## Preprints - the pathway to publishing innovation?

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Preprints have changed the game.

Why...

- 1. Embraced by the research community
- Not upsetting the status quo\*

\*(yet, but they might do...)

### We have lift off...

#### Preprints per Month

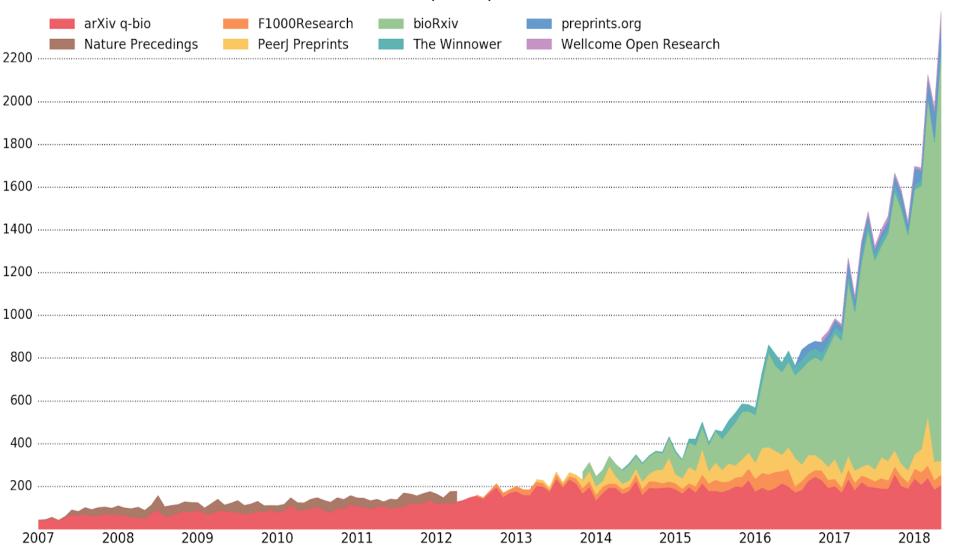


Chart by Jordan Anaya, prepubmed.org

### Explosion of preprint venues











































































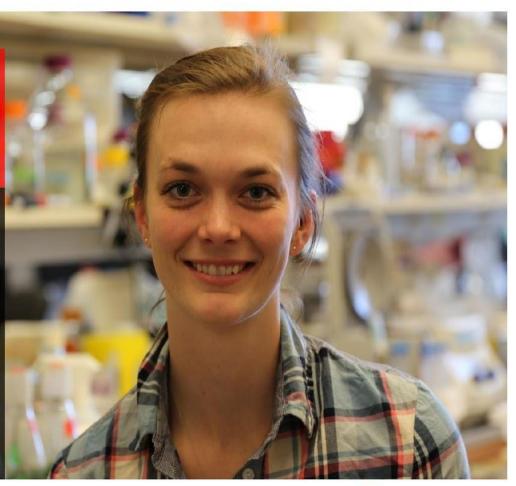
# Why are researchers embracing preprints?

### Putting your flag in the sand

# "Preprinting saved me from scooping myself."

"While I was working to resubmit a manuscript, collaborators of mine decided it was time to submit a second paper related to the work. We had no way to reference my manuscript which laid the foundations for the second paper. Being able to submit a preprint saved me because within 48 hours I could submit my primary manuscript to bioRxiv and get a DOI for the second paper to reference."

Steph Hays PhD student, Harvard Medical School

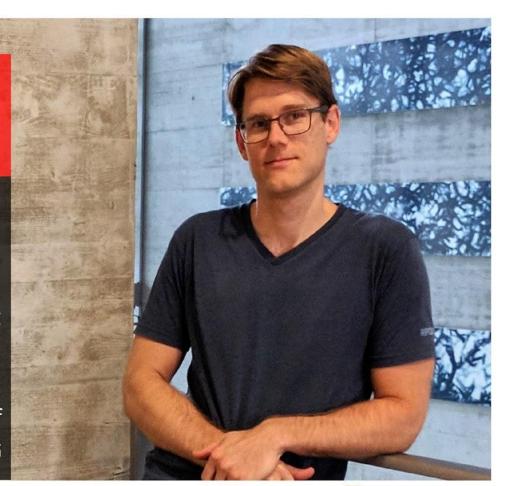


### Showcasing your research

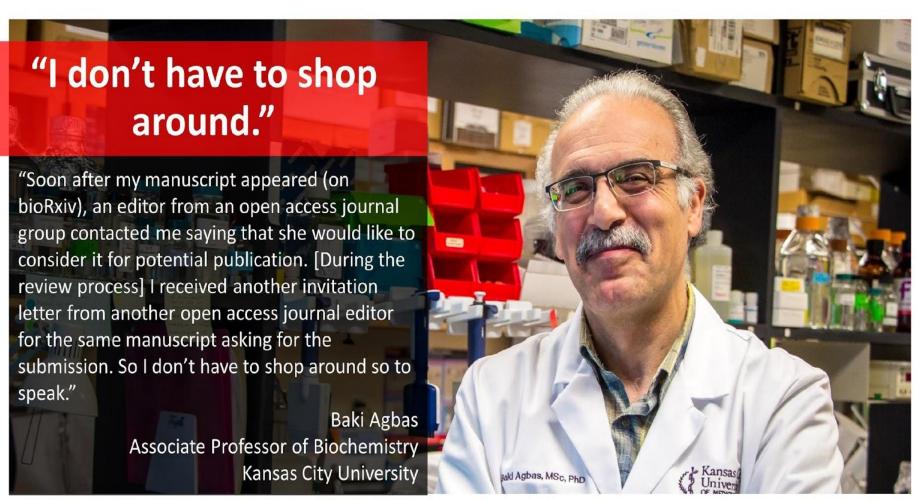
## "My preprint got me a faculty job."

"My preprint was the deciding factor when the UT Southwestern hiring committee was deciding whether to give me an interview or not. Once they saw my latest paper on bioRxiv, then they gave me the invitation. I'll be starting as an Assistant Professor in January."

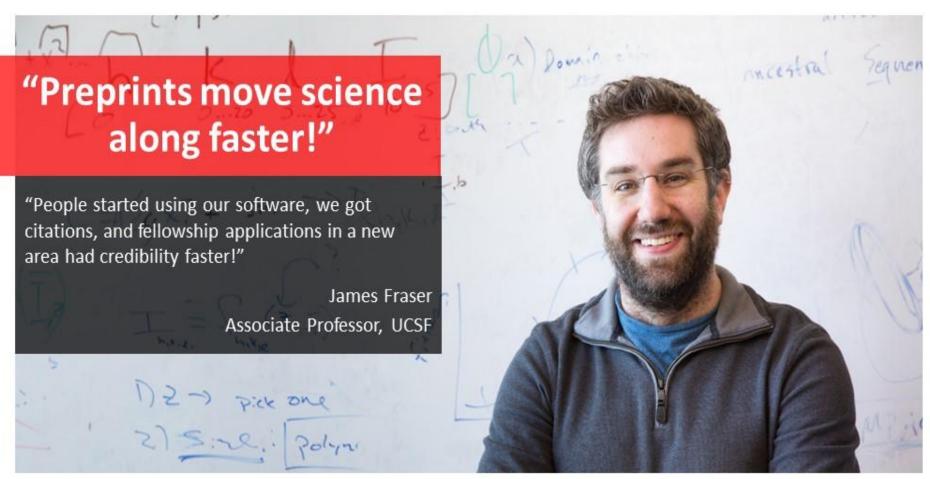
Jeffrey Woodruff Postdoc, MPI-CBG



### Journals now go window shopping!



### Sharing at the speed of science







Cool paper from Pennacchio lab. But 4.5 years (years! almost 5!) in revision! Yikes. nature.com/articles/s4158...

○ 87 8:03 PM - Jun 19, 2019





### Noncoding deletions reveal a gene that is cr...

An intestine-critical region on human chromosome 16, and its regulation of PERCC1, a newly identified gene, is shown to underlie the nature.com



Richard Sever @ @cshperspectives

Siri, why do people use bioRxiv?

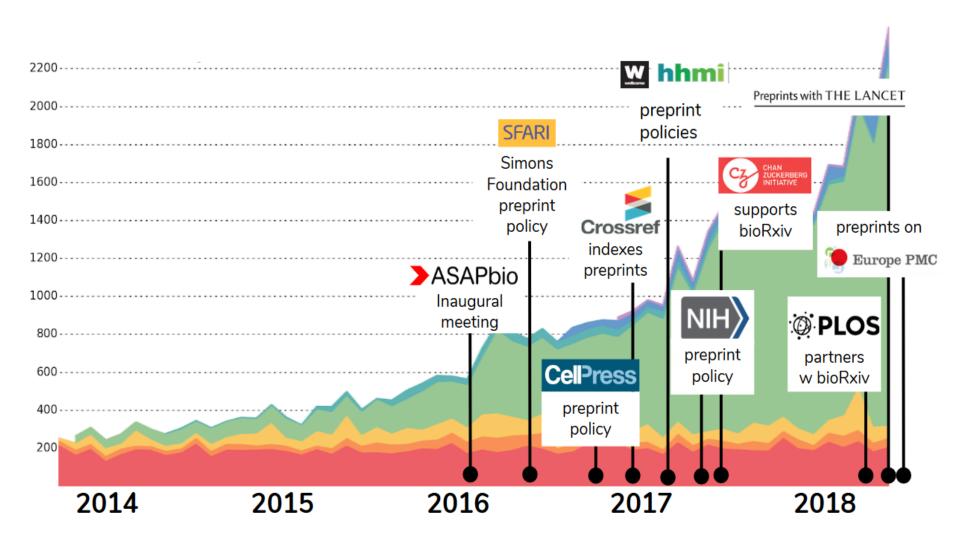


#### Benoit Bruneau @benoitbruneau · 10h

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# Preprints complement the current status quo.

### All the actors playing together



### Preprint and Journals - a symbiotic relationship

Direct transfer from preprint servers to journals (internally and externally)

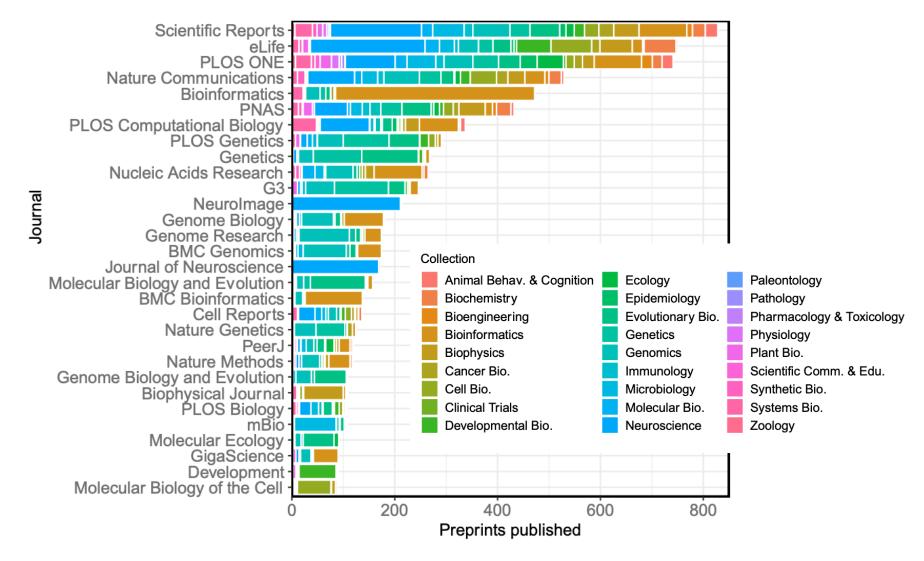
- BioRxiv B2J/J2B programs
- Publishers with their own preprint servers

Clear journal policies about preprints are important influencers of behaviour



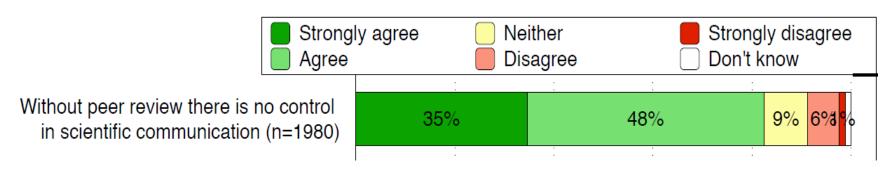


### 2/3s of preprints are published within 2 years

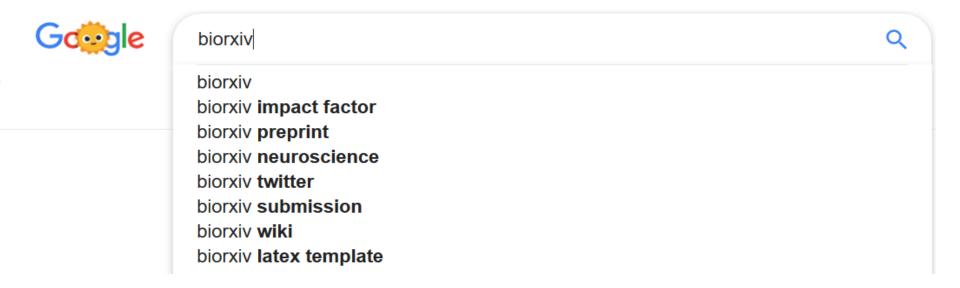


Abdill & Blekhman; eLife 2019;8:e45133 DOI: 10.7554/eLife.45133 (preprinted in December)

## But... preprints don't have peer review or recognised "prestige"



n=2004, P. 8, Mark Ware Consulting PRC survey, 2016



### Growth of community peer review systems

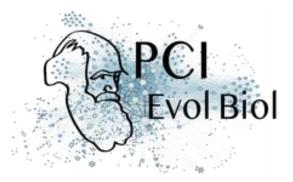




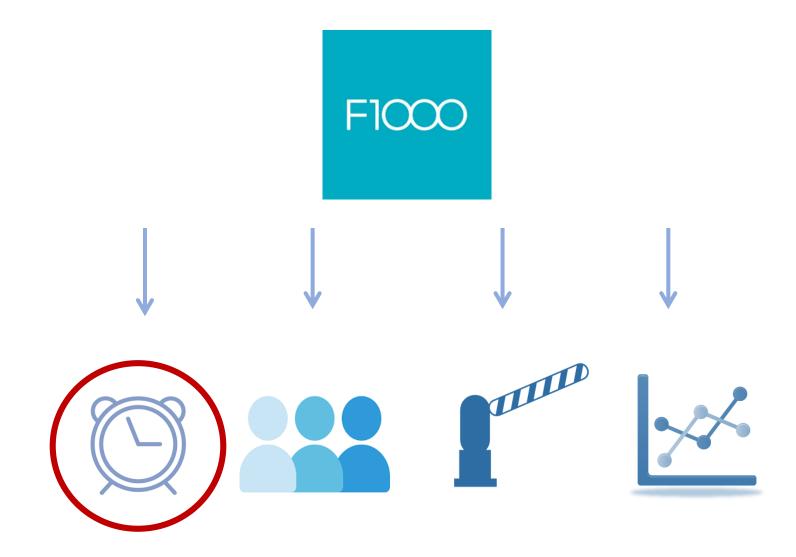




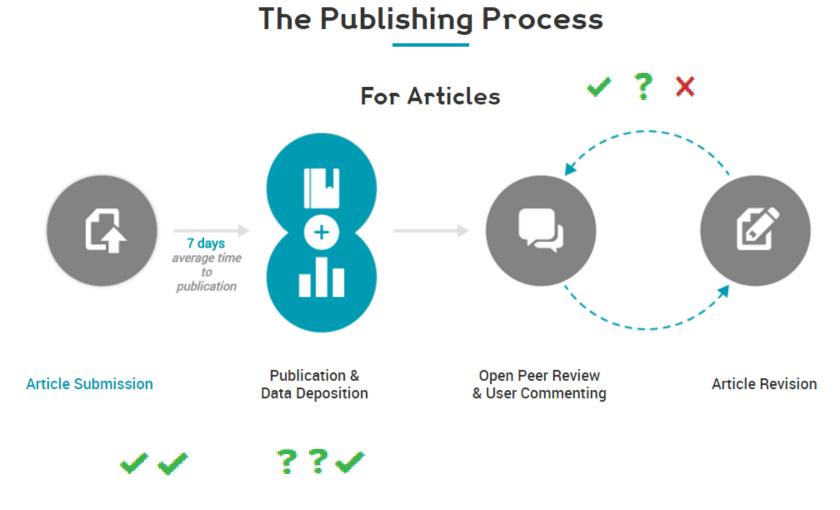




## Open research publishing



### How it works:

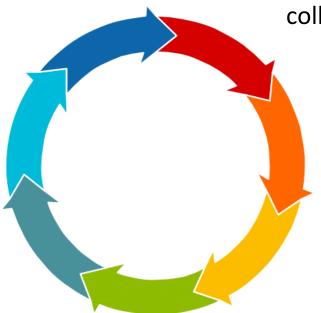


 Articles that pass peer review will be fully indexed in Europe PMC, PMC, PubMed, Scopus, Google Scholar and other bibliographical databases.

## Changing requirements of funders/institutions

Demand for rapid access

Drive to open & collaborative research



Demand to accelerate impact

Drive towards open data, software and materials

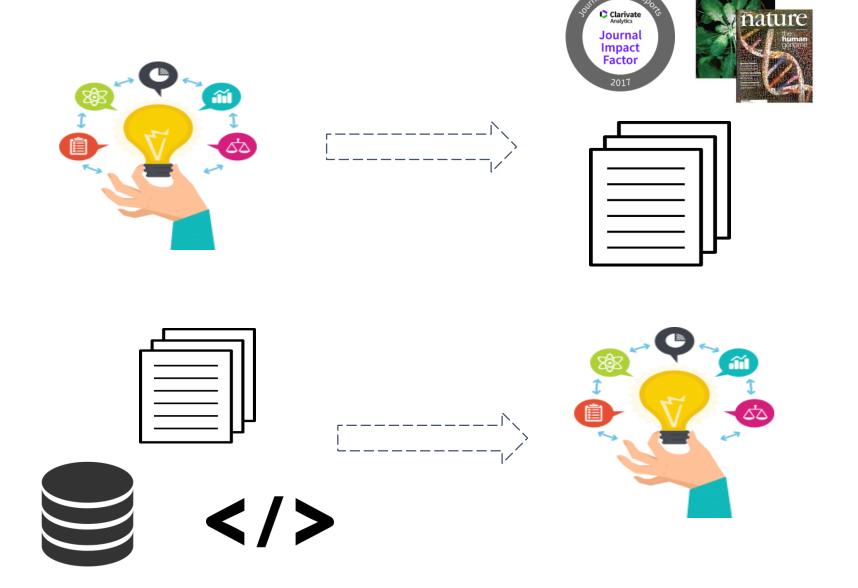
### Funder-based publishing platforms







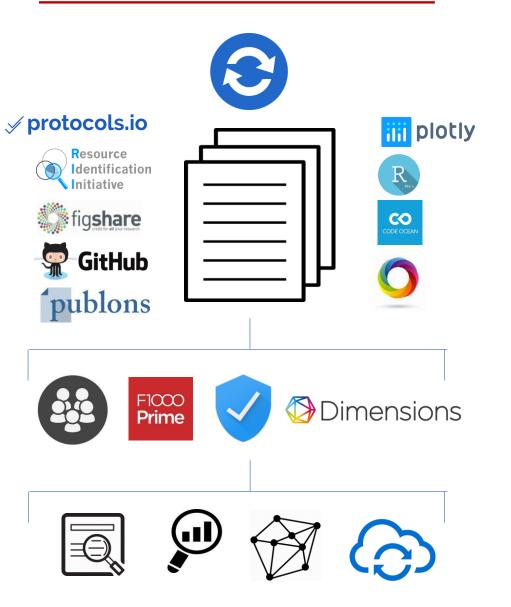
### Where will we be in 10 years...

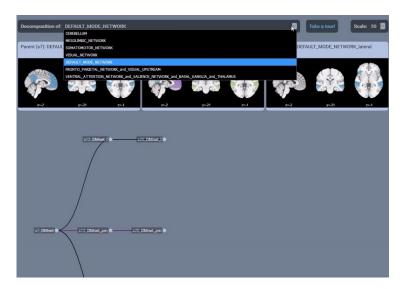


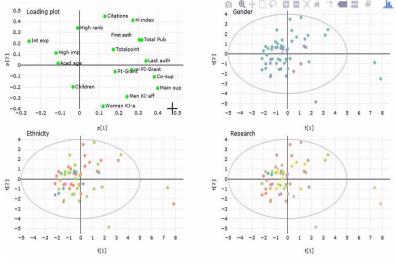
Science

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### The article of the future?







Thank you.

@mmmarksman