

Publication bias survey for academics and researchers

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Thank you for taking the time to complete our survey, which should take between 5-15 minutes, depending on whether you wish to provide open ended answers (required answers are marked "** Required*"). This survey is suitable for all academics and researchers, except undergraduates with no publications and journal editors. **If you are an editor of a journal (including deputy, associate and assistant editors or on the editorial board etc) and wish to take part, please contact the primary researcher (details below), or complete the survey using the following URL:** https://sps.onlinesurveys.ac.uk/publication-bias_editors

You have been contacted as you currently are or were an active academic and/or involved in research (e.g. a research assistant, a lecturer, a postgraduate student, a peer-reviewer) and we have asked your institution to disseminate the survey. Alternatively, you may have come across our survey via word-of-mouth, social media or other means.

We are interested in knowing different views regarding publication bias, and opinions on whether anything can or should be changed to tackle this problem. Specifically we would like to understand whether there are particular barriers to changing the current peer-review system in order to reduce publication bias. Many have expressed concerns regarding these biases but implementing change to address these issues has been limited. We therefore hope these results will highlight barriers to specific suggestions in the hope these issues they can be tackled.

We appreciate that you may not have a lot of time, but we feel the issue of publication bias needs further exploration. By participating, you are potentially contributing to finding viable solutions to this problem. We do not foresee any risks by participating.

This project has been approved by the University of Bath REACH ethics committee (ref: EP 14/15 216). Please read all the instructions carefully and if you have any issues, please contact us using the details provided below. All data collected will be kept anonymous and confidential, and stored on a secure server in accordance with the Data Protection Act. Data is anonymous, thus you will not be identifiable. Below you will be asked for your current institution name. If you are a retired or currently unemployed academic, please use your most recent institution. This is to monitor representativeness and individuals will not be identifiable. Unfortunately, as the survey is fully anonymised, once your results have been submitted, you will not be able to withdraw your responses.

By ticking the appropriate box below (and providing your institution's name) and continuing with this survey, you are giving your informed consent to participate, you are confirming you are or were in academia/research, you understand you cannot withdraw your answers once they have been submitted, and you understand that your data will be used in accordance with data protection laws, and will not identify you as an individual.

Many thanks once again for participating.

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In order to give consent and continue to the survey, please click the box below, and enter the name of the institution you are (or were most recently) affiliated to, then click 'Next' to continue:

1. Name of the institution you are currently (or were most recently) affiliated to: * *Required*

2. Please click to confirm your informed consent, as described above * *Required*

I give informed consent to continue

Page 2: Publication bias

Please read all questions carefully. Many questions are optional; only those marked "* Required" need to be answered in order to continue with the survey.

3. What factors influence your choice of journal for publication? Please rank in order of most influential (1) to least influential (5), providing at least your top 3 influencing factors.

	Most appropriate content	Open access	Quality of journal (e.g. impact factor)	Turnaround time for publication	Other
1 (most influential)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 (least influential)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.a. If 'Other', please specify:

4. *Publication bias is when the published literature is systematically unrepresentative of the population of all completed research studies (Rothstein, Sutton & Borenstein, 2005). This can be due to several factors such as editors*

rejecting articles based on results, authors not submitting research based on results, or industry preventing or encouraging publication of research based on results, plus many other reasons. Considering the definition above, have you heard of publication bias? * Required

- Yes
- No

4.a. Do you think there is currently a problem of publication bias in the peer-reviewed literature? * Required

- Yes
- No

5. Do you think peer-review in general is an effective means of publishing **quality** research? * Required

- Yes
- No

5.a. Why or why not?

6. Do you think peer-review in general is an effective means of publishing **unbiased** research? * Required

- Yes

No

6.a. Why or why not?

Page 3: Solutions

7. Below are 9 suggestions which aim to tackle publication bias. Please read each suggestion carefully, then using the Likert scale provided rate how effective you feel each suggestion would be in reducing publication bias (1 = not at all effective, through to 5 = extremely effective).

	<i>* Required</i>				
	1	2	3	4	5
MANDATORY PUBLICATION: As part of gaining ethical approval and/or by law, researchers would have to guarantee publication of their research, regardless of the findings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NEGATIVE RESULTS JOURNALS/ARTICLES: Having more journals specifically designed to accept research with negative, null and unfavourable results.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OPEN REVIEWING: Requiring that journals name the reviewers and publish their comments with the final manuscript.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PEER-REVIEW TRAINING AND ACCREDITATION: Requiring all peer-reviewers to attend peer-review training after which they would become accredited peer-reviewers on a peer-review database, which can also highlight potential conflicts of interest.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POST-PUBLICATION REVIEW: Editors make a decision regarding the publication of an article. After publication, other researchers provide review comments which the authors can respond to. Although specific experts can be asked to conduct post-publication review, anyone is free to comment on all or part of the paper.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<p>PRE-STUDY PUBLICATION OF METHODOLOGY: Researchers publish full details of their planned methodology before commencing the research. The methods are then peer-reviewed to help ensure they are well justified. Once the study is completed, the full manuscript is peer-reviewed and published, regardless of the findings.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PUBLISHED REJECTION LISTS: Journals would openly archive the abstracts of rejected manuscripts with a summary of why the paper was rejected.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>RESEARCH REGISTRATION: Researchers would be required to register their research on specific databases within a certain time frame of commencing the research. Registration would be compulsory for all research, and would include key aspects of the study design, including the primary and secondary outcomes and analysis plans.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>TWO-STAGE PEER-REVIEW: Authors initially submit only their introduction and methods to a journal. These get peer-reviewed, after which a decision is made regarding the study quality. If provisionally accepted, the authors would then submit the results and discussion for review. Rejection at this second stage would be justified by concerns over the quality of the reporting/interpreting of the results, but not according to the significance/direction of the results.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7.a. From the list above, which suggestion do you think would be most effective at reducing publication bias? * Required

- Mandatory publication
- Negative results articles/journals
- Open reviewing
- Peer-review training and accreditation

- Post-publication review
- Pre-trial publication of methodology
- Published rejection lists
- Research registration
- Two-stage peer-review

7.a.i. If you have time, please justify your answer

7.a.ii. What do you think the barriers would be to implementing this method?

7.a.ii.a. Do you think these barriers would be easy to overcome?

- Yes
- No

7.a.iii. Considering these barriers, would you support wide-spread implementation of this system?

- Yes
- No

7.a.iv. If there were no barriers to implementing this system, would you support wide-spread implementation?

Yes

No

7.a.v. How much do you agree or disagree with the following statements with regards to the method you have chosen as **most effective** at reducing publication bias (1 = Do not agree at all, through to 5 = Completely agree):

	<i>* Required</i>				
	1	2	3	4	5
This would take too much time for researchers/authors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This would increase the amount of time it takes to review an article	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This would take too much time for editors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To implement this would require too much change in the system (i.e. it would not be feasible)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This would complicate the ethical approval process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be hard to regulate such a system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If a journal implemented this, I would be more inclined to submit to them	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7.a.vi. Any other comments or suggestions regarding this method of reducing publication bias?

7.a.vii. Do you have any comments regarding any of the other suggestions above? This can include your general thoughts, positives and negatives of the suggestion and/or potential barriers to implementing the suggestion. Please state clearly which suggestion(s) you are referring to.



Page 4: Final questions

8. Overall, do you support the notion that the current system for publication should be changed to reduce publication bias? * *Required*

- Yes
- No

8.a. Why or why not?

9. Do you have any other suggestions which could reduce publication bias?

- Yes
- No

9.a. If 'yes', please outline your idea. If possible, also include any positives, negatives and barriers to implementing this method.

10. Generally speaking, in terms of changing the current publication process in order to reduce publication bias, are there any other barriers you can think of?

- Yes

No

10.a. If 'yes', please outline these barriers.

Page 5: Demographic information

Below are some questions regarding your level of experience in academia/research. These will be used in order to assess representativeness and to find trends within subgroups.

11. What is your highest level of qualification achieved? * *Required*

- Undergraduate degree
- Postgraduate diploma/certificate/PGCE
- Masters' degree
- PhD
- Other (please specify)

11.a. If you selected Other, please specify:

12. What is your job title? (Please select your most recent relevant job title if currently unemployed or retired. Please state your main job title if you have more than one job) * *Required*

- Research assistant
- Research associate
- Research fellow
- Post-doctoral researcher
- Masters'degree student
- PhD student
- Lecturer (with research)
- Lecturer (teaching only)

- Full-time researcher
- Other

12.a. If you selected Other, please specify:

12.b. If you are currently unemployed or retired, please tick the appropriate box:

- Currently unemployed
- Retired

13. How many years have you been involved in academia (excluding undergraduate studies unless this resulted in one or more publications)? *
Required

- <3 years
- 3 to <6 years
- 6 to <10 years
- 10 to 20 years
- >20 years

14. What type of research do you primarily conduct or get involved in? *
Required

- Qualitative
- Quantitative
- Mixed methods

14.a. Have you been involved in conducting a systematic review or meta-analysis? * Required

- Yes
- No

14.b. Which of the following is your main field of study: * Required

- Engineering & Technology
- Humanities, Arts & Languages
- Medicine & Related subjects
- Science & Mathematics
- Social Sciences & Law
- Other (please specify)

14.b.i. If you selected Other, please specify:

15. Have you published in a peer-reviewed journal? * Required

- Yes
- No

15.a. If yes, would you be willing to name the journal(s) you have most recently published in (maximum 5)?

16. Are/were you involved in peer-reviewing research for a journal? *
Required

Yes

No

16.a. If yes, would you be willing to name the most recent journal(s) you have reviewed for (maximum 5)?

17. If you are/were active in research, have you been funded by industry at any point?

Yes

No

Page 6: Thank you

Thank you for taking the time to complete our survey - your responses are greatly appreciated. We hope the responses will help us understand the issues surrounding publication bias. If you have any queries regarding this project, please do not hesitate to contact us.

Please feel free to disseminate this survey to other academics who may be interested in participating. If you know of any journal editors who may be interested, please contact us and we will provide you with a survey link specifically for editorial staff.

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