Locked up science



Tearing down paywalls in scholarly communication

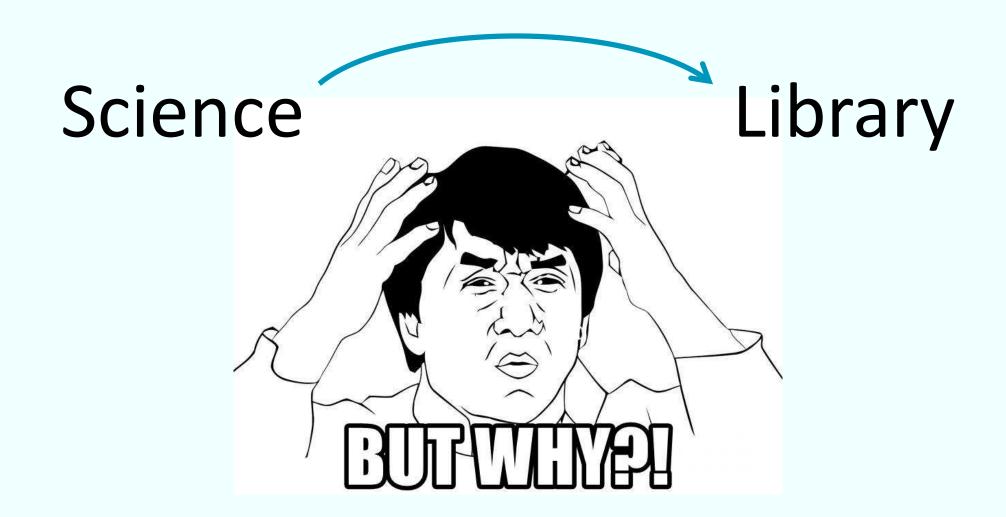
Claudia Frick - @FuzzyLeapfrog

#35c3



Science

Science Library



Science ...?

Education and decision-making

Science ...?

- Education and decision-making
- Health and diseases

Science ...?

- Education and decision-making
- Health and diseases
- Environmental challenges

Restricting access to science



Benefit for society



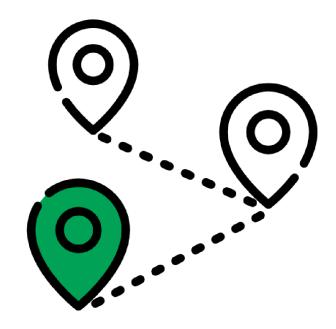
720 of scientific publications are locked up behind paywalls



Access to science

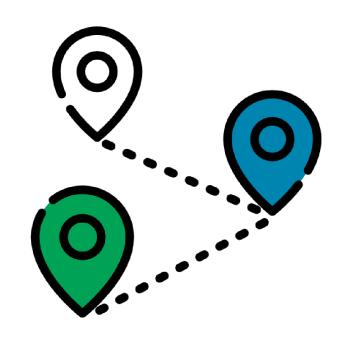
"Open Access describes the goal of making global knowledge accessible and re-usable in digital form without financial, technical or legal barriers."

Roadmap



How can we tear down the paywalls?

Roadmap



What does the most common way of scientific publishing look like?

How can we tear down the paywalls?



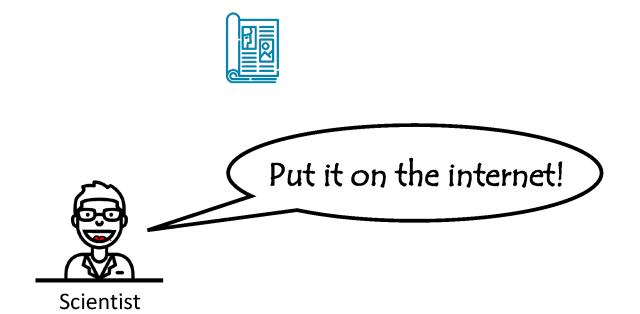
Scientist



Scientist



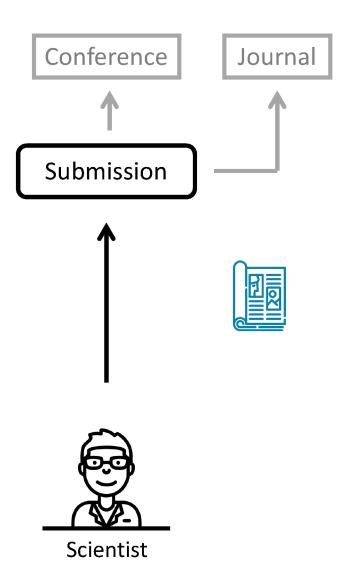








Scientist





Journal

Submission

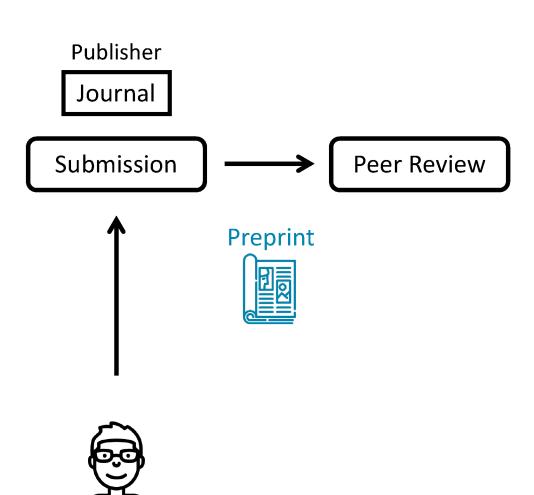


Preprint

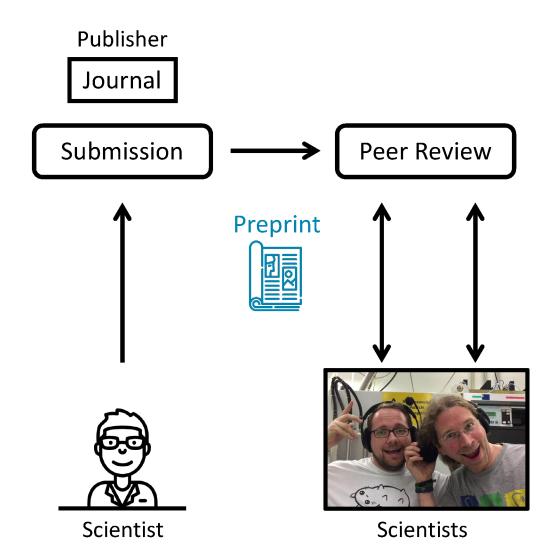


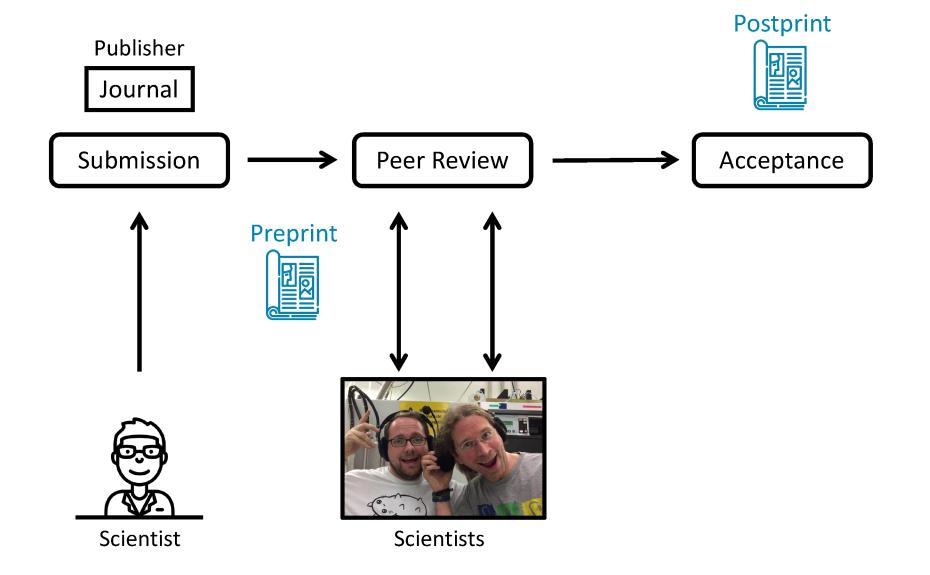


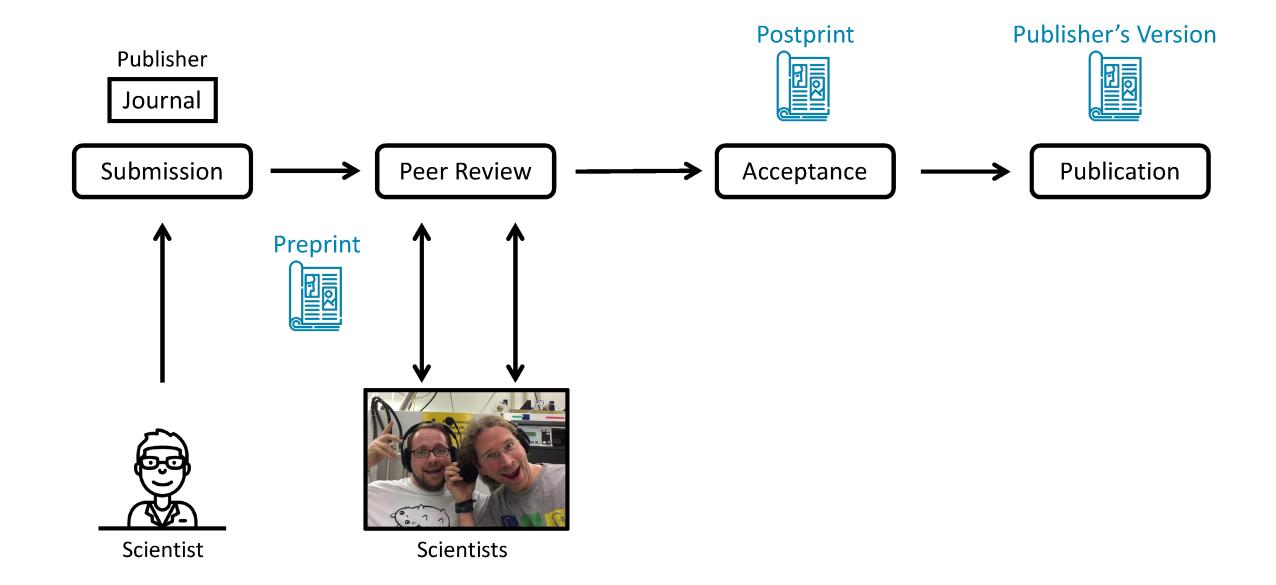
Scientist

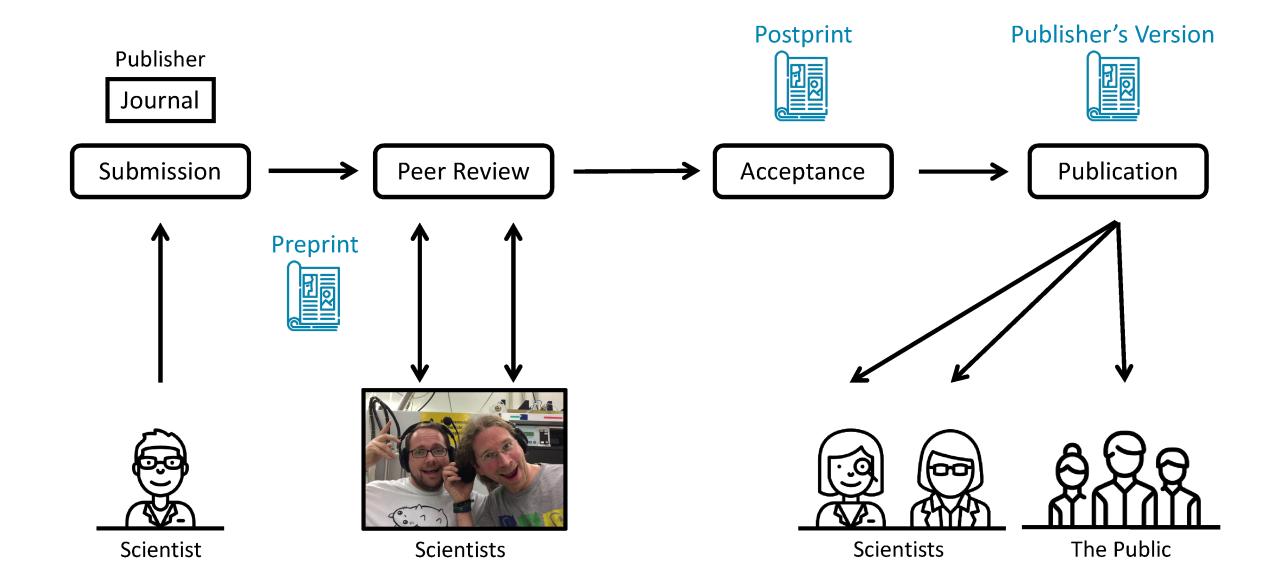


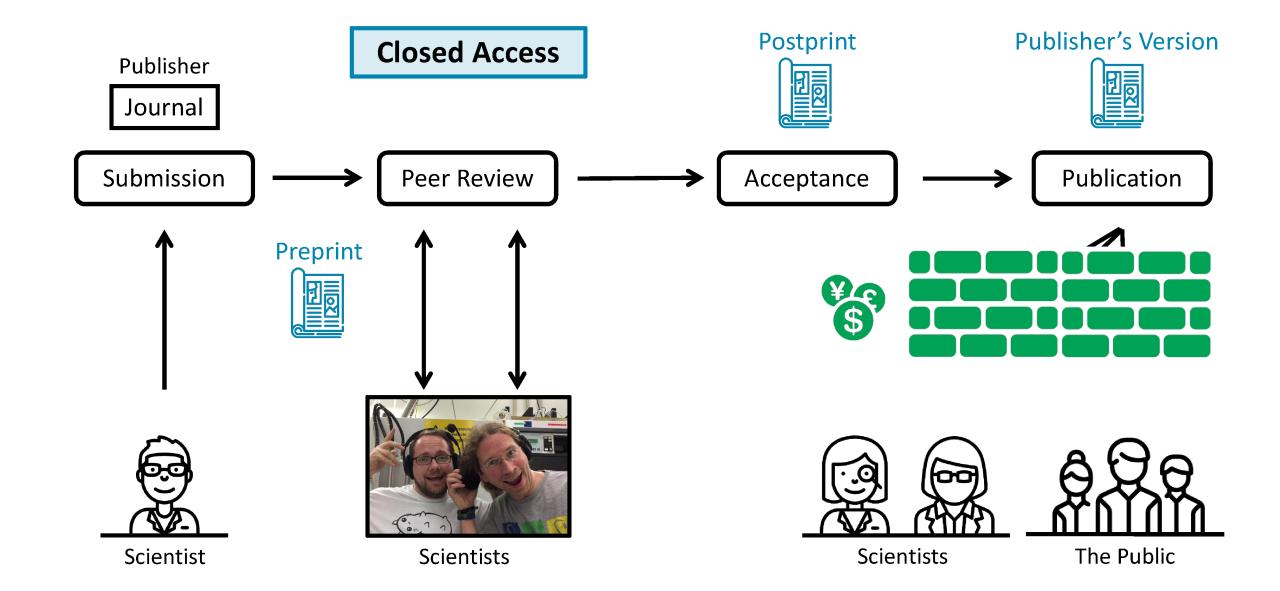
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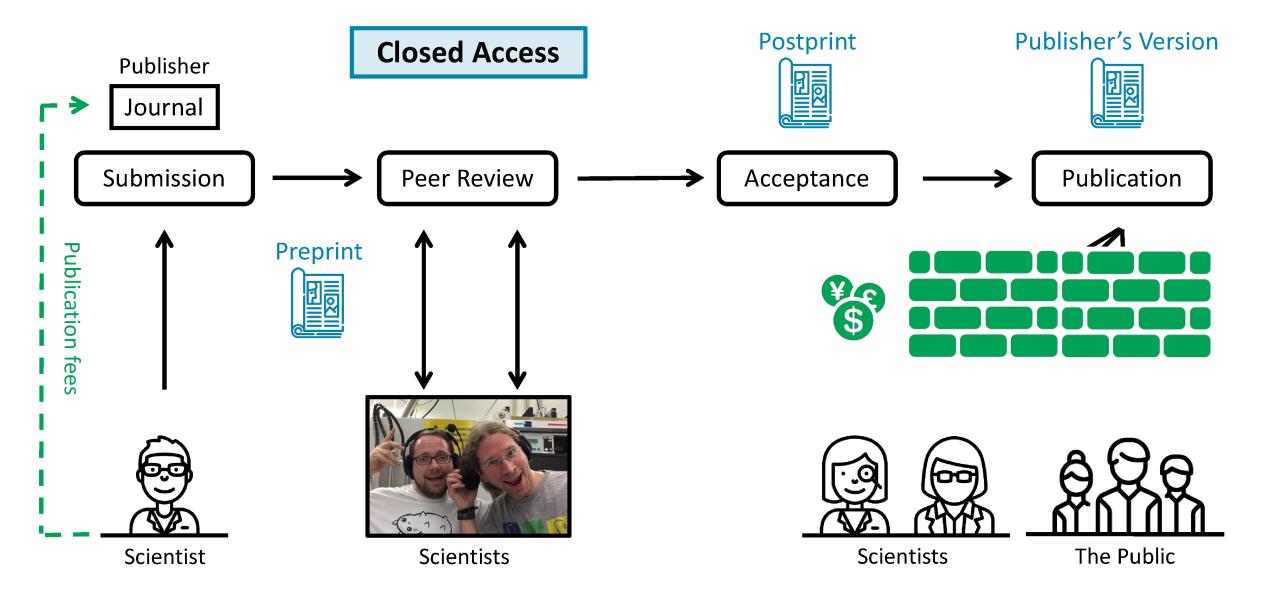


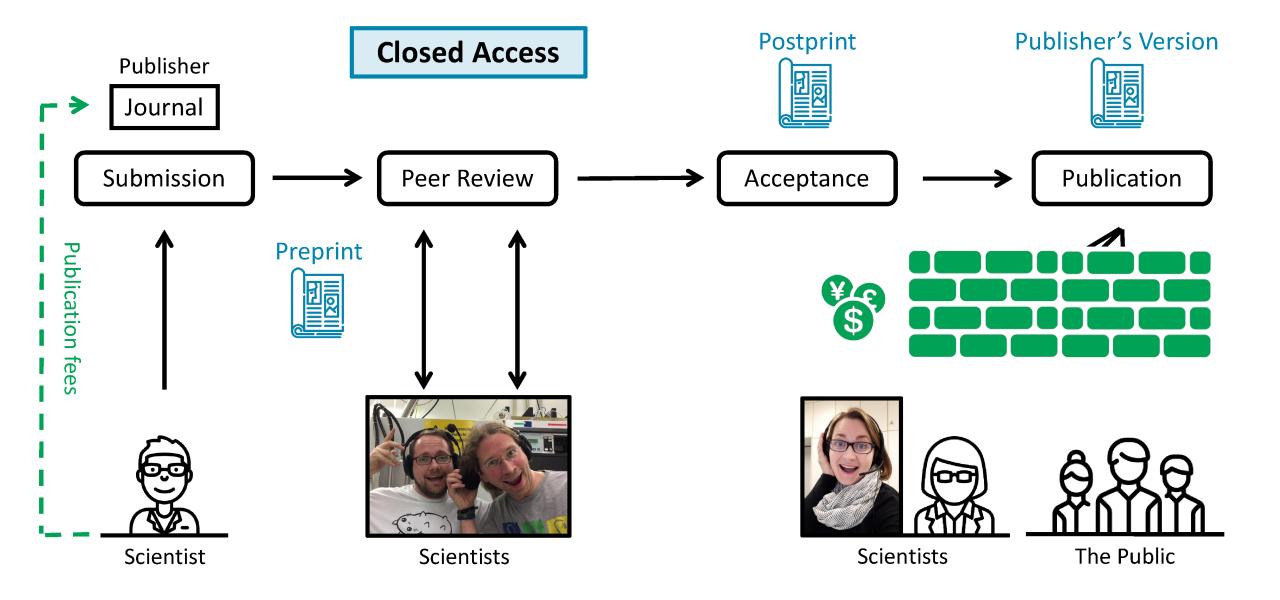


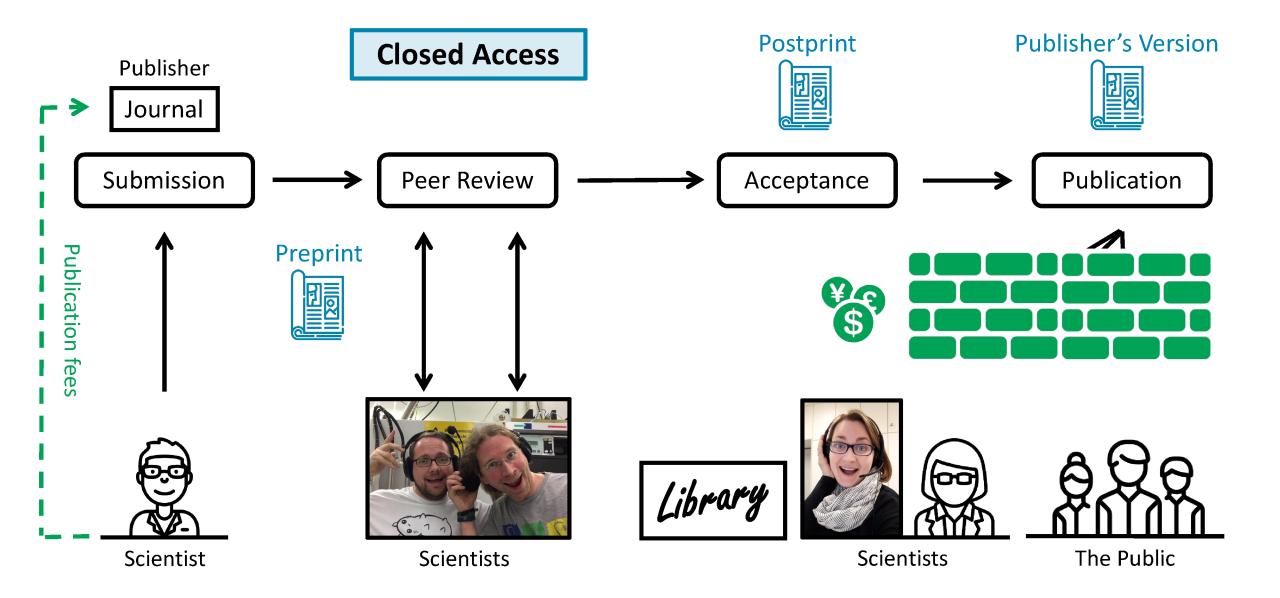


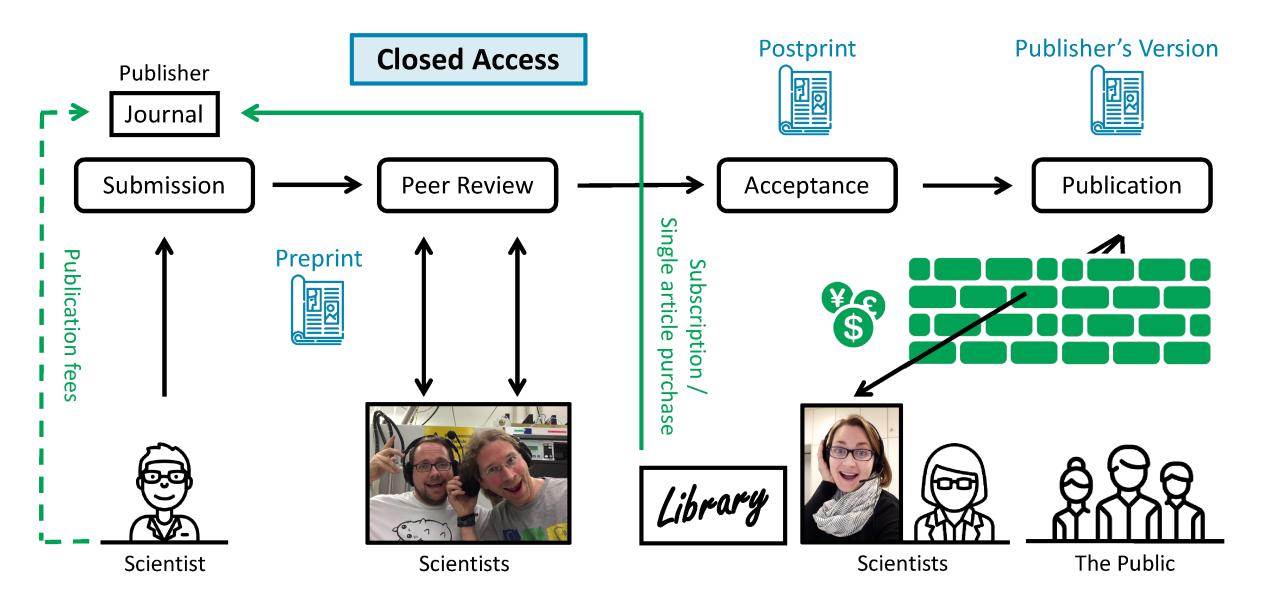


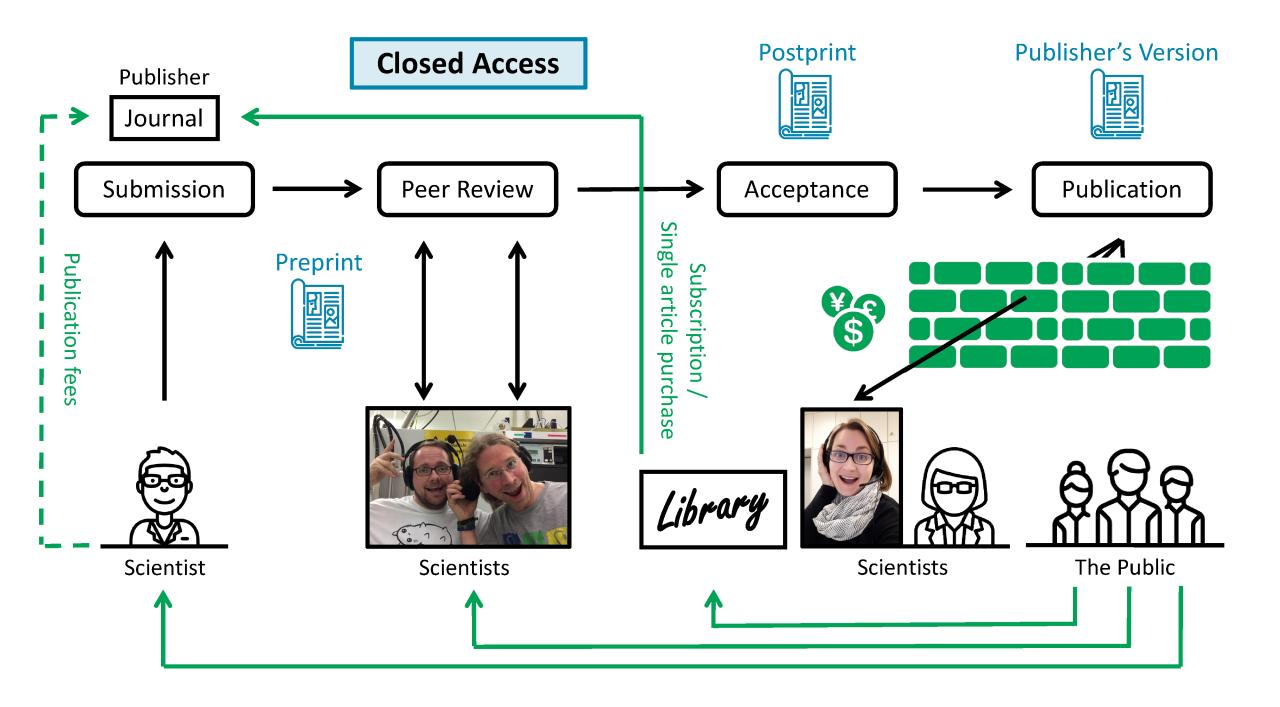


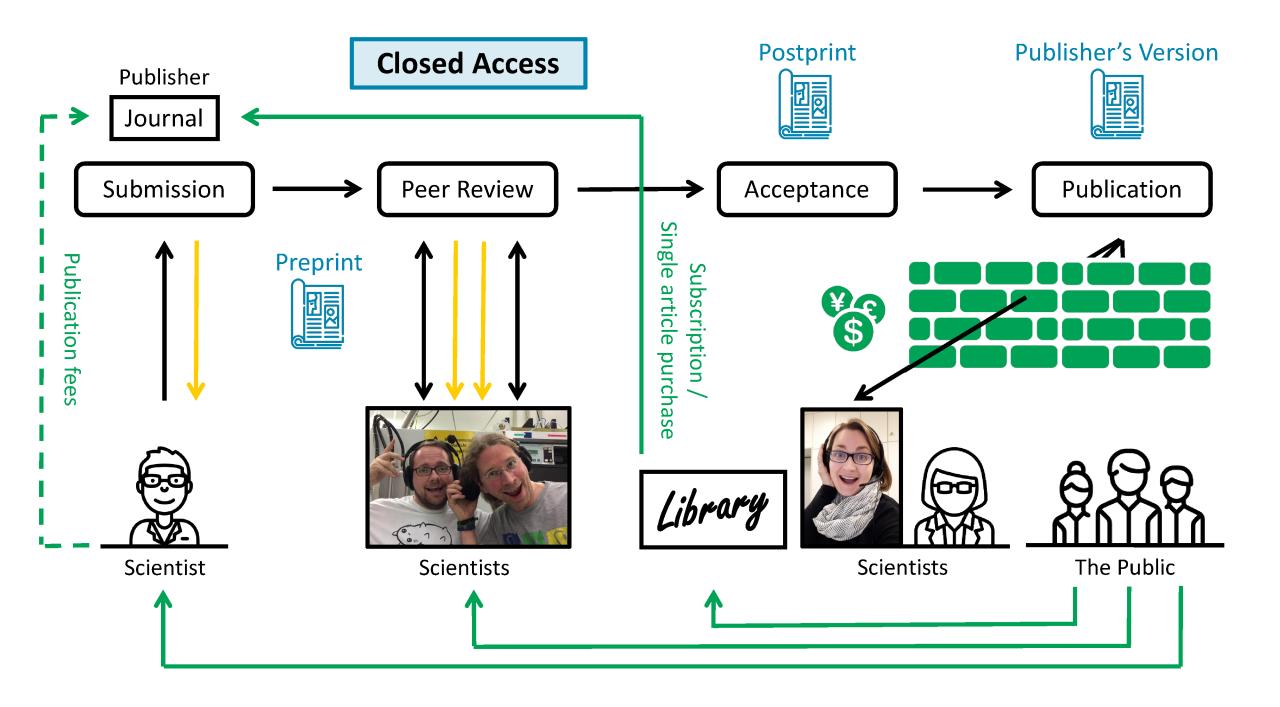


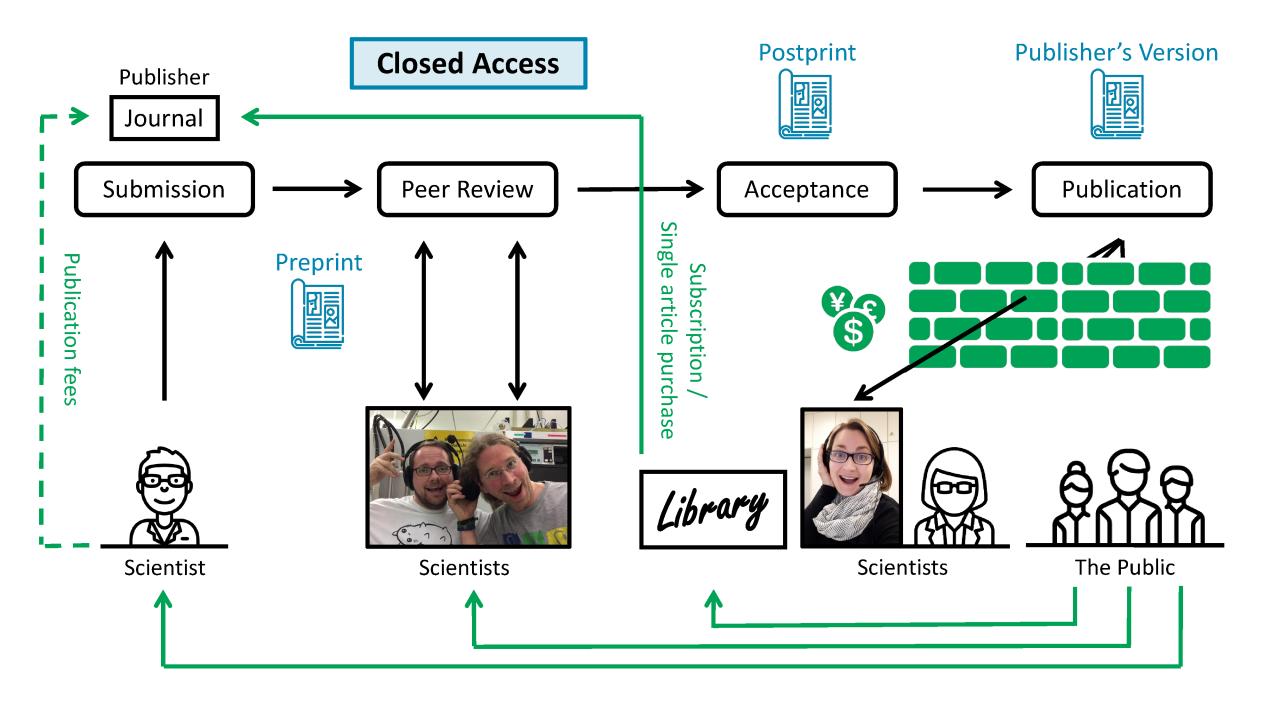




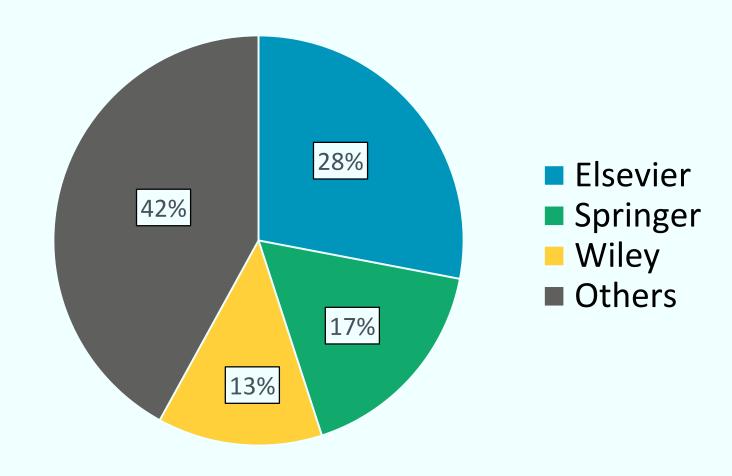








Market shares of major academic publishers



Profit margins of major academic publishers

Profit	Company	Industry	Holcombe
10%	BMW	automobiles	CC-BY Alex Holcombe
23%	Rio Tinto	mining	F-km CC.
25%	Google	search	p.me/ph4j
29%	Apple	premium computing	http://w
35%	Springer	scholarly publishing	
37%	Elsevier	scholarly publishing	

Profit margins of major academic publishers

Profit	Company	Industry	Holcombe
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23%	Rio Tinto	mining	-km CC
25%	Google	search	nttp://wp.me/ph4iF
29%	Apple	premium computing	http://w
35%	Springer	scholarly publishing	
37%	Elsevier	scholarly publishing	

Global journal subscription spendings

EUR 7,600,000,000 per year

Harvard University says it can't afford journal publishers' prices

University wants scientists to make their research open access and resign from publications that keep articles behind paywalls



▲ A memo from Harvard's faculty advisory council said major scientific publishers had made scholarly communication 'fiscally unsustainable'. Photograph: Corbis

What can I do?

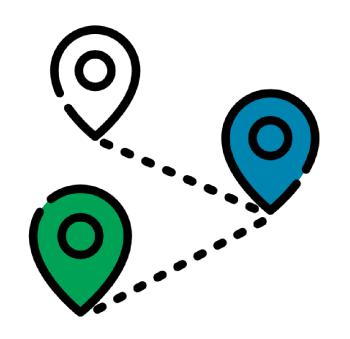
1. Tear down the paywalls

What can I do?

- 1. Tear down the paywalls
- 2. Become an academic publisher



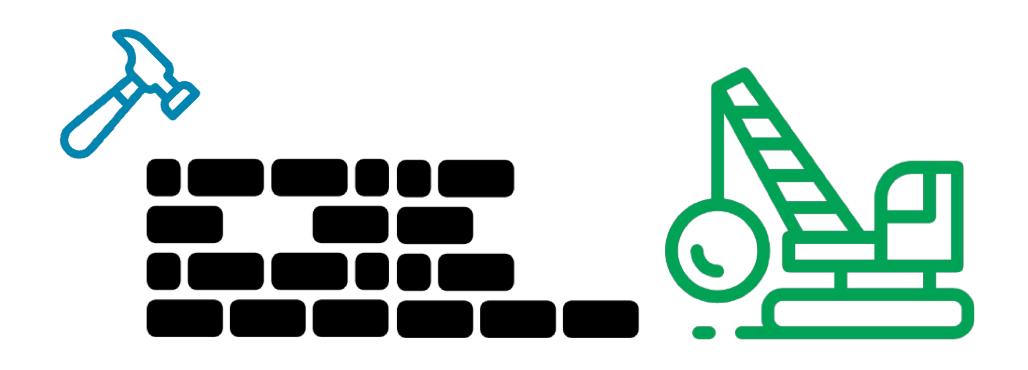
Roadmap



What does the most common way of scientific publishing look like?

How can we tear down the paywalls?

Approaches to scientific publishing without paywalls



The players



Scientists

produce
peer-review
consume



Funders provide money



Libraries grant access



Publishers publish

The players



Scientists

produce
peer-review
consume





Funders provide money



Libraries grant access



Publishers publish

The players



Scientists

produce peer-review consume





Funders

provide money



Libraries

grant access



Publishers

publish



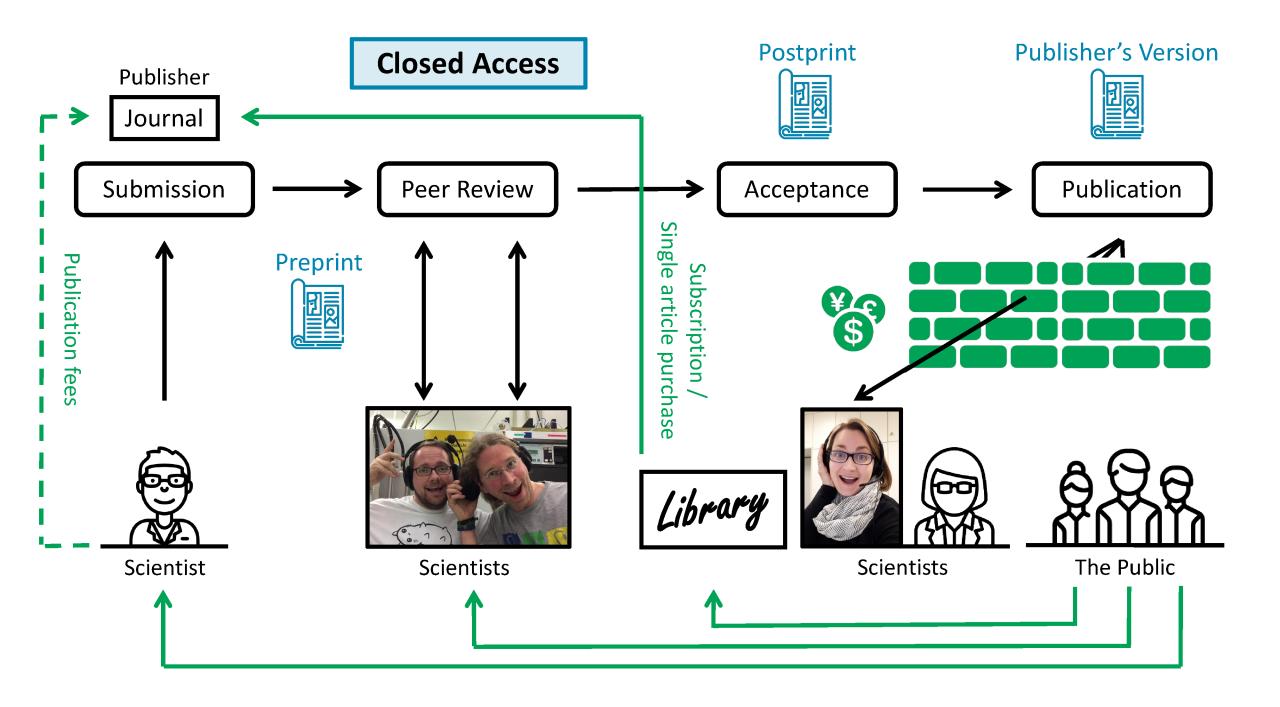
Approaches for scientists

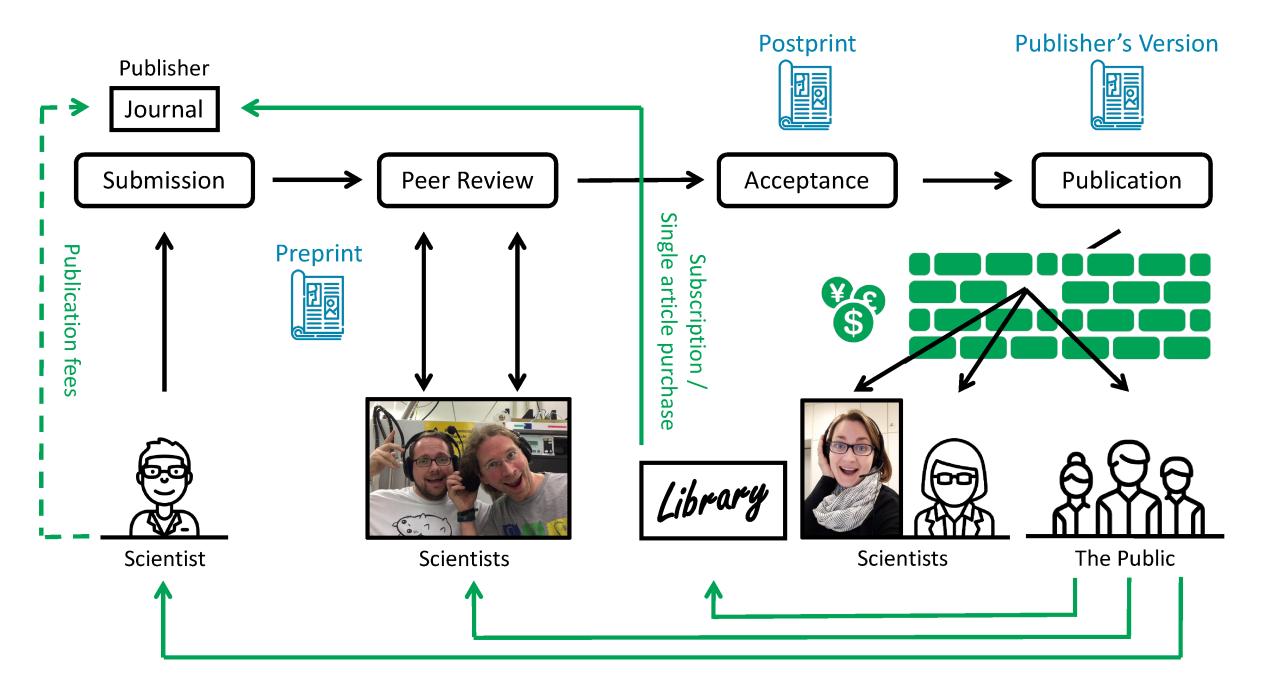


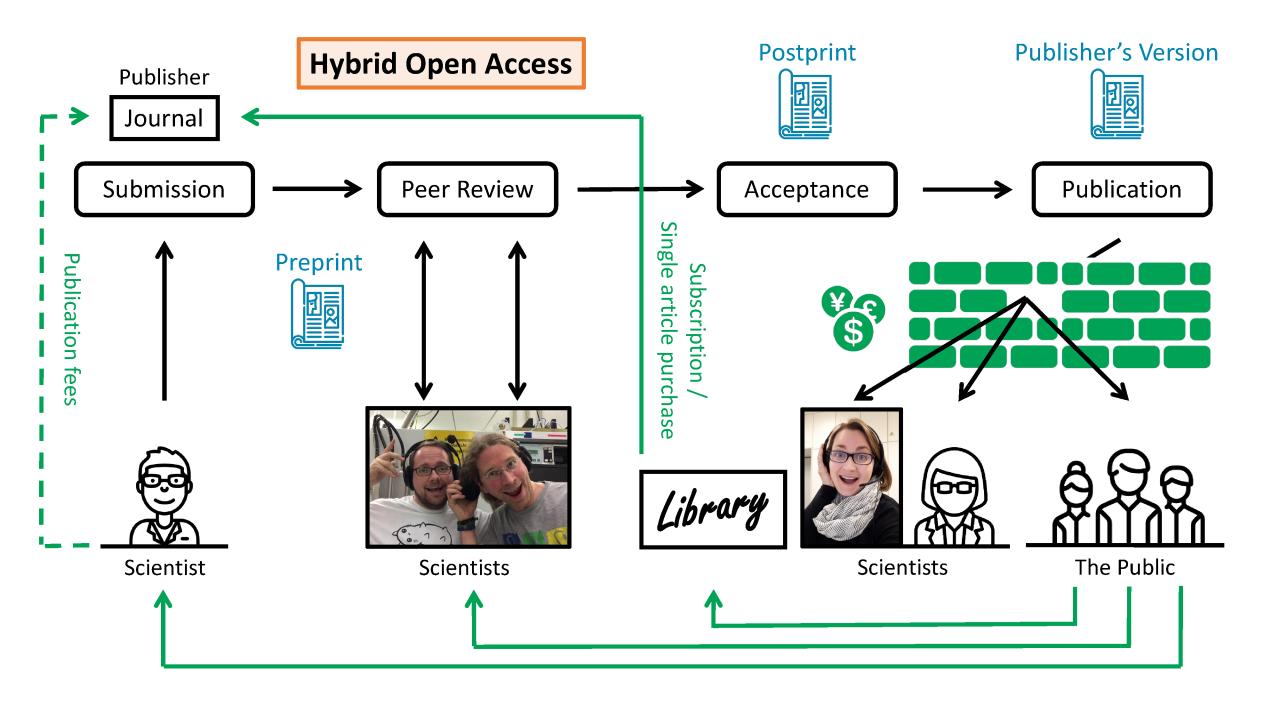
Scientists

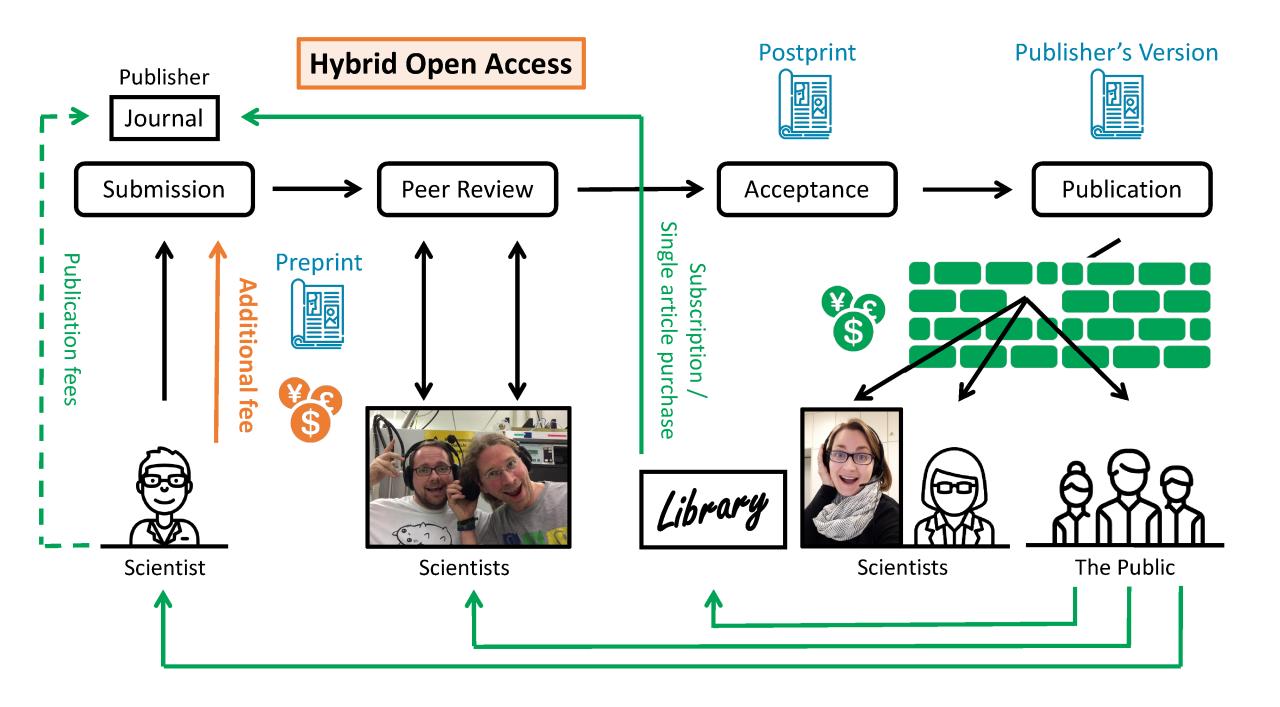
produce peer-review consume

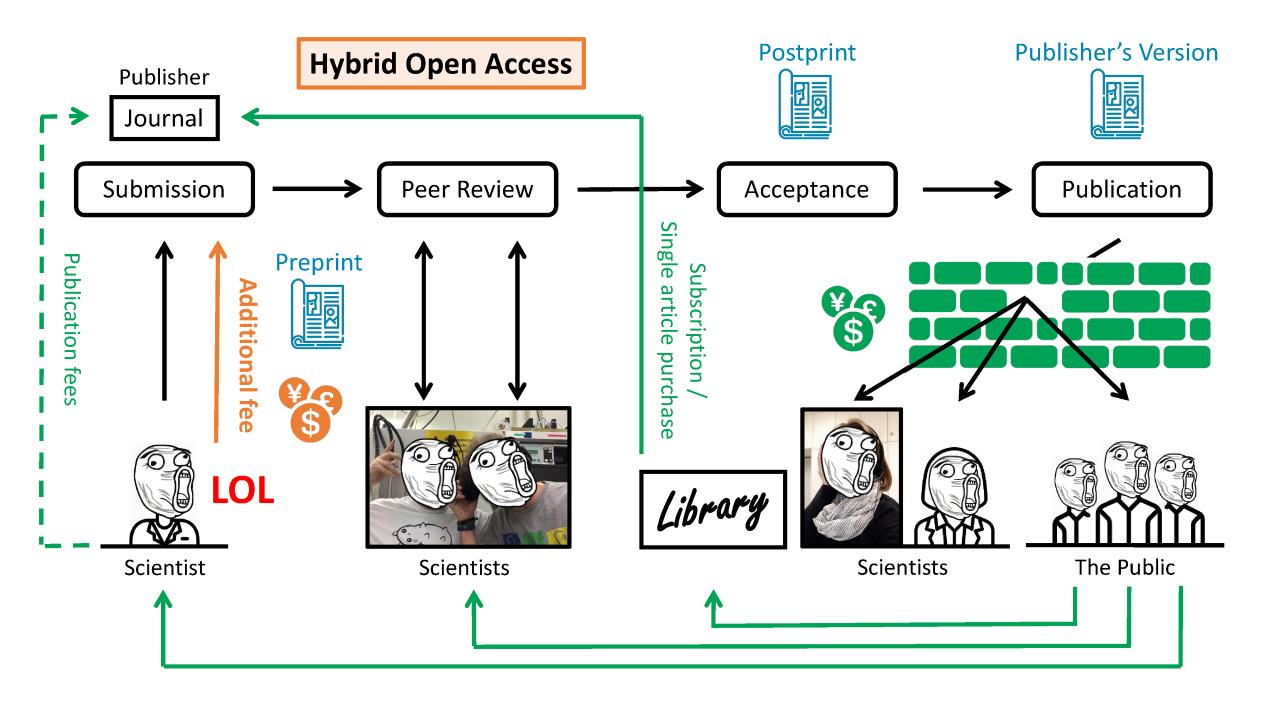




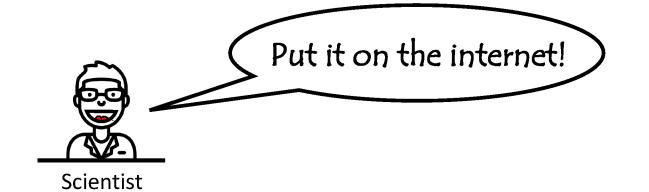












Secondary Publication

- arXiv
- Institutional repositories
- ResearchGate

Put it on the internet!

Scientist

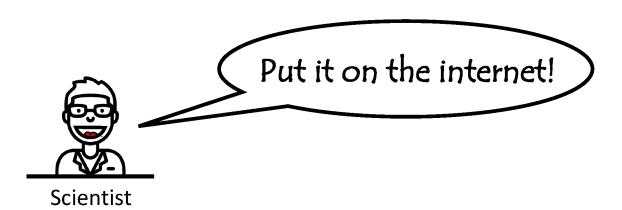
Secondary Publication

• arXiv Green Open Access

Institutional repositories

ResearchGate

•



Secondary Publication

Copyright transfer agreement

Copyright transfer agreement



Copyright transfer agreement



Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- •

Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- •

Place

- Personal website
- Funder's repository
- arXiv
- ...

Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- ...

Place

- Personal website
- Funder's repository
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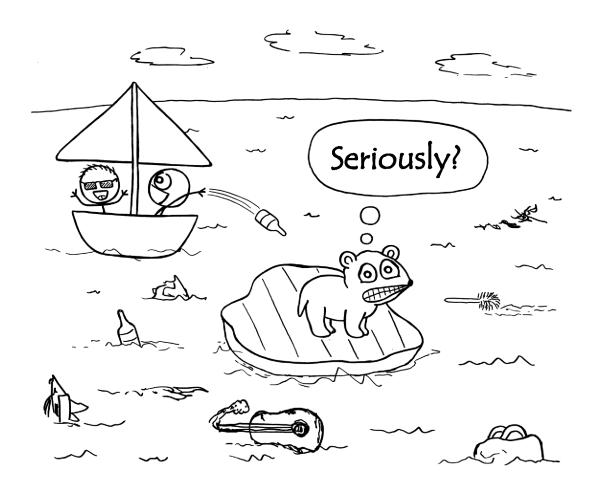
Time frame

Embargo period of

- 6 months
- 12 months
- 4 years after publication

... and many more

Green Open Access



Time frame

Embargo period of

- 6 months
- 12 months
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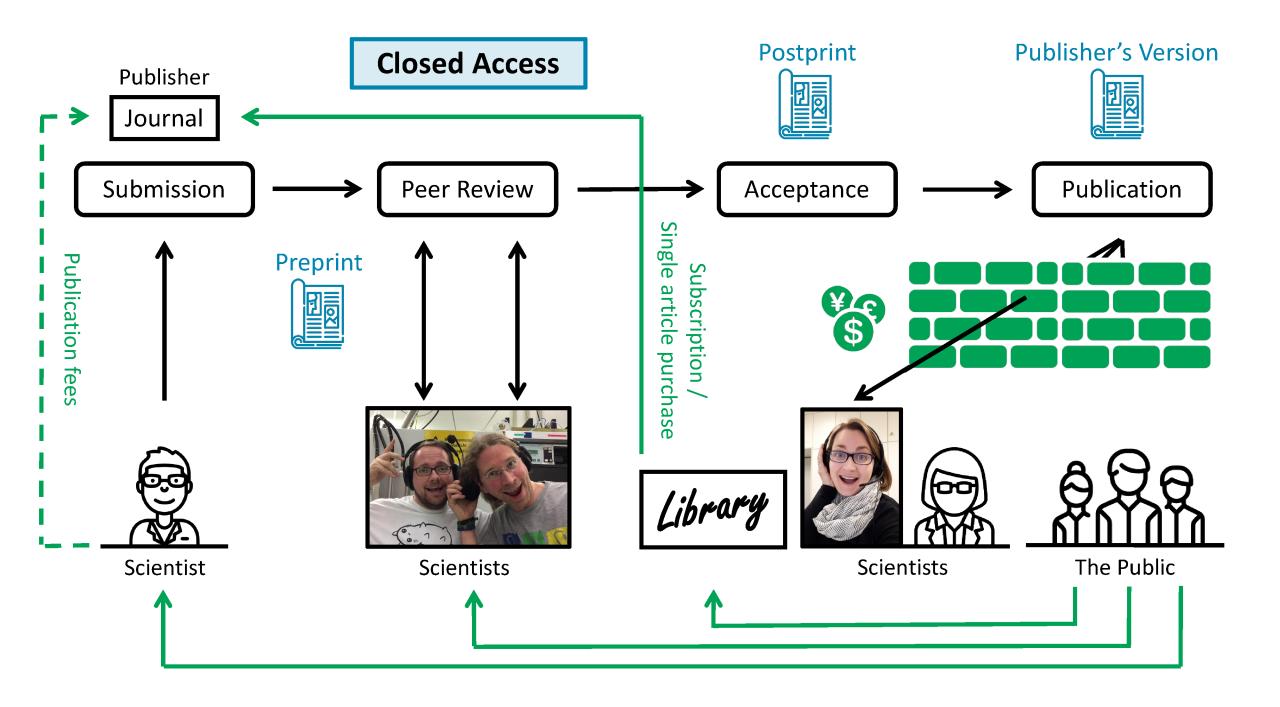


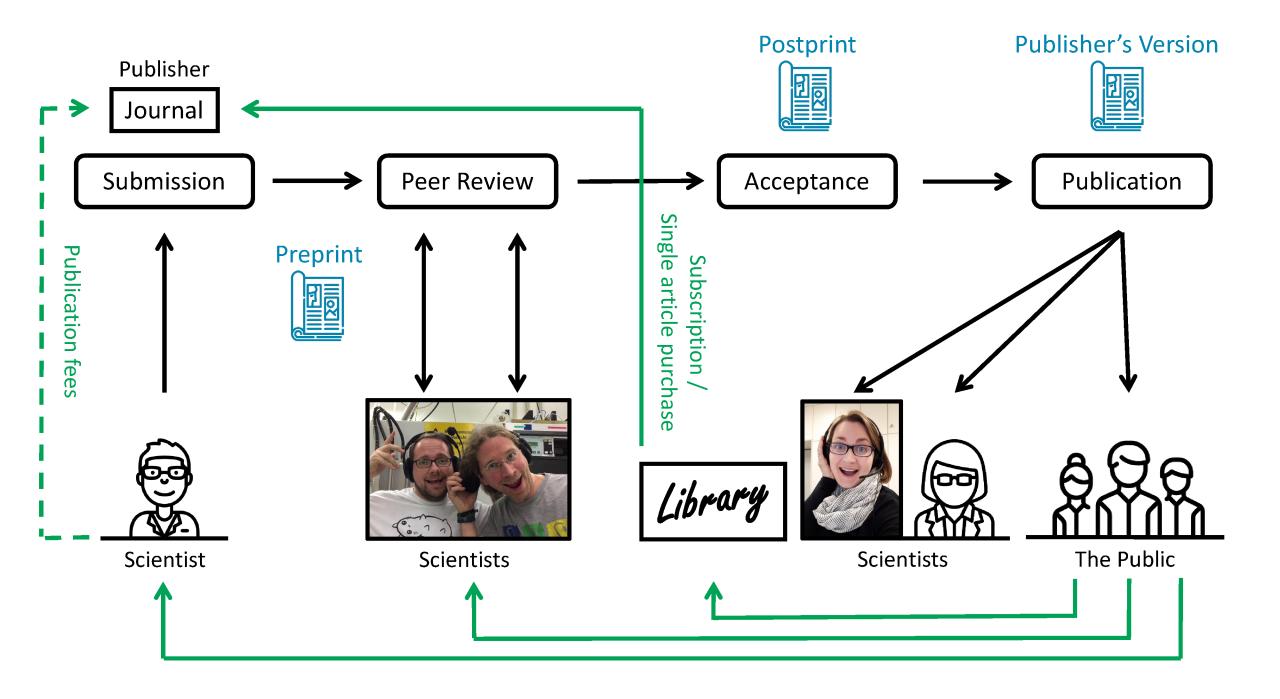
Ask your librarian

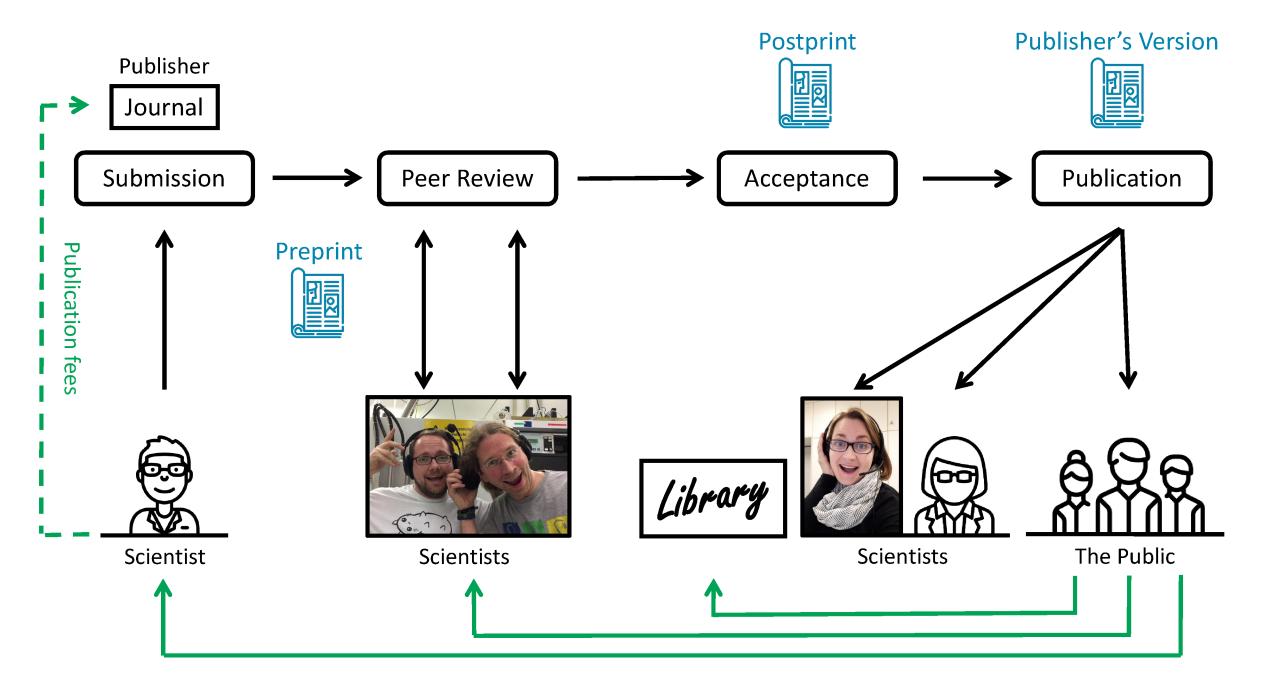
Gold Open Access

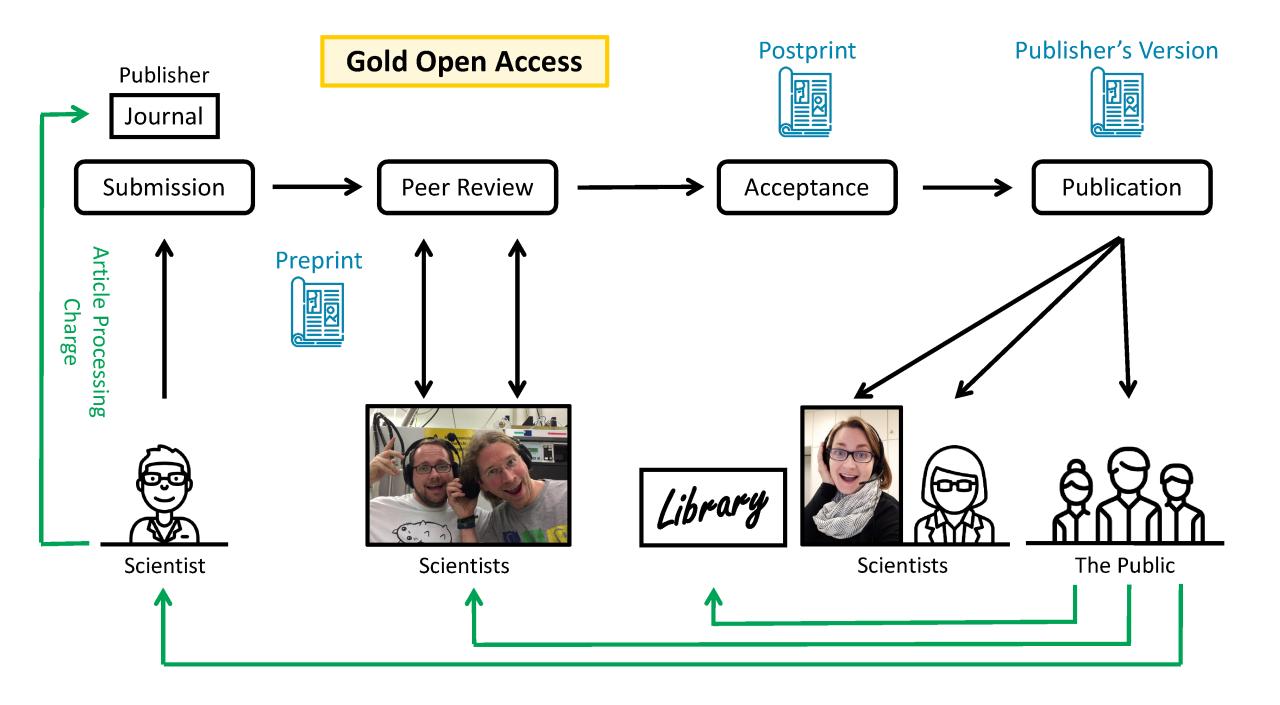
- Open Access Journal
- No paywall
- Creative Commons Licence @_____

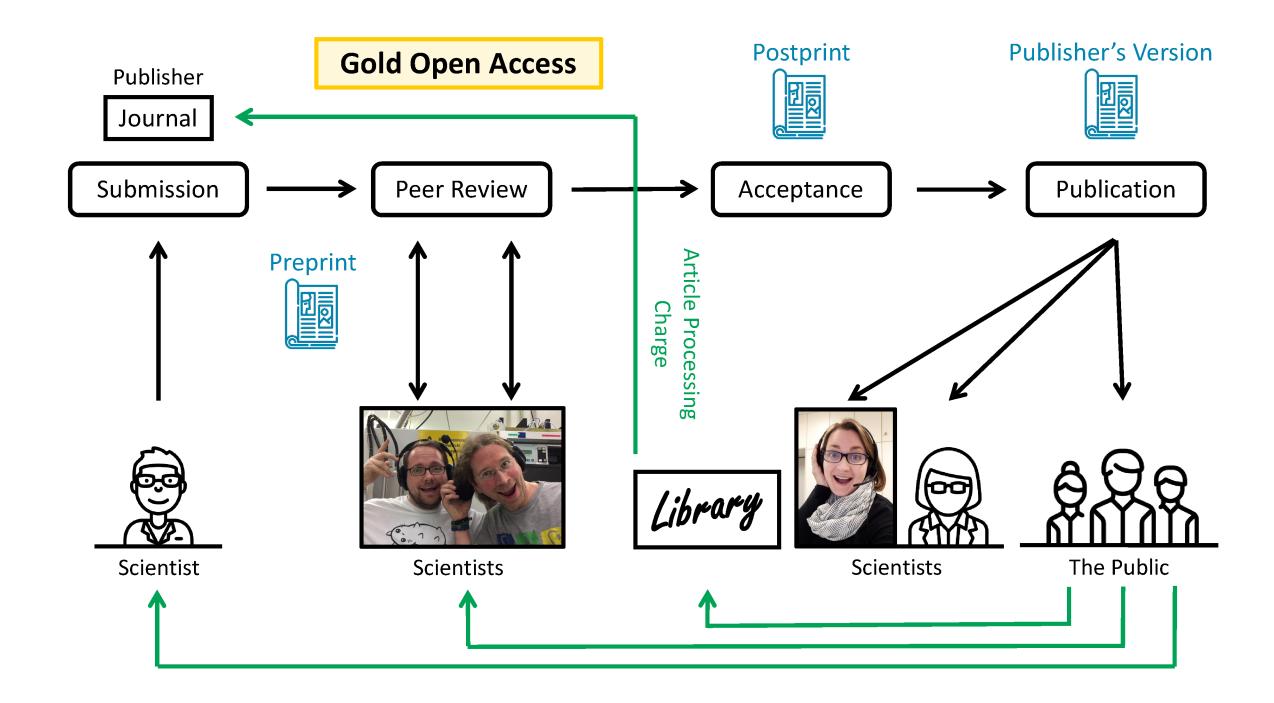


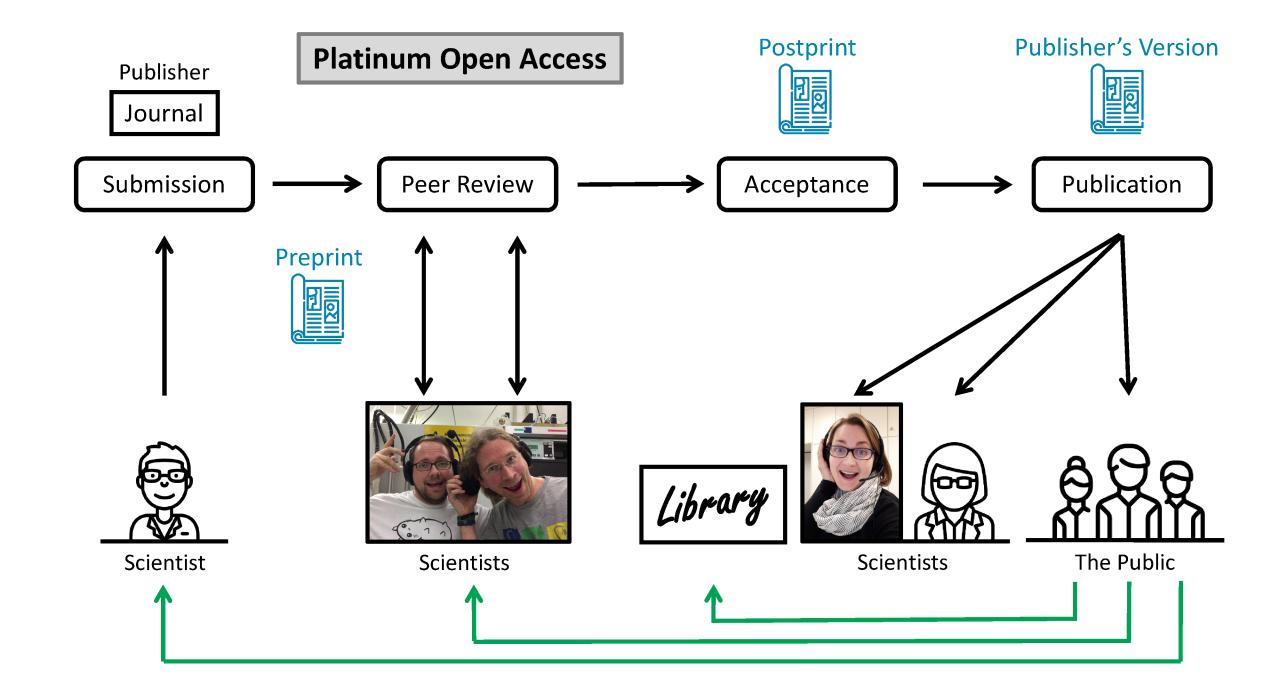


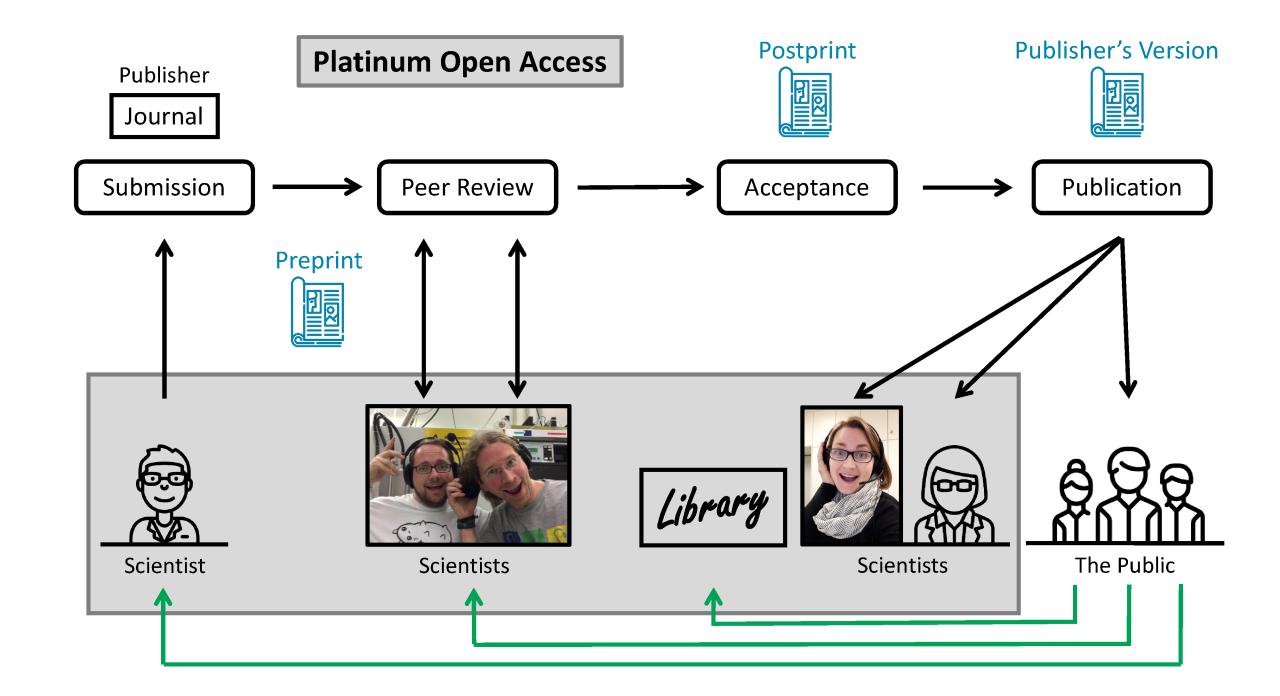












Approaches for scientists



Scientists

produce peer-review consume



Hybrid Open Access

Green Open Access

Gold Open Access

Platinum Open Access



Scientists

produce peer-review consume



Funders

provide money



Libraries

grant access



Platinum Open Access

Repositories

Plan S

Flipping

arXiv

SCOAP3

Project DEAL

Funding

Policies

Platinum Open Access

Repositories

Plan S

Flipping

arXiv

SCOAP3

Project DEAL

Funding

Policies

Project DEAL

- Commissioned by the Alliance of Science Organizations in Germany / Allianz der deutschen Wissenschaftsorganisationen
- Driven by scientists and librarians
- Implementation of nationwide consortium agreements with major academic publishers

 Participating institutions have access to the entire portfolio of journals from the publisher

- Participating institutions have access to the entire portfolio of journals from the publisher
- All publications with a corresponding author from the participating institutions will be published Open Access with the publisher

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- All publications with a corresponding author from the participating institutions will be published Open Access with the publisher

Up to 16,500 publications per year with Elsevier

State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL

State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL
Elsevier	

State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL
Elsevier	DEAL currently suspended the negotiations



Scientists



Libraries



Scientists

Library

Libraries

... stop their cost-free work for Elsevier.

authorship, peer review, editorship



Scientists

... stop their cost-free work for Elsevier.

authorship, peer review, editorship



Libraries

... cancel subscriptions to Elsevier journals.

200 German institutions are currently without Elsevier subscriptions.



Scientists

... stop their cost-free work for Elsevier. authorship, peer review, editorship

... use alternative ways to get access.



Libraries

... cancel subscriptions to Elsevier journals.

200 German institutions are currently without Elsevier subscriptions.

... support alternative ways to get access.

Repositories

Scholarly sharing

Inter-library-loan

Document delivery

#icanhazpdf

Unpaywall



Scientists

... stop their cost-free work for Elsevier.

authorship, peer review, editorship

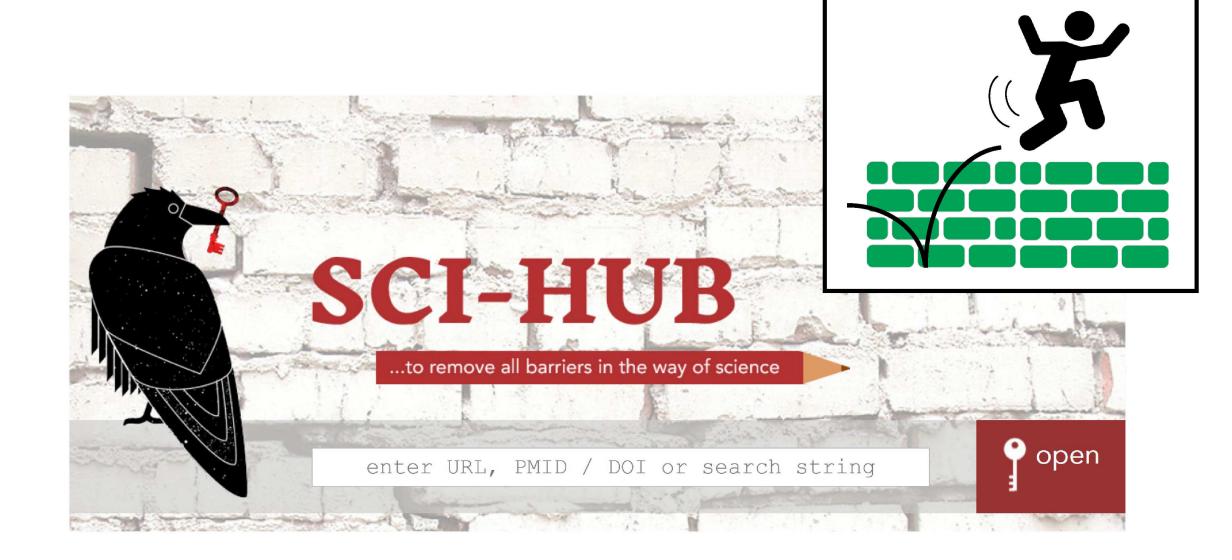
... use alternative ways to get access.



... cancel subscriptions to Elsevier journals.

200 German institutions are currently without Elsevier subscriptions.

... support alternative ways to get access.



Publishers and Sci-Hub

Filed a lawsuit



Publishers and Sci-Hub

Filed a lawsuit



Requested blocking (





SCI-HUB

Swedish ISP blocks Elsevier after blocking request for Sci-Hub

The Swedish Internet provider Bahrshof is forced by the academic publisher Elsevier to block access for users to file-sharing platforms such as Sci-Hub. In the absence of a legal alternative, Bahrshof is following the request, but is defending itself in its own very special way.

5. November 2018, 10:28 Uhr, Sebastian Grüner

Dear scientists ...

Dear scientists ...



Talk to your librarian

Unlocked Locked up science



Tearing down paywalls in scholarly communication

Claudia Frick - @FuzzyLeapfrog

#35c3



Acknowledgements

I thank all my colleagues and friends for their feedback and input for the talk, particularly this one special colleague for reviewing my English slides and my pronunciation. I also thank @islieb for the comic strip especially made for this talk.



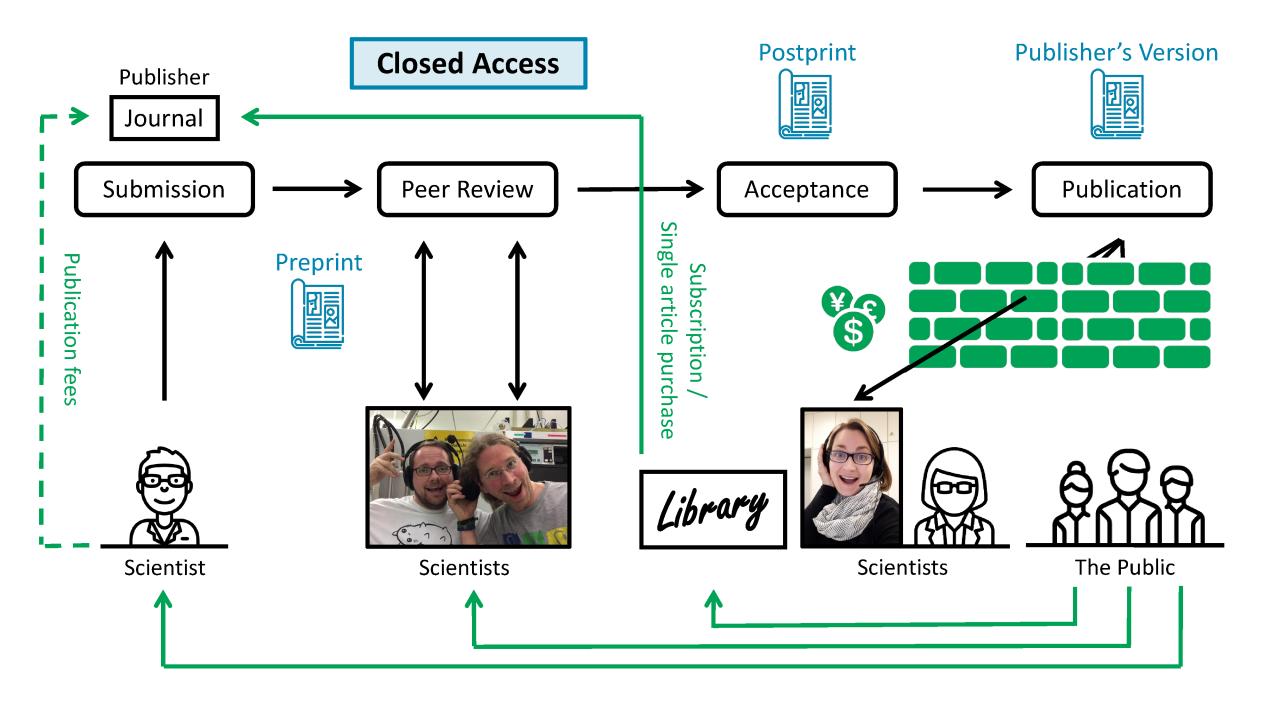


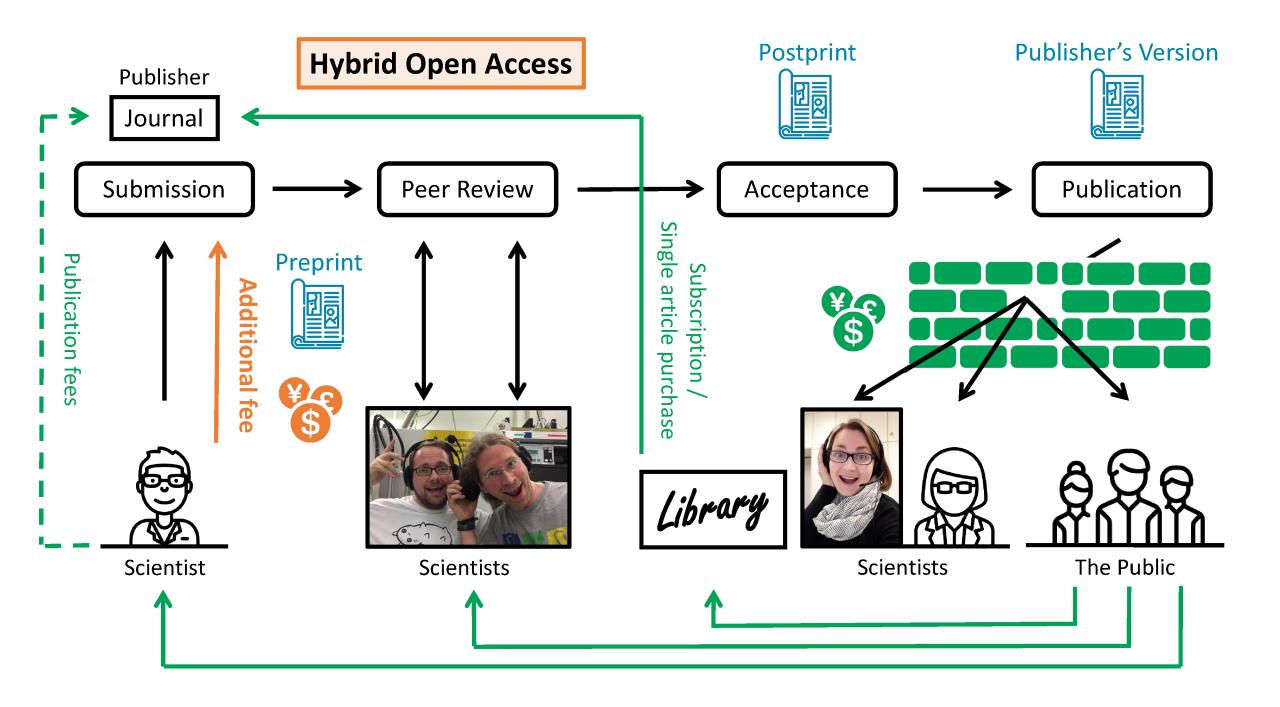
Sorry @MInkorrekt

... but this picture was just too damn good.



Roads to Open Access





Conditions

Green Open Access

Version

- Preprint
- Postprint
- Publisher`s Version
- ...

Place

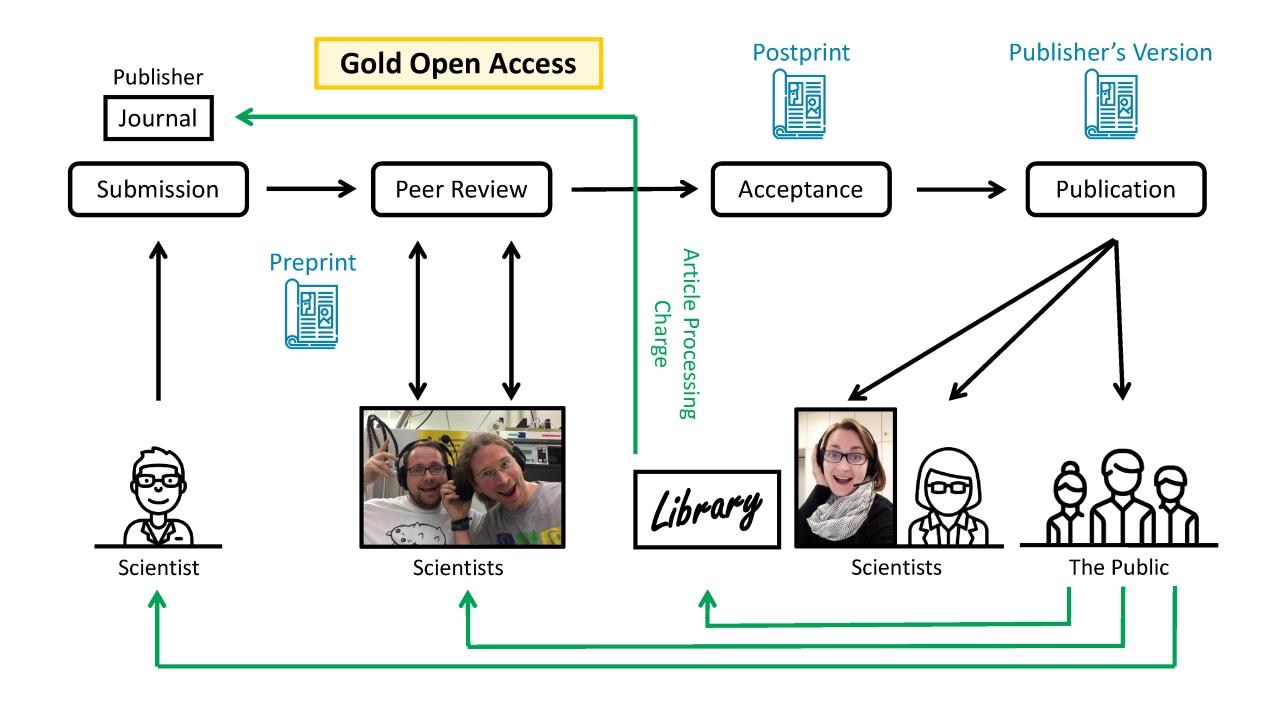
- Personal website
- Funder`s repository
- arXiv
- ...

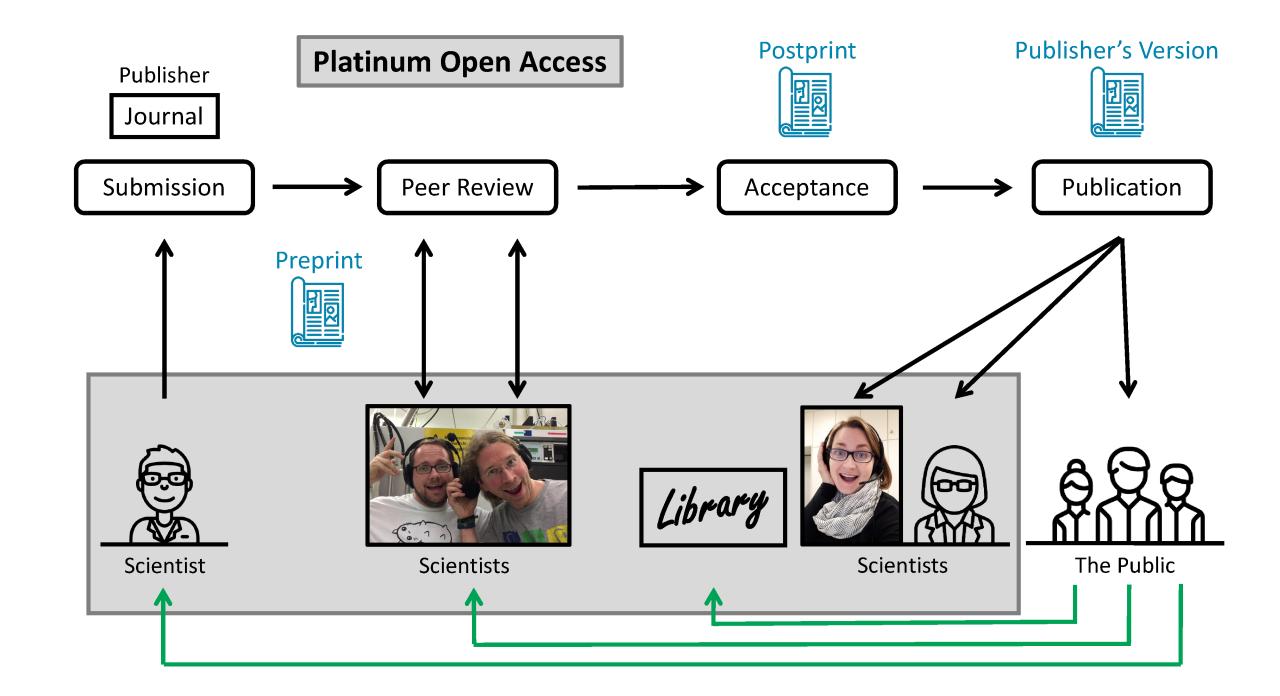
Time frame

Embargo period of

- 6 months
- 12 months
- 4 yearsafter publication

... and many more





Further information

Subscription fee per publication

Global journal subscription spending	EUR 7.6 billion per year	
Total estimated articles output	2.0 million papers	
Calculated expenses per article (rounded)	EUR 3,800	

Elsevier

2017 financial performance				
	2017	2016		
	£m	£m		
Revenue	2,478	2,320		
Adjusted operating profit	913	853		
Profit margin	36.84%	36.76%		

Subscription sales generated 72% of revenue

A librarian's life without Elsevier



UCLA Memorandum

To: All Faculty

Dear Colleagues:

As you may know, the UC Libraries are negotiating a new contract with the scholarly journal publishing giant Elsevier. We are deeply concerned with these negotiations because of the amount of money involved and the control Elsevier exerts over the intellectual efforts of UC's faculty, researchers, and staff.

UC is collectively paying Elsevier more than \$11.5 million for its journals, products, and services. In addition, countless UC faculty members, researchers, and staff members write and review articles published in those journals and serve on their editorial boards. The company's profit margin is 40%, much of it earned from your intellectual capital and unpaid work. This current situation is unsustainable for the UC system.

While these negotiations are going on, we urge you to consider:

- · Declining to review articles for Elsevier journals until negotiations are clearly moving in a productive direction.
- Looking at other journal publishing options, including prestigious open access journals in your discipline.
- Contacting the publisher, if you're on the editorial board of an Elsevier journal, and letting them know that you share the negotiators' concerns.
- Using UC's open access policies to make your final pre-publication manuscript publicly accessible.

We will update you if there is any substantive news to report from the negotiations. Elsevier has begun contacting journal editors at some campuses, and its message doesn't fully represent all sides of the issue or what is being discussed in the negotiations. If you receive the Elsevier message and would like to discuss it, please contact Joseph Bristow (jbristow@senate.ucla.edu or 310-825-4173) or Ginny Steel (vsteel@library.ucla.edu or 310-825-1201).

The UC Libraries are working on <u>alternative access methods</u> should they become necessary; while we very much hope that will not be the case, we will nevertheless notify you immediately if negotiations reach that point.

Thank you for your attention to this important issue.

Sincerely,

Scott L. Waugh

Executive Vice Chancellor and Provost

Joseph E. Bristow

Chair, Academic Senate Distinguished Professor, English

Ginny Stee

Norman and Armena Powell University Librarian

LUMCON canceled all subscriptions

LUMCON = The Louisiana Universities Marine Consortium



"So a couple of weeks ago, LUMCON made a bold move. We canceled all of our paid journal subscriptions. Every. Single. One. Of. Them." - @DrCraigMc is showing us that the "L" in @LUMCONscience also stands for "Leader"