

Peer Review Innovations

同行评审创新举措

- *Improving transparency, collaboration, recognition & efficiency*

Young WU (吴燕)

October 2018

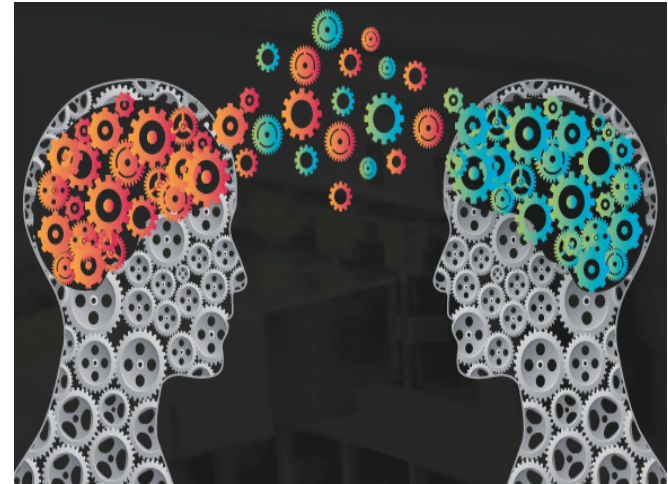
WILEY

Why innovations? (为什么要创新?)

Address issues of **reliability, transparency, and standardization etc.** in peer review.

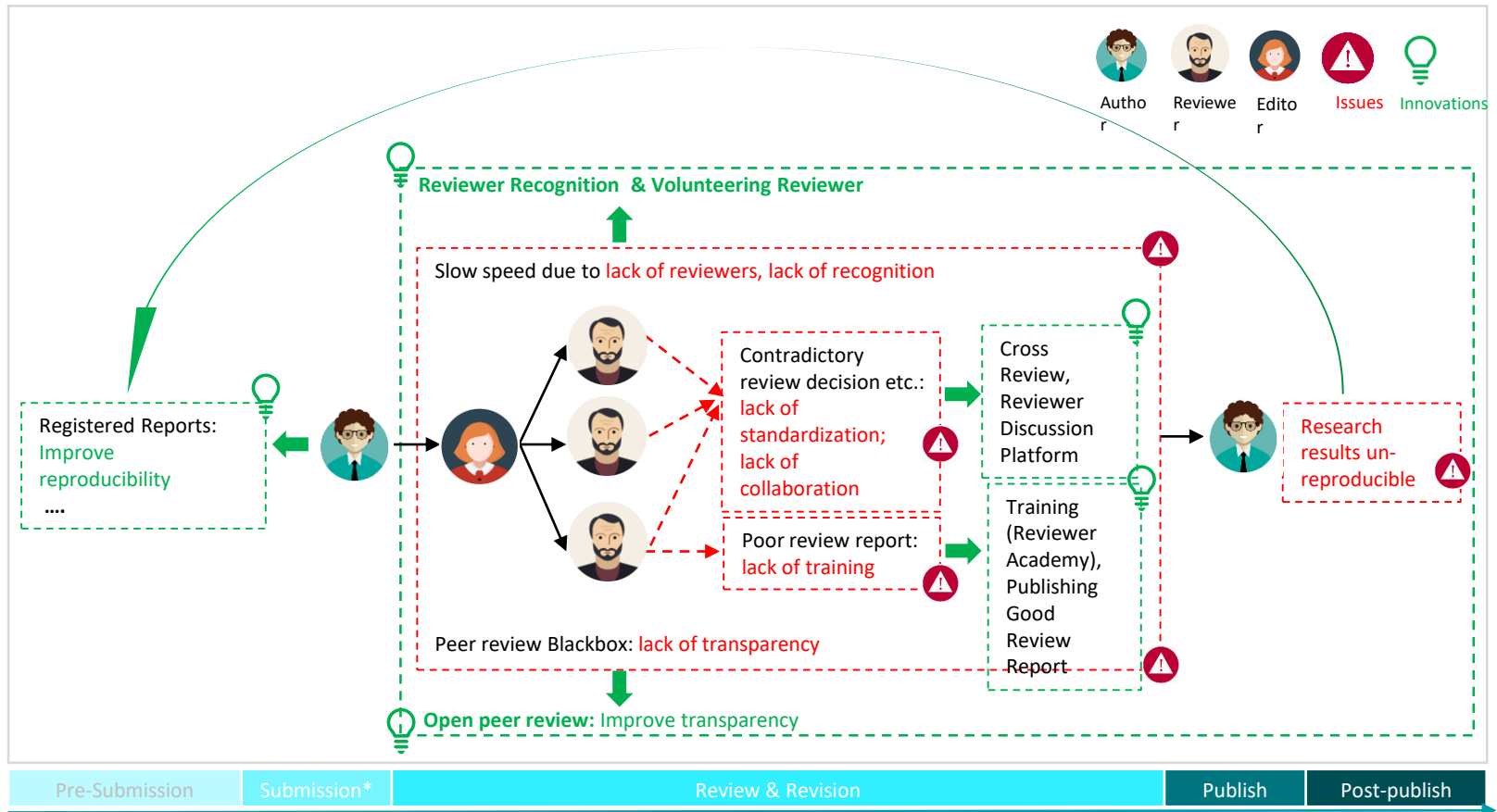
Peer review is considered the pillar that upholds the credibility and integrity of the scientific record. However, in its conventional form, peer review has drawn some criticism for issues like lack of transparency and inconsistency in output.

The entire academic community – including healthcare practitioners, authors, publishers, and reviewers themselves – is embracing and looking forward to **innovations** that address issues of **reliability, transparency, and standardization** in peer review.



<https://corporatesolutions.wiley.com/evolution-critical-role-peer-review-academic-publishing/>

Issues and Innovations in Peer Review: A brief overview (传统同行评审的挑战与应对：概览)



* Submission of full article

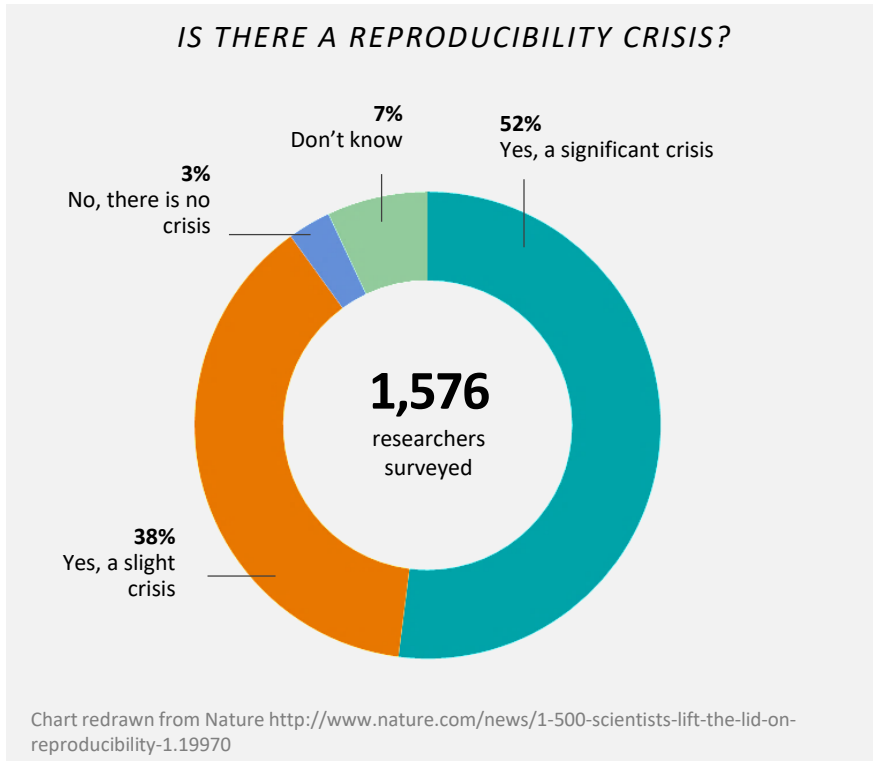
概要 Outline

- 1 Registered Reports – **Reproducibility**
- 2 Open Peer Review (Publish Peer Review Report) – **Transparency**
- 3 Reviewer Recognition – **Recognition**
- 4 Cross Review & Review Discussion Platform – **Collaboration**
- 5 Authors involved in Peer Review (Publication) Decision – **Efficiency and Transparency**
 - Peer review: eLife trials a new approach
 - Emerald launches a new open research publishing platform called **Emerald Open Research** – ([Link](#)): Authors are in control of the peer review process

Registered Reports:

Reproducibility

We all worry about reproducibility



Reproducibility

Problems with reproducibility are perhaps a more pervasive issue than either naïve fakery or outright fraud.

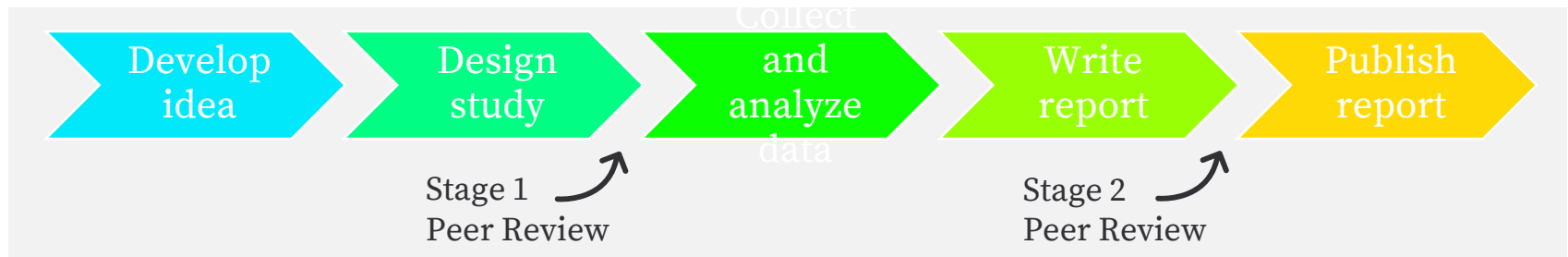
Nature journalists chose to poll scientists about a “crisis” (figure to the left). 52% of 1,576 replied “yes, there is a significant crisis.”

Why is that a surprise? It shouldn't be. Reproducing science is hard. Scientific research is a messy business. It's important we recognize that published research contains uncertainty and sometimes errors.

All the same, there's something here that we need to address.

Registered Reports enable methods review and validation

We offer researchers **Registered Reports** now



Peer review prior to data collection emphasizes the importance of the research question and the methods. High-quality studies are provisionally accepted. This eliminates questionable research practices, including low statistical power, selective reporting, and publication bias. More is here: <https://cos.io/rr/>

Transparency: Part of the solution

“Reproducibility of research can be improved by increasing transparency of the research process and products”



Brian Nosek, Center for Open Science

Brian Nosek and colleagues. Guidelines for Transparency and Openness Promotion (TOP) in Journal Policies and Practices “The TOP Guidelines” <https://osf.io/ud578/>

Open Peer Review - Transparency

Transparent peer review options for researchers at Wiley

We offer researchers **transparent** peer review

Wiley journals do transparent peer review now. 9 Wiley journals are among the 131 that signed ASAPBio's open letter promoting transparency in peer review. ECRs tell us they want it. Our own experience and info, like from ASAPbio, tells us how to do it. We've addressed all the objections. Wiley journals are enthusiastic. **But all our peer review content is in Supporting Information. It's not very robust.** So we're making our process better through the end of this year and into 2019.



<http://asapbio.org/letter>

September
2018: The
world's first
scalable open
peer review
workflow

In 57 days, **123** of 137 authors chose transparent peer review (Compare this with **3** for the same number of articles before)



Publish

We give authors the option to choose to publish unsigned (or signed) peer review reports, author responses, and editor decision letters with journal articles for readers to learn from.



Reward

We enable recognition and reward for the peer review and editorial work that's part of a published study but that otherwise remains hidden



Clarify


We make peer review more accountable, we help address bias, and we make the value of the peer review process itself clearer




Flex

Our approach is compatible with single- and double-blinded peer review, as well as with open peer review, and can be signed or unsigned

<https://newsroom.wiley.com/press-release/bringing-greater-transparency-peer-review-wiley-and-clarivate-analytics-partner-launch>

ORIGINAL ARTICLE |  Full Access |

Genetic variant spectrum in 265 Chinese patients with hemophagocytic lymphohistiocytosis: Molecular analyses of *PRF1*, *UNC13D*, *STX11*, *STXBP2*, *SH2D1A*, and *XIAP*




X. Chen, F. Wang, Y. Zhang, W. Teng, M. Wang, D. Nie, X. Zhou, D. Wang, H. Zhao, P. Zhu, H. Liu 

First published: 17 April 2018 | <https://doi.org/10.1111/cge.13363>

Funding information Youth Science Fund Project of National Nature Science Foundation of China, Grant/Award Number: 81102211

The peer review history for this article is available at <https://publons.com/publon/10.1111/cge.13363/>

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Details on Open Peer Review & The Platform to Facilitate the Process

Research Square to offer a service of professionally produced video abstracts. Learn more about video abstracts at www.wileyauthors.com/videoabstracts and purchase one for your article at <https://www.researchsquare.com/wiley/> or through your Author Services Dashboard. If you have any questions, please direct them to videoabstracts@wiley.com.

DECISION LETTER BY
Reiner A. Veltia

CITE THIS DECISION LETTER
DOI
10.1111/cge.13363/v3/decision1

ENDORSED BY
+

ONGOING DISCUSSION (0 COMMENTS - CLICK TO TOGGLE)
Leave a comment

POST COMMENT

figure 3, variants of unclear significance should be distinguish from likely pathogenic/pathogenic variants according to the ACMG classification.

REVIEWED BY
Anonymous

CITE THIS REVIEW
DOI
10.1111/cge.13363/v2/review2

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+

ONGOING DISCUSSION (0 COMMENTS - CLICK TO TOGGLE)
Leave a comment

POST COMMENT

measuring human peripheral NK cell activity with flow cytometry in diagnosis for hemophagocytic lymphohistiocytosis]. Zhongguo Shi Yan Xue Ye Xue Za Zhi. 2009;17:1497-1501.

AUTHOR RESPONSE BY - I AM AN AUTHOR
X. Chen F. Wang Y. Zhang W. Teng
D. Nie X. Zhou H. Zhao P. Zhu
H. Liu

CITE THIS AUTHOR RESPONSE
DOI
10.1111/cge.13363/v2/response1

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ONGOING DISCUSSION (0 COMMENTS - CLICK TO TOGGLE)
Leave a comment

POST COMMENT

Detailed - **Editor's Decision letter** published with DOI, it is Citable.

It is available for further comments and further discussion

Detailed – **Peer Review Report** published with DOI, it is Citable.

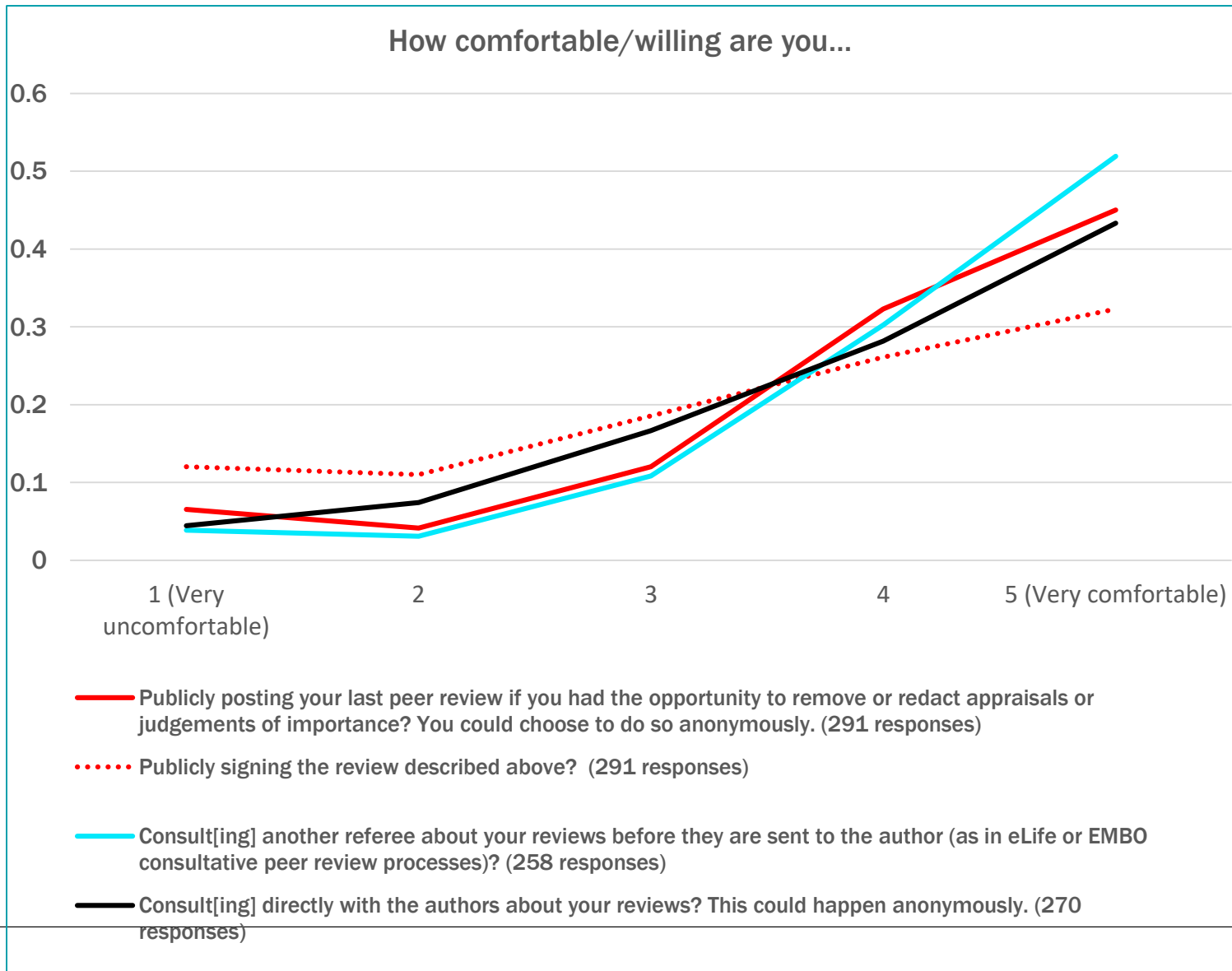
It is available for further comments and further discussion.
Reviewer decides to stay anonymous or not.

Detailed – **Author Response** published with DOI, it is Citable.

It is available for further comments and further discussion.

[Details: https://publons.com/publon/10.1111/cge.13363/](https://publons.com/publon/10.1111/cge.13363/)

Feedback: Transparency – reviewer perspective



More details refer to:
ASAPbio releases open letter
on the publication of peer
review reports – ([Link](#))

 ASAPbio

Reviewer Recognition

Recognition

We enable
researchers to
claim credit for
peer review

Wiley reviewers

114,552+

Wiley reviews

507,029+
publons

By default, the content of reviews is not publicly displayed on Publons.

See also: *Transparent peer review*

When researchers review for participating Wiley journals they can opt-in to get credit on Publons. Researchers can then claim their reviews.

Wiley journals on Publons <https://publons.com/journal/?publisher=23>

Collaborative peer review

Cross Review
Reviewer Discussion Platform

Why and What?

- Most reviewers want to see other referee reports and be informed about the final decision.
- In case of conflicting recommendations, editors need more clarification.
- ...



- **Cross-Review Pilot (CRP)**, evaluated a system in which, once all reviews were complete, manuscript reviewers were offered the opportunity to read the comments of the other reviewers and provide additional feedback to the editor regarding the study or the other reviewers' comments.
- **Reviewer Discussion Pilot (RDP)**, reviewer discussion functionality, where reviewers were invited to read each other's evaluations and engage in discussion among themselves and with the handling editor via an interactive commenting feature after all the reviews had been completed.

<http://crosstalk.cell.com/blog/towards-a-more-transparent-and-collaborative-review-process>

Feedback on the Pilots

Reviewers appreciate more transparency

Increased interactions are helpful

Not all reviewers participated in the discussion

Out of the reviewers we invited to offer additional comments, about half (46%) took part in the discussions in the context of RDP, and about two-thirds (67%) in the context of CRP. For RDP, we asked those who did not participate to tell us why, and the two most frequent reasons we heard were a lack of time and the fact that paper did not require any further comments.

Reviewer value editorial guidance

In general, reviewers in RDP thought that, for the followup discussion to be productive and impactful, the handling editor should provide guidance and direction. Under those conditions, reviewers thought that these additional interactions are worth the additional time and effort because they offered an opportunity for reviewers to learn from each other as well as the editor.

<http://crosstalk.cell.com/blog/towards-a-more-transparent-and-collaborative-review-process>

Peer review

eLife trials a new approach

It's the author who decides when to publish his/her article

eLife authors are being invited to take part in a trial in which they decide how to respond to the issues raised during peer review

Blog <https://elifesciences.org/inside-elifesciences/2905802e/peer-review-elifesciences-trials-a-new-approach>

Article <https://elifesciences.org/articles/36545>

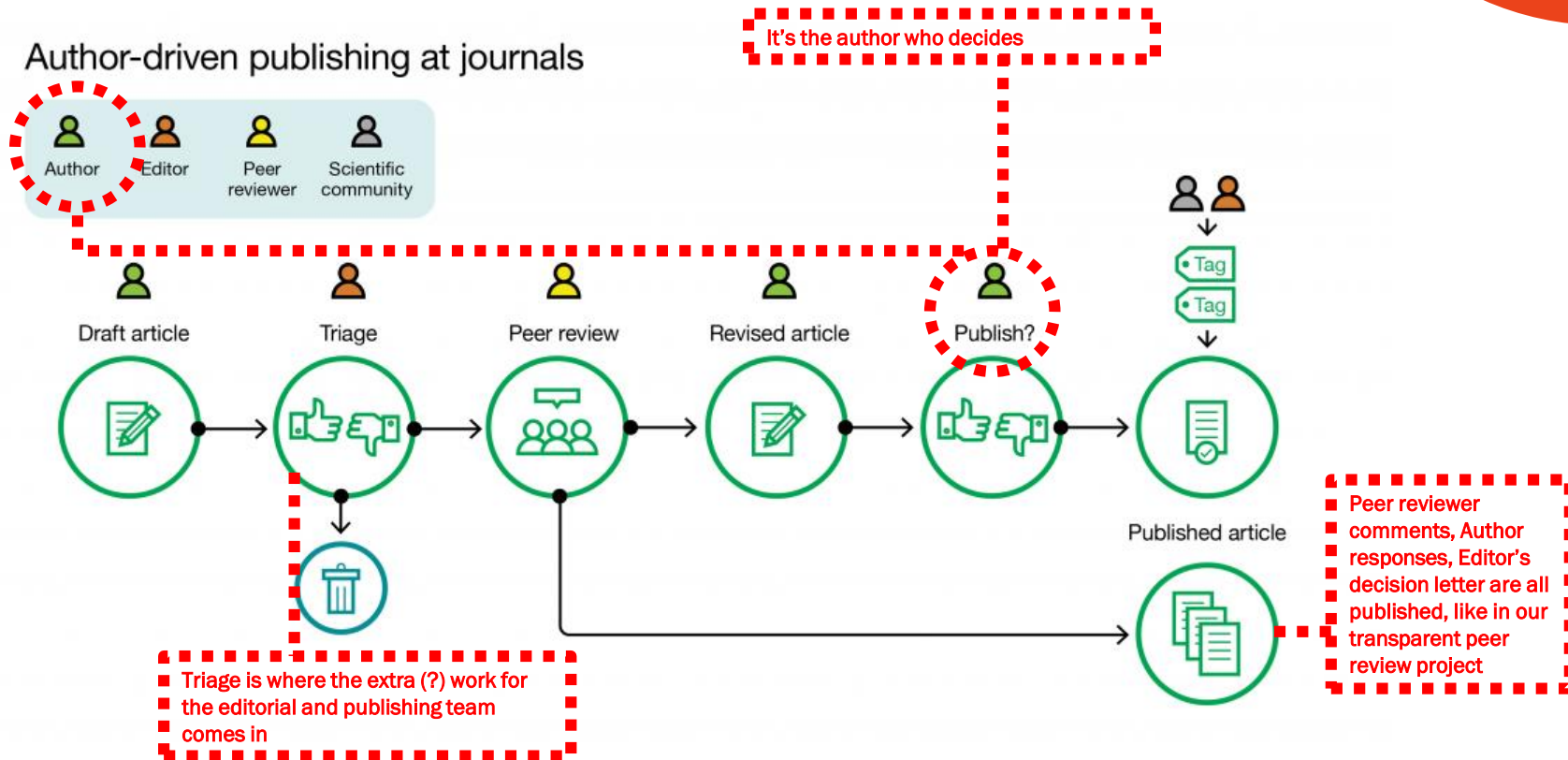
Inspired by <http://asapbio.org/digital-age>

Headlines

- editor decides to invite a manuscript for full peer review
- journal commits to publishing the work (with transparent peer review)
- after consultation amongst the referees, editor compiles a consolidated decision letter that lists all the points that the authors must address in their response (i.e. either in the manuscript or their letter)
- authors decide how to respond, submit a revised manuscript and a response letter (or withdraw)
- editor evaluates the response (more later)
- editor publishes everything

<https://elifesciences.org/inside-elife/2905802e/peer-review-elife-trials-a-new-approach>

Workflow - illustrated and inspired asapbio



Peer review process can focus on how the work can be strengthened

Rather than the journal name being used as a proxy for the possible quality of an article, the journal becomes a venue for the critical and transparent evaluation of work that is judged to be making important claims for a field

By removing the gatekeeping role of reviewers, the peer review process can focus on how the work can be strengthened

If the gate-keeping function is removed and the focus becomes high-quality evaluation of selected work, journals would be able to publish more of the content that is submitted to them

If broadly adopted this would save a huge amount of time and resources for everyone

<https://elifesciences.org/articles/36545>

Emerald Open Research

Authors are in control of the peer review process

- Emerald launches a new open research publishing platform called Emerald Open Research – ([Link](#)): Authors are in control of the peer review process.
- The platform will use a model of immediate publication followed by transparent invited peer review, complete with full article versioning. Authors are in control of the review process, allowing them to select expert peer reviewers, to respond to comments or questions about their research, and publish revised versions of their articles when and how they wish.

To be monitored.....



Thank you !