Authorship Order Template

Working Publication Title:

What is the state of open science in the post-COVID era?

Project Description:

The COVID-19 pandemic accelerated the global adoption of open science (OS) practices. However, as the pandemic subsides, the debate around OS continues to evolve. This study investigates how the pandemic has shaped the OS discourse and identifies key issues and challenges. Interviews were conducted with a range of influential stakeholders across the research and publishing communities. The findings show that while many areas of debate remained constant, the way in which they were discussed exposed underlying systemic challenges, which must be addressed if OS is to progress. These issues included the scope and definition of open science; regional variations in its implementation; the relationship between OS and fundamental questions of the purpose and execution of science; and the need to reform incentives and reward structures within the research system. There is a need for a more nuanced understanding of OS, which takes into account the importance of equity and diversity and the challenges of implementing OS in different cultural and geographical contexts. The study emphasises the need for a shift in scientific culture, prioritising values such as quality, integrity, and openness, and reforming rewards structures to incentivise open practices.

Publication Venue and Preprint plans:

- *F1000Research*

Author Order:

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Author Tasks:

Establish the areas where each author intends to contribute using the CRediT's taxonomy. Fill out the table below (1-14). If you prefer, you can use the Tenzing App to automate the process.

All authors are responsible to fill out their own tasks by marking if they will take the lead (L) or will support (S). Once they have completed their contribution in each area, they should indicate as such (X). In cases when authors cannot complete this form themselves (e.g. author is ill or deceased) please specify who filled out the form on their behalf.

Upon completion of the work, authors should sign off, as per the ICMJE recommendations, by marking an X in the last two rows.

Role	Definition	Author	Author	Author	Author	Author	Author	Author
CRediT Taxonomy		**Benson Marshall**	**Pinfield**	**Abbott**	**Cox**	**Alperin**	**Chtena**	**Fleerackers**

1	**Conceptualization** Ideas; formulation or evolution of overarching research goals and aims.	X	X			X		
2	**Data curation** Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later re-use.	X						
3	**Formal analysis** Application of statistical, mathematical, computational, or other formal techniques to analyse or synthesize study data.	X	X	X	X			
4	**Funding acquisition** Acquisition of the financial support for the project leading to this publication.		X			X		X
5	**Investigation**	X						

Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.								
6	Methodology	X	X					
Development or design of methodology; creation of models.								
7	Project administration	X	X					
Management and coordination responsibility for the research activity planning and execution.								
8	Resources							
Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.								
9	Software							
Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms;								

testing of existing code components.								
10	Supervision		X					
Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.								
11	Validation							
Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.								
12	Visualization							
Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.								
13	Writing – original draft	X	X				X	X
Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).								

14	**Writing – review & editing** Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.	X	X	X	X	X	X	X
Sign off (ICMJE recommendations)								
1	**Final approval of the version to be published**	X	X	X	X	X	X	X
2	**Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the**	X	X	X	X	X	X	X

	work are appropriately investigated and resolved.							

Project notes

Keep a "lab notebook" for each project that documents decisions, work packages and who is responsible for them, deadlines, etc. There is no fixed format for keeping track of these, but all authors, especially the person taking the lead, are responsible for keeping notes of what was done, what needs to be done, and who is responsible.