

New challenges to publish science in Chile.

David Ramírez, PhD

Assistant professor

Pharmacoinformatics & Drug Design Lab

Pharmacology Department - University of Concepción

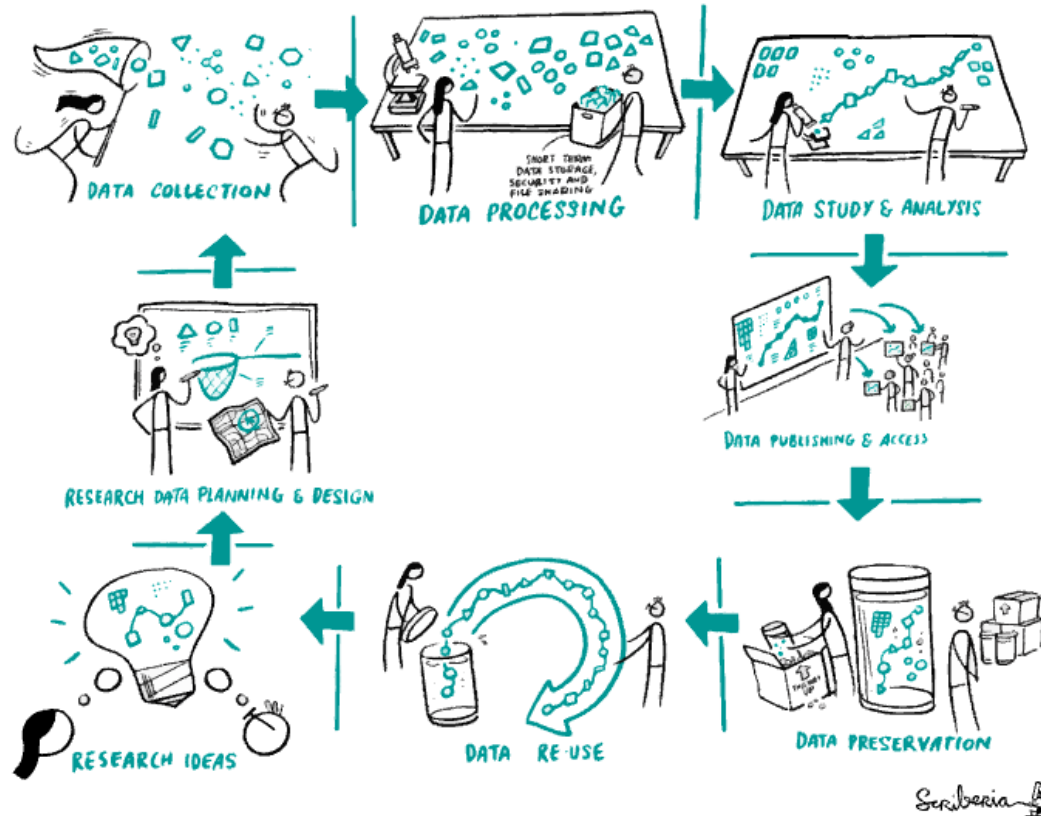
eLife ambassador 2022 - 2023



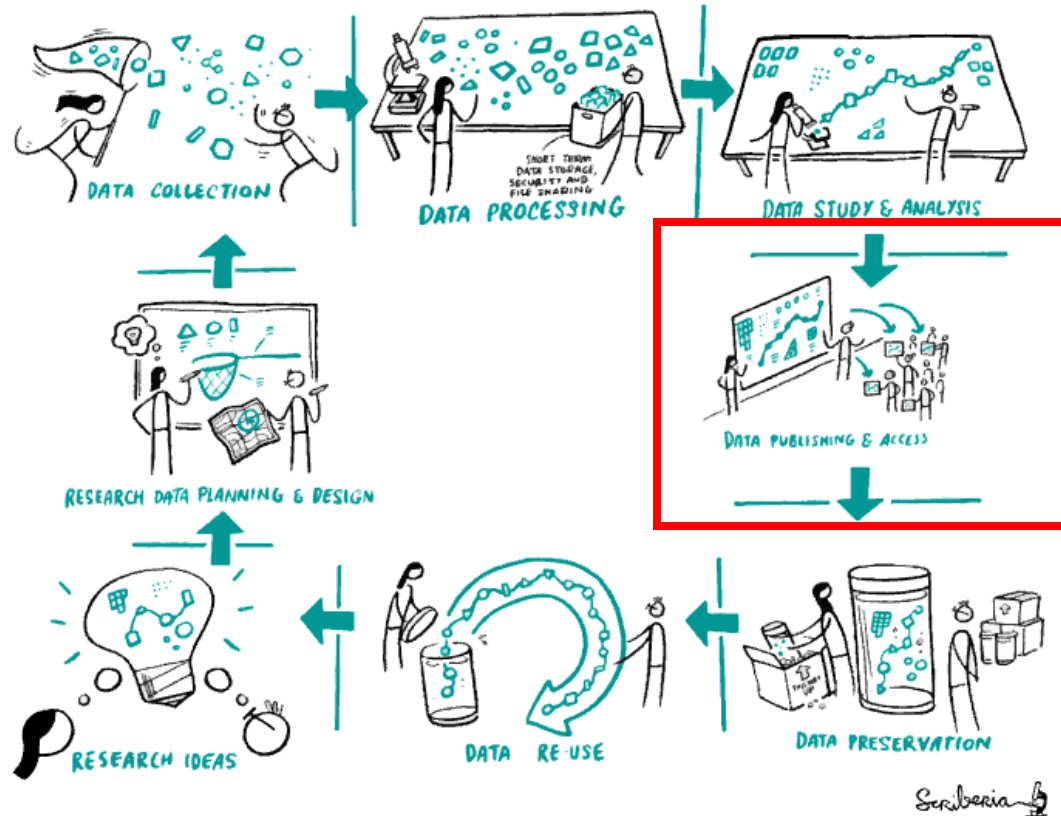
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Overview of Reproducible Research



Overview of Reproducible Research



Open Science - Open Research



Scriberia

How we publish?

How we publish?

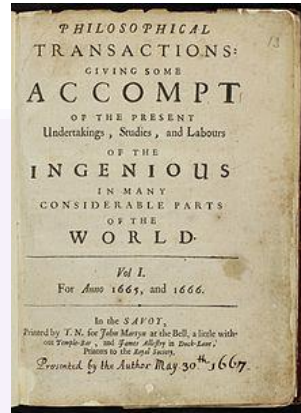
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THE ROYAL
SOCIETY



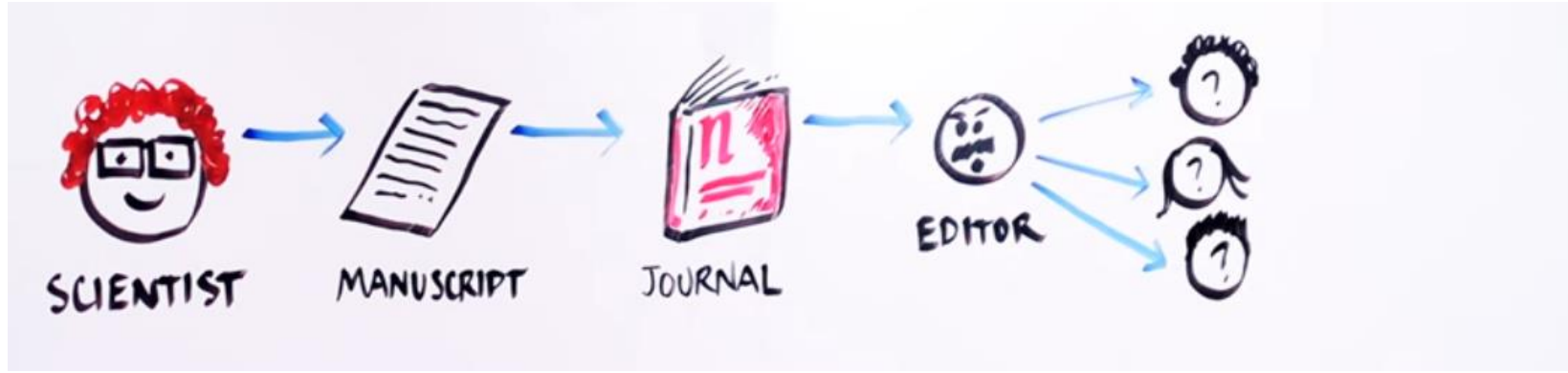
"The philosophical
Transactions"



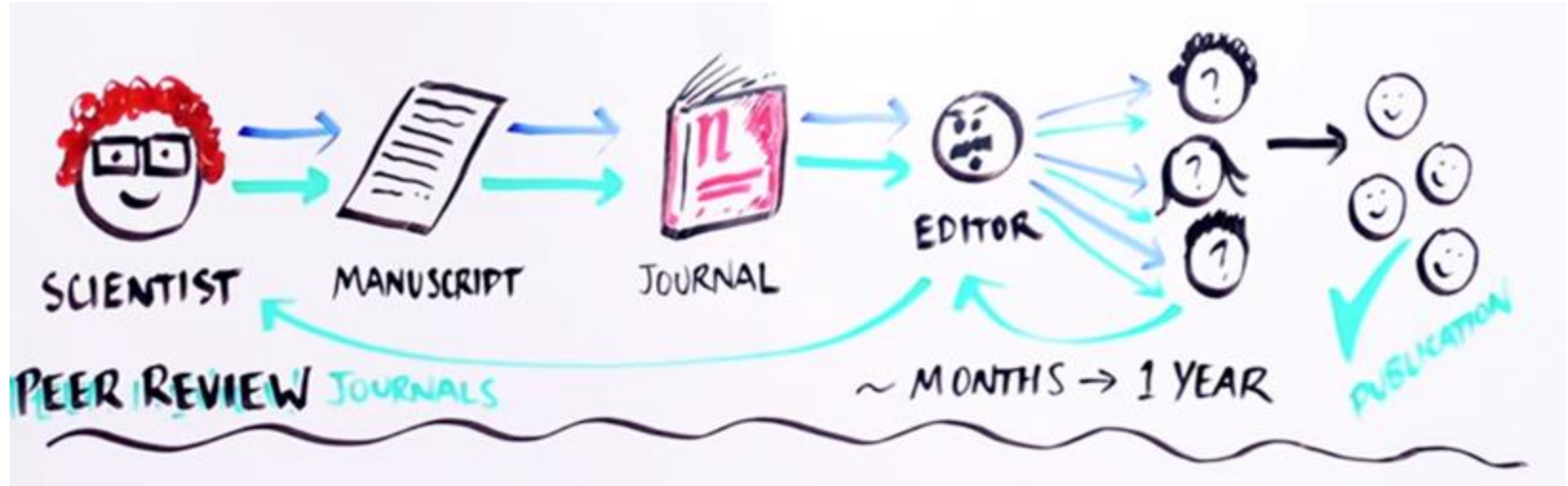
How we publish?



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

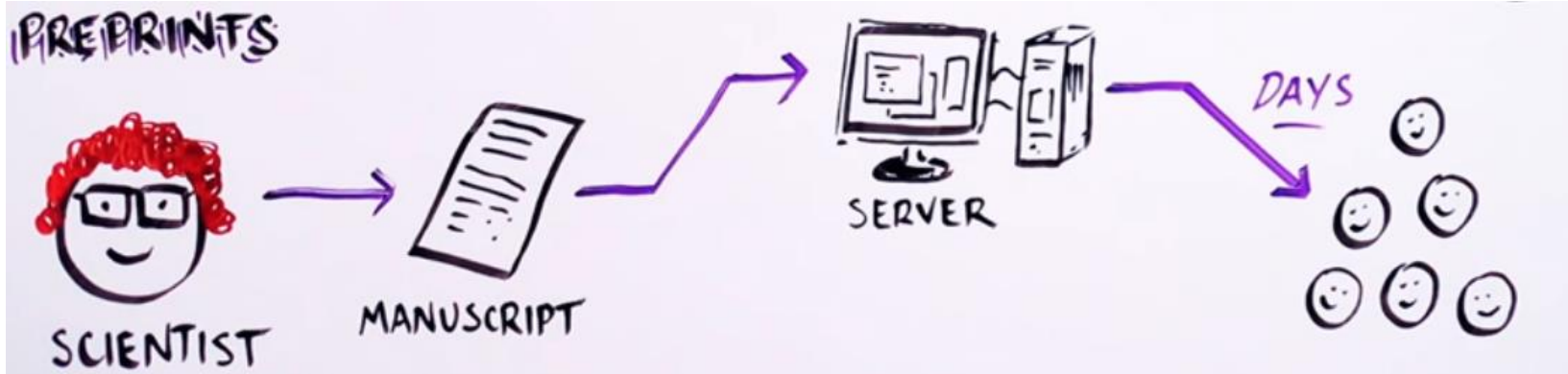
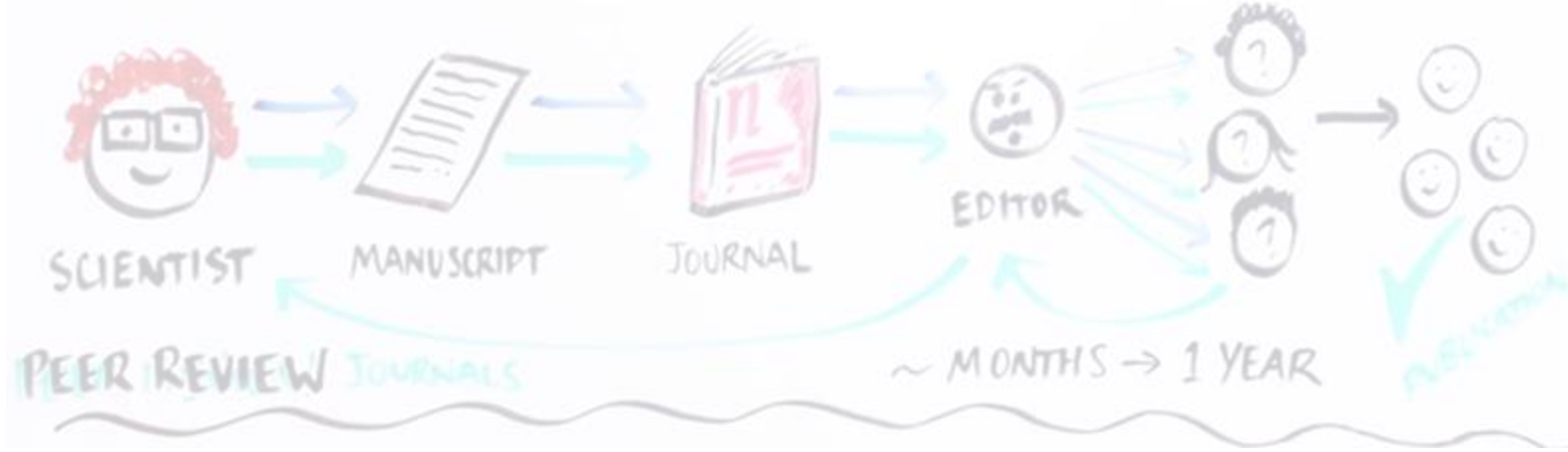
A PREPRINT
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EACH YEAR!

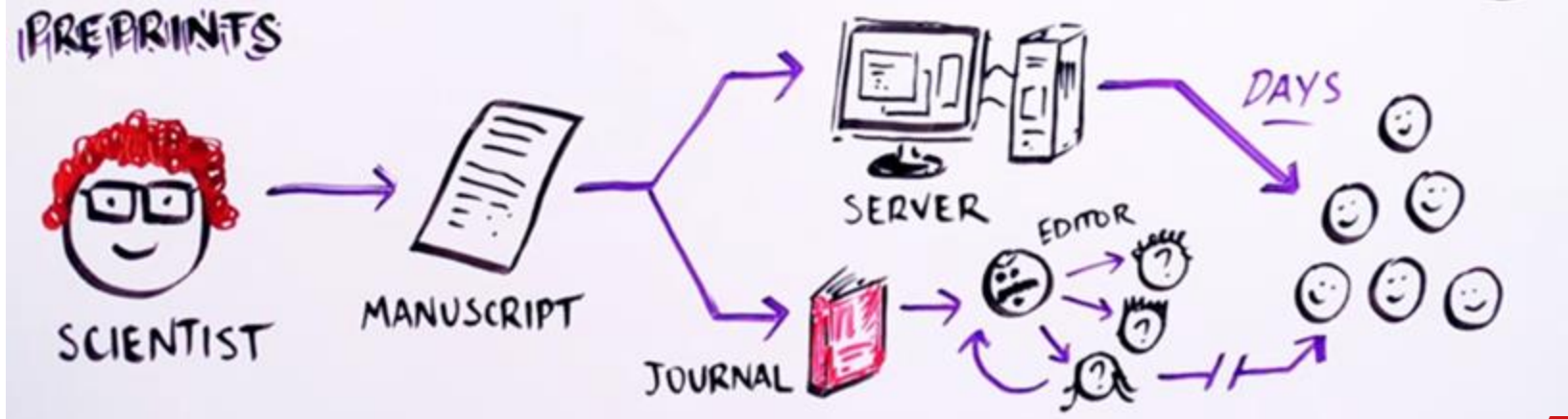
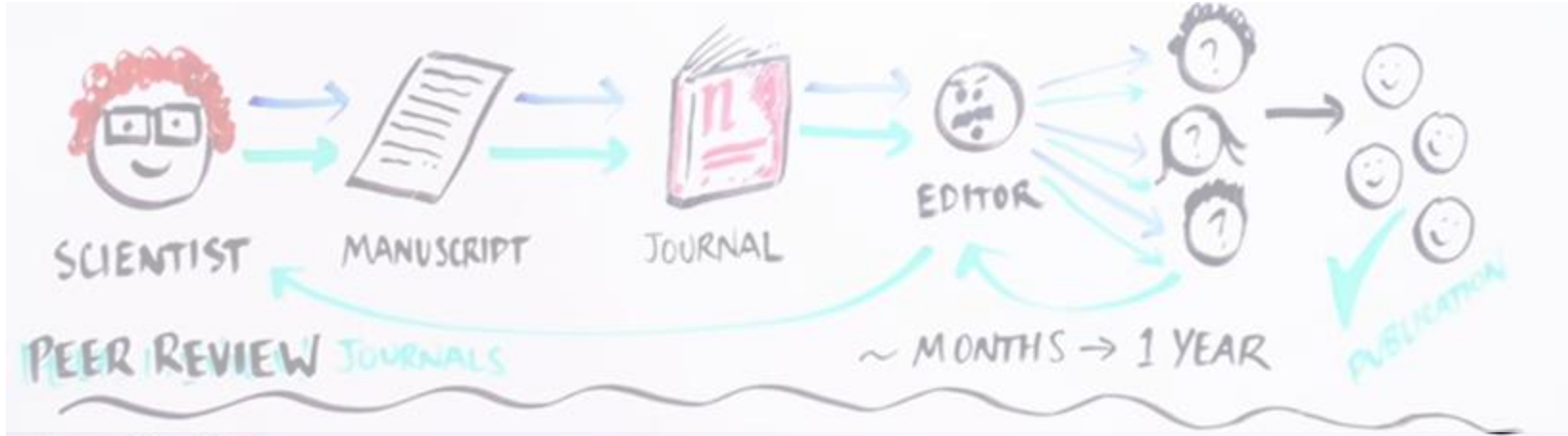


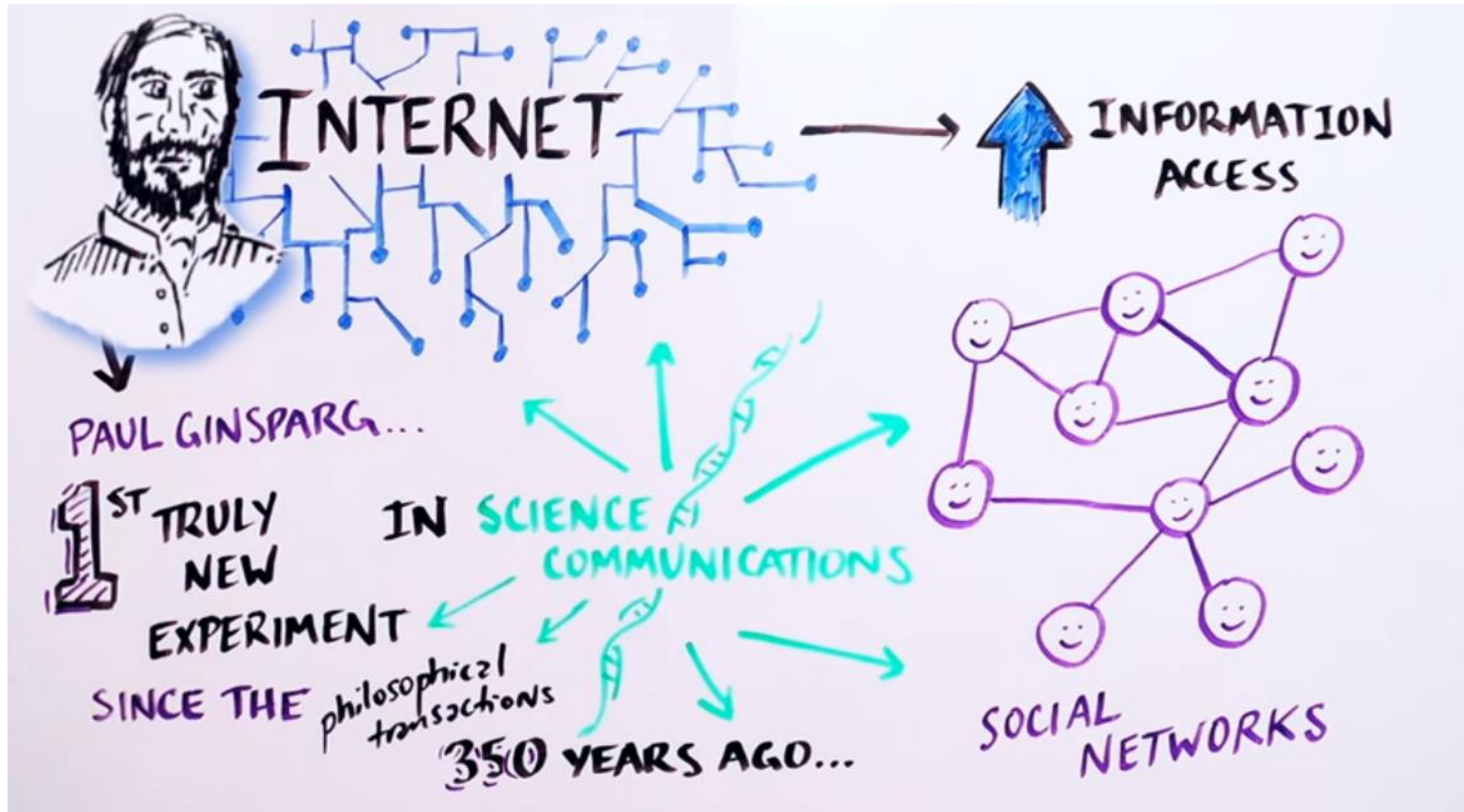
== RAPID COMMUNICATION

How can we publish nowadays?

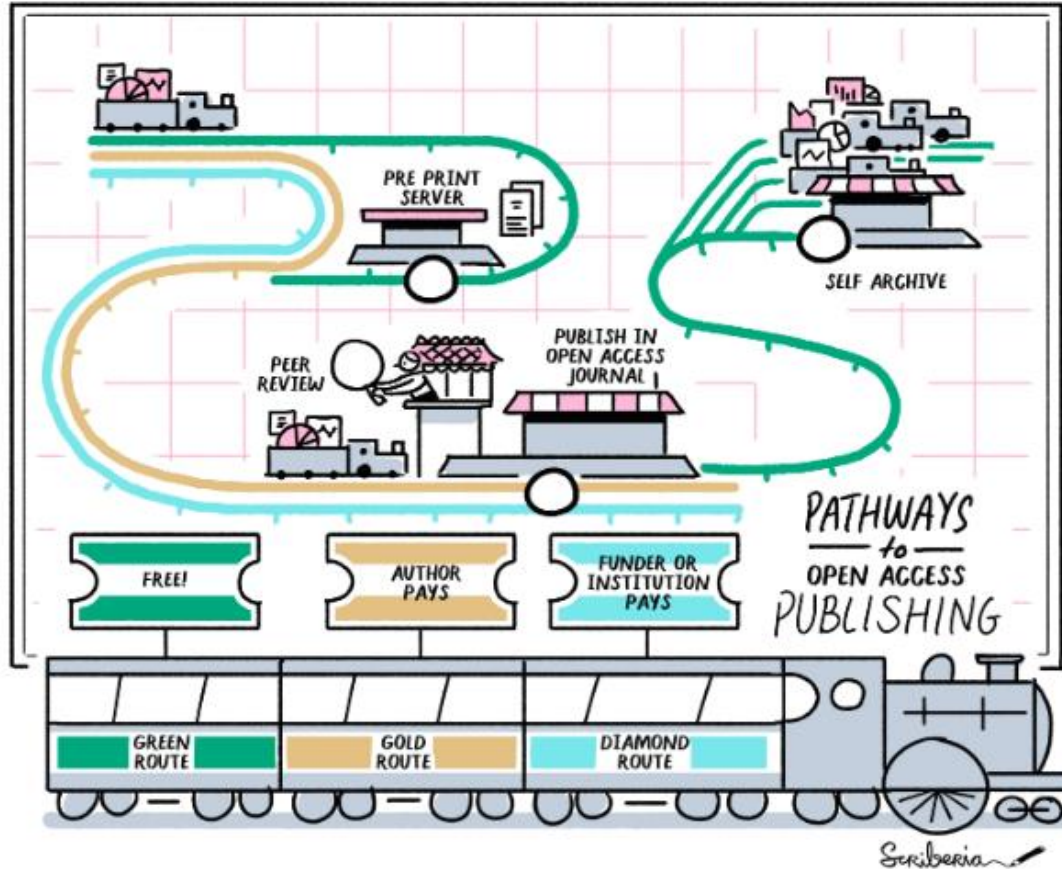


How can we publish nowadays?

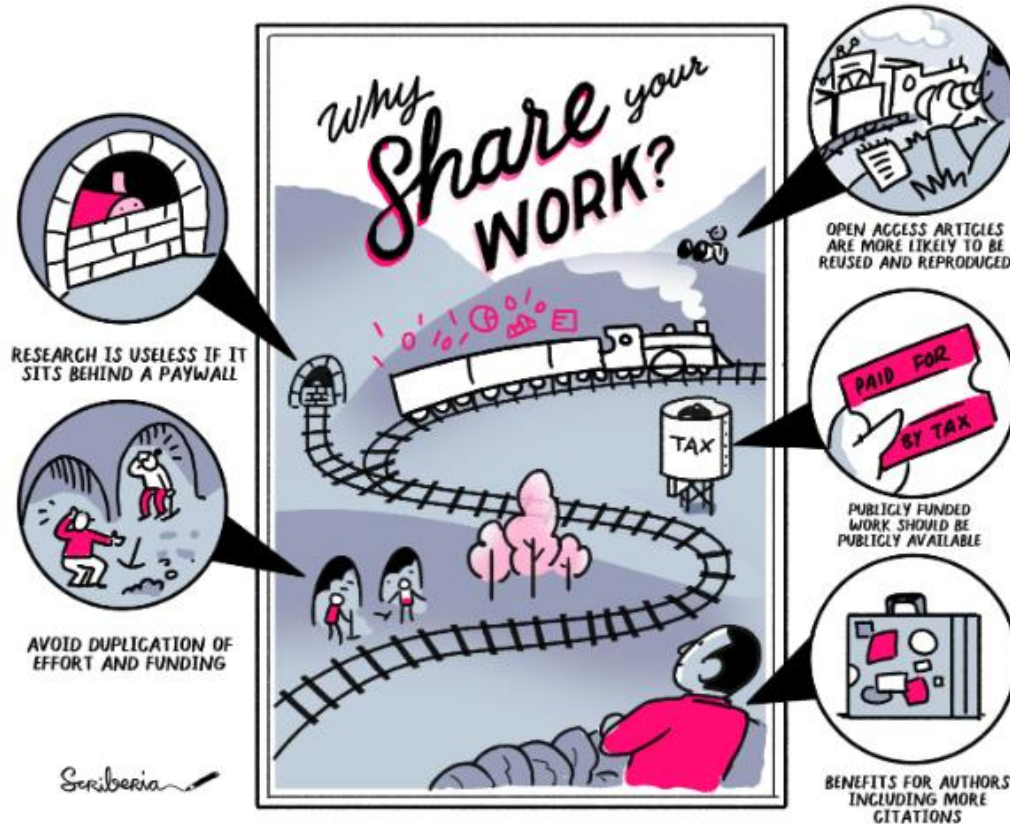




What is “open access”?



Advantages to sharing your research openly



The rise of open access



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Open Access

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<input type="checkbox"/> Gold	(173,672) >
<input type="checkbox"/> Hybrid Gold	(38,797) >
<input type="checkbox"/> Bronze	(50,824) >
<input type="checkbox"/> 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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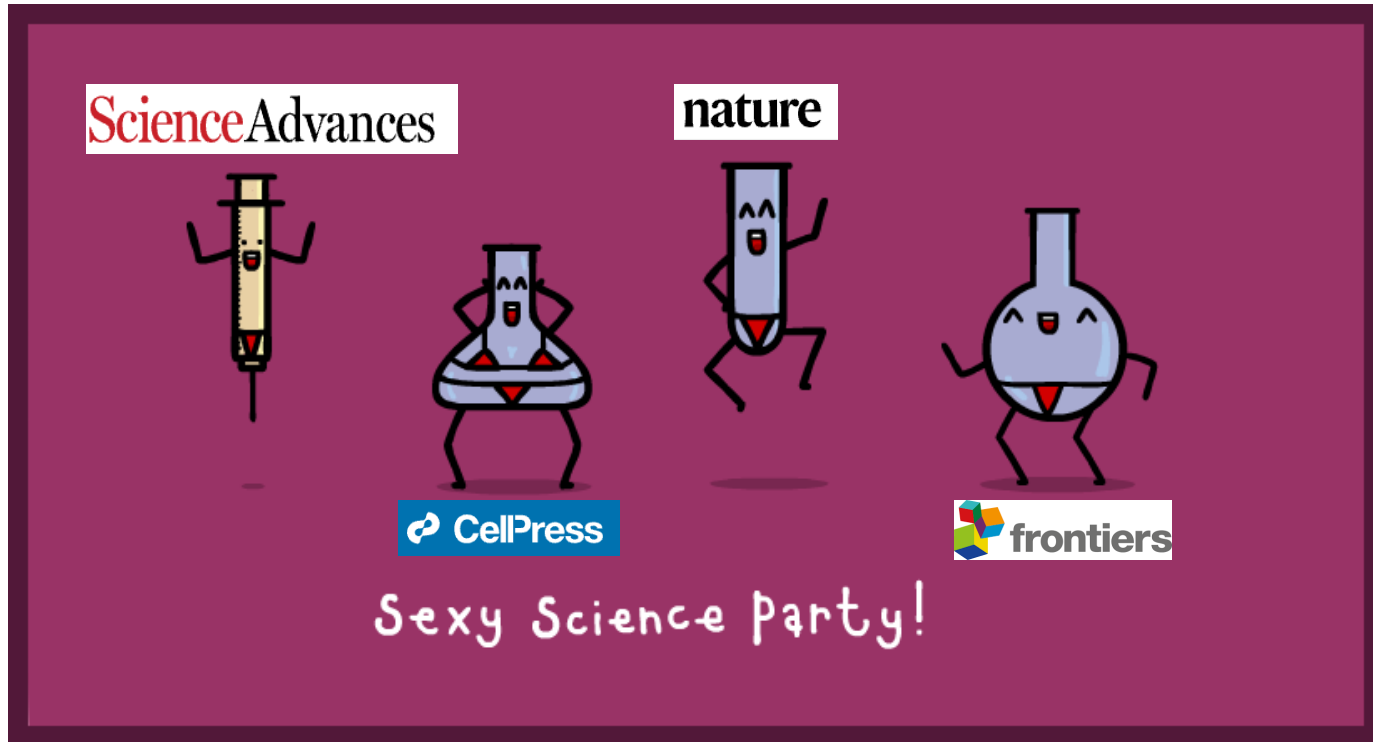
[nature](#) > [news](#) > article

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".

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..



Challenge:

How to change the model without reinventing the wheel?



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How to change the model without reinventing the wheel?



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Challenge:

How to change the model without reinventing the wheel?



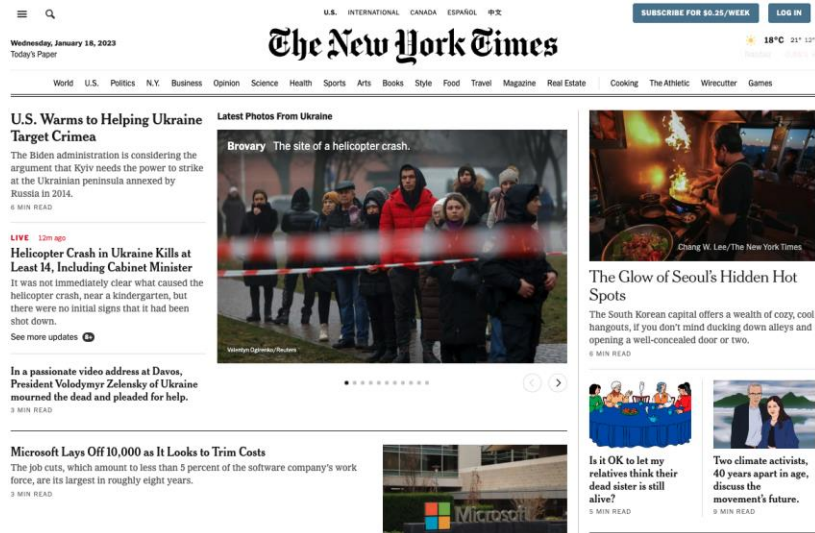
Challenge:

How to change the model without reinventing the wheel?



Challenge:

How to change the model without reinventing the wheel?



<https://www.nytimes.com/international/>

Reviewed Preprint

Full peer reviews
available within the
eLife website

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

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

The screenshot displays the eLife website interface for a reviewed preprint article. The article title is "A connectome and analysis of the adult *Drosophila* central brain". The authors listed are Louis K. Scheffer, C. Shan Xu, Michal Januszewski, Zhiyuan Lu, Shin-ya Takemura, Kenneth J. Hayworth, Gary B. Huang, Kazunori Shinomiya, Jeremy Maillon-Shepard, and Stephen M. Plaza. The article is categorized under "Computational and Systems Biology, Neuroscience". The page shows the "Full text" tab selected, with the abstract visible. The abstract discusses the neural circuits responsible for animal behavior and the use of new methods to generate a large fraction of the brain of the fruit fly *Drosophila melanogaster*. A section titled "eLife assessment" provides a summary of the article's quality and impact, stating it is a "landmark paper" and "methodologically exceptional". The assessment also mentions that the manuscript is extensive and well-illustrated, and that the data, methods, and analyses are made available to the community in an exemplary manner. The work represents ambitious, large-scale biological resource generation at its apogee. The eLife 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>

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Tweets

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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/TTUbZsSHcN> #hearingloss @BeckmanInst

09 May 2022



Xiaowei Hou
@hou_xiaowei

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

09 May 2022



MadScientist
@SecretLabMS

C.elegans에서 mechanosensory transduction 관련 단백질 구조를 밝힌 논문인데 단백질을 그냥 transgenic C.elegans를 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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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](#) , [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

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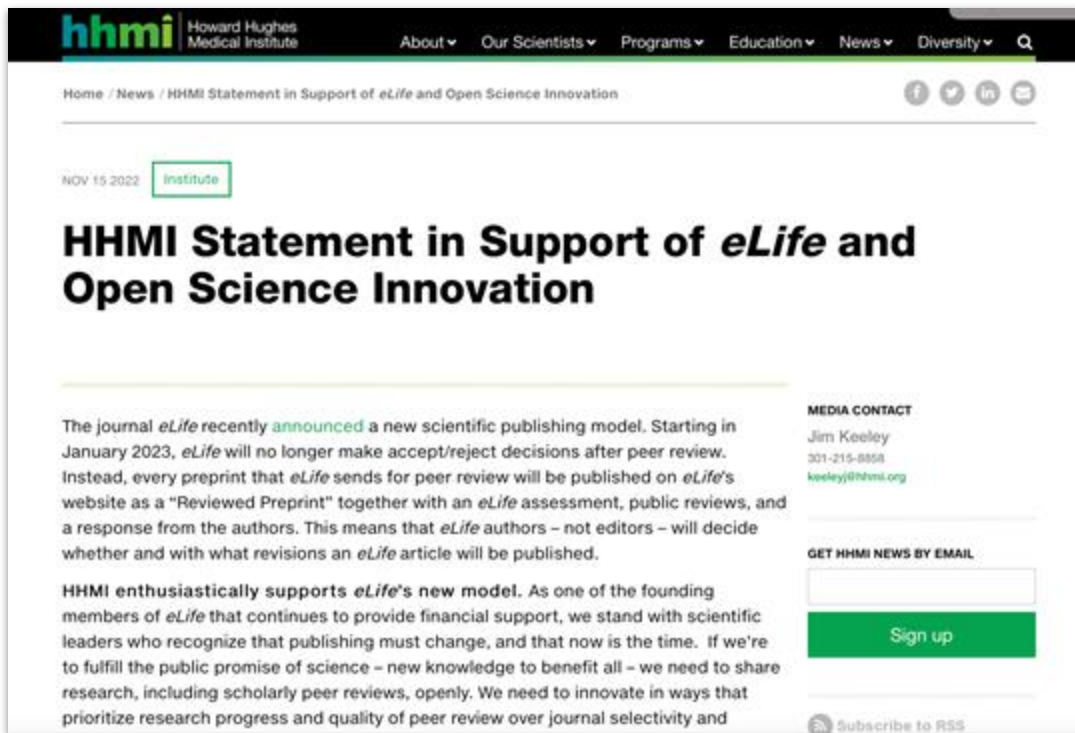
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Support from funders



The screenshot shows the HHMI (Howard Hughes Medical Institute) website. The header includes the HHMI logo and navigation links: About, Our Scientists, Programs, Education, News, and Diversity. The main content area features a headline: "HHMI Statement in Support of *eLife* and Open Science Innovation". Below the headline, the 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." A sidebar on the right contains a "MEDIA CONTACT" section with Jim Keeley's contact information and a "GET HHMI NEWS BY EMAIL" sign-up form with a green "Sign up" button.

HHMI Statement in Support of *eLife* and Open Science Innovation

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



The screenshot shows a tweet from Hannah Hope (@hjhope). The tweet text reads: "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*." The tweet is dated 5:30 PM - Nov 9, 2022.

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

cOAlition S

CHEN TIANQIAO & CHIRISSY
INSTITUTE

BILL & MELINDA
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Foundation

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International Network of Open Science & Scholarship Communities



18 countries



36 communities



2300+ members



OSC Biobio

THE FOUR STAGES OF DEVELOPING AN OPEN SCIENCE COMMUNITY



01

PREPARE & LAUNCH

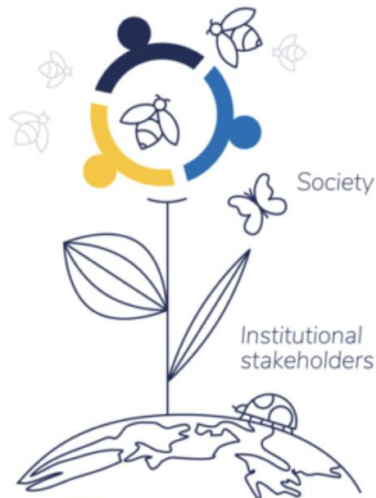
- Find founding members
- Connect with us!
- Be visible
- Attract initial members
- Connect to other initiatives
- Launch!



02

GROW & INSPIRE

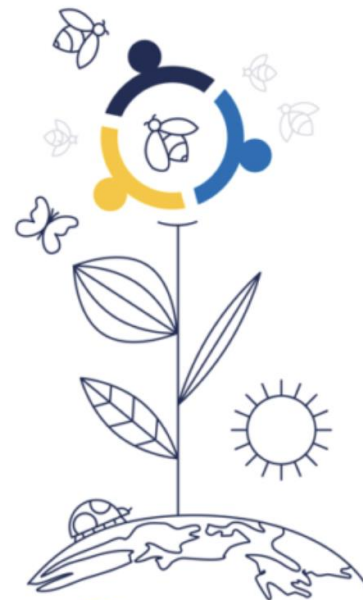
- Attract members
- Inspire Open Science practices



03

FOSTER AND MAINTAIN

- Foster diversity and inclusivity
- Interact with institutional stakeholders
- Interact with society



04

DREAM & SCHEME

- The future is open!

Thanks !!!

