The bioRxiv preprint service and its integration with journals

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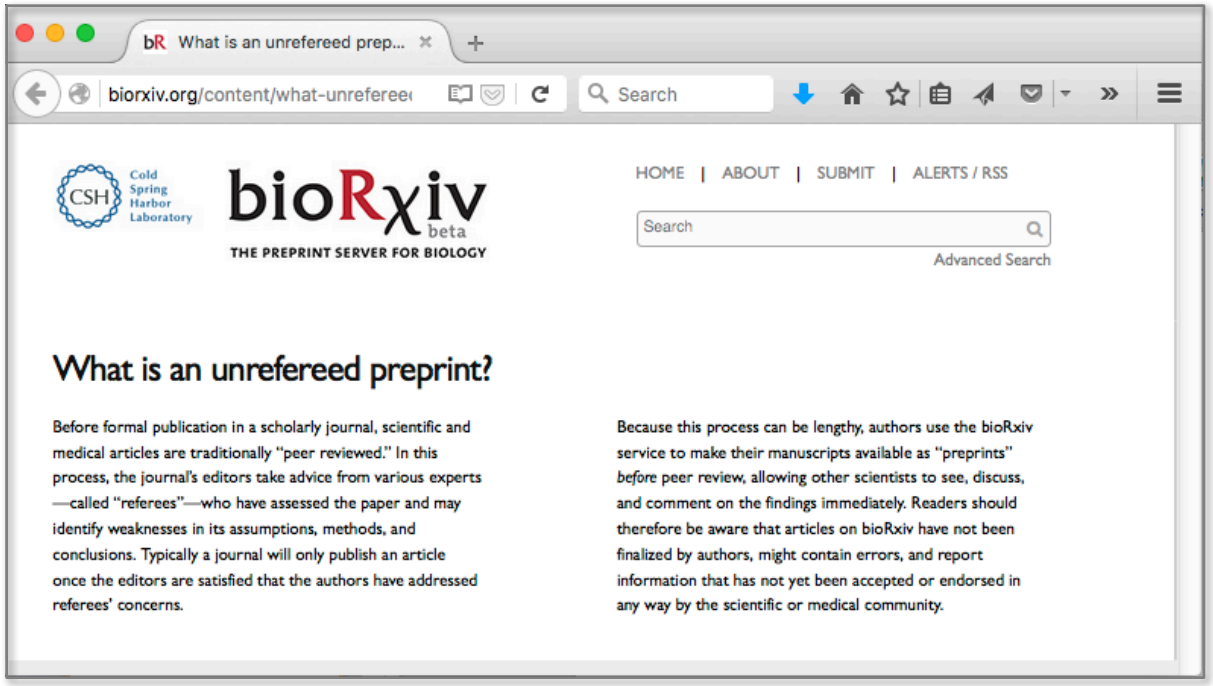
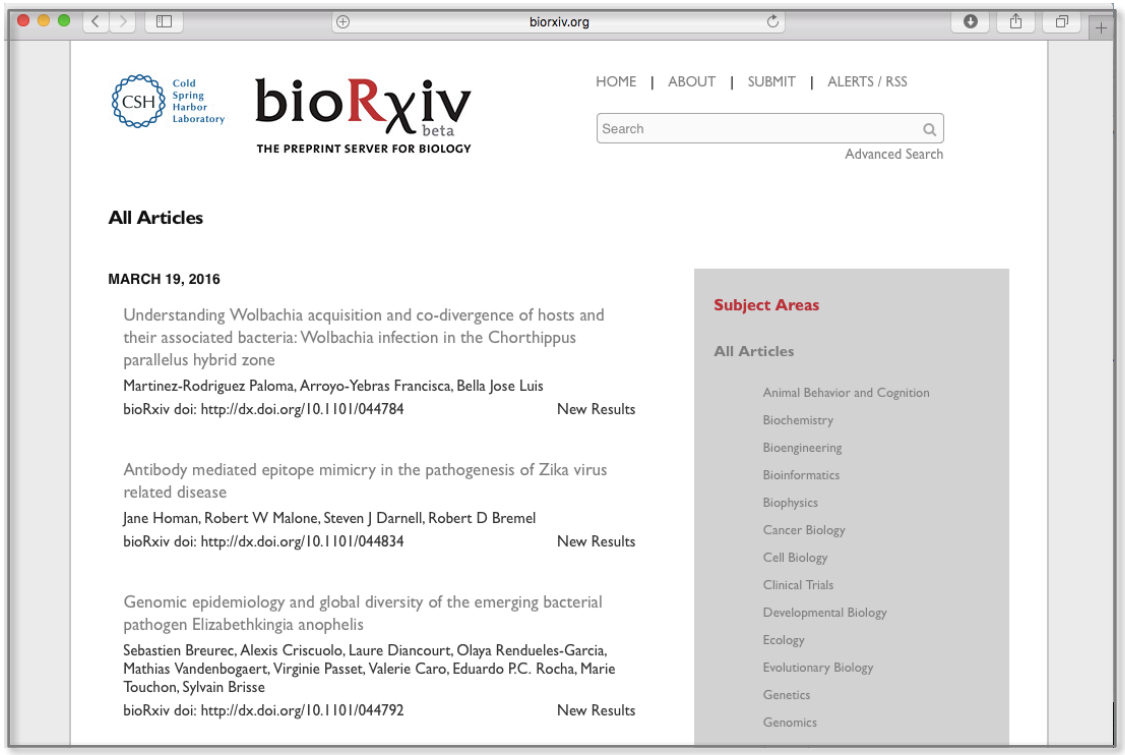
EMUG meeting, Boston, June 17, 2016

Preprint *(n)*: a complete but unpublished manuscript yet to be certified by peer review that's freely available online



bioRxiv preprint service for biology launched Nov 2013



- Authors' PDFs – no typesetting/mark-up
- Submission + access free
- Posting almost immediate, with screening but no peer review
- Revised versions can be posted any time

What scientists were saying in 2013

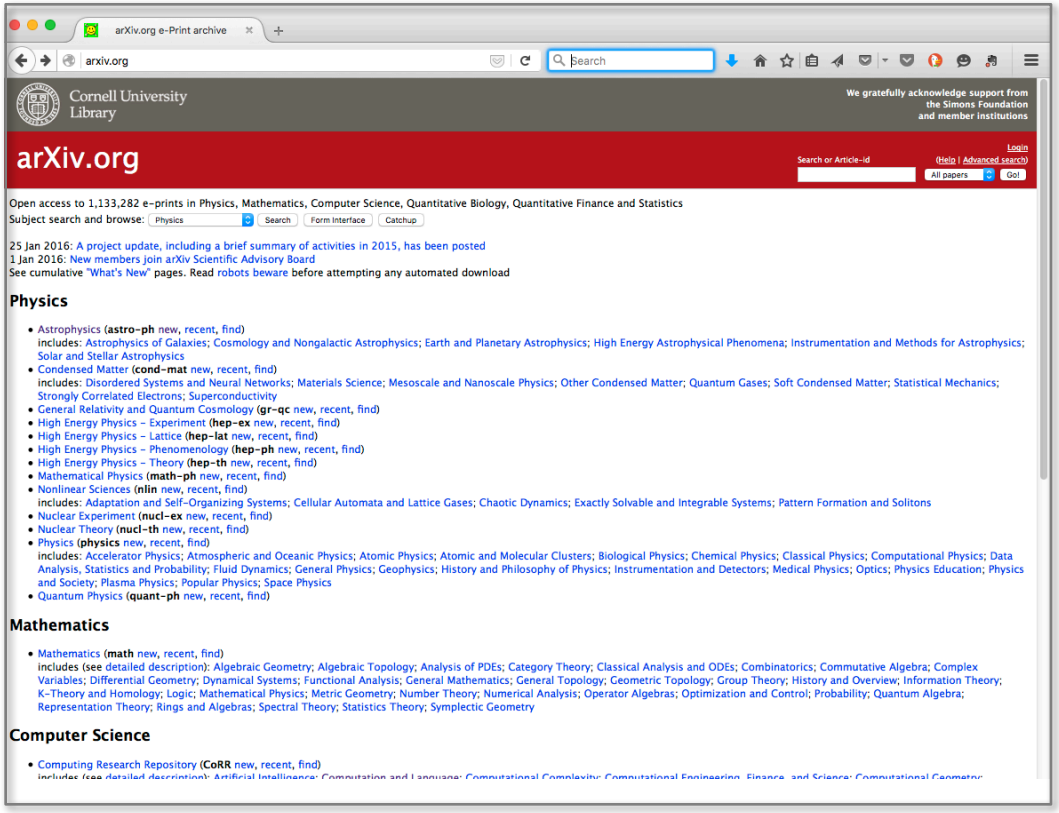
"It's ridiculous I have to wait months to read a paper while it goes through peer review…let me decide for myself whether it's any good"

"Think how much time is wasted!"

"I am writing a grant but the paper is not going to be published by the time I submit. The solution is a pre-print server that can be referenced"

"I'm posting my manuscript on arXiv"

arXiv: preprints in physics, maths, statistics, computer science, quantitative biology



- Established 1991
- Mechanism for sharing findings prior to publication & establishing priority
- Non-profit funded by Cornell, libraries & various foundations
- >1 million preprints

Companies hosting un-refereed content

PeerJ Preprints — For-profit start-up, conduit to PeerJ journal

F1000Research — For-profit, public peer-review journal

figshare — For-profit, host for figures, partial papers, etc.

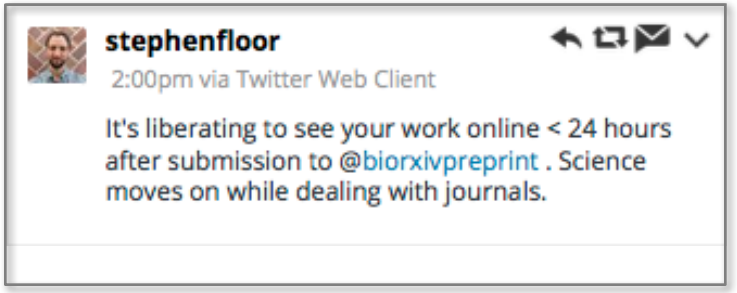
Not-for-profit, publisher-neutral servers

Funded by Cornell, libraries & various foundations

Funded by Cold Spring Harbor Laboratory & Lourie Foundation

Benefits

- Rapid transmission of results
- Pre-publication feedback/discussion
- Visibility, especially for early-career scientists
- Immediate evidence of productivity for grant/hiring committees



bioRxiv features

- Posted manuscript date-stamped + given a DOI (citable)
- Indexed in Google Scholar
- Choice of article type (New, Confirmatory, or Contradictory Results)
- 25 life science subject categories plus science communication & education
- Choice of license (CC0, CC BY, CC BY-NC, CC BY-ND, CC BY-NC-ND, all rights reserved)
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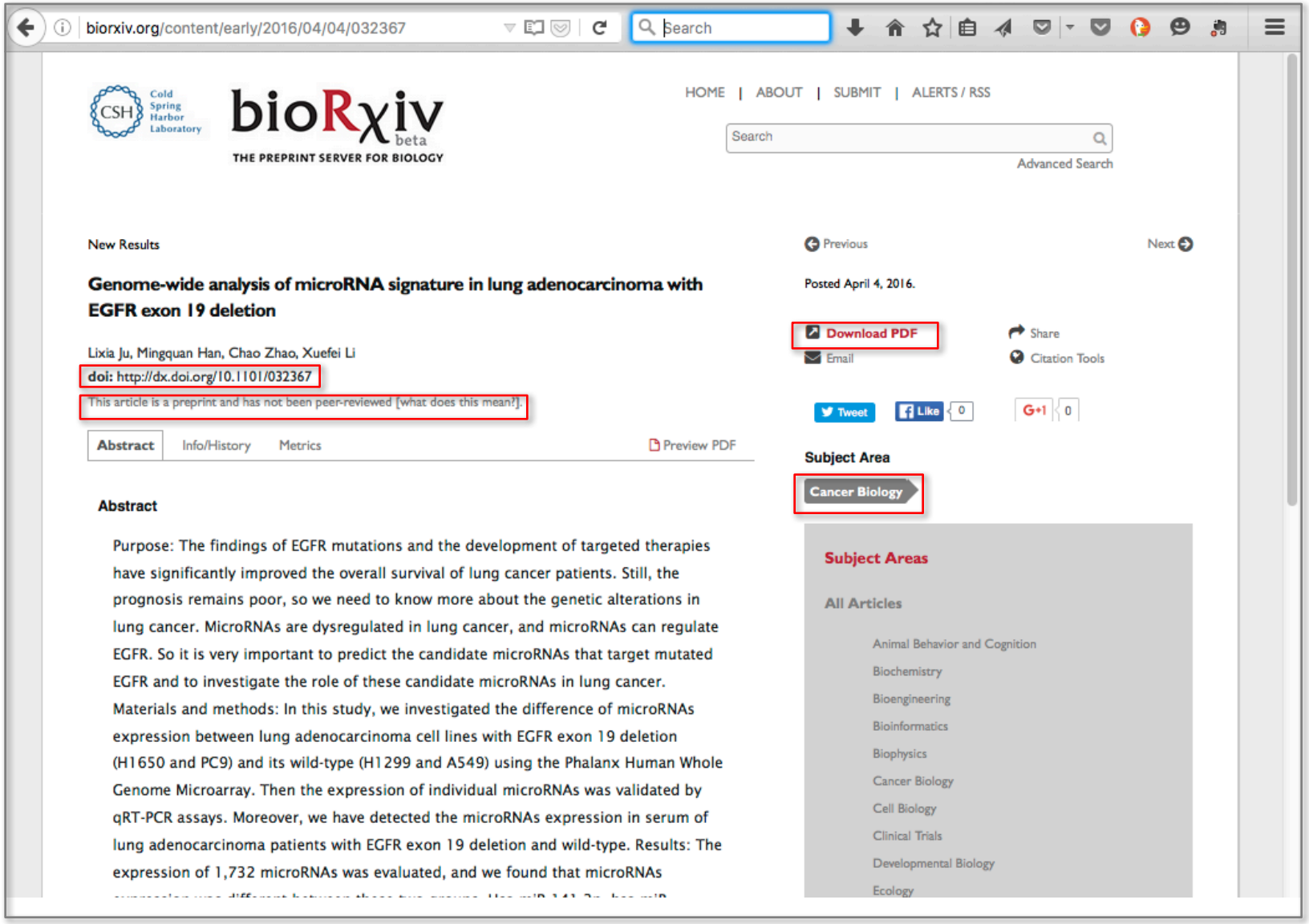
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Posted April 4, 2016.
Lixia Ju, Mingquan Han, Chao Zhao, Xuefei Li
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Abstract
Purpose: The findings of EGFR mutations and the development of targeted therapies have significantly improved the overall survival of lung cancer patients. Still, the prognosis remains poor, so we need to know more about the genetic alterations in lung cancer. MicroRNAs are dysregulated in lung cancer, and microRNAs can regulate EGFR. So it is very important to predict the candidate microRNAs that target mutated EGFR and to investigate the role of these candidate microRNAs in lung cancer. Materials and methods: In this study, we investigated the difference of microRNAs expression between lung adenocarcinoma cell lines with EGFR exon 19 deletion (H1650 and PC9) and its wild-type (H1299 and A549) using the Phalanx Human Whole Genome Microarray. Then the expression of individual microRNAs was validated by qRT-PCR assays. Moreover, we have detected the microRNAs expression in serum of lung adenocarcinoma patients with EGFR exon 19 deletion and wild-type. Results: The expression of 1,732 microRNAs was evaluated, and we found that microRNAs
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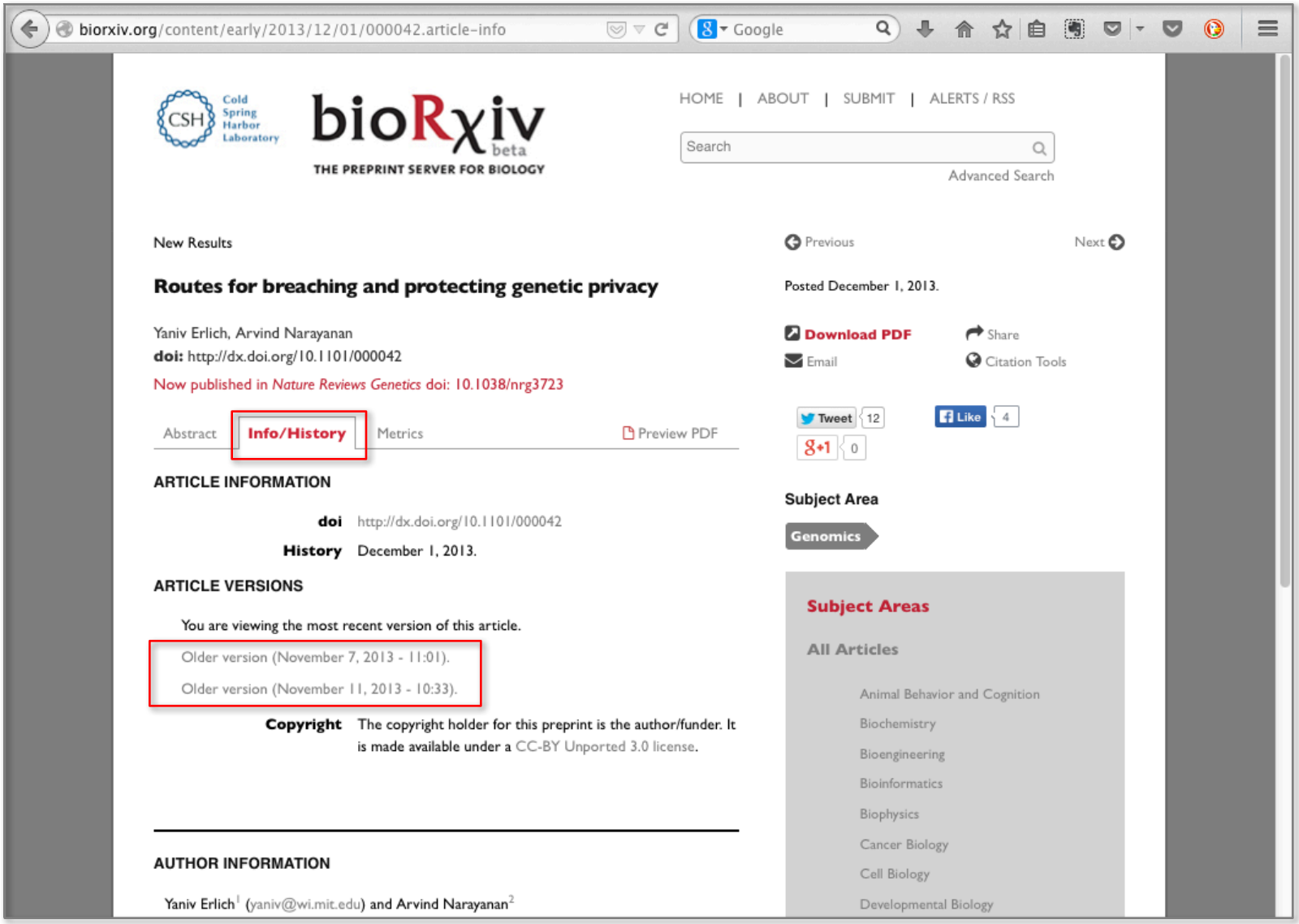

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Posted December 1, 2013.

Yaniv Erlich, Arvind Narayanan

doi: http://dx.doi.org/10.1101/000042

Now published in *Nature Reviews Genetics* doi: 10.1038/nrg3723

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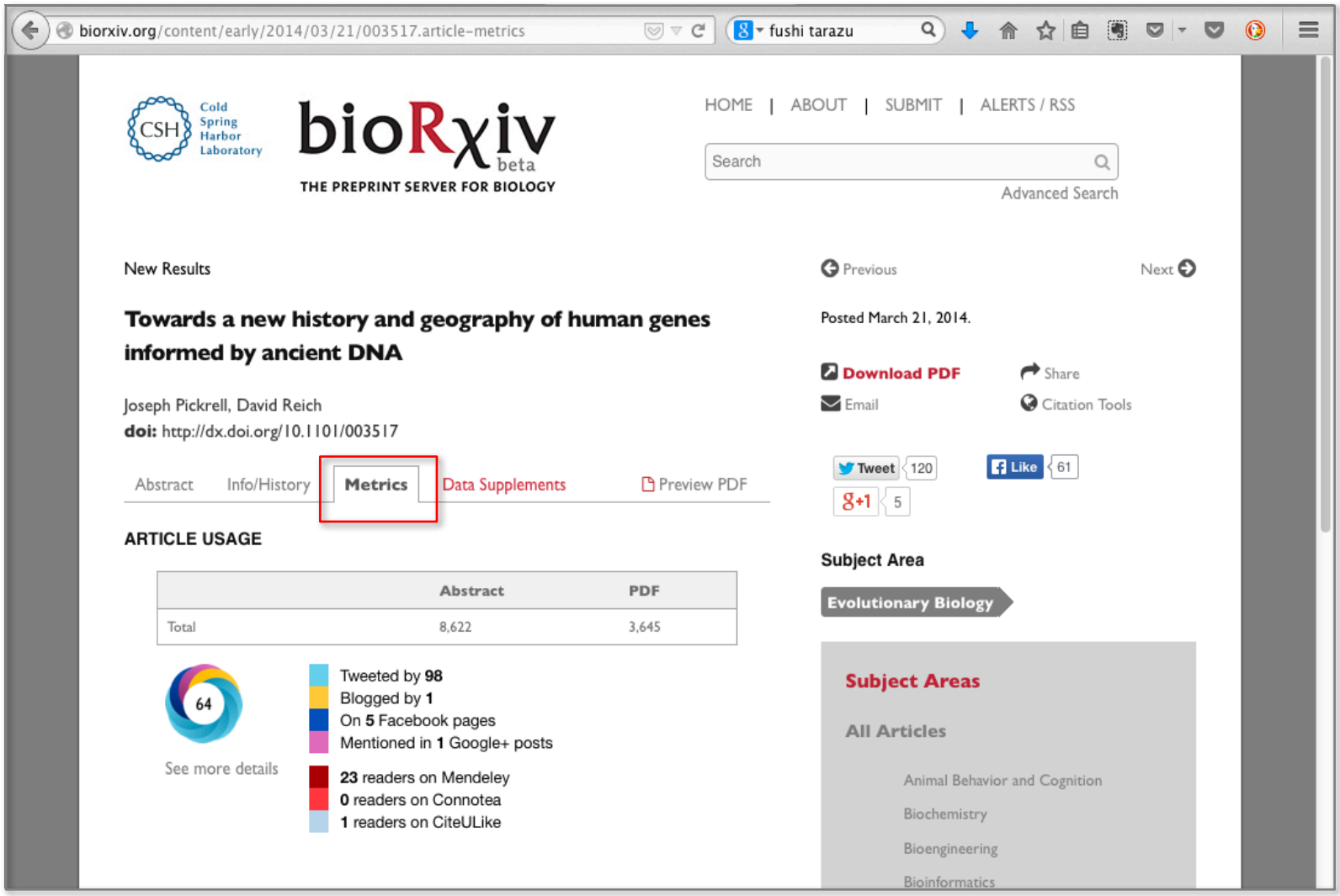
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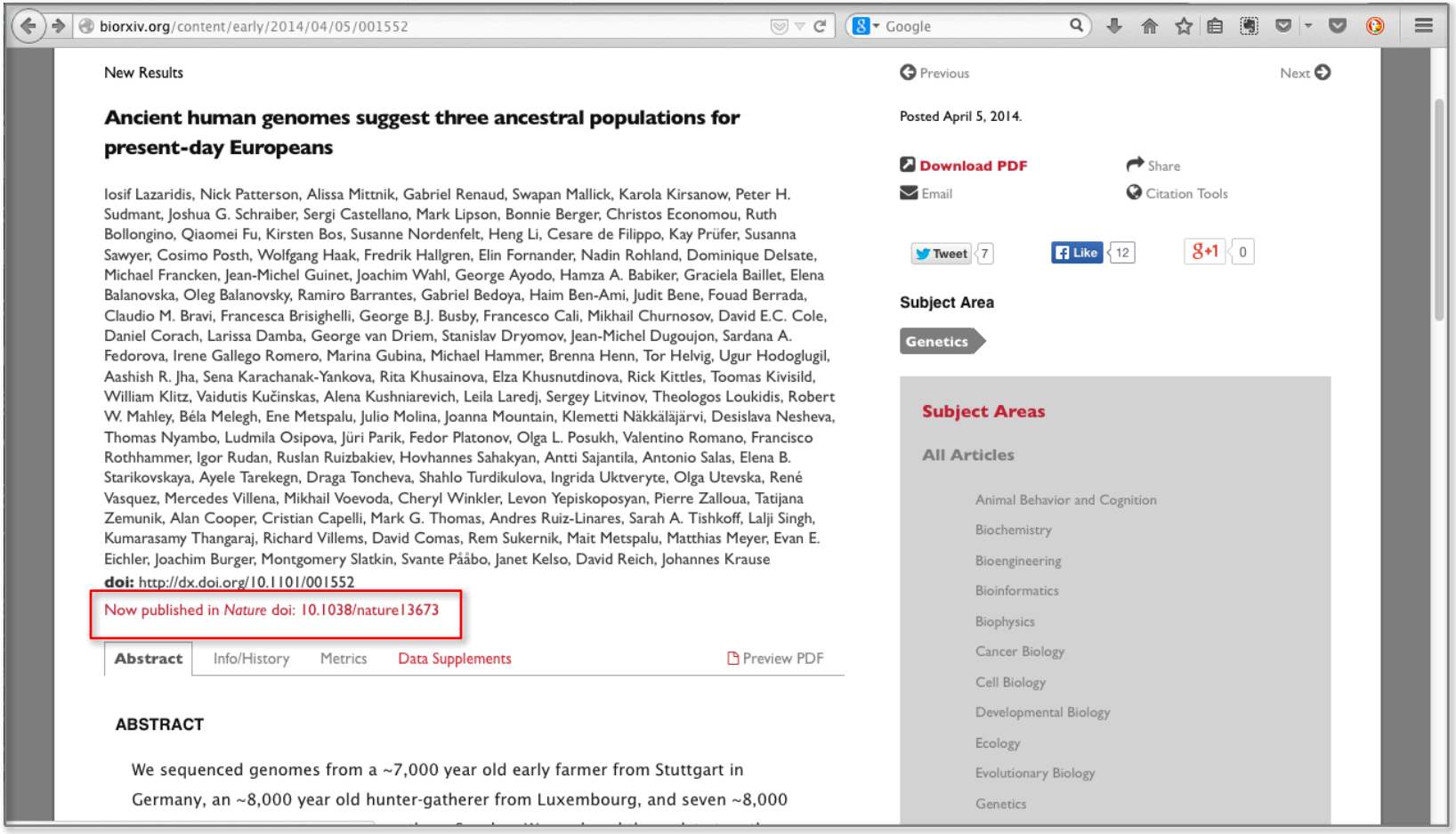

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New Results

Ancient human genomes suggest three ancestral populations for present-day Europeans

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doi: http://dx.doi.org/10.1101/001552

Now published in *Nature* doi: 10.1038/nature13673

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ABSTRACT

We sequenced genomes from a ~7,000 year old early farmer from Stuttgart in Germany, an ~8,000 year old hunter-gatherer from Luxembourg, and seven ~8,000

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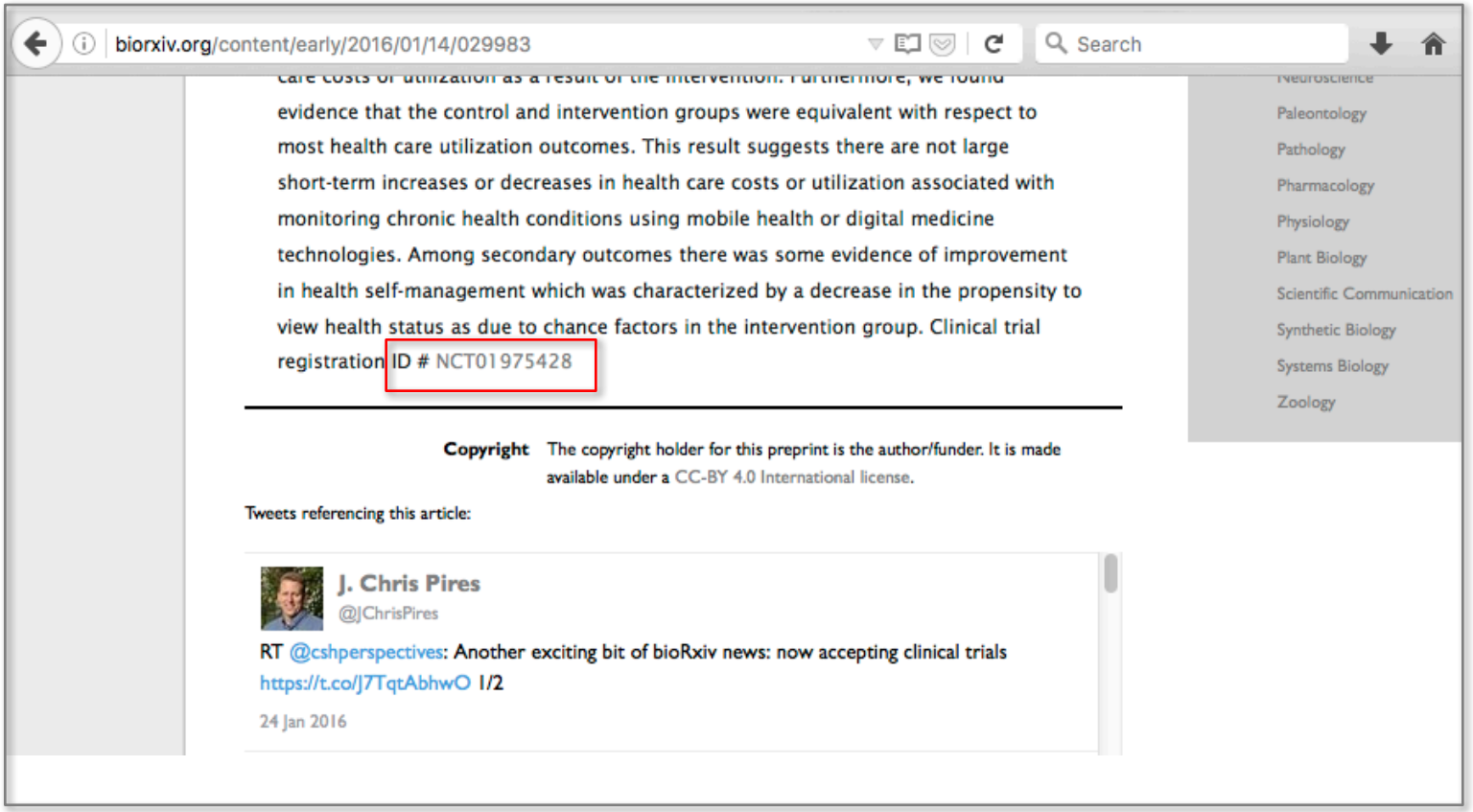
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evidence that the control and intervention groups were equivalent with respect to most health care utilization outcomes. This result suggests there are not large short-term increases or decreases in health care costs or utilization associated with monitoring chronic health conditions using mobile health or digital medicine technologies. Among secondary outcomes there was some evidence of improvement in health self-management which was characterized by a decrease in the propensity to view health status as due to chance factors in the intervention group. Clinical trial registration ID # NCT01975428
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RT @cshperspectives: Another exciting bit of bioRxiv news: now accepting clinical trials https://t.co/J7TqtAbhwO 1/2
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Progress since 2013

- ~4500 submissions (>90% approved)
- ~30% revised (many more than once)
- >50% of papers subsequently published
- >300 journals have published papers preprinted on bioRxiv

Progress since 2013

- Behavior change: more biologists posting/reading preprints
- Policy change: more journals allowing preprint posting
- Rule change: NIH grant applications can now cite "non-peer-reviewed publications"
- Community change: awareness raised by two meetings -

THE ROYAL SOCIETY 2015

ASAPbio 2016

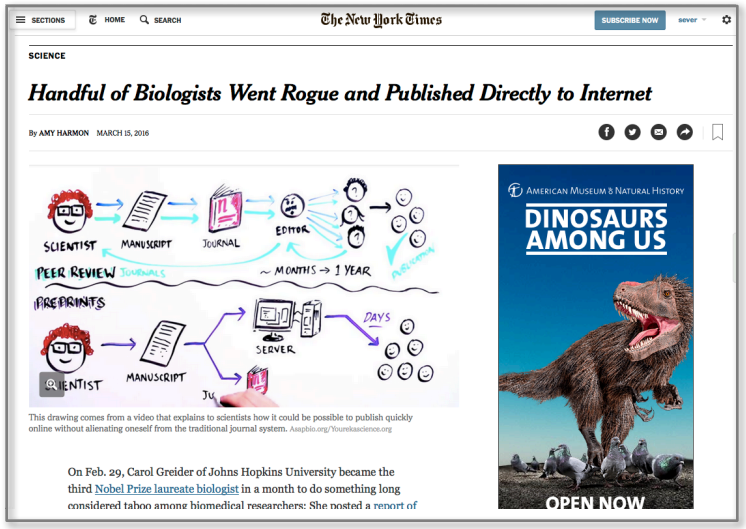
ASAPbio

- 1-day meeting for representative stakeholders, Feb 2016
- Consensus that preprints solve an important problem…timely sharing of publicly funded research

"Preprints decouple journal publication from dissemination of knowledge. By sharing results when they are ready to be shared, science can move forward while the slow wheels of peer review turn." Stephen Floor, UC Berkeley

- Criticism of journals that will not consider preprints
- Strong support for one service in biology
- Plans to lobby NIH & other funders

ASAPbio impact



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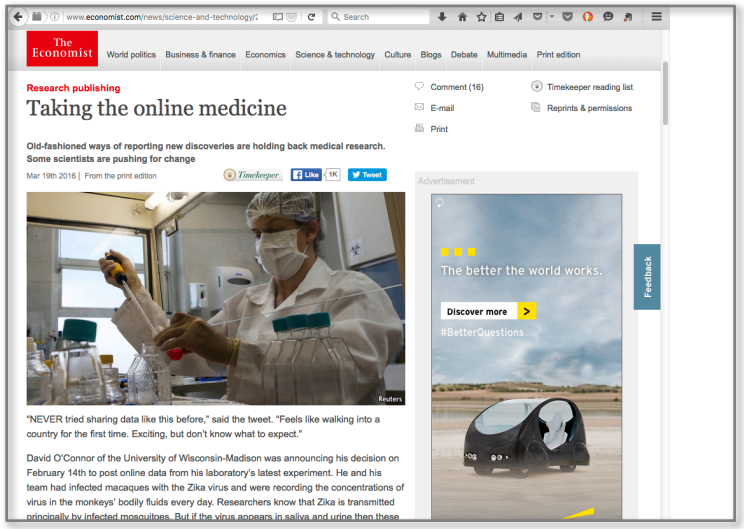
SCIENCE

Handful of Biologists Went Rogue and Published Directly to Internet

By AMY HARMON MARCH 15, 2016

This drawing comes from a video that explains to scientists how it could be possible to publish quickly online without alienating oneself from the traditional journal system. Asapbio.org/Yourekascience.org

On Feb. 29, Carol Greider of Johns Hopkins University became the third Nobel Prize laureate biologist in a month to do something long considered taboo among biomedical researchers: She posted a report of



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Old-fashioned ways of reporting new discoveries are holding back medical research. Some scientists are pushing for change

Mar 19th 2016 | From the print edition Timekeeper Like 1K Tweet

"NEVER tried sharing data like this before," said the tweet. "Feels like walking into a country for the first time. Exciting, but don't know what to expect."

David O'Connor of the University of Wisconsin-Madison was announcing his decision on February 14th to post online data from his laboratory's latest experiment. He and his team had infected macaques with the Zika virus and were recording the concentrations of virus in the monkeys' bodily fluids every day. Researchers know that Zika is transmitted principally by infected mosquitoes. But if the virus appears in saliva and urine then these

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Feedback

ASAPbio impact

Science AAAS

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SCIENTIFIC COMMUNITY

Preprints for the life sciences

The time is right for biologists to post their research findings onto preprint servers

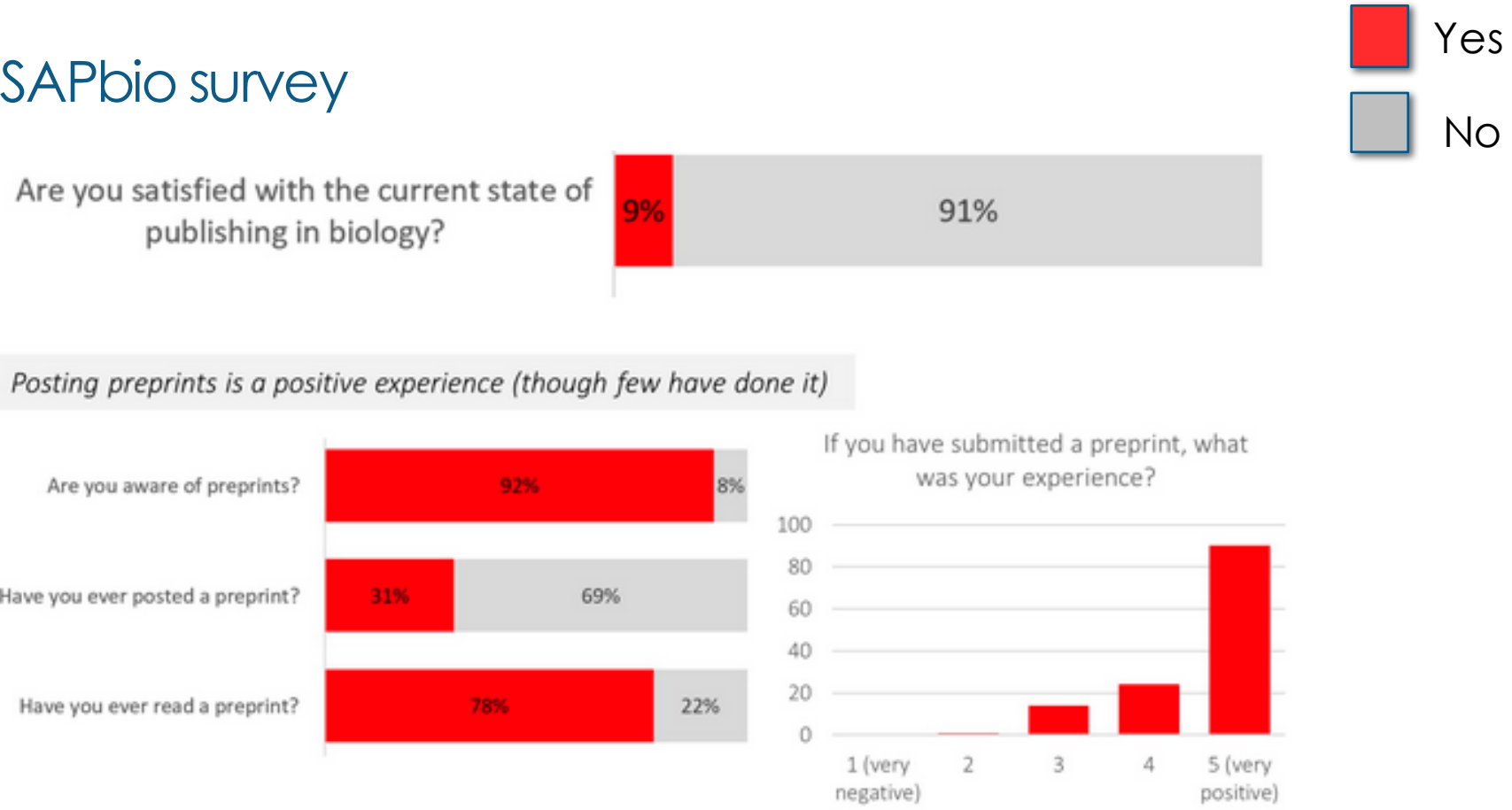
By Jeremy M. Berg,[1] Needhi Bhalla,[2] Philip E. Bourne,[3] Martin Chalfie,[4] David G. Drubin,[5] James S. Fraser,[6] Carol W. Greider,[7] Michael Hendricks,[8] Chonnettia Jones,[9] Robert Kiley,[9] Susan King,[10] Marc W. Kirschner,[11] Harlan M. Krumholz,[12] Ruth Lehmann,[13] Maria Leptin,[14] Bernd Pulverer,[14] Brooke Rosenzweig,[15] John E. Spiro,[16] Michael Stebbins,[17] Carly Strasser,[18] Sowmya Swaminathan,[19] Paul Turner,[20] Ronald D. Vale,[21] K. VijayRaghavan,[22] Cynthia Wolberger[23]

ACADEMICS' PERSPECTIVE

J. M. Berg, N. Bhalla, M. Chalfie, J. S. Fraser, C. W. Greider, M. Hendricks, M. W. Kirschner, R. Lehmann, P. Turner, C. Wolberger

Motivated by frustrations in the slow speed of publishing (*1*), we and other junior and senior life scientists participated in the ASAPbio meeting. Physicists have embraced sharing their work as preprints for 25 years. Paul Ginsparg, founder of arXiv, described how physicists, mathematicians, and computer scientists check arXiv when

ASAPbio survey



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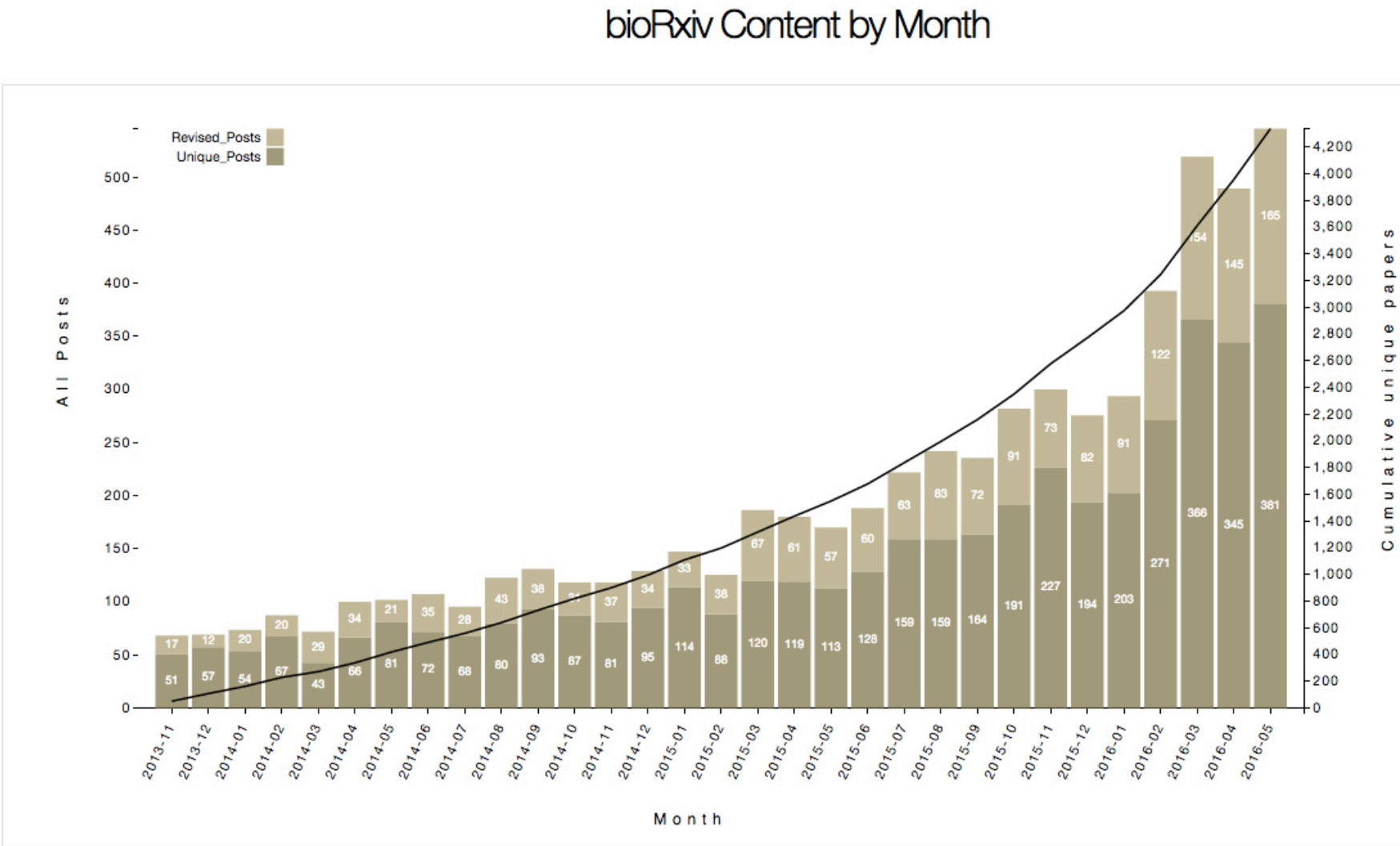
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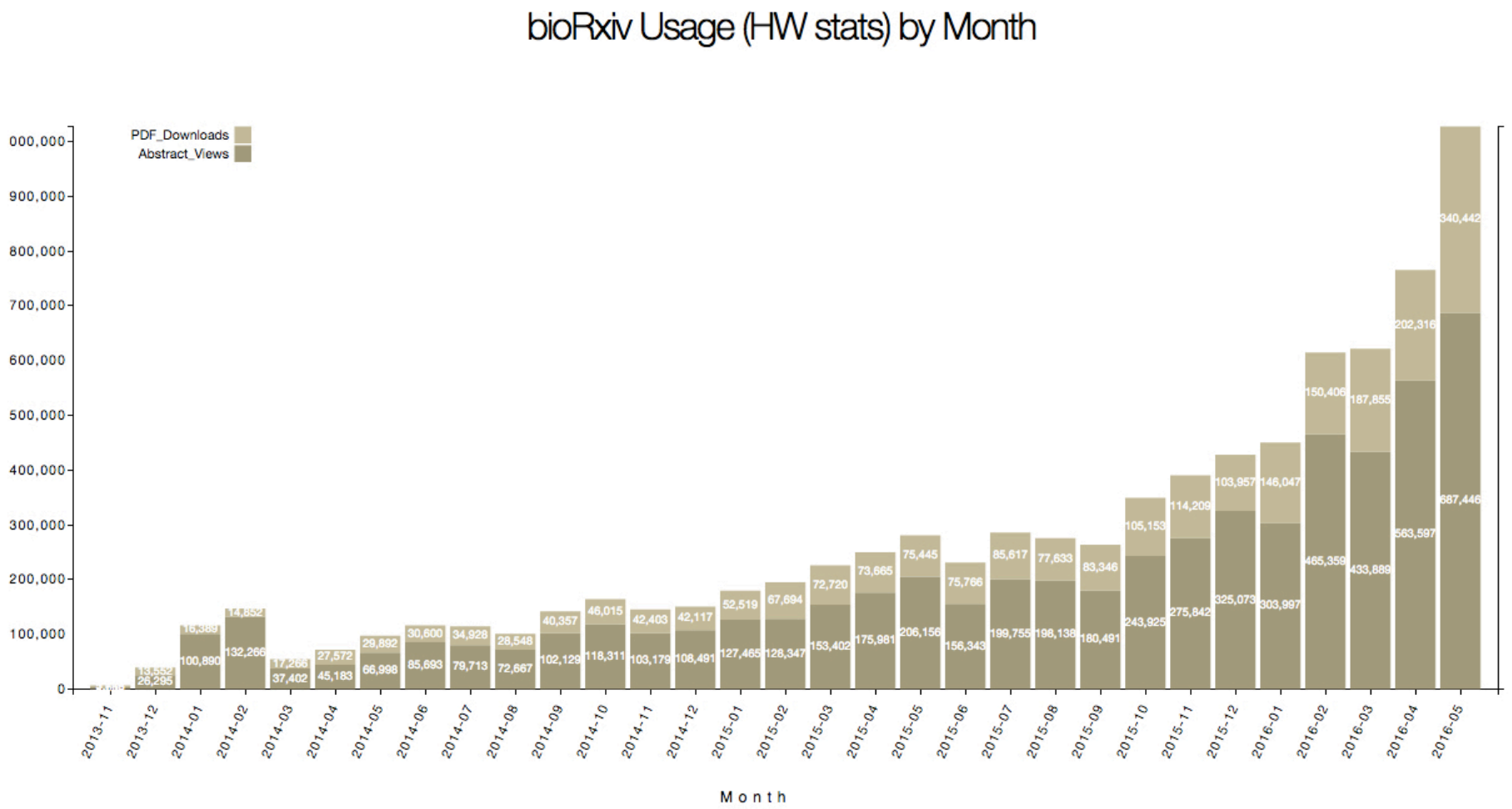
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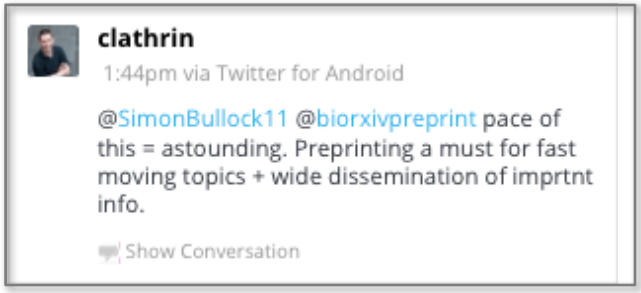

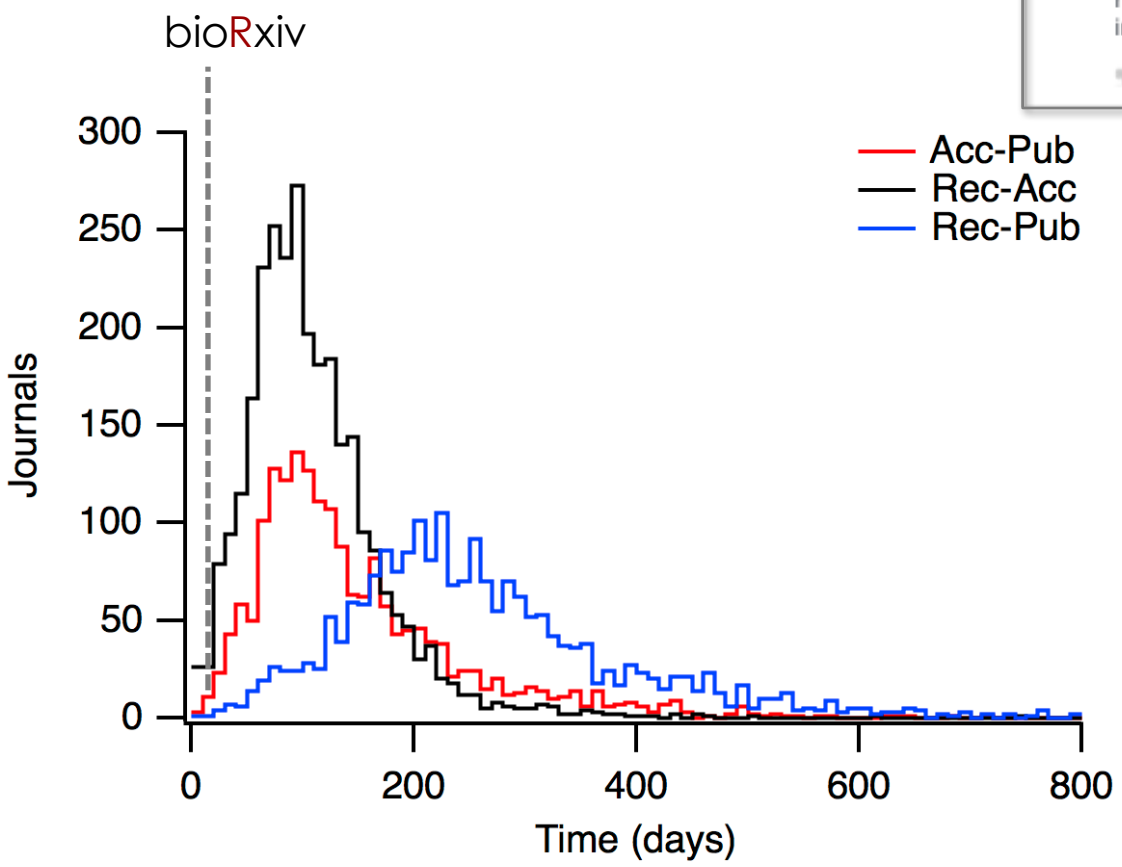

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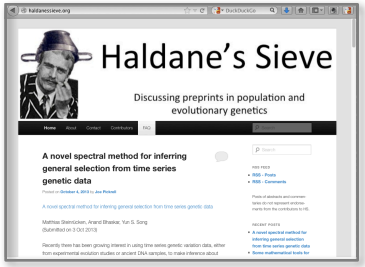

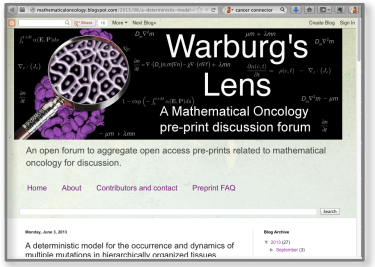

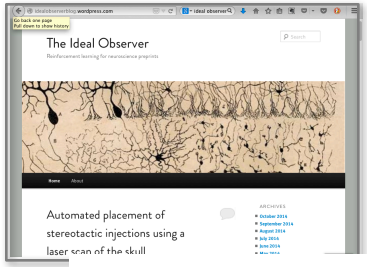

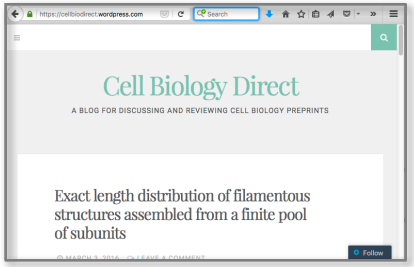

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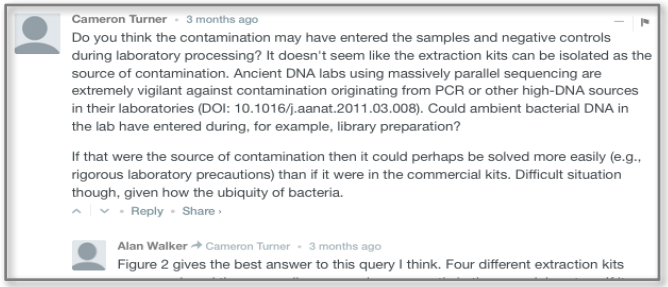

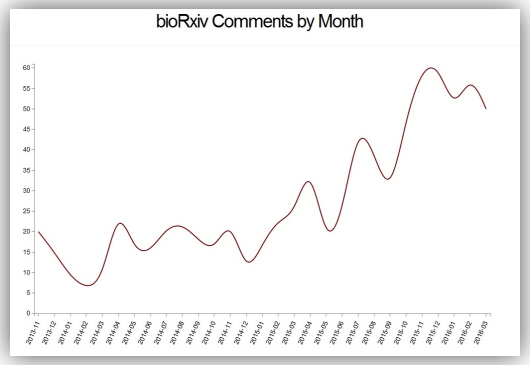

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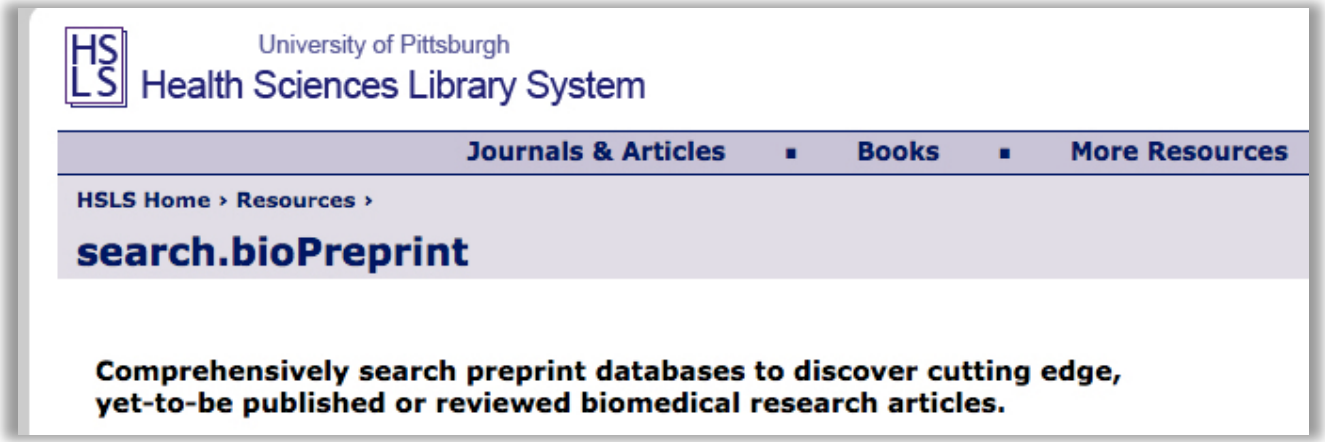

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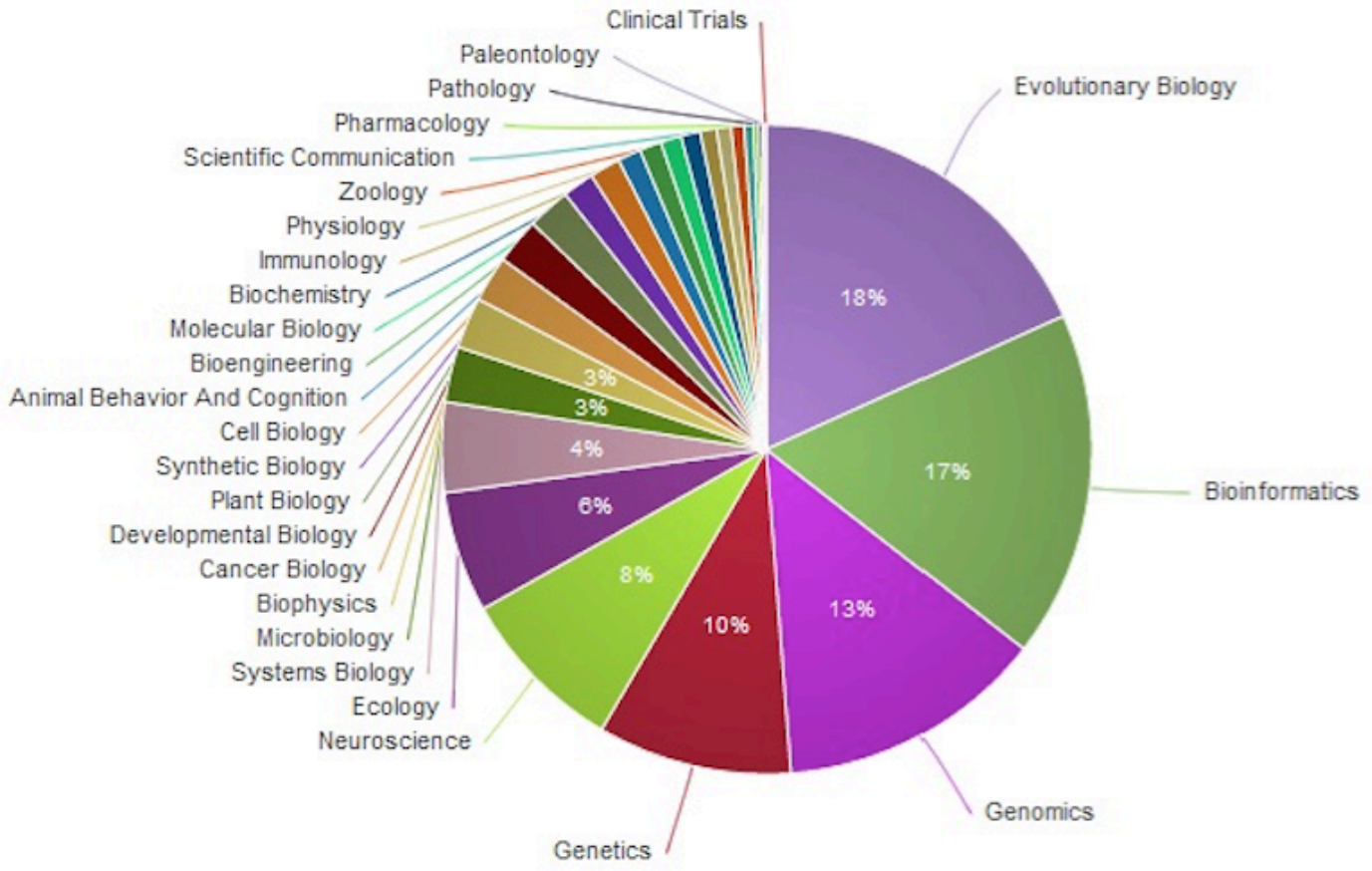
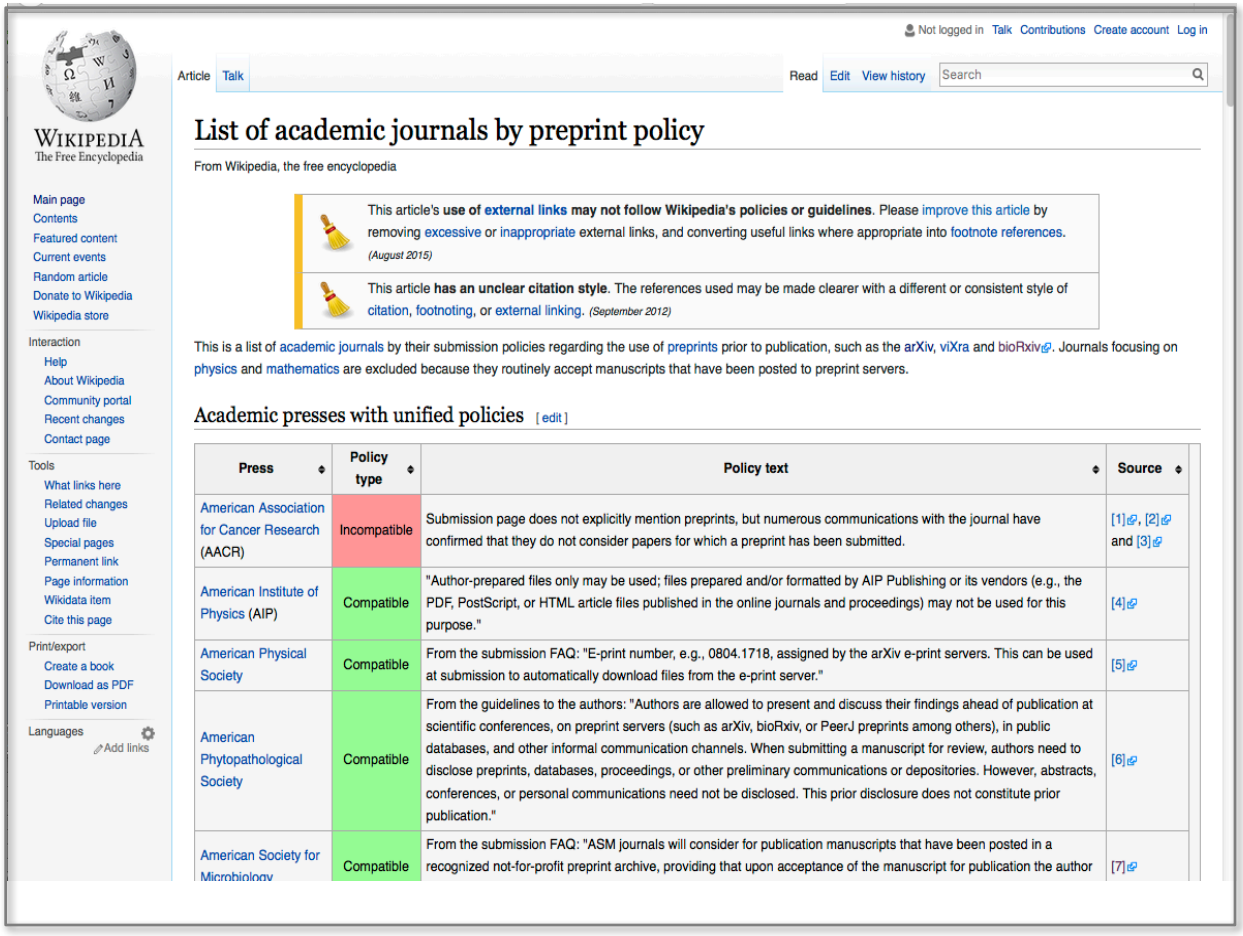


Changing preprint policies



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List of academic journals by preprint policy

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American Institute of Physics (AIP)	Compatible	"Author-prepared files only may be used; files prepared and/or formatted by AIP Publishing or its vendors (e.g., the PDF, PostScript, or HTML article files published in the online journals and proceedings) may not be used for this purpose."	[4]
American Physical Society	Compatible	From the submission FAQ: "E-print number, e.g., 0804.1718, assigned by the arXiv e-print servers. This can be used at submission to automatically download files from the e-print server."	[5]
American Phytopathological Society	Compatible	From the guidelines to the authors: "Authors are allowed to present and discuss their findings ahead of publication at scientific conferences, on preprint servers (such as arXiv, bioRxiv, or PeerJ preprints among others), in public databases, and other informal communication channels. When submitting a manuscript for review, authors need to disclose preprints, databases, proceedings, or other preliminary communications or depositories. However, abstracts, conferences, or personal communications need not be disclosed. This prior disclosure does not constitute prior publication."	[6]
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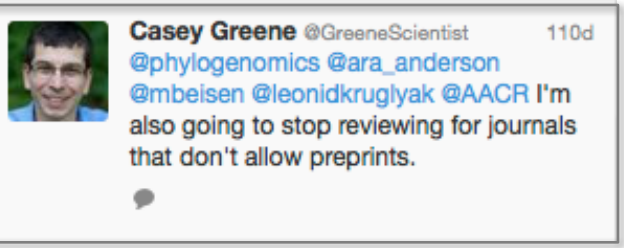

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Changing citation policies

Inagaki, H.K., Ben-Tabou de-Leon, S., Wong, A.M., Jagadish, S., Ishimoto, H., Barnea, G., Kitamoto, T., Axel, R., and Anderson, D.J. (2012). Visualizing neuromodulation in vivo: TANGO-mapping of dopamine signaling reveals appetite control of sugar sensing. Cell *148*, 583–595.

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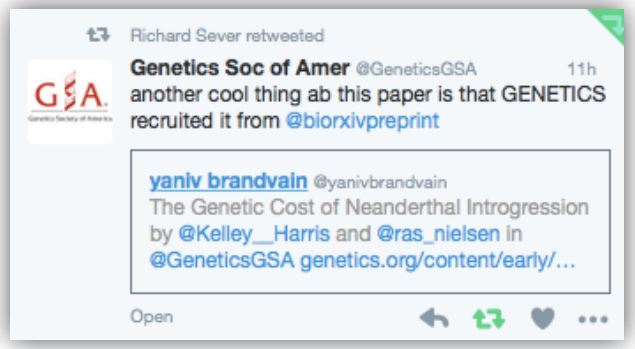
Manuscript recruitment



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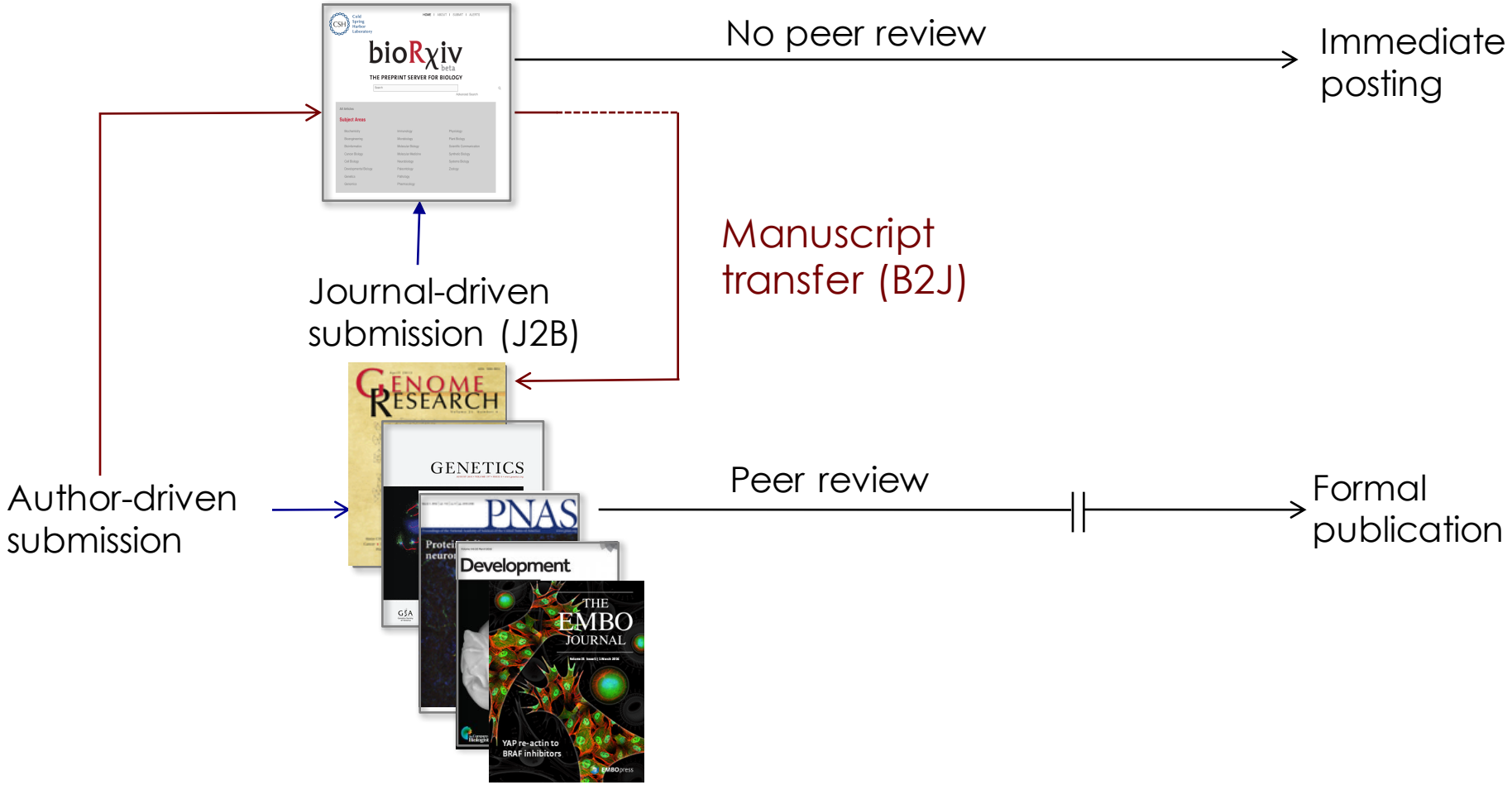

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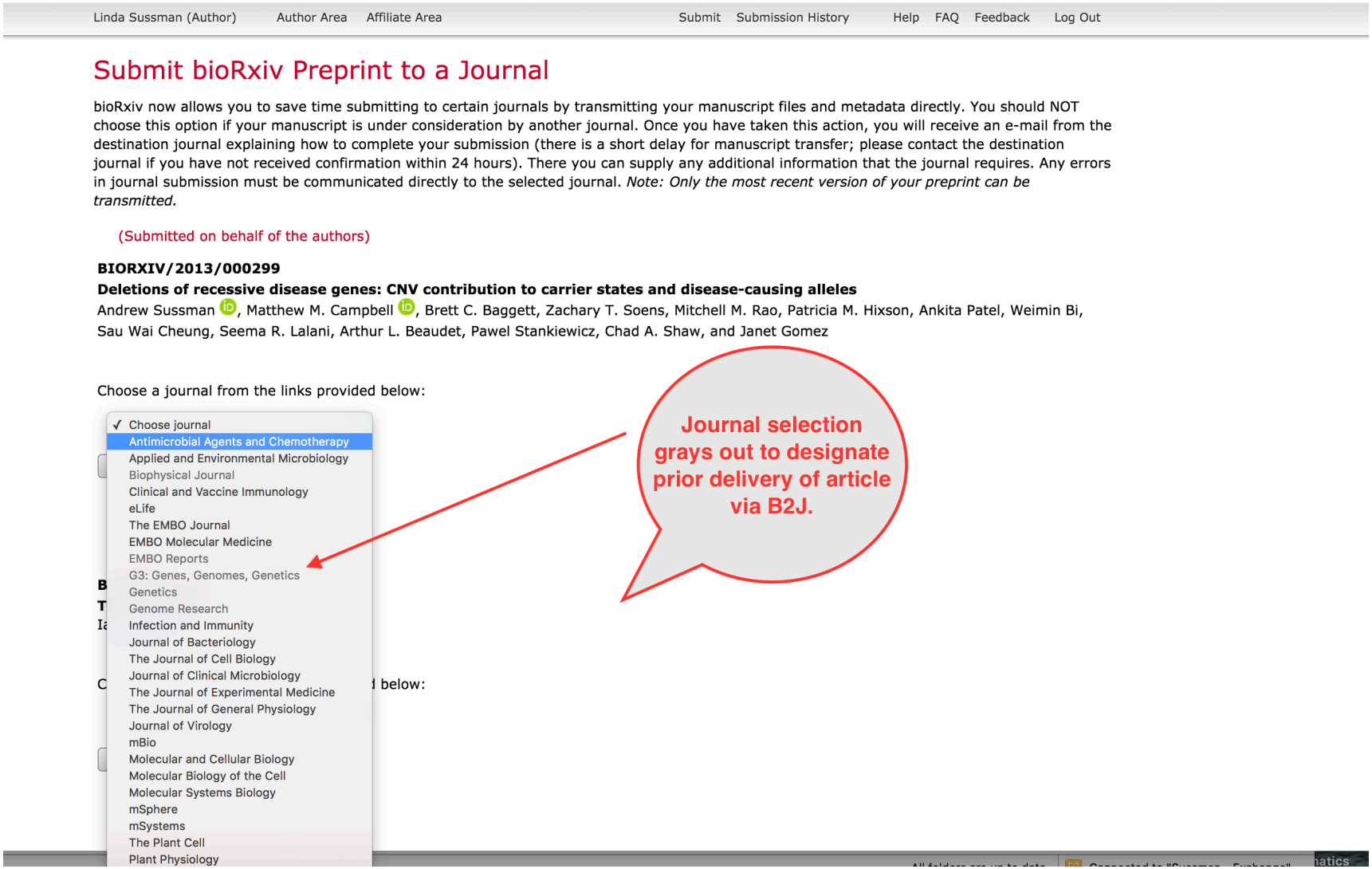

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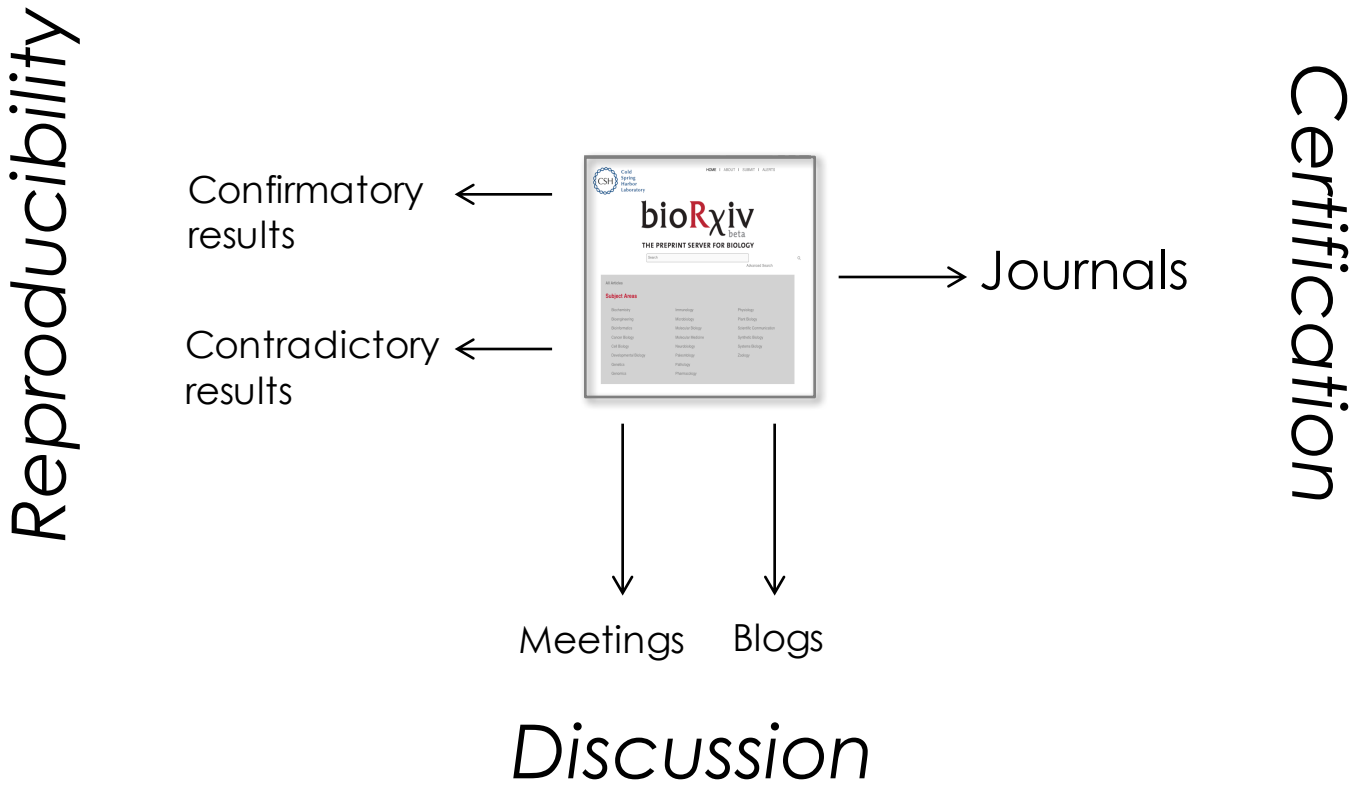

Acknowledgements

The bioRxiv Team

Jan Argentine
Linda Sussman
Ted Roeder
Richard Sever
Inez Sialiano

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The Lourie Foundation