

Equilibre entre évaluation avant et après publication:

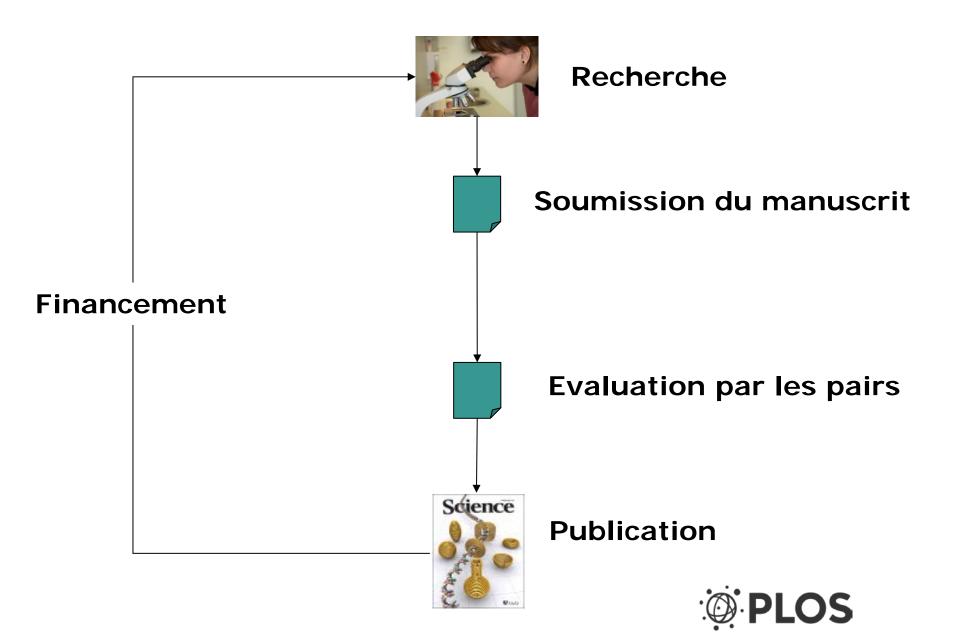
vers plus d'ouverture et de discussion

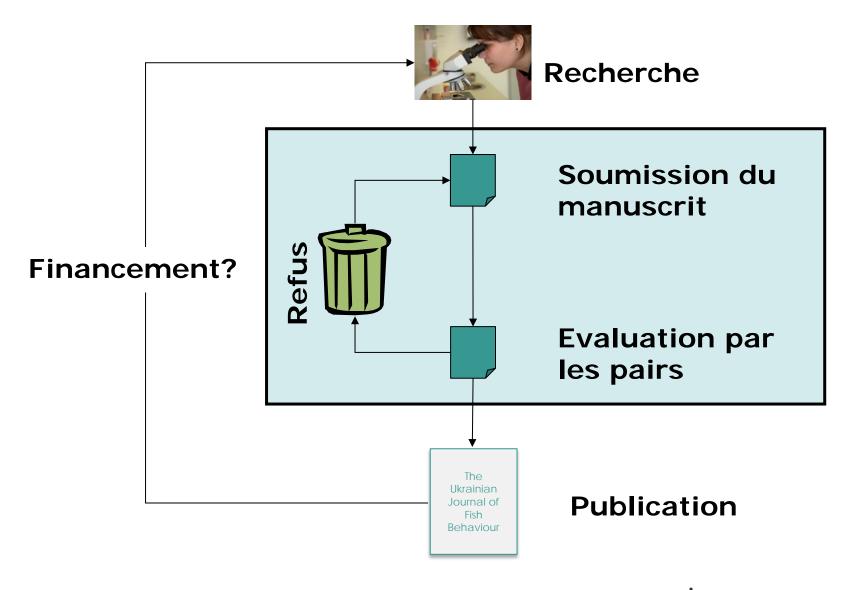
Iratxe Puebla, Managing Editor, *PLOS ONE*Octobre 2016

Equilibre entre évaluation avant et après publication: vers plus d'ouverture et de discussion

- Le modèle PLOS ONE
- Assurance de qualité avant publication
- Evaluation après publication
- Vers plus d'ouverture









Le modèle PLOS ONE

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Evaluation scientifique **avant** publication basée sur des critères de rigueur scientifique et technique

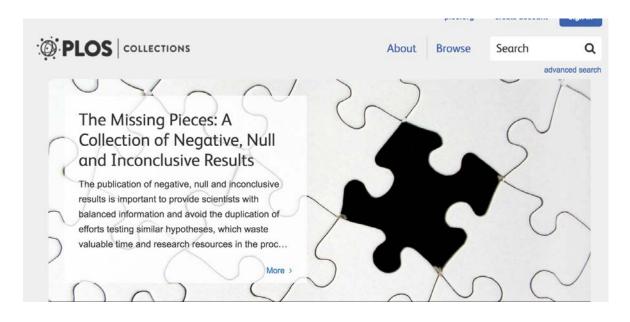
- Normes éthiques
- Description complète et reproductible de la méthodologie
- Conclusions soutenues par les données



Le modèle PLOS ONE

Evaluation d'impact ou niveau d'intérêt faite après publication

- Par la communauté scientifique et pas juste l'éditeur et relecteurs
- Publication d'articles présentant des résultats négatifs ou réplications d'études





Assurance de qualité avant publication

Contrôles internes	Evaluation par les pairs
Approbation éthique, permis	Méthodologie, conception experimentale
Conflits d'interêt	Analyse
Financement	Statistiques
Disponibilité des données	Interpretation et conclusions
Enregistrement des essais cliniques	
Recommendations type CONSORT, PRISMA	
Plagiat	



Assurance de qualité avant publication

- Développement des politiques éditoriales –normes éthiques et de publication
- Collaboration avec la communauté scientifique –
 Groupes consultatifs
- Progrès vers l'open data PLOS Data policy
- Etude de l'évaluation par les pairs ou des conséquences de diverses règles éditoriales



Mais l'évaluation par les pairs a ses limites...

- Lente
- Risque de subjectivité
- Pas d'incitation à la collaboration
- L'évaluation par pairs est une boite noir il n'est pas simple a rechercher ou évaluer son efficacité
- La science est plus multidisciplinaire qu'elle ne l'était



Mais l'évaluation par pairs a ses limites...



ESSAY

Why Most Published Research Findings Are False

John P. A. Ioannidis

Published: August 30, 2005 • http://dx.doi.org/10.1371/journal.pmed.0020124

Article	Authors	Metrics	Comments	Related Content
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Abstract

Modeling the Framework for False Positive Findings

Bias

Testing by Several Independent Teams

Corollaries

Most Research Findings Are False for Most Research Designs and for Most Fields

Claimed Research Findings May Often Be Simply Accurate Measures of the Prevailing Bias

Abstract

Summary

There is increasing concern that most current published research findings are false. The probability that a research claim is true may depend on study power and bias, the number of other studies on the same question, and, importantly, the ratio of true to no relationships among the relationships probed in each scientific field. In this framework, a research finding is less likely to be true when the studies conducted in a field are smaller; when effect sizes are smaller; when there is a greater number and lesser preselection of tested relationships; where there is greater flexibility in designs, definitions, outcomes, and analytical modes; when there is greater financial and other interest and prejudice; and when more teams are involved in a scientific field in chase of statistical significance. Simulations show that for most study designs and settings, it is more likely for a research claim to be false than true. Moreover, for many current scientific fields, claimed research findings may often be simply accurate measures of the prevailing bias. In this essay, I discuss the implications of these problems for the conduct and interpretation of research.

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Most Published Research Findings Are False—But a Little Replication Goes a Long Way

When Should Potentially False Research Findings Be Considered Acceptable?

When Should Potentially False Research Findings Be Considered Acceptable?

Minimizing Mistakes and Embracing Uncertainty

1 editeur + 2/3 relecteurs -est ce suffisant?



L'évaluation d'impact ou importance peut se faire

après publication

au niveau de l'article individuel et non le journal

De nouvelles modalités d'évaluation d'impact sont nécessaires





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A simple proposal for the publication of journal citation distributions

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30 40 50 60 70

Number of citations

30 40 50 60 70 80 90 100+

Number of citations

Article-level metrics

Une série de mesures qui donne une notion globale de la performance, influence et suivi des articles

- Vues
- Téléchargements
- Citations
- Marque page
- Twitter
- Facebook
- Commentaires



A Comprehensive Assessment of Impact with Article-Level Metrics (ALMs)

ALMs are quantifiable measures that document the many ways in which both scientists and the general public engage with published research.

Traditional metrics, which consider only citation count and journal name to assess impact, capture a narrow view of a work's value and do so only after the accumulation of citations in academic literature.





RESEARCH ARTICLE

Nutrition and Health – The Association between Eating Behavior and Various Health Parameters: A Matched Sample Study

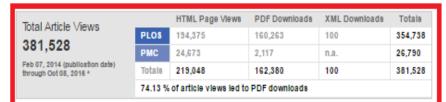
Nathalie T. Burkert , Johanna Muckenhuber, Franziska Großschädl, Éva Rásky, Wolfgang Freidl

Published: February 7, 2014 http://dx.doi.org/10.1371/journal.pone.0088278

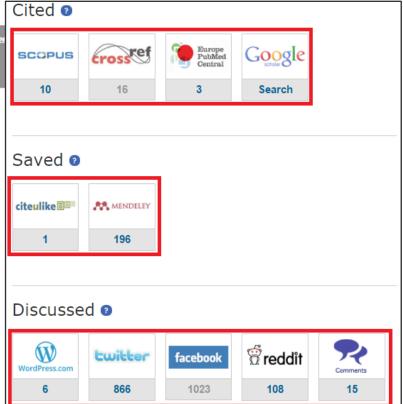


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Commentaires

Plateformes de commentaires pour une discussion ouverte, disponible a tout lecteur

Evaluation et discussion après publication

Analyse du travail et des études dans son domaine

Identification des erreurs Ouestions aux auteurs Generalization of economic results Posted by damiller51 on 05 Nov 2012 at 18:36 GMT In your economic analysis of the compared cropping systems, you indicate you used current NASS reported crop values. While this assumption will hold for an individual case or for minimal adoption of the cropping rotation, it definitely would not hold for significantly increased if there were, in fact, large scale adoption of the longer rotations. Given that a 3-year rotation reduces annual acreage of corn and soybeans by 33% each, and increases acreage of the small grains and alfalfa by large percentages, if even the state of Iowa adopted this production system, there would be large negative economic reactions. This should have been pointed out in the discussion, particularly since there is media pick-up of the article suggesting that "all farmers" could adopt this type of farming system with "no adverse economic impacts" No competing interests declared. respond to this posting RE: Generalization of economic results mliebman replied to damiller51 on 08 Nov 2012 at 19:37 GMT The authors of this study work for either the USDA or public land grant universities, conducting research and then exten that research to a wide range of audiences; that is our mission. The economics portion of the study focused on answering the question: "can a farmer integrate alternative cropping systems that would gain environmental benefits and at the same

time be profitable?" To answer that question, costs such as those for field operations conducted, inputs applied, and labor

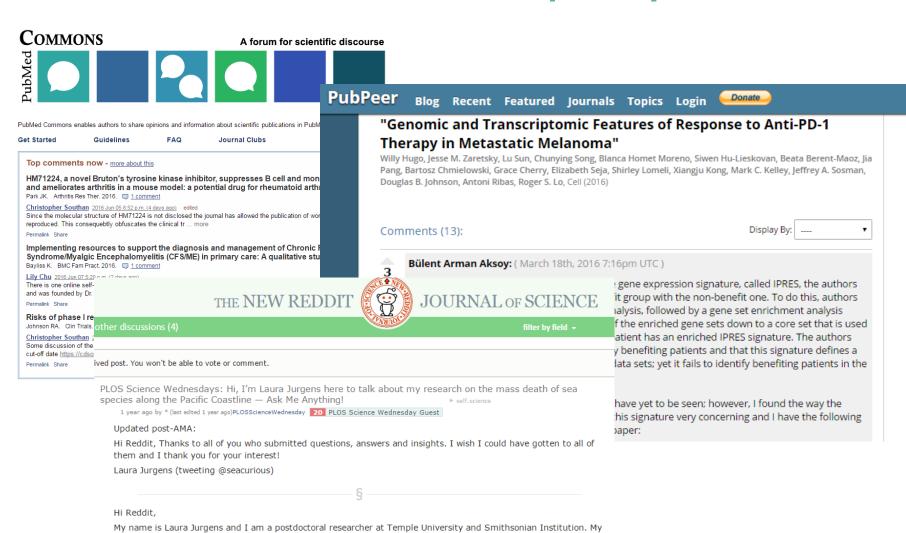
required were assessed for each cropping system included in the research. In essence, enterprise budgets were developed like a farmer would develop to determine portfailability for each apsaget of his or her copration for each crope, each year. The individual budgets were then aggregated over a designated time period. This procedure is very common among agricultural economist base on way to compare economic texture sow efferent crop rotations, fallige systems, and ferfility regimes, among many other research questions. It is a very for farmers to do an initial feasibility study of adopting a practice or an attentive recording system without skingth their king for enduction it to their common from This approach is designed to illustrate

to an individual farmer whether an alternative has the potential to be profitable. Whether the answer is yes, it is profitable, or

no, it is not profitable, has policy implications

Profitability and Environmental Health Adam S. Davis , Jason D. Hill, Craig A. Chase, Ann M. Johanns, Matt Liebman Published: October 10, 2012 • http://dx.doi.org/10.1371/journal.pone.0047149 Comments Reader Comments (7) Post a new comment on this article 02 Oct 2015 Use of manure as substitute for synthetic fertilizer 22:35 GMT Posted by AMMcGuire on 30 Sep 2015 at 18:43 GMT RESPONSE Answers to frequently asked questions 14:30 GMT Posted by asdavis1 on 16 Nov 2012 at 17:57 GMT RESPONSES Media Coverage of This Article Posted by asdavis1 on 22 Oct 2012 at 16:52 GMT 18:05 GMT RESPONSES Questions and comments 15:53 GMT Posted by Pdiff on 02 Nov 2012 at 19:03 GMT

Increasing Cropping System Diversity Balances Productivity,



research focuses on how marine organisms, and the interacting communities they form, respond to extreme events

Together with a wonderful group of collaborators, I recently published a study titled "Patterns of Mass Mortality among Rocky Shore Invertebrates across 100 km of Northeastern Pacific Coastline" in PLOS ONE. In it, we describe an unusual event that killed nearly 100% of two species, a tiny sea star and a sea urchin, over a large region, following a harmful algal bloom or "red tide". We discuss why it's especially important, but often hard, to document such events, which may be increasing in severity and frequency with human-induced changes to our oceans. We

and global change.



Vers plus d'ouverture

On peut avancer vers plus d'ouverture

Preprint servers – rendre l'information disponible plus rapidement





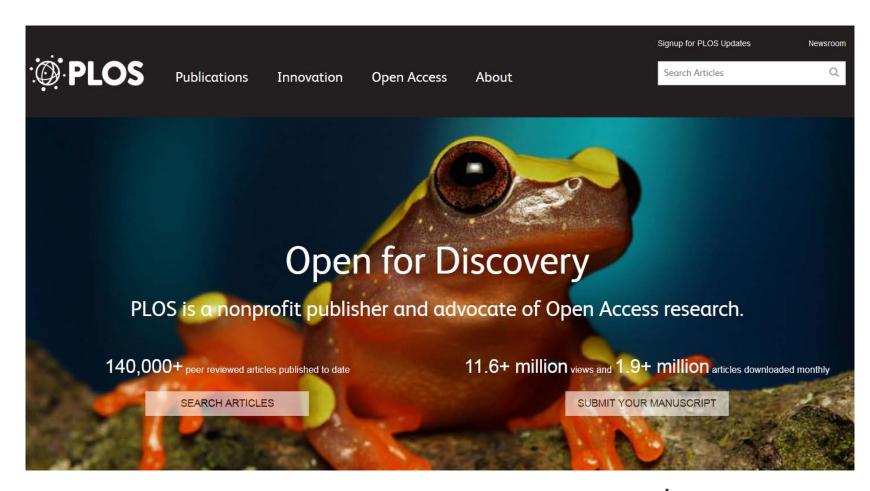
Vers plus d'ouverture

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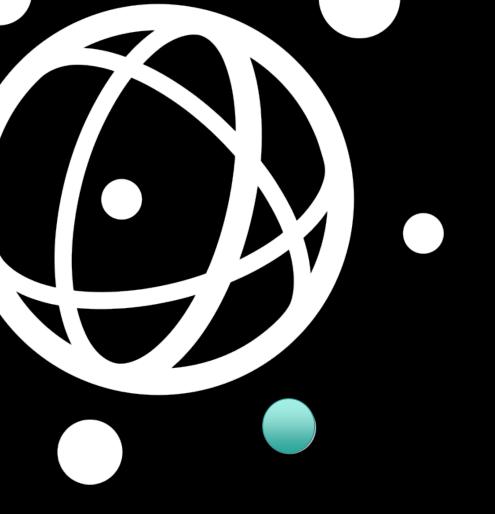
- Preprint servers rendre l'information disponible plus rapidement
- Open peer review –publication des rapports signés
- Evaluation par les pairs en continu
- Récompenser l'ouverture, la fiabilité, le partage
 - o Pour les relecteurs
 - o Pour les auteurs-partage, bonnes pratiques
 - o Pour toute activité scientifique-pas juste les articles



Le Open Access n'ést que le début







Merci

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