

# *New challenges to publish science in LATAM.*

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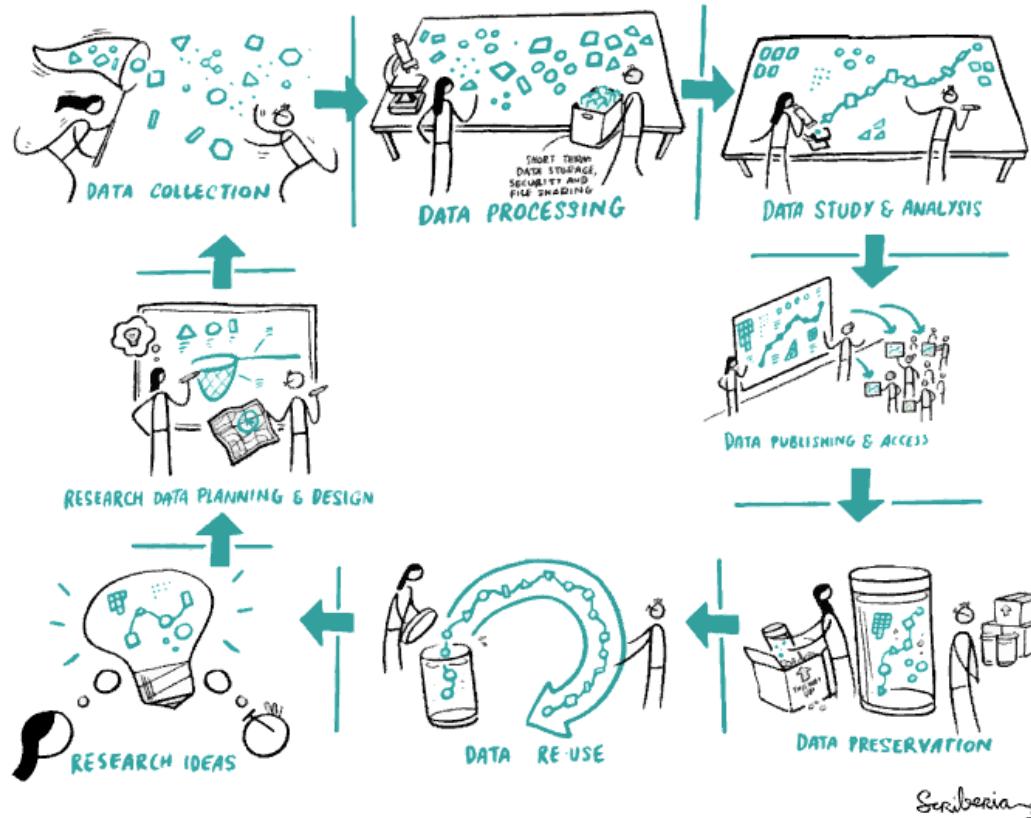
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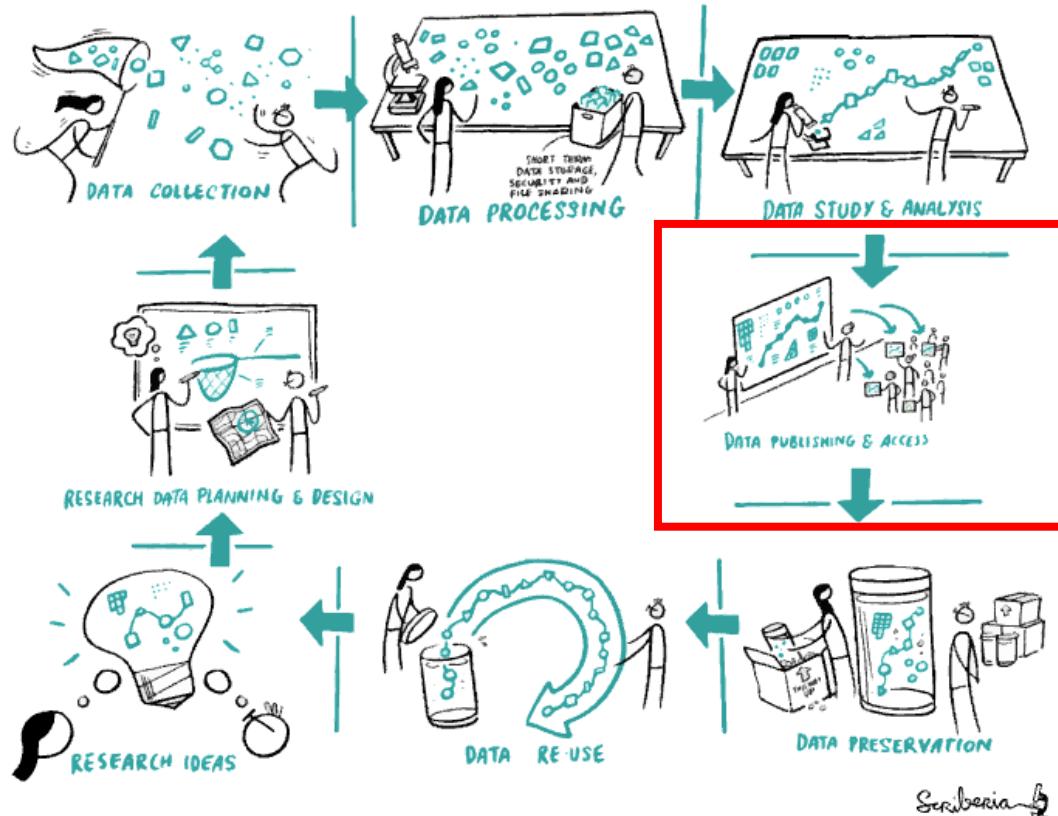
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# Overview of Reproducible Research



# Overview of Reproducible Research



# Open Science - Open Research



EVOLVING TOWARDS AN  
ERA OF  
**OPEN RESEARCH**

Scriberia

The Turing Way project illustration by Scriberia. Used under a CC-BY 4.0 licence. DOI: [10.5281/zenodo.3332807](https://doi.org/10.5281/zenodo.3332807).

# How we publish?

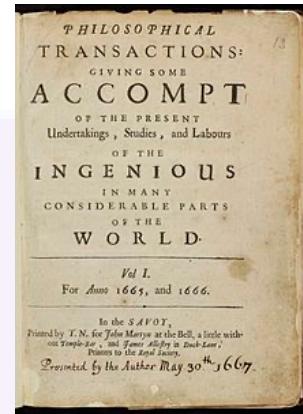
# How we publish?

1665:



"The philosophical  
Transactions"

THE ROYAL  
SOCIETY



# How we publish?

1665:



"The philosophical Transactions"



PEER REVIEW

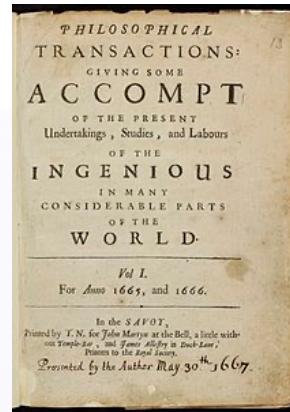
DATE OF PUBLICATION

THE ROYAL SOCIETY

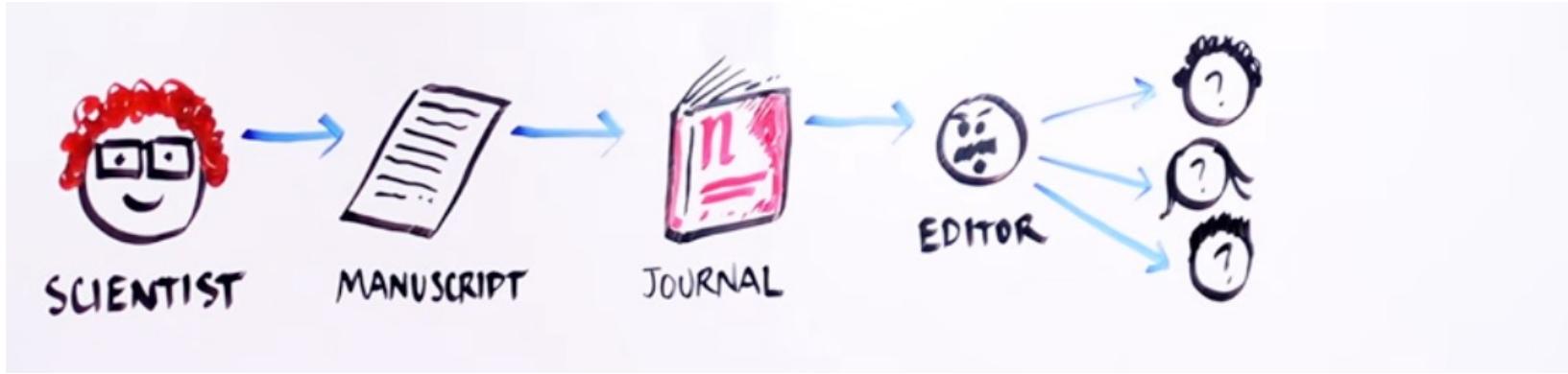


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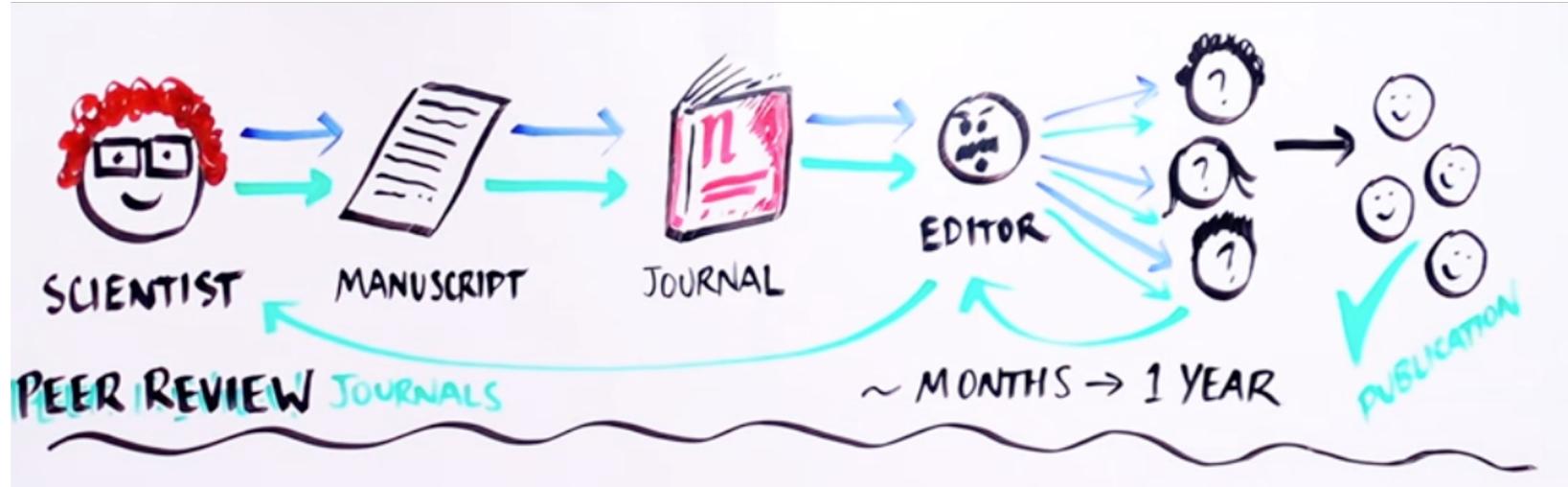
HMM...



# How we publish?



# How we publish?



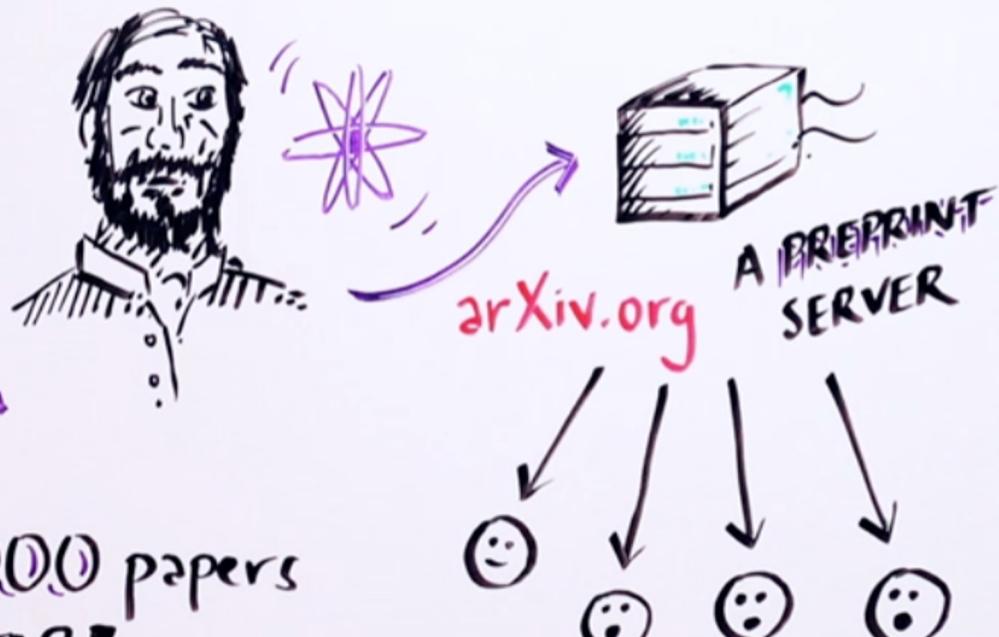
BUT... IS THERE A BETTER WAY?

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

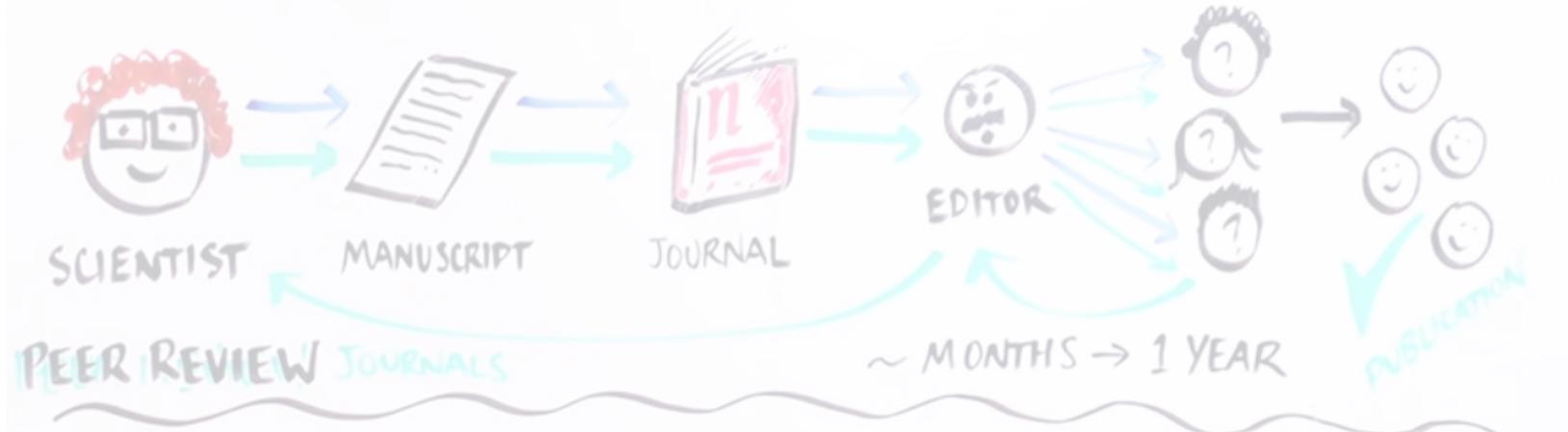
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PAUL GINSPIRG  
PHYSICIST

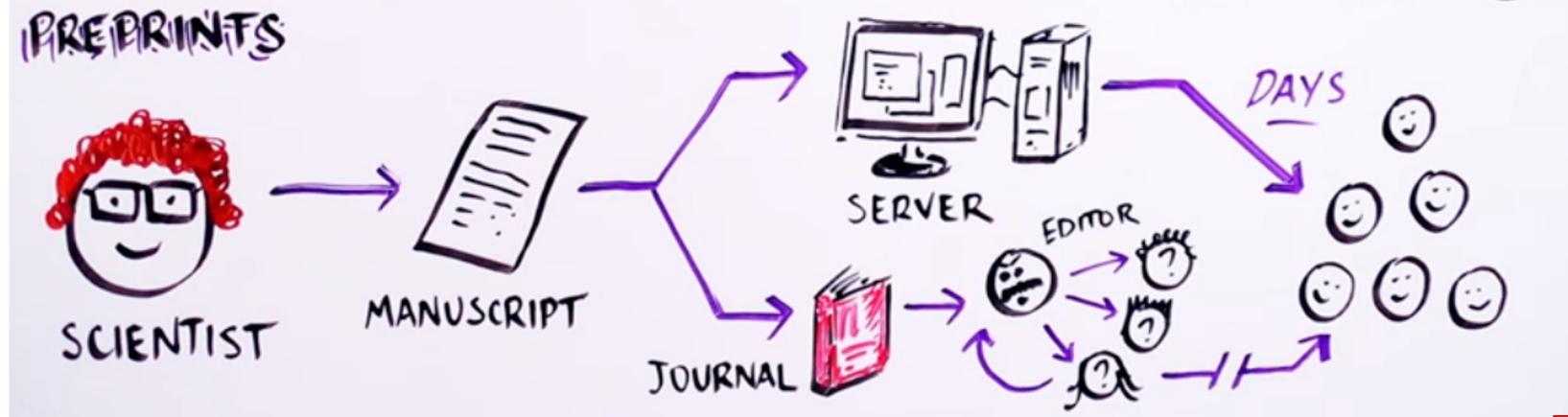
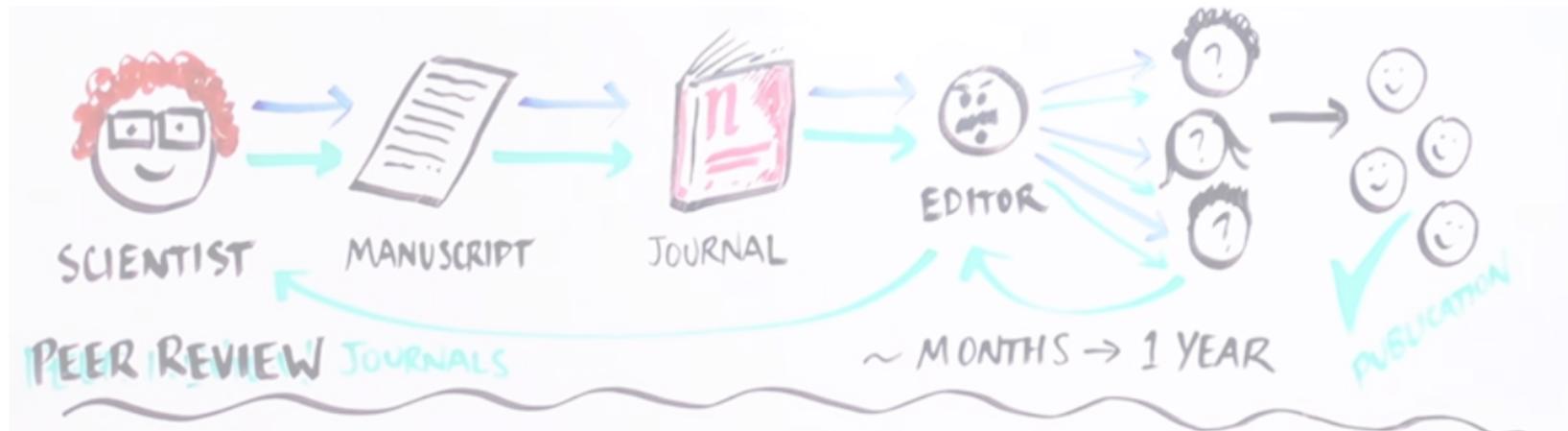
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EACH YEAR!

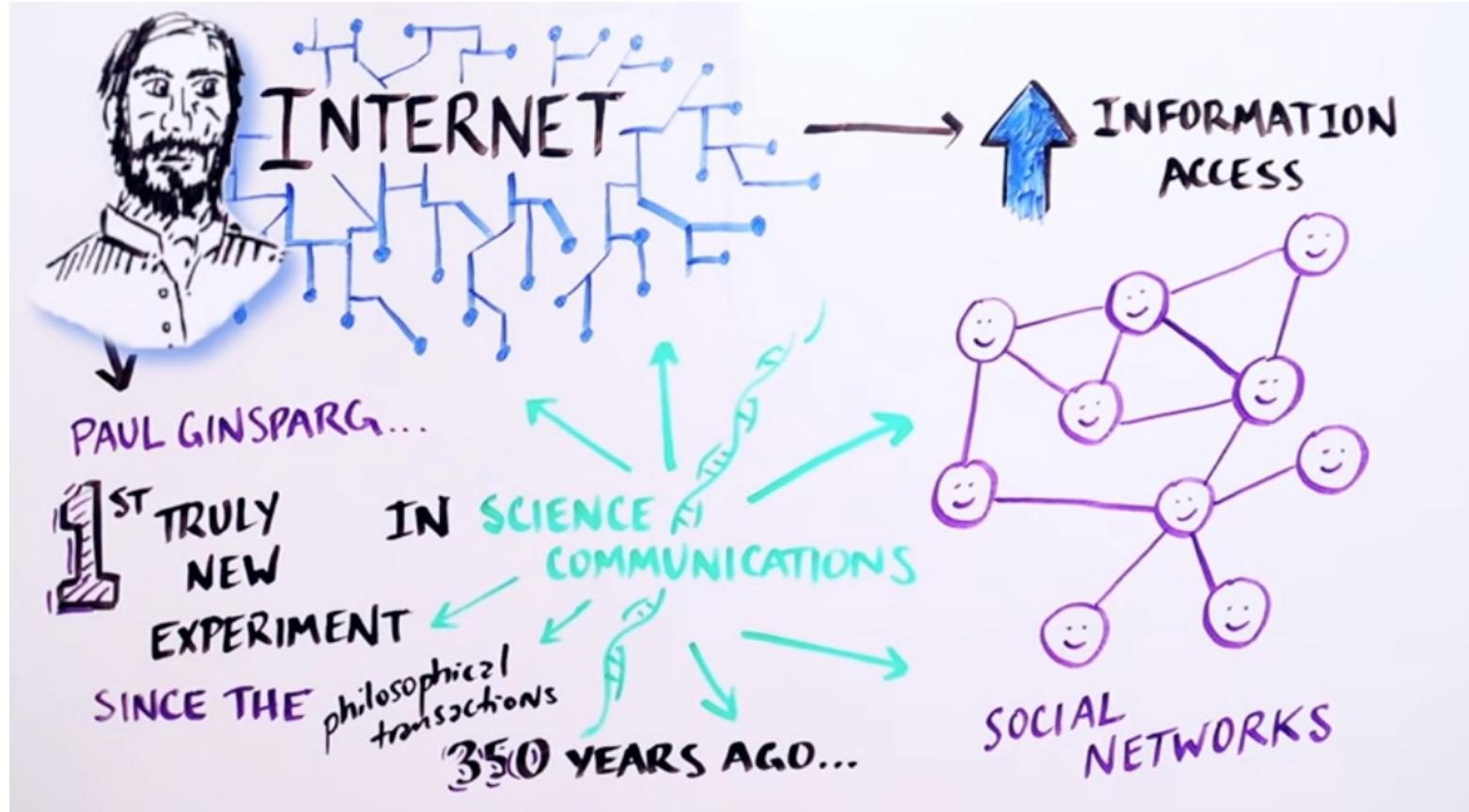


# How can we publish nowadays?

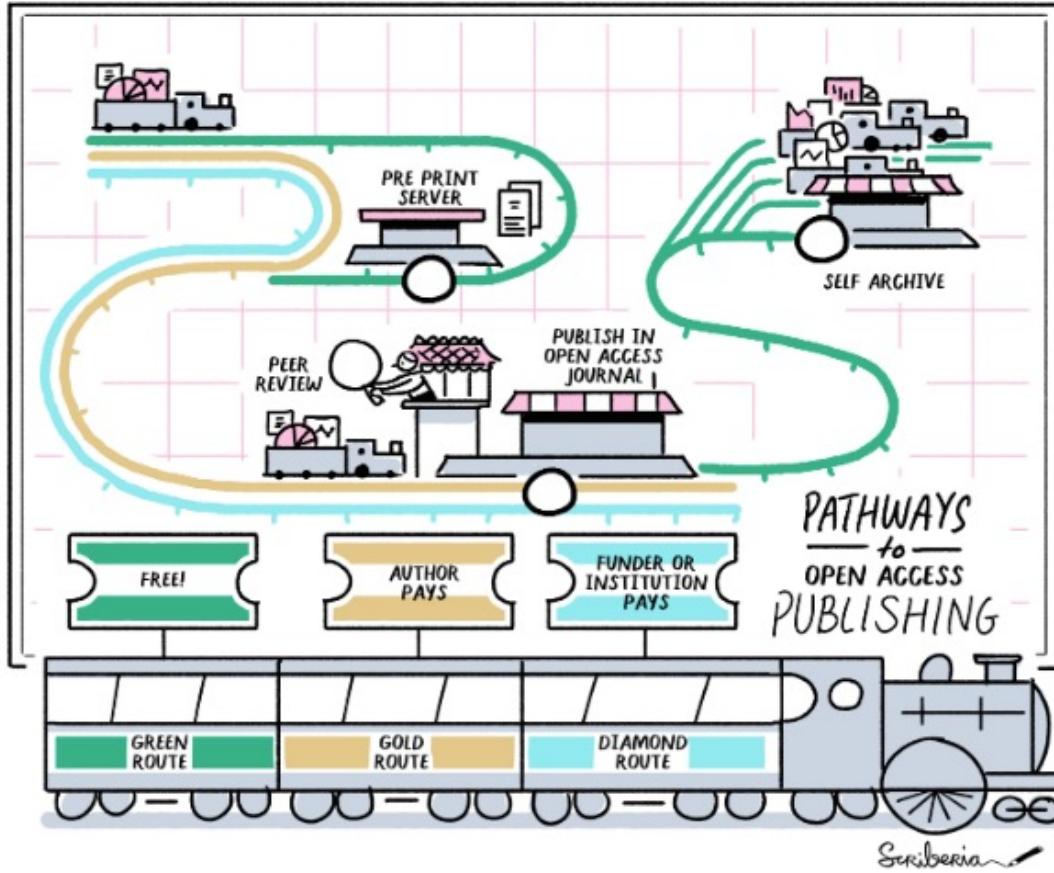


# How can we publish nowadays?



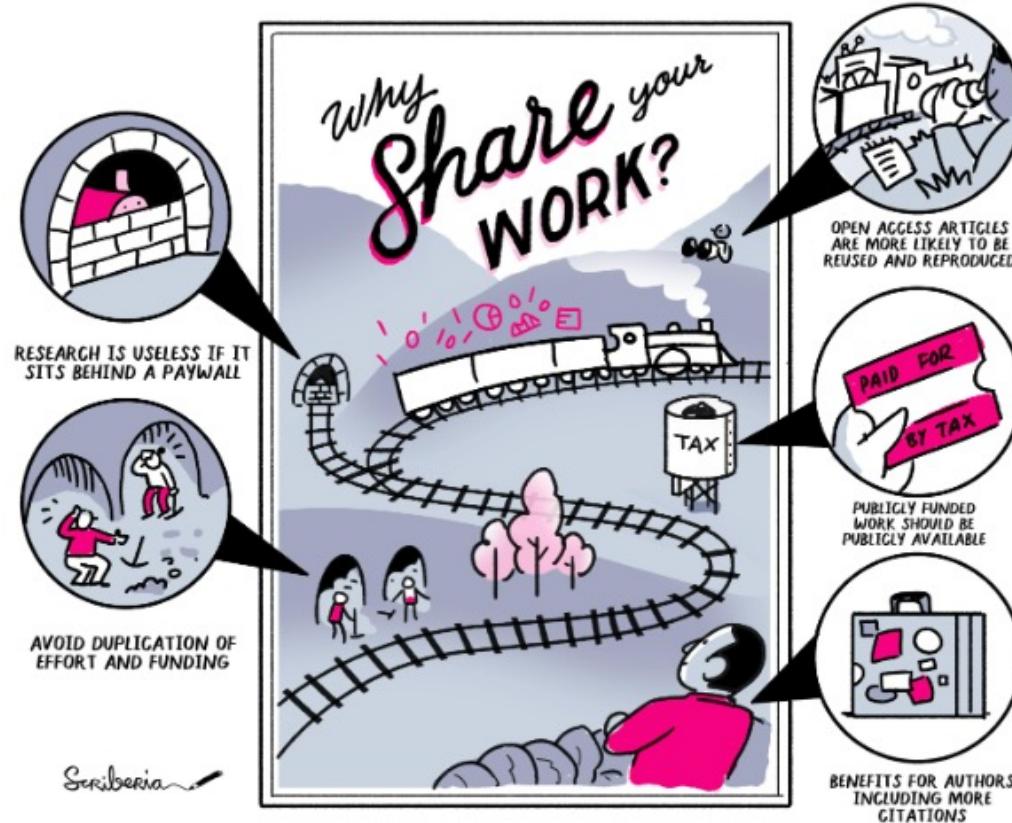


# What is “open access”?



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# 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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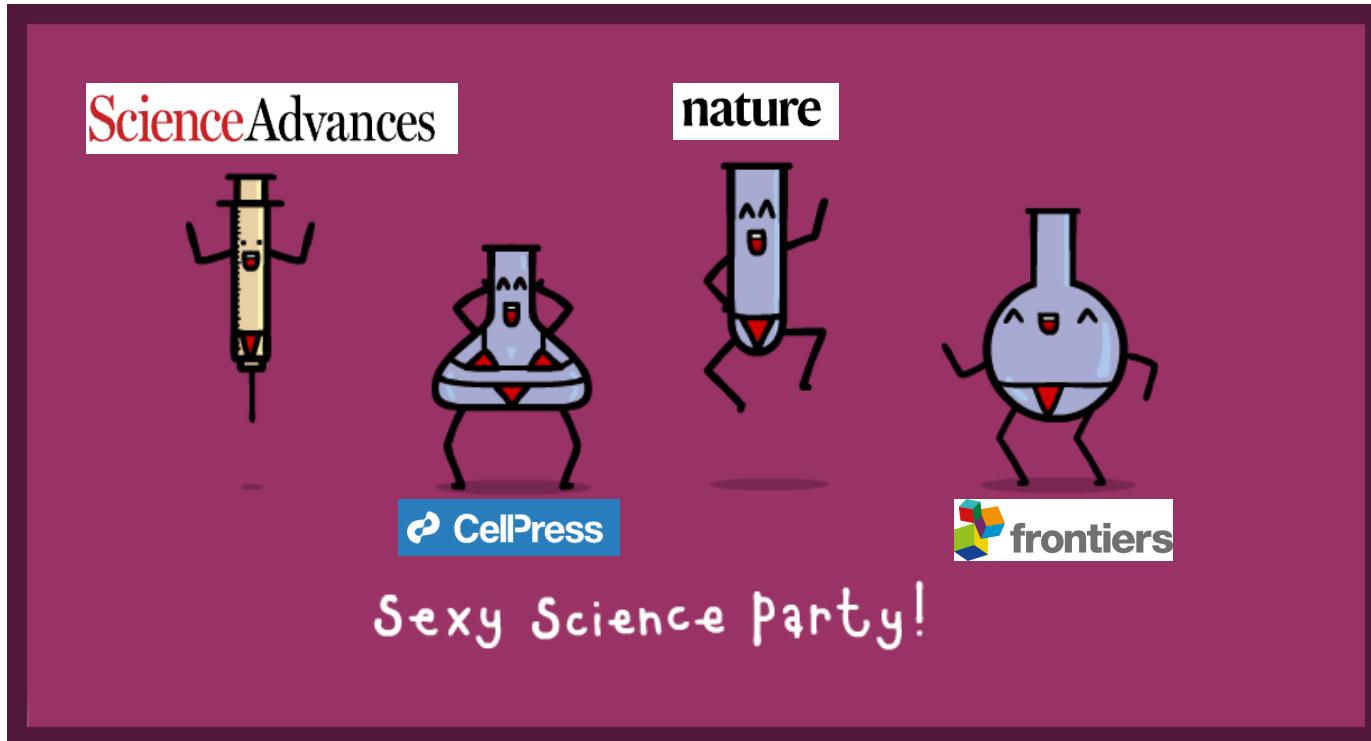
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NEWS | 24 November 2020

### 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

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..



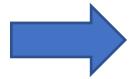
# Challenge:

How to change the current science communication model without reinventing the wheel?



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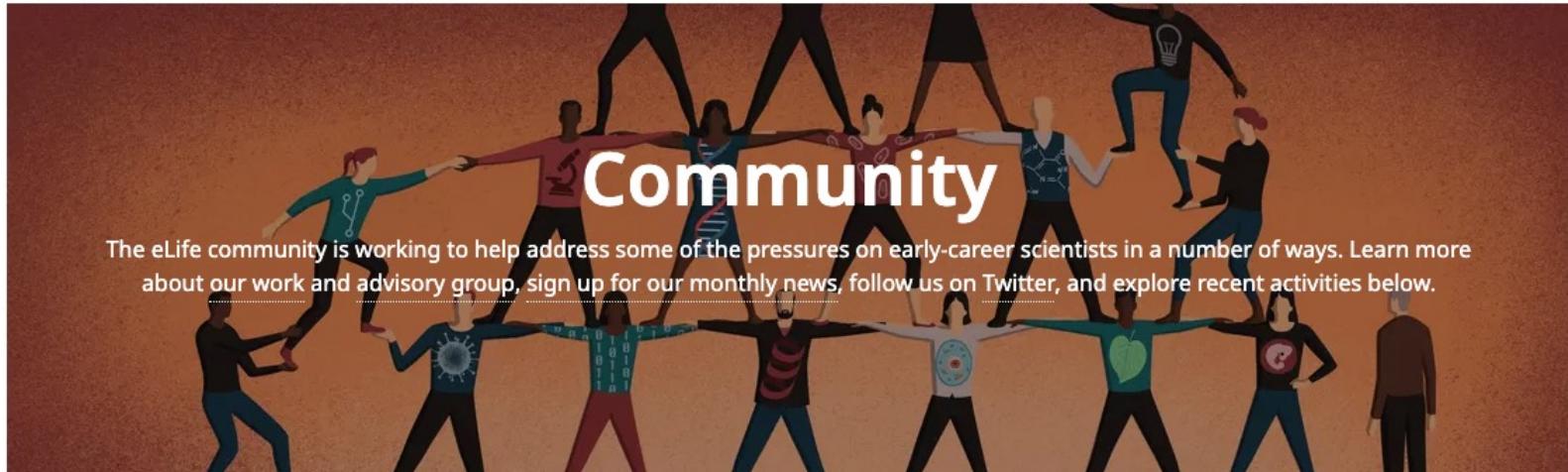
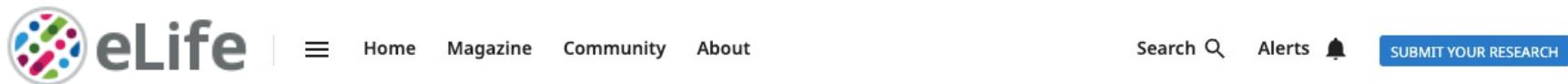


A screenshot of the The New York Times website homepage. The header includes the logo, a search bar, and navigation links for U.S., INTERNATIONAL, CANADA, ESPAÑOL, and 中文. Below the header, there are several news articles with headlines and images. One article about Ukraine has a 'LIVE' section with a timer. Another article about Microsoft has a Microsoft logo. The footer includes a weather forecast (18°C / 21°) and a 'LOG IN' button.

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

# Challenge:

How to change the current science communication model without reinventing the wheel?



Founded 2012-2022

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



**hhmi** | Howard Hughes  
Medical Institute



*Knut and Alice  
Wallenberg  
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# 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



Submit your paper and you'll hear if it is invited for expert peer review.

Your paper undergoes consultative review by experts in the field and a publication fee is collected. You will then receive an eLife assessment, public reviews and confidential recommendations from reviewers on how to improve the paper.

Your paper is published on eLife's website as a Reviewed Preprint along with the eLife assessment and public reviews. It is then citable. The eLife assessment reflects the significance of the findings and the strength of the evidence reported in the preprint. You will also be able to include a response to the assessment and reviews.

At any point following peer review, you can choose to have your Reviewed Preprint published as the 'Version of Record'. Following author proofing and conformance with our journal policies, eLife will send your paper to be indexed on PubMed.

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



# ASAPbio Community

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To drive ASAPbio's mission to raise awareness of preprints and encourage their productive use in the life sciences, we work closely with the **ASAPbio Community**, a group of researchers and others involved in research communication who interact and exchange information and feedback around the use of preprints.

## The ASAPbio Community members:

- Interact via Slack and community calls
- Receive monthly newsletters
- Contribute to projects to promote the use of preprints

[Sign up for the ASAPbio Community](#)



A word cloud graphic centered on the ASAPbio logo. The words are arranged in a roughly circular pattern around the logo. The most prominent words are 'ASAPbio' (in large black font), 'Community' (in large black font), 'science' (in large black font), 'work' (in large black font), 'goals' (in large black font), 'communication' (in large black font), 'transparency' (in large black font), 'skills' (in large black font), 'practice' (in large black font), 'orientation' (in large black font), 'members' (in large black font), 'contribution' (in large black font), 'productive' (in large black font), 'outreach' (in small red font), 'feedback' (in small red font), 'report' (in small red font), 'information' (in small red font), 'experiences' (in small red font), 'inclusive' (in small red font), 'sharing' (in small red font), 'participants' (in small red font), 'resources' (in small red font), and 'program' (in small red font).



Preprint successful story...

# 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.

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

Hanbin Jeong, Sarah Clark, April Goehringer, 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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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/ITubZsShCn> #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 transduction관련 단백질 구조를 밝힌 논문인데 단백질을 그냥 transgenic *C.elegans*를 만들어서 거기서 정제함...벌레 80g (  $6 \times 10^7$  마리)에서 50ng의 단백질을 정제하여 그걸로 구조를 풀었다고 ㄷ ㄷ ㄷ

09 May 2022



John Janetzko

@jjanetzko

That's so cool!!

09 May 2022



Lijun Qi

@leonard\_qi

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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 , Reshma 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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PNAS



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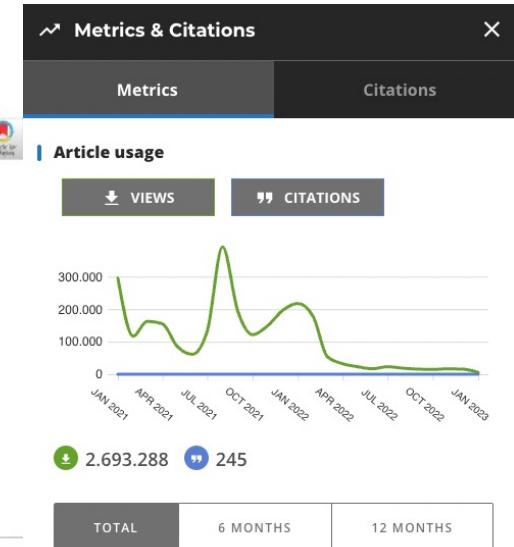
## An evidence review of face masks against COVID-19

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



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NOV 15 2022  Institute

## 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

MEDIA CONTACT  
Jim Keeley  
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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

cOALition S

CHEN TIANQIAO & CHRISSEY INSTITUTE

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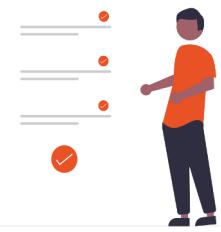
To change the system to work for everyone (in LATAM), we need the global communities involvement



**Publish**



**Review**



**Curate**



Let's start wit Open Science Communities



Let's start wit Open Science Communities

Europe example



International Network of Open Science & Scholarship Communities







# Open Science Community Starter Kit

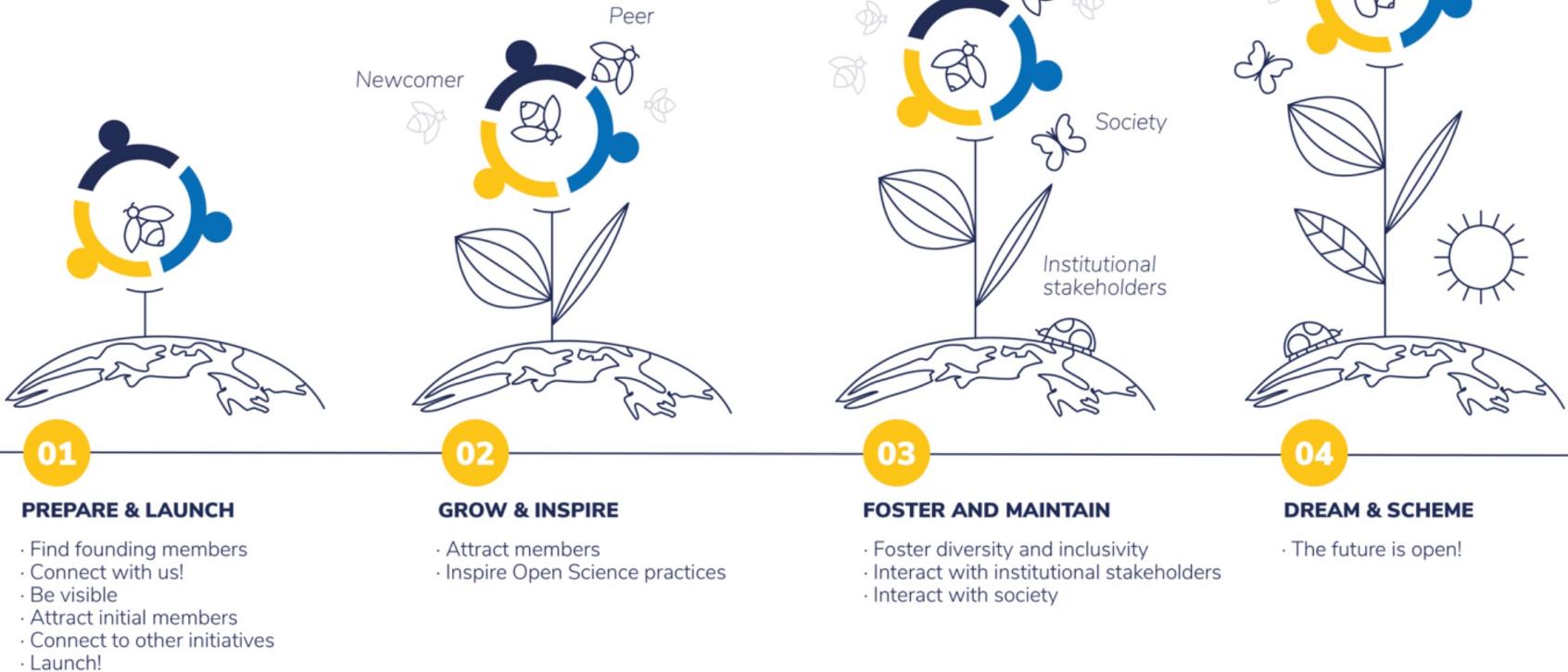
Set up and foster a local Open Science Community

Get Started



<https://www.startyourosc.com/>

## THE FOUR STAGES OF DEVELOPING AN OPEN SCIENCE COMMUNITY



# Thanks !!!

