Early Career Researcher‘s view on Open Science

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What do Early Career Researchers Want?

- Do great research.
- A good environment to do science/research.
- Possibilities of realistic career progression.
- Research funding to realize research goals.

Adapted from: Lynn Kamerlin
Open practices accelerate discoveries
Open practices support inclusivity

Geographical skew of knowledge

Cartoonsmix.com

Wikimedia Commons
Open Science is a trait for Good Science

Open Access

Open Source

Open Educational Resources

Open Data

Citizen Science

Equity, Diversity, Inclusion

Open Innovation

Icons: Noun Project, OER logo adapted from Wikimedia Commons CC-BY Jonathas Mello
Open all stages of Research Cycle

Change the typical lifecycle

Publish earlier and release more

Papers + Data + Methods + Code…

Support reproducibility

Side adapted from: Sarah Jones, http://slideshare.net/sjDCC
Epistemic Caveat

Doing 21st century science

Documenting with 20th century tools

Communicating the 17th century way

Evaluating in a primitive fashion
Know your rights as an author

Know your Author Rights

What you should know when publishing your intellectual property

NEGOTIATE
You have the right to change your publication agreement.

NATIONAL GRANTS
If you have conducted your research using a national grant, you may be REQUIRED to make it publicly accessible.

LOCAL REPOSITORIES
FAIR USE allows you to place your work in a library repository under certain restrictions.

ADDENDUM
The easiest way to alter an agreement is by attaching a standardized addendum like the one from SPARC.

CHOOSE WISELY
You can choose to publish in a journal that supports OPEN ACCESS or SELF ARCHIVING.

For More Information:

SHERPA/ROME
www.sherpa.ac.uk/romeo

PLOS
www.plos.org/about/open-access

SPARC
www.arl.org/sparc

SPARC
http://www.arl.org/sparc/

http://openaccess.commons.gc.cuny.edu/2014/03/07/you-know-what-you-write-but-do-you-know-your-rights/

http://www.sparc.arl.org/resources/authors/addendum
Peer review and Preprints

iBiology, 13 February 2016
Advantages of Preprints
Stars are aligning for Preprints

arXiv
bioRxiv
AgriXiv
PaleorXiv
PsyArXiv
SocArxiv
energXiv
LawArxiv

PeerJ Preprints
SciELO
MedArXiv
ChemRxiv™
Authorea
Change in the culture of Peer-review

https://prereview.org/
JIF are religious!

Illustration by John R. McKiernan, CC-BY whyopenresearch.org/gallery
A variety of descriptive metrics

Article level metrics

Researcher level metrics

H-index
Google Scholar i10-index
Is Research evaluation objective?

http://www.ascb.org/dora/

For Research Institutions
- When hiring and promoting, state that scientific content of a paper, not the JIF of the journal where it was published, is what matters
- Consider value from all outputs and outcomes generated by research

For Researchers
- Focus on content
- Cite primary literature
- Use a range of metrics to show the impact of your work
- Change the culture!
Science without Open is an anecdote

COMMENT | OPEN ACCESS

When will ‘open science’ become simply ‘science’?

Mick Watson

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