

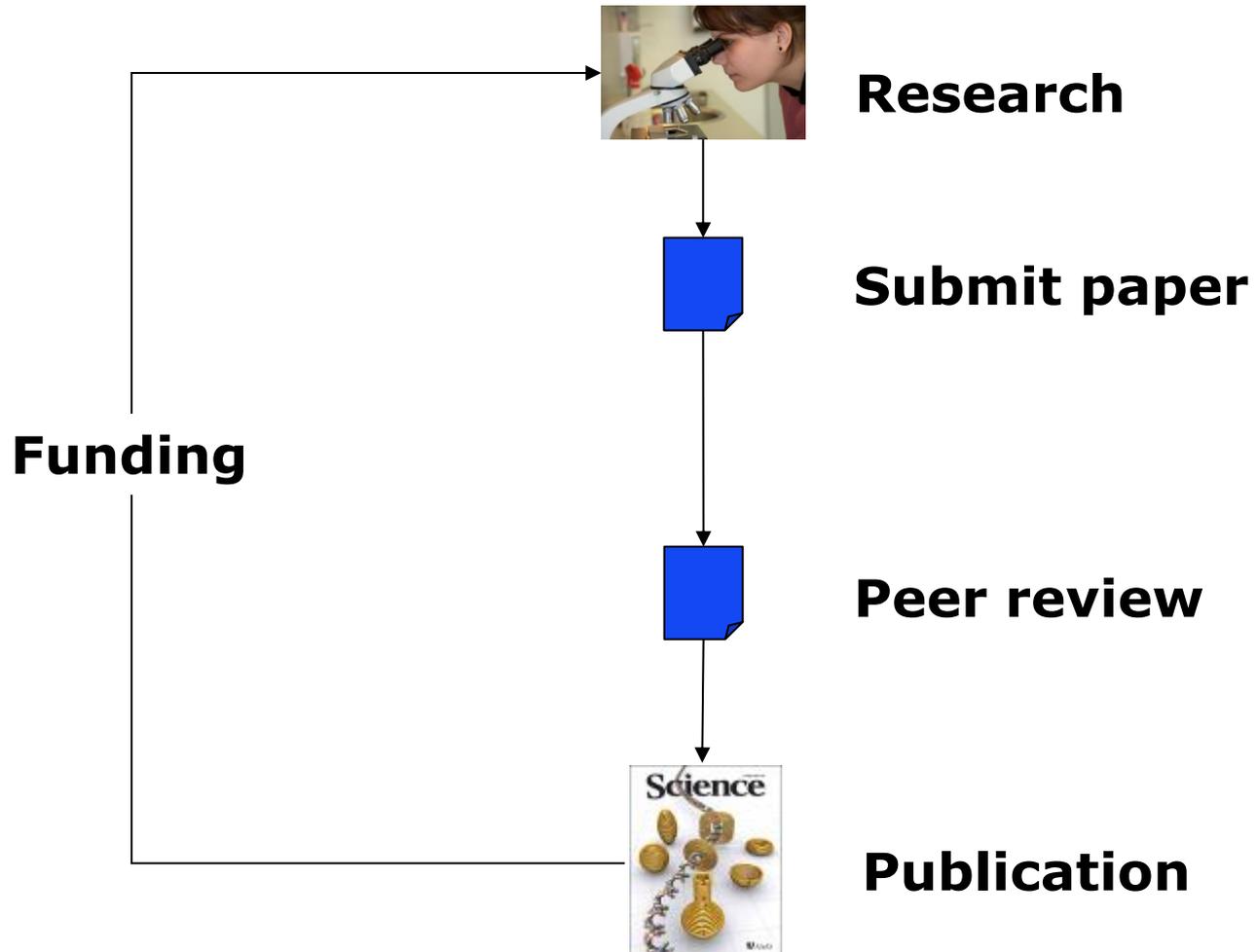


Quantity and quality: how you can publish in megajournals and still achieve impact

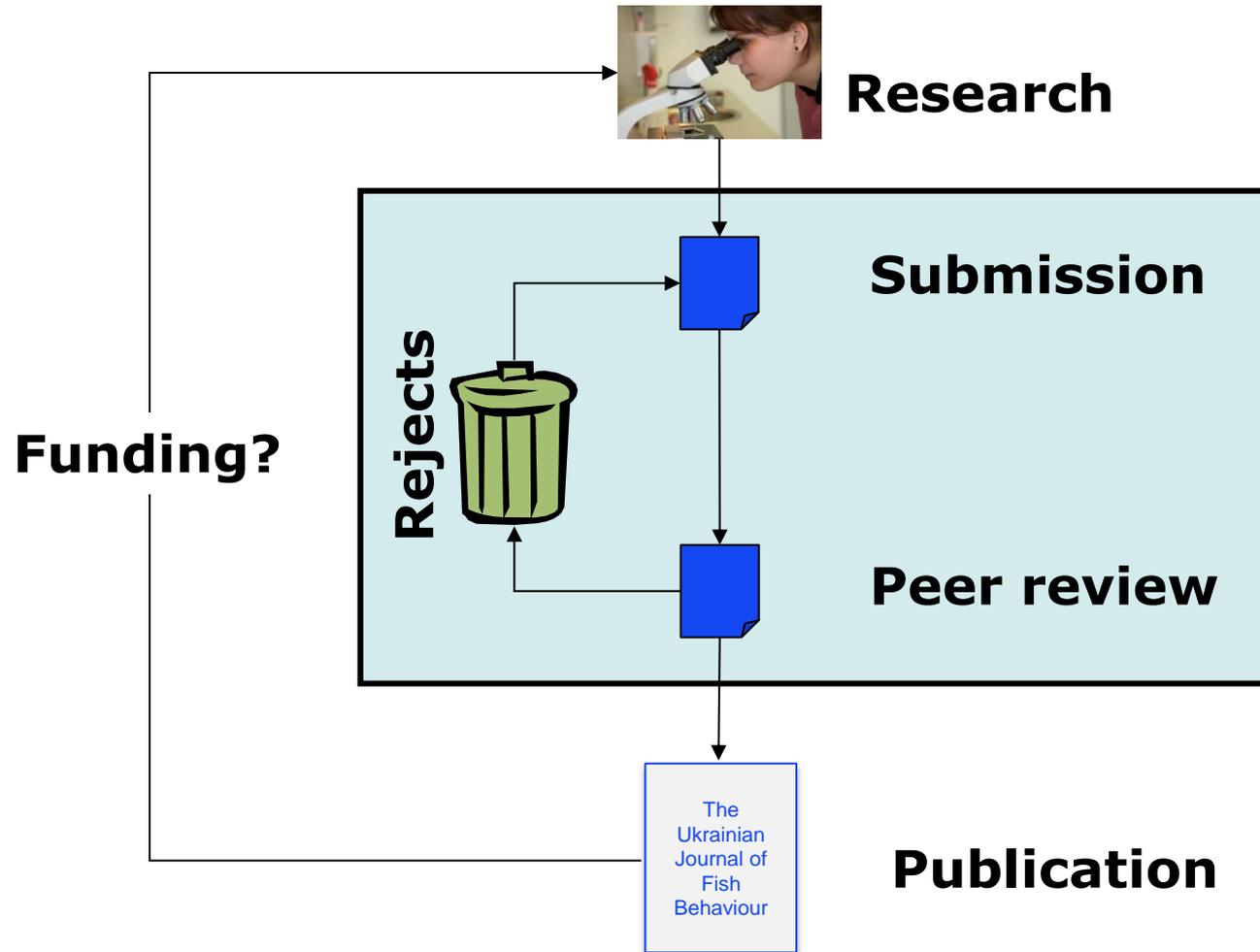
Damian Pattinson, PhD
Editorial Director, PLOS ONE

19th November 2015

What's the problem with the current system?



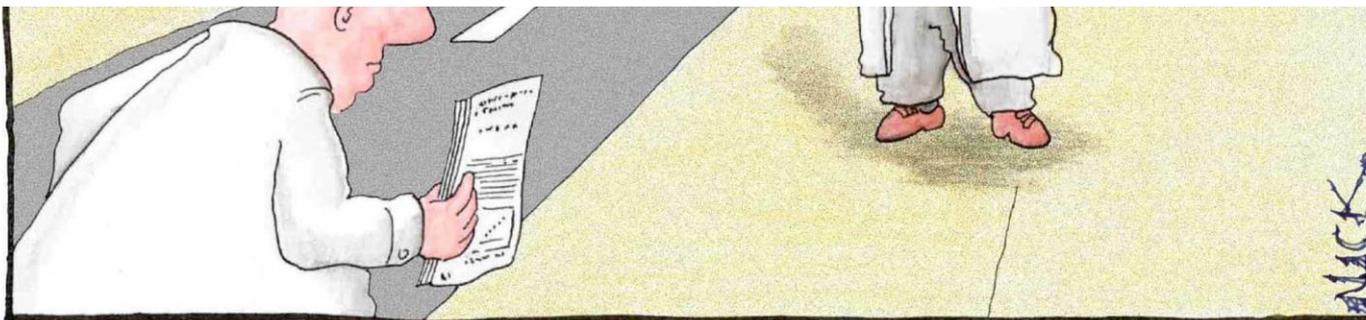
What's the problem with the current system?



Is the communication trail fit for purpose?

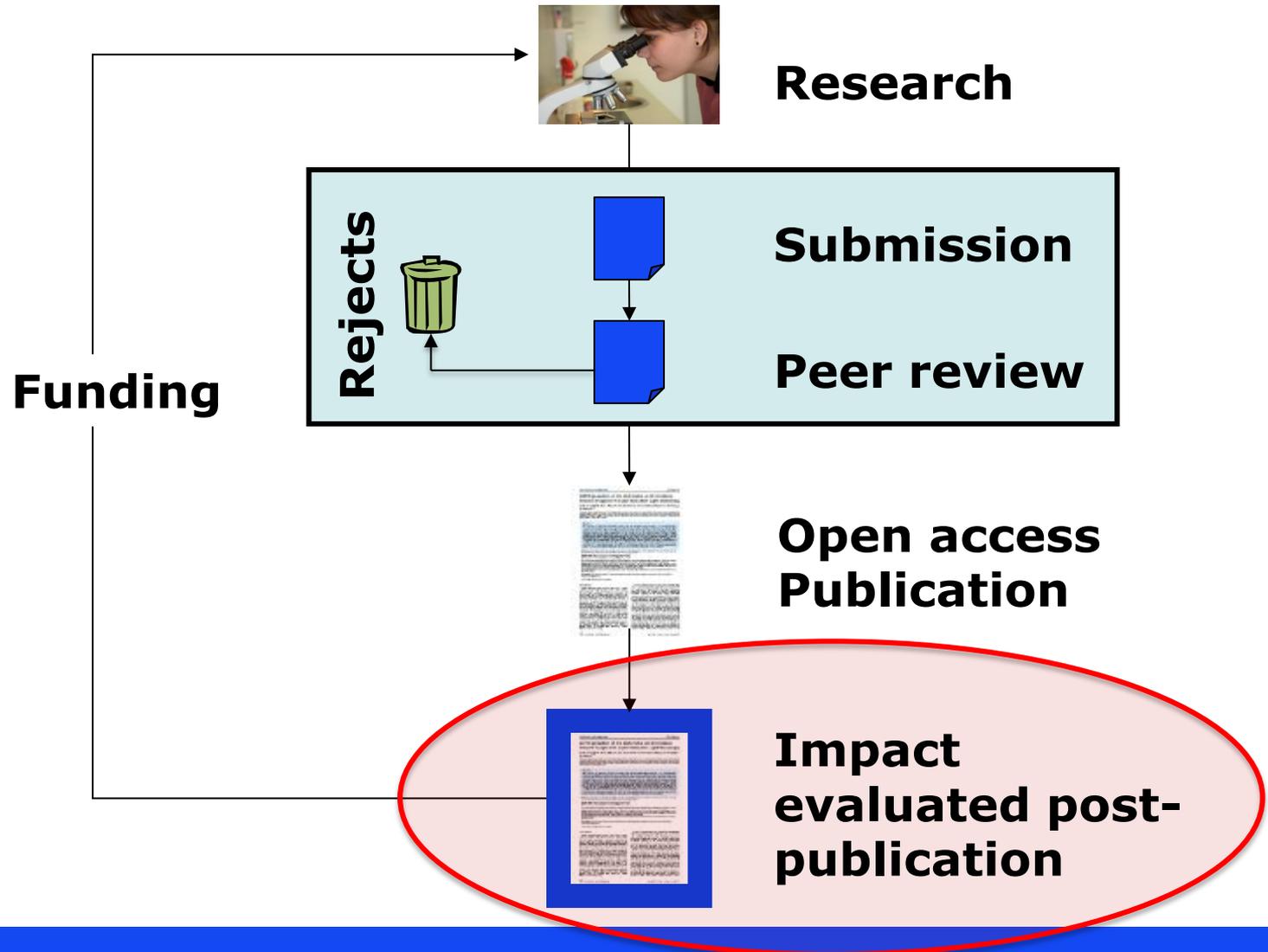


- When should 'scrutiny' happen?
- What does 'scrutiny' involve?



Most scientists regarded the new streamlined peer-review process as "quite an improvement."

A new way...



PLOS ONE's Key Innovation: the editorial process

- Editorial criteria
 - Scientifically rigorous
 - Ethical
 - Properly reported
 - Conclusions supported by the data
- Editors and reviewers **do not** ask
 - How important is the work?
 - Which is the relevant audience?
- Everything that deserves to be published, will be published
 - Therefore the journal is not artificially limited in size
- Use online tools to sort and filter scholarly content after publication, not before

The rise of the megajournals...



Collectively, these will represent...

“a very large compendium of papers that have been vetted for scientific quality, but which will not be confined in terms of their likely importance.”

Harold Varmus, Oct 2005

Collectively, these will represent...

*“a very large compendium of papers that have been vetted for scientific quality, but which **will not be confined in terms of their likely importance.**”*

Harold Varmus, Oct 2005

How can we measure impact?

PLOS Article-Level Metrics

A **suite of established metrics**
measures **overall performance**
and reach of published research articles

Usage

PLOS: views
PDF downloads
XML downloads
PMC: views

Citations

PubMed Central
CrossRef
Scopus
Web of Science

PLOS

Comments
Notes
Ratings

Social Network

CiteULike
Mendeley
Twitter
Facebook

Blogs & Media

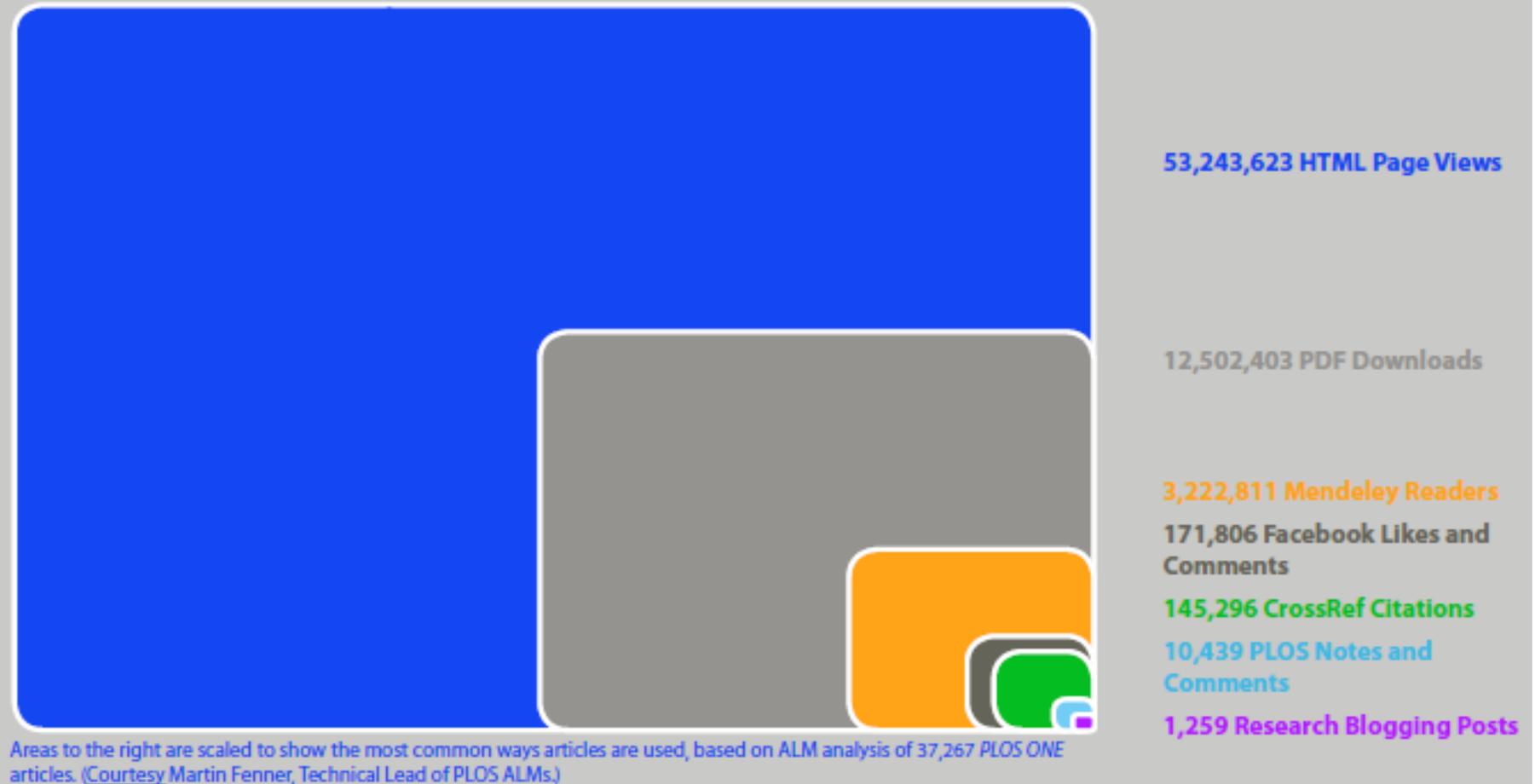
Nature Blogs
ScienceSeeker
Research Blogging
Wikipedia
Trackbacks

<http://article-level-metrics.plos.org>

Article Level Metrics Show How Readers Interact with Articles

Dynamics of Usage – Beyond Citations

AN ALM SNAPSHOT OF HOW READERS INTERACT WITH ARTICLES





OPEN ACCESS PEER-REVIEWED

12,403

VIEWS

8

CITATIONS

12

SAVES

62

SHARES

RESEARCH ARTICLE

Lethal Thermal Impact at Periphery of Pyroclastic Surges: Evidences at Pompeii

Giuseppe Mastrolorenzo, Pierpaolo Petrone, Lucia Pappalardo, Fabio M. Guarino

Article

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Metrics

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Total Article Views

12,403

Jun 15, 2010 (publication date) through Sep 18, 2013*

	HTML Page Views	PDF Downloads	XML Downloads	Totals
PLOS	10,655	758	47	11,460
PMC	864	79	n.a.	943
Totals	11,519	837	47	12,403

7.27% of article views led to PDF downloads



Subject Areas ?

Bone imaging

Femur

Fluid flow

Horses

Light microscopy

Osteocytes

Scanning electron m...

Volcanoes

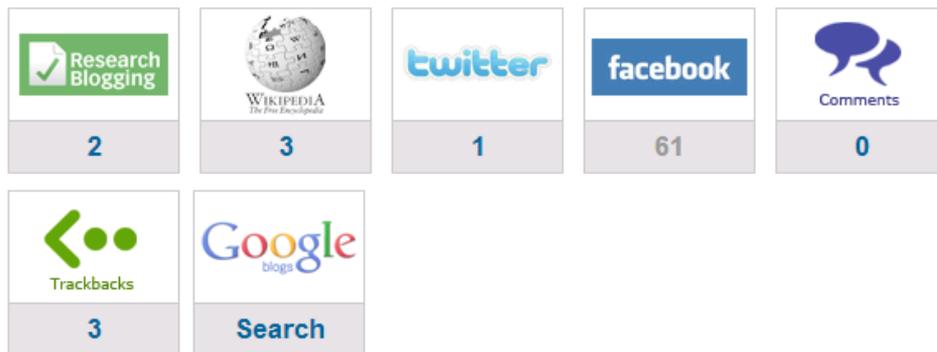
Cited ?



Saved ?



Discussed ?



[Download raw metrics data as CSV](#)

[Metrics information and summary data for PLOS ONE](#)

[Questions or concerns about usage data? Please let us know.](#)



OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

48,180

VIEWS

3

SAVES

1,399

SHARES

Hominin Footprints from Early Pleistocene Deposits at Happisburgh, UK

Nick Ashton , Simon G. Lewis, Isabelle De Groote, Sarah M. Duffy, Martin Bates, Richard Bates, Peter Hoare, Mark Lewis, Simon A. Parfitt, Sylvia Peglar, Craig Williams, Chris Stringer

Published: February 07, 2014 • DOI: 10.1371/journal.pone.0088329

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The Independent: "The million-year-old family? Human footprints found in Britain are oldest ever seen outside of Africa " 07 Feb 2014

The Mirror: "The 800,000-year-old footprint: Earliest human prints ever discovered outside Africa found on Norfolk beach" 07 Feb 2014

Channel 4 News: "Oldest human footprint outside Africa found on Norfolk beach" 07 Feb 2014

BBC News: "Earliest footprints outside Africa discovered in Norfolk" 07 Feb 2014

The Telegraph: "900,000 year old footprints of earliest northern Europeans discovered" 07 Feb 2014

Herald Scotland: "One small step for man: ancient human footprint found on beach" 07 Feb 2014

Daily Mail: "Earliest human footprints outside Africa discovered in NORFOLK: 800,000-year-old imprints 're-write our

Subject Areas

Archaeological dating

Archaeology

Beaches

Cliffs

Paleoanthropology

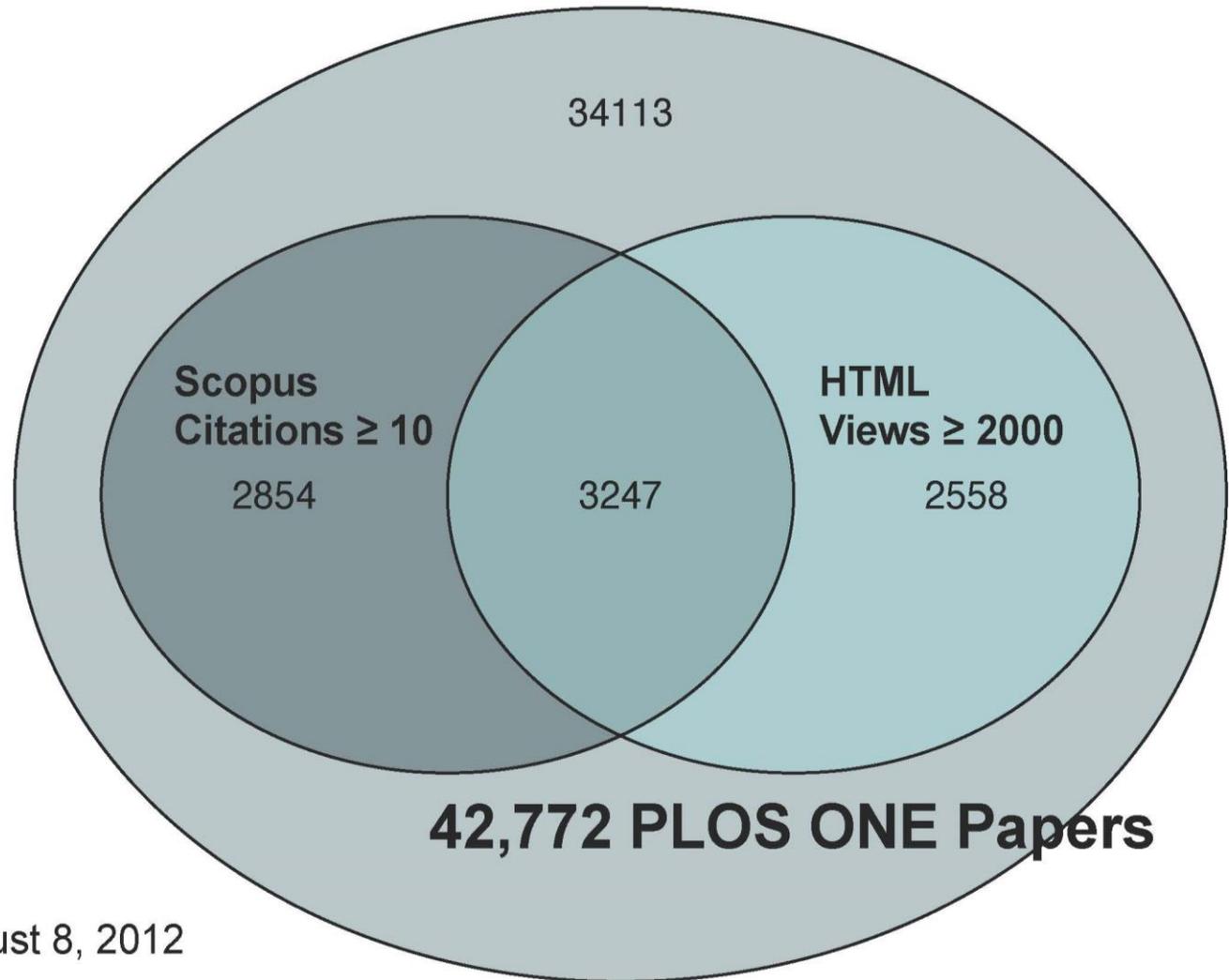
Pleistocene epoch

Professions

Sediment

Journal Citations are no longer sufficient to filter for impact

Article-Level Metrics show Broad Dynamics of Usage



Metrics collected August 8, 2012

PLOS ALM Usage Patterns

Scholarly Usage	Broader Impact
Citations	HTML Views
PDF & XML Downloads	PLOS Website
PubMed Central	Social Networking
Reviews and Comments	Blogs and Media Coverage

The 'Reddit' effect

www.reddit.com/r/science/comments/1p4e9n/although_emotional_intelligence_has_generally/

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↑ 2766 ↓

Psychology Although emotional intelligence has generally been associated with prosociality, emotionally intelligent people may manipulate others' behaviors to suit their own interests using high-level capabilities to read and manage the emotions of others. [plosone.org](#)
submitted 20 days ago by [Libertatea](#)
[1447 comments](#) [share](#)

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↑ [-] [brattonWVU](#) 937 points 20 days ago
↓ "One participant realized that the other players were controlled by a computer program and thus was excluded from the analysis."
Like a boss.
[permalink](#)

Science

🔍 search reddit

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[10,972 upvotes](#) [8,206 downvotes](#)
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RESEARCH ARTICLE

137,355

VIEWS

2

SAVES

117

SHARES

The Relationship between Trait Emotional Intelligence and Interaction with Ostracized Others' Retaliation

Yuki Nozaki , Masuo Koyasu

Published: Oct 23, 2013 • DOI: 10.1371/journal.pone.0077579

Article

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Metrics

Comments

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Abstract

Background

Regulation of emotions in others is distinct from other activities related to trait emotional intelligence in that only such behavior can directly change other people's psychological states. Although emotional intelligence has generally been associated with prosociality, emotionally intelligent people may manipulate others' behaviors to suit their own interests using high-level capabilities to read and manage the emotions of others. This study investigated how trait emotional intelligence was related to interacting with ostracized others who attempt retaliation.

Method

- ▶ Abstract
- Introduction
- Method
- Results
- Discussion
- Acknowledgments
- Author Contributions
- References

Reader Comments (1)

Subject Areas

Behavior

Computers

Emotions

Games

Human intelligence

Personality traits

How can we predict impact?

- ALMs (particularly citations) are slow to accumulate.
- If we are to get rid of journal title as the means of identifying quality, we need a way of flagging up potentially impactful papers as soon as they are published.
- Can reviewers help?

Character Count: 0

***Confidential to Editor**

1. Do you have any potential or perceived competing interests that may influence your review? Please review our [Competing Interests policy](#) and declare any potential interests that you feel the Editor should be aware of when considering your review. If you have no competing interests, please write "I have no competing interests." (Limit 20000 Characters)

Character Count: 0

2. Did you receive any assistance in preparing this review (e.g. from a post-doc or graduate student)? If yes, please provide his/her name and title here. If you have chosen to reveal your identity to the authors in question 6 above, please include the name of the person who assisted you in the response to question 6 as well. (optional) (Limit 200 Characters)

Character Count: 0

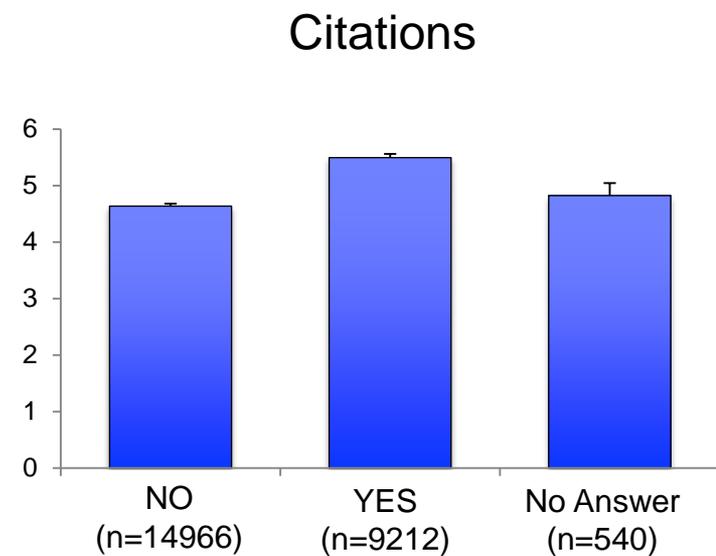
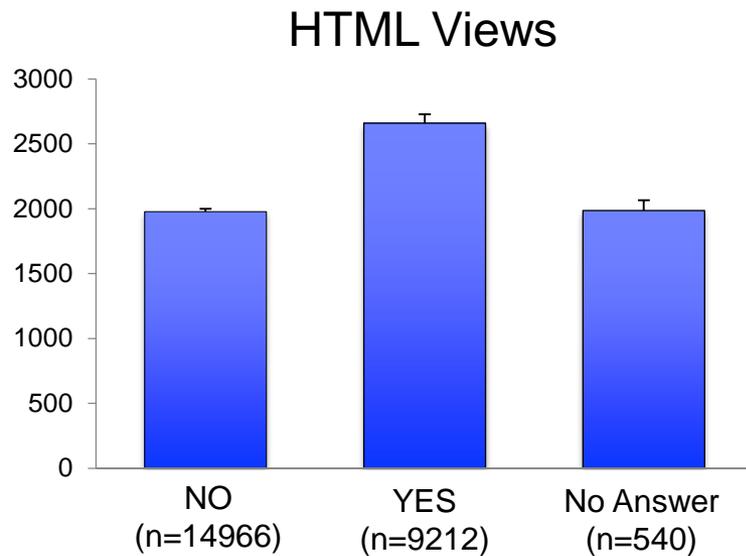
3. If accepted, do you think this submission should be highlighted on the PLOS ONE website? PLOS ONE does not evaluate manuscripts based on perceived significance or readership. We aim to provide tools for readers to filter and evaluate our publications. (optional)

Methods

- Extracted all reviews from manuscripts accepted in 2013 ($n \approx 25,000$)
- Any manuscript where at least one reviewer stated 'YES' was classified as being potentially impactful
- Compared HTML views and citations for each group

Results

- Do you think this paper should be highlighted on the PLOS ONE website?



Conclusions

- Megajournals offer a way of publishing first and assigning impact later.
- Usage can tell us a great deal about a paper, but is slow to accumulate.
- Peer reviewers do appear to be able to predict the future impact of a paper, and so offer a way of highlighting papers at the point of publication.

ALM: Measuring the Impact of Research

ALM Reports allows you to view article-level metrics for any set of PLOS articles as well as summarize and visualize the data results.

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Subject Area

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Julia Kravchenko, Igor Akushevich, Staci L. Sudenga, Craig M. Wilson, Emily B. Levitan, Sadeep Shrestha
Research Article | published 24 Jan 2012 | PLOS ONE
- Left-Right Asymmetry in the Sea Urchin Embryo: BMP and the Asymmetrical Origins of the Adult**
Jacob F. Warner, Deirdre C. Lyons, David R. McClay
Primer | published 09 Oct 2012 | PLOS Biology
- Up-Regulated Expression of Extracellular Matrix Remodeling Genes in Phagocytically Challenged Trabecular Meshwork Cells**
Kristine M. Porter, David L. Epstein, Paloma B. Liton
Research Article | published 18 Apr 2012 | PLOS ONE
- Benefits and Costs of Improved Cookstoves: Assessing the Implications of Variability in Health, Forest and Climate Impacts**
Marc A. Jeuland, Subhrendu K. Pattanayak
Research Article | published 13 Feb 2012 | PLOS ONE
- Putative Monofunctional Type I Polyketide Synthase Units: A Dinoflagellate-Specific Feature?**
Karsten Eichholz, Bánk Beszteri, Uwe John
Research Article | published 05 Nov 2012 | PLOS ONE
- Correlates of Poor Health among Orphans and Abandoned Children in Less Wealthy Countries: The Importance of Caregiver Health**
Nathan Thielman, Jan Ostermann, Kathryn Whetten, Rachel Whetten, Karen O'Donnell, the Positive Outcomes for Orphans (POFO) Research Team
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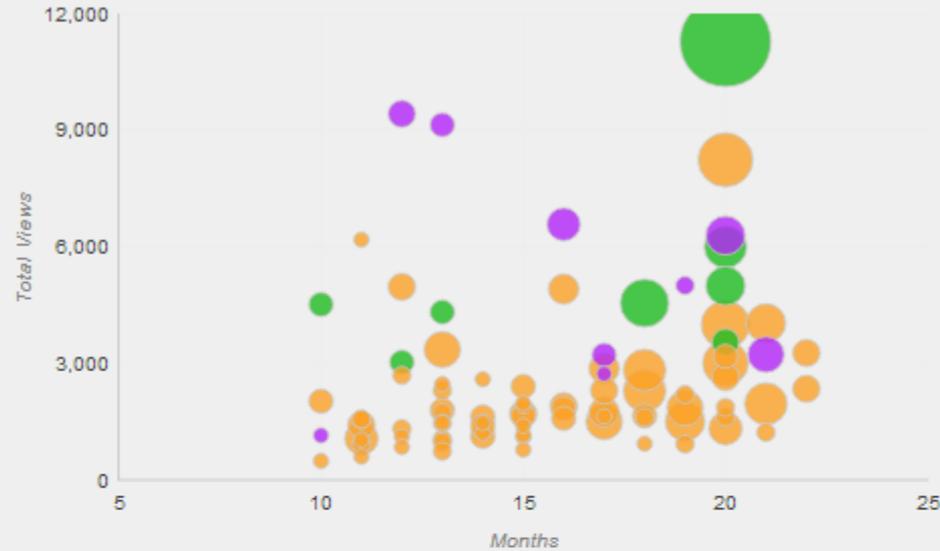
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Visualizations >

1 Article Usage and Citations as a function of Age

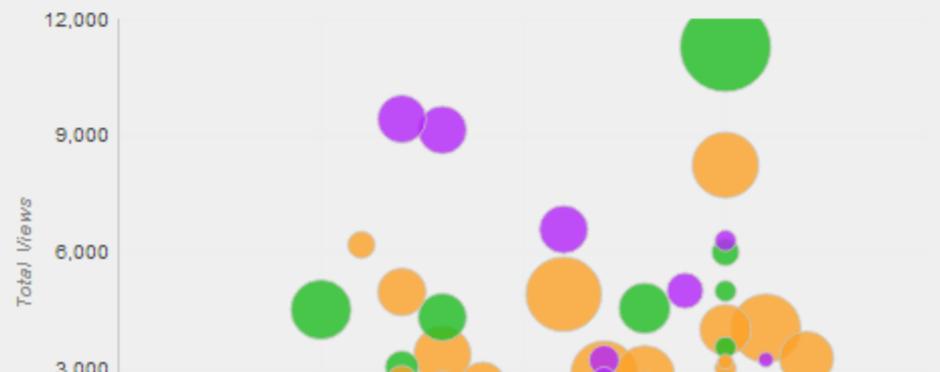


Share

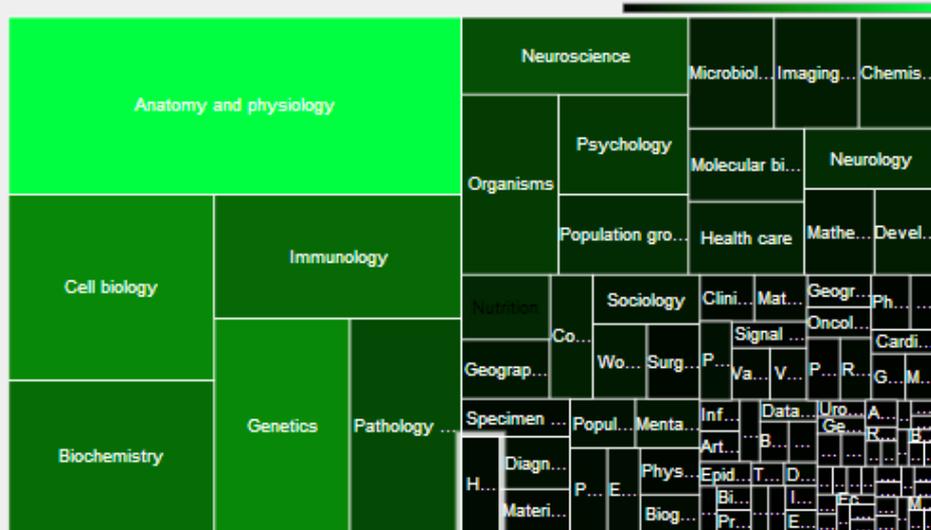
Total usage includes page views and downloads from PLOS and PMC. Bubble size correlates with Scopus citations and bubble color with the PLOS journal.

SOURCE: 88 published articles from January 05, 2012 to December 26, 2012

2 Article Usage and Mendeley Bookmarks as a Function of Time



3 Article Usage by Subject Area



Rectangle size correlates with the number of articles associated with the subject area and the color intensity with total usage.

SOURCE: 88 published articles from January 05, 2012 to December 26, 2012

4 Research Articles by Location

