeline: 'Peer reviewed' on May 22, 2022; 'Sent for review' on Apr 19, 2022; and 'Preprint posted' on Mar 31, 2022. There are links to 'Read the peer reviews', 'Read the author comments', and 'Go to the preprint', along with a '17 views' indicator. At the bottom, there is an 'eLife assessment' section with a detailed paragraph praising the paper's methodological excellence and impact on neuroscience. A footer note states: 'eLife's editors no longer accept or reject after peer review. Instead they provide an assessment above a consistent vocabulary. About Editorial assessments.'



Preprint successful story...



bioRxiv
THE PREPRINT SERVER FOR BIOLOGY

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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Structure of *C. elegans* TMC-1 complex illuminates auditory mechanosensory transduction

Hanbin Jeong, Sarah Clark, April Goehring, Sepehr Dehghani-Ghahnaviyeh, Ali Rasouli, Emad Tajkhorshid, Eric Gouaux

doi: <https://doi.org/10.1101/2022.05.06.490478>

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



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Last 6 months

This month

Article usage: May 2022 to January 2023

Show by month	Abstract	Full-text HTML	PDF
Total	7,445	962	3,764



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

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Preprint successful story....



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ARTICLE USAGE

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Total	7,445	962	3,764



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Sepehr Dehghani

@dehghani_sepehr

Our new preprint shedding light on the first atom picture of mechanosensory transduction (MT) channel and how it interacts with the bilayer, employing cryo-EM microscopy and molecular dynamics simulations.
<https://t.co/1TUbZsSHcN> #hearingloss @BeckmanInst

09 May 2022



Xiaowei Hou

@hou_xiaowei

Another amazing complex purified from CRISPR edited 'natural' source!

09 May 2022



MadScientist

@SecretLabMS

*C.elegans*에서 mechanosensory transduction 관련 단백질 구조를 밝힌 논문인데 단백질질을 그냥 transgenic *C.elegans*를 만들어서 거기서 정제함... 벌레 80g (6 x 10^7 마리) 에서 50ng의 단백질을 정제하여 그걸로 구조를 풀었다 고 ㅋㅋ

09 May 2022



John Janetzko

@jjanetzko

That's so cool!!

09 May 2022



Lijun Qi

@leonard_qi

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nature

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Article | [Open Access](#) | [Published: 12 October 2022](#)

Structures of the TMC-1 complex illuminate mechanosensory transduction

[Hanbin Jeong](#), [Sarah Clark](#), [April Goehring](#), [Sepehr Dehghani-Ghahnaviyeh](#), [Ali Rasouli](#), [Emad Tajkhorshid](#) & [Eric Gouaux](#) 

[Nature](#) **610**, 796–803 (2022) | [Cite this article](#)

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Preprint **Review** *Version 4* **Preserved in Portico** **This version is not peer-reviewed**

Face Masks Against COVID-19: An Evidence Review

[Jeremy Howard](#) ^{*} [Austin Huang](#), [Zhiyuan Li](#), [Zeynep Tufekci](#), [Vladimir Zdimal](#), [Helene-Mari van der Westhuizen](#) ^{id}, [Arne von Delft](#), [Amy Price](#), [Lex Fridman](#), [Lei-Han Tang](#), [Viola Tang](#), [Gregory L. Watson](#), [Christina E. Bax](#), [Reshama Shaikh](#), [Frederik Questier](#), [Danny Hernandez](#), [Larry F. Chu](#), [Christina M. Ramirez](#), [Anne W. Rimoin](#)

Version 1 : Received: 10 April 2020 / Approved: 12 April 2020 / Online: 12 April 2020 (17:41:10 CEST)
Version 2 : Received: 12 May 2020 / Approved: 13 May 2020 / Online: 13 May 2020 (13:16:04 CEST)
Version 3 : Received: 10 July 2020 / Approved: 12 July 2020 / Online: 12 July 2020 (16:11:50 CEST)
Version 4 : Received: 30 October 2020 / Approved: 2 November 2020 / Online: 2 November 2020 (10:18:00 CET)

A peer-reviewed article of this Preprint also exists.

Journal reference: PNAS 2020
DOI: 10.1073/pnas.2014564118

Views	Downloads
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1	219

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PERSPECTIVE | BIOLOGICAL SCIENCES | ✓



An evidence review of face masks against COVID-19

Jeremy Howard , Austin Huang, Zhiyuan Li ,  +15, and Anne W. Rimoin  [Authors Info & Affiliations](#)

Edited by Lauren Ancel Meyers, The University of Texas at Austin, Austin, TX, and accepted by Editorial Board Member Nils C. Stenseth December 5, 2020 (received for review July 13, 2020)

January 11, 2021 | 118 (4) e2014564118 | <https://doi.org/10.1073/pnas.2014564118>

2.693.288 | 245

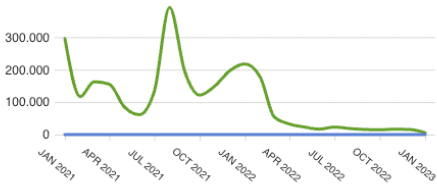


Metrics & Citations

Metrics Citations

Article usage

↓ VIEWS " CITATIONS



2.693.288 245

Period	Views	Citations
TOTAL	2,693,288	245
6 MONTHS		
12 MONTHS		



Support from funders

The screenshot shows the top navigation bar of the HHMI website with the logo and menu items: About, Our Scientists, Programs, Education, News, and Diversity. The article title is 'HHMI Statement in Support of eLife and Open Science Innovation', dated NOV 15 2022, with a category tag 'Institute'. The main text states: 'The journal eLife recently announced a new scientific publishing model. Starting in January 2023, eLife will no longer make accept/reject decisions after peer review. Instead, every preprint that eLife sends for peer review will be published on eLife's website as a "Reviewed Preprint" together with an eLife assessment, public reviews, and a response from the authors. This means that eLife authors – not editors – will decide whether and with what revisions an eLife article will be published. HHMI enthusiastically supports eLife's new model. As one of the founding members of eLife that continues to provide financial support, we stand with scientific leaders who recognize that publishing must change, and that now is the time. If we're to fulfill the public promise of science – new knowledge to benefit all – we need to share research, including scholarly peer reviews, openly. We need to innovate in ways that prioritize research progress and quality of peer review over journal selectivity and'.

MEDIA CONTACT
Jim Keeley
301-215-8858
keeleyj@hhmi.org

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Hannah Hope @hjhope
Open Research Lead, Research Environment @wellcometrust. Director @oaswitchboard. Wannabe cake maker and gardener extraordinaire.

Within our grant applications we ask for research outputs - a peer reviewed preprint is one of those.

The model provides a route to complying with our open access policy and thus Wellcome funds for open access continue to be available for publishing with eLife.

5:30 PM · Nov 9, 2022 · Twitter Web App

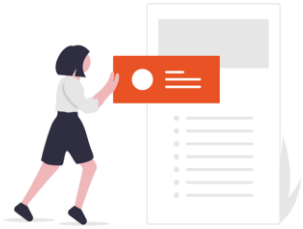
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CHEN TIANQIAO & CHIRISSY INSTITUTE

BILL & MELINDA GATES foundation

Knut and Alice Wallenberg Foundation

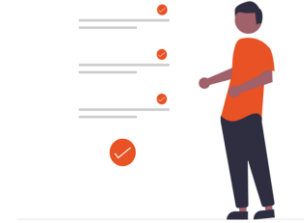
To change the system to work for everyone (in LATAM and Chile), we need the global communities involvement



Publish



Review



Curate

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- **Submit your research** to eLife and post a preprint at the same time – eLife can help with this process
- Apply to [join eLife's pool of early-career reviewers](#) and get experience with peer review, [PREreview](#) **Open Reviewers training**
- [Join Sciety](#), the [Open Science Champions community](#), [eLife Ambassadors](#) **events and others** for ECRs (<https://twitter.com/elifecommunity>),
- **Post, read and share preprints** and encourage others to the same



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44+ research disciplines,
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research communities represented.

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Dra. Ailis O'Carroll
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