

**Keynote speech by Lex M. Bouter**

Lex Bouter is professor of Methodology and Integrity in Amsterdam. Before that he held a chair in Epidemiology and was rector of his university. In 2017 he organized and co-chaired the 5th World Conference on Research Integrity in Amsterdam in and became chair of the World Conferences on Research Integrity. Lex Bouter is author or co-author of 683 scientific publications contained in the Web of Science, which have been cited more than 48,000 times (WoS h-index of 122 and Google Scholar h-index of 155). He and has supervised 74 PhD students, of whom to date 14 were appointed as professor.

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***Title:***

Fostering responsible research practices: What can and should funders and journals do?

***Abstract:***

Funding agencies should make sure that institutions receiving grants have adequate processes for dealing with putative breaches of research integrity, provide good training in responsible conduct of research, and have adequate quality control, including internal audits. They should also require that funded research has transparency 'from protocol to publication'.

Furthermore, funding agencies ought to demand that grant proposals make clear why the study question is relevant for the envisioned end-users and show that the research question has not already been answered, using a recent systematic review. With a clever combination of eligibility criteria and postponing the last payment until all conditions have been met, funding agencies can be really effective in changing the behaviour of scientists and their institutions.

Scientific journals should first and foremost prevent selective reporting by making sure that the decision to accept or reject a manuscript does not depend on the results of the study, but solely on the relevance of the research question and the soundness of the methods used. Registered reports is a promising way to ensure this, because the decision is made before data collection and data analysis.

Journals also have a key role to play in enforcing more transparency by demanding registration and publication of the study protocol, data analysis plan, data set and a full report on all results. The Transparency and Openness Promotion guidelines provide a matrix to clarify journal policy regarding the various aspects of transparency.

Finally, journals need to move from double-blind prepublication peer review to an open debate on the merits of a report that continues after publication. Disrupting innovation comes from initiatives like Retraction Watch and PubPeer. Reproduced from: Bouter LM. What funding agencies can do to prevent sloppy science. EuroScientist September 29, 2016 (<http://www.euroscientist.com/what-funding-agencies-and-journals-can-do-to-prevent-sloppy-science/>).