

## Being open as an early career researcher

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2014 SPARC Open Access Meeting



Instituto Nacional  
de Salud Pública



## Not all scientists have access



Photo: Delmoral815, via Wikimedia

The National Institute of Public Health is one of the largest federal research institutes in Mexico.

~300 researchers, ~700 grad students

### Our access:

- **139** journals in total accessible via institute
- 88 journals in total with electronic access
- 66 journals with electronic access via paid subscriptions
- 22 journals with free electronic access provided by publisher
- 51 print-only journals (e.g. Cell, Lancet, Nature, Science)
- access to select journals through consortium (CONRICyT)

# The high costs of access

Researchers in our center study Chagas' disease, cholera, dengue, HIV, influenza, malaria, tuberculosis...

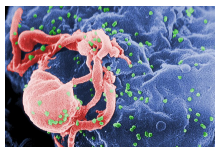
We are trying to save lives!

We do **NOT** have access to:

- Annual Reviews of Medicine
- Current Biology
- Nature Medicine
- Nature Immunology
- PNAS
- ...and MANY more

What is the limiting factor? **COST.**

Photos: Erwin Huebner (top); James Gathany (middle); C. Goldsmith (bottom)



# What can I do?

My pledges to be open:

- I will not edit, review, or work for closed access journals.
- I will blog my work and post preprints, whenever possible.
- I will publish only in open access journals.
- I will not publish in Cell, Nature, or Science under any conditions.
- I will pull my name off a paper if coauthors refuse to be open.



**If I am going to 'make it' in science, it has to be on terms I can live with.**



# Concerns of early-career researchers

theguardian

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## Higher Education Network

Ideas, insight and debate from the global higher education community

Series: Early career researchers

Boycotting academic publishers is a career risk for young scientists

If I publish in OA journals:

- I will be hiding my work away in less visible (low prestige) journals.
- I must relegate my work to low impact (low IF) journals.
- Peer review will be of low quality.
- I will not get a job/grant/tenure.



AT THE HEART OF THE  
HIGHER EDUCATION DEBATE

HOME NEWS COMMENT FEATURES BOOKS RANKINGS AWA

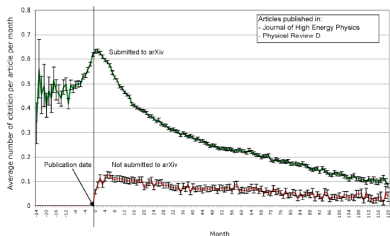
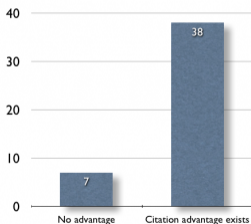
Breaking news Politics and Policy Research World news Interviews Stude

HOME NEWS

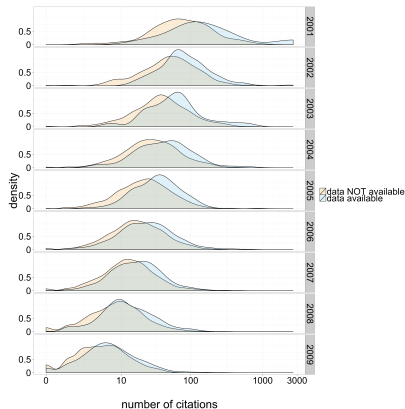
High price of gold: How early career researchers will suffer

# Studies show 25-250% OA citation advantage

■ Results from studies on open access citation advantage



## Open data gets love too!



Piowar & Vision (2013), PeerJ 1:e175

Top: Wagner (2010), Issues in Science and Technology

Bottom: Gentil-Beccot, Mele, Brooks (2009), arXiv:0906.5418

## So you care about Impact Factor?



IF 17.21



IF 15.25



IF 3.73



IF 12.69



IF 6.68



IF 6.53





IF 3.62

**frontiers**

IF 2.5 – 5.2

# The myth of poor peer review

- Retraction rate is highest in high IF subscription journals
- No controlled study comparing peer review in subscription vs. OA journals
- Bohannon 'sting' did not look at peer review in subscription journals
- Bohannon 'sting' found reputable OA publishers rejected spoof paper
- Peer review is often transparent in OA journals

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Introduction  
Methods  
Results  
Discussion  
Conclusions  
Supplemental Information  
Additional Information and Declarations  
**Peer Review history**  
Questions

## Effects of manipulating slowpoke calcium-dependent potassium channel expression on rhythmic locomotor activity in *Drosophila* larvae

Erin C. McKiernan 

PubMed ID: 23638395

**You can read the full peer review history – every criticism, every change.**

## Hiring, tenure and promotion evaluations...is tide changing?



Faculty and universities have signed DORA, pledging:

- **not** to consider JIF in hiring, promotion, or funding decisions
- content of a paper will be weighed more heavily in evaluations than the journal in which it was published
- to consider the value and impact of all research outputs



*VCU Promotion and tenure committees should recognize that publication and editorial effort in open access, peer-reviewed journals...offers added value and greater public good than scholarship made only available in expensive journal publications.*


# Still want to publish in non-OA journals? GO GREEN!




arXiv.org


bioRxiv  
beta

- institutional repositories
- personal website



**Erin McKiernan**  
(Neuroscience)



 **figshare** advisor

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**Research statistics**











1586  
Views

18  
shares

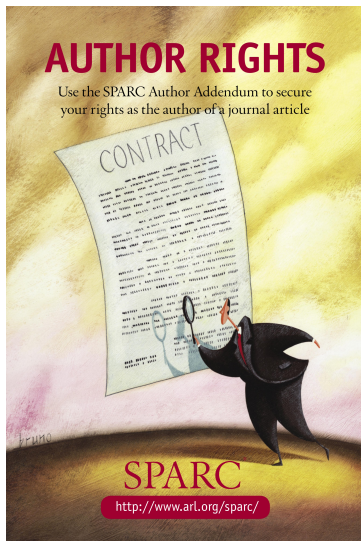
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**Active categories**

**Most popular uploads** 5 uploads in total

<p>Relating ion channel expression, bifurcation structure, and diverse firing patterns in a model of an iden...</p>	Paper	<p> 405 views  3 shares</p>
<p>Open access options for publishing neuroscience research</p>	Fileset	<p> 389 views  1 shares</p>
<p>Mitigating effects of vaccination given constraints in supply and daily administration capacity</p>	Fileset	<p> 337 views  9 shares</p>
<p>A Brunswikian evolutionary developmental theory of preparedness and plasticity</p>	Paper	<p> 247 views  2 shares</p>
<p>Role of slowpoke calcium-dependent potassium channels in shaping rhythmic locomotor activity in Drosophil...</p>	Fileset	<p> 208 views  3 shares</p>

# Don't sign away your rights!



**AUTHOR RIGHTS**

Use the SPARC Author Addendum to secure your rights as the author of a journal article

**CONTRACT**

**SPARC**

<http://www.arl.org/sparc/>

The poster features a cartoon illustration of a man in a black suit and red tie, holding a large, glowing document titled 'CONTRACT'. The document contains several paragraphs of illegible text. The background is a warm, yellowish-gold gradient.

## Author retains:

- right to reproduce and distribute article for non-commercial uses
- right to prepare derivative works from article
- right to authorize others to make non-commercial uses
- right to post article on web site and digital repositories

It allows you to GO GREEN!

## My advice to ECRs

- Make a list of OA journals in your field - know your options

The screenshot shows a webpage titled "Open access options for publishing neuroscience research" with an "Edit article" button. It features a table of three files: OANeuroscienceJournals.ods, OANeuroscienceJournals.xls, and OANeuroscienceJournals.pdf, each with "preview" and "download" links. To the right, there are altmetric-style statistics: 389 views, 1 share, and a "cites coming soon" badge. Below these are the publication details: "Published on 26 Oct 2012 - 18:49 (GMT)" and "Filesize in total is 72.62 KB". A "Download all" button is located at the bottom of the table.

File Name	Preview	Download
OANeuroscienceJournals.ods	preview	download
OANeuroscienceJournals.xls	preview	download
OANeuroscienceJournals.pdf	preview	download

389 views

1 shares

cites coming soon

Published on 26 Oct 2012 - 18:49 (GMT)  
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Download all

- Discuss open access upfront with collaborators
- Discuss preprints and self-archiving upfront with collaborators
- Document your altmetrics (Impact Story)
- Blog about your science - write so those outside your field can understand
- Be active on social media to increase visibility



## How to support ECRs in being open

- Lead by example - be open and others will see benefits
- Be receptive - answer emails, tweets, questions from ECRs about OA
- Say yes... to giving tutorials, guest lectures, talks at meetings
- Do not consider where people publish in making hiring, grant, or tenure decisions (sign DORA)
- Write open access publishing funds into your grants
- Create institution-level incentives for being open



Photo: listentomyvoice via flickr

# In sum...Don't lock up your research!



These are some of the people you will be helping...Thank you!

UPR Cayey



INSP México

