

Copyright © 2019 by KAD International All rights reserved.
Published in the Ghana

http://kadint.net/our-journal.html



Articles and Statements

Comment Moderation and Freedom of Speech at PubPeer: Challenges and Issues

Jaime A. Teixeira da Silva a, *

^a P. O. Box 7, Miki-cho post office, Ikenobe 3011-2, Kagawa-ken, 761-0799, Japan

Abstract

PubPeer (https://www.pubpeer.com/) is currently very likely the most visible and coordinated post-publication peer review site for academics and scientists, even more than PubMed Commons, which has now become obsolete because it allows for anonymous comments and critiques. In order for this site to continue to gain the trust and respect of scientists, it needs to display complete transparency and open communication with the public. Little is known about the founders and the management of this organization, California-based The PubPeer Foundation, although two of its founders, Boris Barbour and Brandon Stell, work at French research institutes. It is believed that in November of 2016, The PubPeer Foundation received US\$ 412,800 in funding from the Laura and John Arnold Foundation. However, the public would not have been able to glean this information from looking at the "About us" page, even after PubPeer upgraded to version 2.0 on June 15, 2017. This large financial donation is linked to John Arnold's "war on bad science". Opacity regarding these facts, compounded by comment removal querying this funding and why it had not been publicized at that time, and how this funding is currently being used, underscores trust in PubPeer, its founders, and its funders. It is unclear who precisely is the comment moderator at PubPeer, and comments come and go, are edited and erased, at the will of the anonymous moderator. If PubPeer hid basic information from the public for almost 7 months, continues to show signs of content (i.e., comment) manipulation and infringement of commentator freedom of speech by impeding the publication of comments, then what moral voice does PubPeer have to request the transparent participation of scientists, editors, and publishers on its site?

Keywords: Boris Barbour, Brandon Stell, cancer, crisis in science, Laura and John Arnold Foundation, opacity vs transparency, post-publication peer review, psychology, PubMed Commons.

Highlights

- PubPeer is a post-publication peer review site.
- •The PubPeer Foundation received US\$ 412,800 from the Laura and John Arnold Foundation.
 - Comments (i.e., public records) continue to be manipulated and deleted at PubPeer.
 - The precise comment moderator(s) at PubPeer is/are unknown.
 - Commentator freedom of speech is limited at PubPeer.

_

E-mail address: jaimetex@yahoo.com (J.A. Teixeira da Silva)

^{*} Corresponding author

"Crisis" in science publishing, increasing scrutiny, and post-publication peer review

One definition for science's apparent current crisis is "the inability to detect errors/fraud, lack of transparency, lack of reliability, potential for bias, potential for unethical practices, lack of objectivity, inconsistencies amongst reviewers, lack of recognition and motivation of reviewers" (Das, 2016). Post-publication peer review (PPPR) may be a realistic solution to resolving some of science publishing's ills (Wicherts, 2017; Brembs, 2018), but its use and implementation requires the coordinated use by all of publishing's stakeholders (e.g., authors, editors, publishers, funders) (Teixeira da Silva et al., 2017). Peer reviewers and editors are the key gate-keepers who are expected to maintaining quality control of the published literature (Teixeira da Silva, 2017a), but perverted incentives, including increasing reliance on metrics to quantify "quality" (Teixeira da Silva, Bernès, 2018), has led to the considerable corrosion and abuse of the biomedical literature, although the extent to which this has taken place is currently difficult to quantify. PPPR has presented itself as one of the most powerful means to correct errors in the literature, although the level of correction that is required is still unclear, and still relies heavily on editorial independence (Teixeira da Silva, 2016a). If publishing were to function perfectly, then all errors would be corrected, but this is not always possible, for multiple reasons. Extreme errors that invalidate results, duplications, or misconduct are often subject to retractions, and these most often cast a poor light on authors, editors, journals and the publishers involved (Teixeira da Silva, 2016b). Given this negative stigma attached to retractions (Teixeira da Silva, Al-Khatib, 2019), there is still a wide range of responsiveness to PPPR, even by those journals and publishers that claim to follow the strictest forms of publishing ethics, namely the publishing industry's Committee on Publication Ethics (COPE).

In recent times, some journals have experienced their very first retraction, which may represent a highly improbable or unexpected event, i.e., a "black swan" publishing event (Teixeira da Silva, 2015a). Such low levels of corrections or retractions in such journals may also indicate that their published literature might not yet have been subjected to rigorous PPPR, or that the editors and publisher might be resisting its review or correction, to avoid reputational damage. In such cases, editors may be violating their basic responsibilities towards the integrity of the published record (Teixeira da Silva, Dobránszki, 2018). Many journals and publishers are coming under increased scrutiny by its authorship, readership, concerned editors, or members of the public. In one such case, *Molecular and Cellular Biology**, the journal and publisher (American Society for Microbiology) decided to complete a thorough PPPR of the figures in published papers in a certain window of time to ascertain the extent of problematic papers[†] after a spate of papers had been highlighted on the PPPR whistle-blowing site, PubPeer*.

PubPeer used to have a journal-by-journal classification§ which was scrapped when it upgraded to the beta version 2.0** on June 15, 2017. That classification system was useful to identify "black swan" journals and to identify journals that potentially had a too-good-to-be-true publication record as well as those that had a history of problematic papers. Although no public explanation was provided by PubPeer, the elusive Peer o, which is/are presumably the PubPeer moderator(s), did offer some insight into why the "Topics" *** page was scrapped, stating "In the near future we will make them easier to find but we do not plan to provide a mechanism that would allow users to create new ones. Although we agree that some were very useful, the topics that you discovered on the old site were a small fraction of the total number that were created; the overall majority were a violation of PubPeer rules or comments about a specific publication and were a moderation nightmare. However, if in the future you have an idea for a thread on PubPeer that you think would be useful for everyone please send us an email." The topics page allowed for peers to opine on specific issues, but the anonymous platform failed to prevent abuses, i.e., comment

^{*} http://mcb.asm.org/content/37/11/e00199-17.full

[†] http://www.the-scientist.com/?articles.view/articleNo/49642/title/Journal-Cleans-Up-Image-Archives/

^{*} https://www.pubpeer.com/

[§] https://web.archive.org/web/20170210135854/https://www.pubpeer.com/journals/

^{**} https://www.pubpeer.com/publications/pubpeer2

^{††} https://web.archive.org/web/20150319025106/https://pubpeer.com/topics

moderation failed to some extent at PubPeer. As a consequence, important topics that allow academics to be aware of challenges in biomedical publishing ethics, such as the continued inability to hold some COPE member journals, editors and publishers accountable for what appears to be a vastly corroded (i.e., poorly academically vetted) literature*, compounded by opaque, unaccountable and unresponsive PubPeer management, made such topics fade from public view.

PubPeer has always been surrounded by controversy because it allows both registered and anonymous commentators to critique the literature or academics. Unlike PubMed Commons, which only used to allow registered commentators to add comments that were subjected to strict moderation overseen by Hilda Bastian, prior to the sudden closure of PubMed Commons in mid-February 2018 (Teixeira da Silva, 2018a), one of the concerns about PubPeer is that its moderators may be biased, inconsistent and cannot be held accountable, as indicated above for Peer o, whose identity remains unknown. The argument here is that a PPPR site must display the highest possible levels of honesty, trust, respect, transparency, and accountability to be considered a true journal club (Teixeira da Silva et al., 2017). From early in 2017, a number of journal clubs had begun to emerge and register formally at PubMed Commons[†]. As equally as PubPeer was hiding the identity of its moderators, so too was PubMed Commons hiding the identity of its team[‡]. This opacity displayed by PubPeer and PubMed Commons may, in fact, be a way to conceal possible conflicts of interest (COIs), given the amount of interaction that takes place between PubPeer and Retraction Watch, a popular blog, as exemplified by its call to coercion (Teixeira da Silva, 2017b) or its potentially bad advice to scientists (Teixeira da Silva, 2017c), and between Hilda Bastian and these organizations. Hidden relationships between PubPeer and Retraction Watch have already been documented (Teixeira da Silva, 2017d) while the inter-mingling between these science watchdogs and COPE raises concerns about the neutral or bias-free nature of any of these parties (Teixeira da Silva, 2019a). This paper presents additional evidence that shows hidden facts regarding the financial support of PubPeer and suppression of comments. These issues underscore the overall trust that the academic community may have on this site and its possible objectives.

PubPeer funding, possible hidden conflicts of interest, and suppressed freedom of speech

In September of 2015, PubPeer revealed its founders (Couzin-Frankel, 2015): Brandon Stell, an American brain physiologist at Paris Descartes University in Paris§, Boris Barbour**, Director of the Cerebellum Group at IBENS-ENS (CNRS) at PSL Research University, also in Paris, and Gabor Brasnjo, a patent attorney. In a bid to obtain financing, Stell created The PubPeer Foundation in California as a "nonprofit public benefit corporation with 501(c)(3) nonprofit status" ^{††}, thus having to reveal his identity that he had kept secret for several years while he ran PubPeer as an "underground" organization. Stell is the President of this organization while Barbour is the treasurer, thus overseeing finances. On or near November 8, 2016, The PubPeer Foundation received US\$ 412,800 in funding from the Laura and John Arnold Foundation (LJAF) for general operations from 2016-2019 (Fig. 1B)^{##}, as part of a wider "war on bad science" §§. Almost seven months later, this information had still not appeared on the PubPeer "About" page (Fig. 1A), reflecting serious concerns about the transparency of this organization and/or its leadership (Teixeira da Silva, 2018b). With the launch of the beta version, PubPeer 2.0, in mid-June of 2017, a tiny acknowledgement was made to this fact (Fig. 1C), but even so, the link to the correct funding page on the LJAF site was not linked, and the precise date when that funding was received was not indicated.

This aspect alone should have raised alarm bells and red flags among academics. When a whistle-blowing website that claims to be an online journal club and that specializes in criticism of

^{*} https://www.pubpeer.com/publications/2E91E8916236A6EE03F372E64FBBAF

[†] https://www.ncbi.nlm.nih.gov/pubmedcommons/journal-clubs/about/

^{*} https://pubmedcommonsblog.ncbi.nlm.nih.gov/author/pubmedcommonsblog/

[§] http://www.biomedicale.parisdescartes.fr/physiocer/?page id=2983

^{**} http://www.ibens.ens.fr/spip.php?rubrique32&lang=en

^{††} https://www.pubpeer.com/about

^{**} http://www.arnoldfoundation.org/grants/ (listed under Research Integrity)

^{§§} https://www.wired.com/2017/01/john-arnold-waging-war-on-bad-science

the biomedical literature by profiling scientists, editors, journals and publishers, often by masked individuals with an unknown, undisclosed or possibly biased agenda that may or may not be academic, but then fails to disclose this information to the public (i.e., lack of openness, full disclosure, transparency), and then expects such values from its commentators, then this may be a cause for concern. Concerned with this opacity regarding funding, I added a comment as an anonymous commentator to a PubPeer page in December of 2016 where my posted comment could be recorded, requesting why this important information had not been released to the public*. My comment was not approved, nor published (Fig. 1D). This indicates that PubPeer was not, at that time, operating in a fully honest, open, transparent, or accountable manner, at least not to the public. By hiding this aspect of financing from the public for over 7 months, and by employing unfair and excessive comment moderation that undermines basic principles of freedom of speech, even if – or especially if – they are queries or opinions that are critical of PubPeer, trust in PubPeer may become eroded.

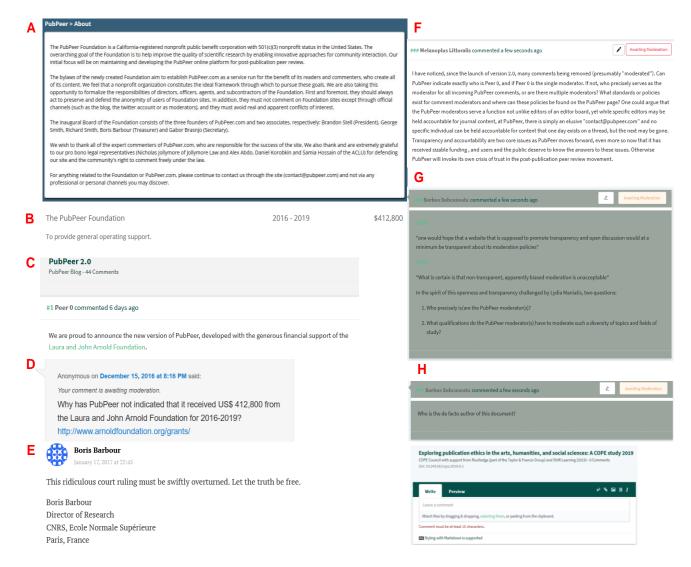


Fig. 1. Evidence of hidden financial conflict of interest by PubPeer (A), confirmation that US\$ 412,800 in funding was received from the Laura and John Arnold Foundation (B). Only on June 15, 2017, an estimated 7 months after receiving this funding, did PubPeer make a short acknowledgement, but failing to indicate any specific details such as how funding was being used and when funding had been received (C). A query related to this funding was deliberately suppressed (D). Boris Barbour is a passionate defender of freedom of speech, transparency and

^{*} http://blog.pubpeer.com/?p=190#comment-427 (comment not visible because not approved)

sharing information, as was displayed on January 17, 2017, in his defense of Leonid Schneider, a science watchdog, accused of libel in two German courts (E). A comment made on June 20, 2017, on PubPeer beta version 2.0 regarding the identity of the PubPeer moderator and moderation rules was not approved for publication (F), nor was a similar comment made anonymously on September 12, 2019, approved (G). A simple query regarding the precise identity of the authors of a COPE statement was also not approved. In essence, the lack of comment approval reflects the suppression of freedom of speech and displays communication opacity. All screenshots used from publicly visible sites under the fair-use agreement for PPPR (Teixeira da Silva, 2015b).

The issue of freedom of speech and first amendment rights in the US was clearly exemplified in a court case brought against PubPeer and its anonymous commentators by Fazlul Sarkar (Teixeira da Silva, 2018c). PubPeer's Barbour clearly valued open speech, having been given ample opportunity to openly express his discontent at PubMed Commons in response to criticisms of PubPeer by a plant physiologist, Prof. Michael Blatt*. Barbour appears to be an avid defender of freedom of speech, coming to the defense of another science watchdog, Leonid Schneider (Fig. 1E)[†], who describes himself on Twitter as a "certified Troll with slanderous website" *, and who had the freedom to accuse a high-ranking ethics journal of being "predatory" (Teixeira da Silva, 2019b), making this suppression of freedom of speech at PubPeer worrisome, and somewhat hypocritical. This apparent double standard employed by PubPeer and/or its management was confirmed on June 20, 2017, when I posed a question at PubPeer regarding the identity of the moderator (Peer o), a question that was not approved for publication (Fig. 1F). In response to public criticisms made by Lydia M. Maniatis regarding PubPeer's moderation and commenting policies§, I added an anonymous comment on September 12, 2019, that requested that the identity of the PubPeer moderator(s), and also to explain their qualifications to be able to moderate such a wide range of topics that are critiqued on their blog. That comment was also never published (Fig. 1G). Furthermore, a short query requesting the precise identity of the authors of a COPE Council statement was not published (Fig. 1H)**. These suppressed comments cement the notion that freedom of speech is being suppressed to some extent by PubPeer and that this site and its moderator(s) are employing censorship of comments that may be perceived to be critical of PubPeer, or their possible allies.

Implications of PubPeer opacity, inadequate comment moderation, and suppression of freedom of speech

In June of 2018, a reporter in France's Le Monde characterized PubPeer's mode of moderation as imperfect^{††}. The apparent double-standard being practiced by PubPeer with respect to freedom of speech and fair and moderated commenting coupled with public shaming and humiliation (Teixeira da Silva, 2018d) should be of great concern to academics, especially those who are profiled on this website. Exposure of this topic reveals that many unanswered questions remain: How many comments are being approved, or not, by commentators? When, and under what circumstances, are comments deleted? Why are comments deleted if they are initially approved? When are comments manipulated? Who precisely moderates comments, anonymous and registered? What criteria are being applied during comment moderation? Is there a formal process to challenge comments, or to request their removal? Comment-related concerns, including the ease with which PubPer is able to manipulate and erase them, equivalent to erasing public records, calls into question who precisely owns comments on that whistle-blowing website, i.e., if comments can be copyrighted (Teixeira da Silva, 2018e). Is there a board of moderators, similar to an academic journal's editorial board, to self-regulate PubPeer? Can the public hold PubPeer

_

^{*} https://www.ncbi.nlm.nih.gov/myncbi/boris.barbour.1/comments/

[†] https://forbetterscience.com/2017/01/17/open-letter-in-support-of-my-investigation-of-trachea-transplants-in-germany-by-rafael-cantera/comment-3529

^{*} https://twitter.com/schneiderleonid

[§] https://pubpeer.com/publications/pubpeer2#139; https://pubpeer.com/publications/pubpeer2#140

^{**} https://pubpeer.com/publications/BE3D071504F6F7F2D797B2009F5CB9

^{††} https://twitter.com/Gjpvernant/status/1004017602031767553

accountable? PubPeer, like other science watchdogs (Teixeira da Silva, 2016c), is purportedly claiming to be working for the good of science to resolve some of its replication and trust problems through PPPR. Yet, as evidenced to some extent in this paper, important information regarding the financing of PubPeer had been temporarily hidden from the public, and queries regarding this failure to disclose detailed information were suppressed. Valid queries related to comment moderation were also suppressed. The scientific community needs to reflect on whether it can trust the critique of published academia's integrity in the hands of PubPeer, where it is currently not possible to hold the "moderator" fully responsible, where apparent contrasting standards are practiced, and where there is evidence of a lack of openness and transparency, and suppressed freedom of speech. PubPeer's Barbour espouses such principles in public, as evidenced by claims, from May 28-31, 2017, where he was a keynote speaker of the "Transparency and Accountability" section of the 5th World Conference on Research Integrity, noting that transparency lies at the heart of PubPeer*. The current focus of PPPR by the LJAF at PubPeer appears to be on cancer research*, coordinated with or organized by the Open Science Framework*, and psychology.

Conflicts of interest

The author's work has been profiled by PubPeer and by its "partner" organization, also funded by the LJAF, Retraction Watch. The author has used PubPeer, both as a signed, registered commentator, and anonymously. The author has written several papers and commentaries related to PubPeer, Retraction Watch, Leonid Schneider, and COPE, in a bid to better understand the role of these watchdogs in science ethics and integrity. The author declares no other apparent conflicts of interest related to this topic.

References

Brembs, 2018 – Brembs, B. (2018). Prestigious science journals struggle to reach even average reliability. Frontiers in Human Neuroscience, 12(37). DOI: 10.3389/fnhum.2018.00037

Couzin-Frankel, 2015 – Couzin-Frankel, J. (2015). PubPeer co-founder reveals identity – and new plans. Nature, 349(6252): 1036. DOI: 10.1126/science.349.6252.1036

Das, 2016 – Das, A.K. (2016). 'Peer review' for scientific manuscripts: Emerging issues, potential threats, and possible remedies. *Medical Journal Armed Forces India*, 72(2): 172-174. DOI: 10.1016/j.mjafi.2016.02.014

Teixeira da Silva et al., 2015a – *Teixeira da Silva, J.A., Dobránszki, J., Al-Khatib, A.* (2017). Fortifying the corrective nature of post-publication peer review: Identifying weakness, use of journal clubs, and rewarding conscientious behavior. *Science and Engineering Ethics*, 23(4): 1213-1226. DOI: 10.1007/s11948-016-9854-2

Teixeira da Silva, 2015a – *Teixeira da Silva, J.A.* (2015). The "black swan" phenomenon in science publishing. *Journal of Educational and Social Research*, 5(3): 11-12. DOI: 10.5901/jesr.2015.v5n3p11

Teixeira da Silva, 2015b – *Teixeira da Silva*, *J.A.* (2015). Fair use in post-publication peer review. *Journal of Educational and Social Research*, 5(3): 13. DOI: 10.5901/jesr.2015.v5n3p13

Teixeira da Silva, 2016a – *Teixeira da Silva, J.A.* (2016). An error is an error... is an erratum. The ethics of not correcting errors in the science literature. *Publishing Research Quarterly*, 32(3): 220-226. DOI: 10.1007/s12109-016-9469-0

Teixeira da Silva, 2016b – *Teixeira da Silva, J.A.* (2016). Retractions represent failure. *Journal of Educational and Social Research*, 6(3): 11-12. DOI: 10.5901/jesr.2016.v6n3p11

Teixeira da Silva, 2016c – Teixeira da Silva, J.A. (2016) Science watchdogs. Academic Journal of Interdisciplinary Studies, 5(3): 13-15. DOI: 10.5901/ajis.2016.v5n3p13

Teixeira da Silva, 2017a – *Teixeira da Silva, J.A.* (2017). The ethics of peer and editorial requests for self-citation of their work and journal. *Medical Journal Armed Forces India*, 73(2): 181-183. DOI: 10.1016/j.mjafi.2016.11.008

_

^{*} http://wcri2017.org/program/keynote-speakers; http://wcri2017.org/program/plenary-sessions

[†] https://www.pubpeer.com/search?q=cancer

^{*} https://osf.io/e81xl/wiki/home/

Teixeira da Silva, 2017b – *Teixeira da Silva, J.A.* (2017). The profoundly unethical nature of Retraction Watch's call for coercion. *American Journal of Information Management*, 2(3): 43-46. DOI: 10.11648/j.infomgmt.20170203.11

Teixeira da Silva, 2017c – Teixeira da Silva, J.A. (2017). The Retraction Watch retraction: How bad advice became worse advice for scientists and academics. *Eubios Journal of Asian and International Bioethics*, 27(4): 136-140.

Teixeira da Silva, 2017d – Teixeira da Silva, J.A. (2017). Why does PubPeer not acknowledge Retraction Watch as a media source? *Journal of Advocacy, Research and Education*, 4(1): 5-8.

Teixeira da Silva, 2018a – *Teixeira da Silva*, *J.A.* (2018). PubMed Commons closure: A step back in post-publication peer review. *AME Medical Journal*, 3(30). DOI: 10.21037/amj.2018.02.07

Teixeira da Silva, 2018b – Teixeira da Silva, J.A. (2018). The opacity of The PubPeer Foundation: What PubPeer's "About" page tells us. Online Information Review, 42(1): 282-287. DOI: 10.1108/OIR-06-2017-0191

Teixeira da Silva, 2018c – Teixeira da Silva, J.A. (2018). Reflection on the Fazlul Sarkar vs. PubPeer ("John Doe") case. Science and Engineering Ethics, 24(1): 323-325. DOI: 10.1007/s11948-016-9863-1

Teixeira da Silva, 2018d – *Teixeira da Silva, J.A.* (2018). Freedom of speech and public shaming by the science watchdogs. *Journal of Advocacy, Research and Education*, 5(1): 11-22.

Teixeira da Silva, 2018e – *Teixeira da Silva, J.A.* (2018). The issue of comment ownership and copyright at PubPeer. *Journal of Educational Media & Library Sciences*, 55(2): 181-191. DOI: 10.6120/JoEMLS.201807_55(2).e001.BC.BE

Teixeira da Silva, 2019a – Teixeira da Silva, J.A. (2019). Debunking the loss of the Committee on Publication Ethics (COPE) moral compass: Conspiracy theory, or genuine cause for concern? Eubios Journal of Asian and International Bioethics, 29(3): 99-109.

Teixeira da Silva, 2019b – Teixeira da Silva, J.A. (2019). Leonid Schneider calls Springer Nature's Science and Engineering Ethics predatory, without proof. Journal of Advocacy, Research and Education, 6(1): 5-14.

Teixeira da Silva, Al-Khatib, 2019 – Teixeira da Silva, J.A., Al-Khatib, A. (2019). Ending the retraction stigma: Encouraging the reporting of errors in the biomedical record. *Research Ethics* (in press). DOI: 10.1177/1747016118802970

Teixeira da Silva, Bernès, 2018 – Teixeira da Silva, J.A., Bernès S (2018). Clarivate Analytics: Continued *omnia vanitas* impact factor culture. *Science and Engineering Ethics*, 24(1): 291-297. DOI: 10.1007/s11948-017-9873-7

Teixeira da Silva, Dobránszki, 2015a – Teixeira da Silva, J.A., Dobránszki, J. (2018). Editors moving forward: Stick to academic basics, maximize transparency and respect, and enforce the rules. Recenti Progressi in Medicina, 109(5): 263-266. DOI: 10.1701/2902.29244.

Wicherts, 2017 – Wicherts, J.M. (2017). The weak spots in contemporary science (and how to fix them). Animals, 7(12): 90. DOI: 10.3390/ani7120090