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# OPEN SCIENCE: a che punto siamo?

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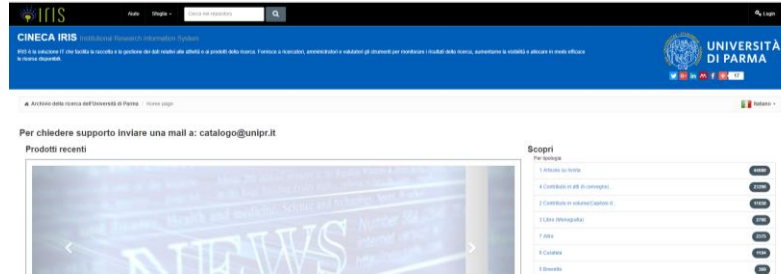


# Alcuni miti da sfatare

- The only way to provide open access to peer-reviewed journal articles is to publish in open access journals
- All or most open access journals charge publication fees
- Most author-side fees are paid by the authors themselves
- Publishing in a conventional journal closes the door on making the same work open access
- Open access journals are intrinsically low in quality
- Open access mandates infringe academic freedom

# The only way to provide open access to peer-reviewed journal articles is to publish in open access journals

- Green Road



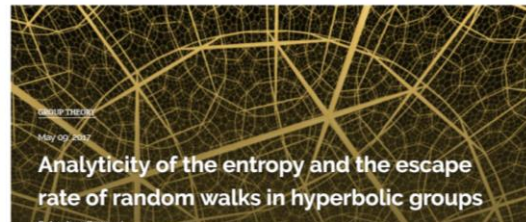
- Gold Road



Discrete Analysis

- Diamond Road

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Recent blog posts



Some other new journals with no authors or readers  
The EpitJournal de Géométrie, Annales Internet Mathematic Combinatorics are pre-ethical homes for high articles in mathematics



Discrete Analysis  
A brief post with information

# All or most open access journals charge publication fees



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- Journals vs Articles Journals ✕
- + Subject
- Article processing charges (APCs)  
For more information see this [blog post](#) (opens in new window). [less](#)  
10 count ↓ OR
- No (8319)
- Yes (2994)
- No Information (65)
- + DOAJ Seal
- + Journal license
- + Publisher
- + Country of publisher
- + Full Text language
- + Peer review
- + Date added to DOAJ

- Journals vs Articles Journals ✕

+ Subject

- Article processing charges (APCs)  
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10 count ↓ OR

No (8319)

Yes (2994)

No Information (65)

+ DOAJ Seal

PORT DOAJ

Login

License: publisher's own license ✓

(cc) BY-SA ✓  
: 25000IDR

(cc) BY-NC-ND ✓  
PC: 500USD

(cc) BY ✓

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Most author-side fees are paid by the authors themselves

- Bandi europei
- Bandi di alcune fondazioni
- Budget di ateneo o dipartimentali

Prevedono il finanziamento dell'open access gold

# Publishing in a conventional journal closes the door on making the same work open access

## L'open access green è sempre una soluzione



... opening access to research

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### Search - Publisher copyright policies & self-archiving

[English](#) | [Español](#) | [Magyar](#) | [Nederlands](#) | [Portu](#)

One journal found when searched for: **cell**

Journal:	<a href="#">Cell</a> (ISSN: 0092-8674, EISSN: 1097-4172)
RoMEO:	This is a <b>RoMEO yellow</b> journal
Paid OA:	A paid open access option is available for this journal.
Author's Pre-print:	<input checked="" type="checkbox"/> author can archive pre-print (ie pre-refereeing)
Author's Post-print:	<input checked="" type="checkbox"/> subject to Restrictions below, author can archive post-print (ie final draft post-refereeing)
Restrictions:	<ul style="list-style-type: none"><li>• 12 months embargo</li></ul>
Publisher's Version/PDF:	<input checked="" type="checkbox"/> author cannot archive publisher's version/PDF
General Conditions:	<ul style="list-style-type: none"><li>• Author's pre-prints on ArXiv, bioRxiv or BioRxiv</li><li>• On non-commercial hosting platforms including institutional repository</li><li>• Published source must be acknowledged</li><li>• Must link to journal homepage with DOI</li><li>• Publisher's version/PDF cannot be used</li><li>• Author's post-print must be released with a Creative Commons Attribution Non-Commercial No Derivatives License</li></ul>
Mandated OA:	(Awaiting information)
Paid Open Access:	<a href="#">Open Access</a> - If required by funding agency
Notes:	<ul style="list-style-type: none"><li>• Publisher last reviewed on 05/08/2015</li></ul>
Copyright:	<a href="#">Policy</a>
Updated:	31-Jan-2018 - <a href="#">Suggest an update for this record</a>
Link to this page:	<a href="http://www.sherpa.ac.uk/romeo/issn/0092-8674/">http://www.sherpa.ac.uk/romeo/issn/0092-8674/</a>
Published by:	<a href="#">Elsevier (Cell Press)</a> - <a href="#">Yellow Policies in RoMEO</a>

This summary is for the journal's *default* policies, and changes or exceptions can often be negotiated by authors.  
*All information is correct to the best of our knowledge but should not be relied upon for legal advice.*

### Search again?

Journal titles or ISSNs  Publisher names

cell

Exact title  starts with  contains  ISSN

[Advanced Search](#)

RoMEO Colour	Archiving policy
<b>Green</b>	Can archive pre-print and post-print or publisher's version/PDF
<b>Blue</b>	Can archive post-print (ie final draft post-refereeing) or publisher's version/PDF
<b>Yellow</b>	Can archive pre-print (ie pre-refereeing)
<b>White</b>	Archiving not formally supported

[More on colours and restrictions](#)

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Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

# Open access journals are intrinsically low in quality

Le riviste ad accesso aperto hanno una storia più breve delle altre perché sono nate negli ultimi anni

Non si devono confondere le riviste Open Access coi predatory journals che invece sono effettivamente riviste di scarsa qualità

Esistono strumenti per valutare se una rivista ha i requisiti di qualità richiesti da propria disciplina

# Think check submit



Choose the right journal for your research

Home Think Check Submit About Languages FAQ Think Check Attend

## ITALIAN

La condivisione dei risultati della ricerca è un aspetto cruciale per l'avanzamento della conoscenza e per lo sviluppo della tua carriera. Ma con così tante pubblicazioni, come puoi essere sicuro di affidarti alla rivista giusta?

Segui questa check list per essere sicuro di scegliere le riviste adatte alla tua ricerca.

## ! Pensa

Stai inviando la tua ricerca a una rivista affidabile?

E' la rivista giusta per la tua ricerca?

- Sempre più ricerche scientifiche sono pubblicate in tutto il mondo.
- Nuove riviste accademiche vengono lanciate ogni settimana.
- Casi di pratiche illecite e ingannevoli da parte di editori sono sempre più diffusi.
- Potrebbe essere difficile trovare una guida aggiornata quando devi scegliere dove pubblicare.

Come puoi essere sicuro che quella che stai prendendo in considerazione è la rivista giusta per il tuo lavoro di ricerca?

Get involved - sign up for our mailing list here:

SEND

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2 people have clicked to show their support so far

### Latest news

**Think Check Submit now available in Chinese!**

30th May 2017

We're delighted that Think Check Submit is now available in Chinese, thanks to Yanhong Zhai. More languages will be...[Read more...](#)

**Think Check Submit now available in Indonesian!**

22nd May 2017

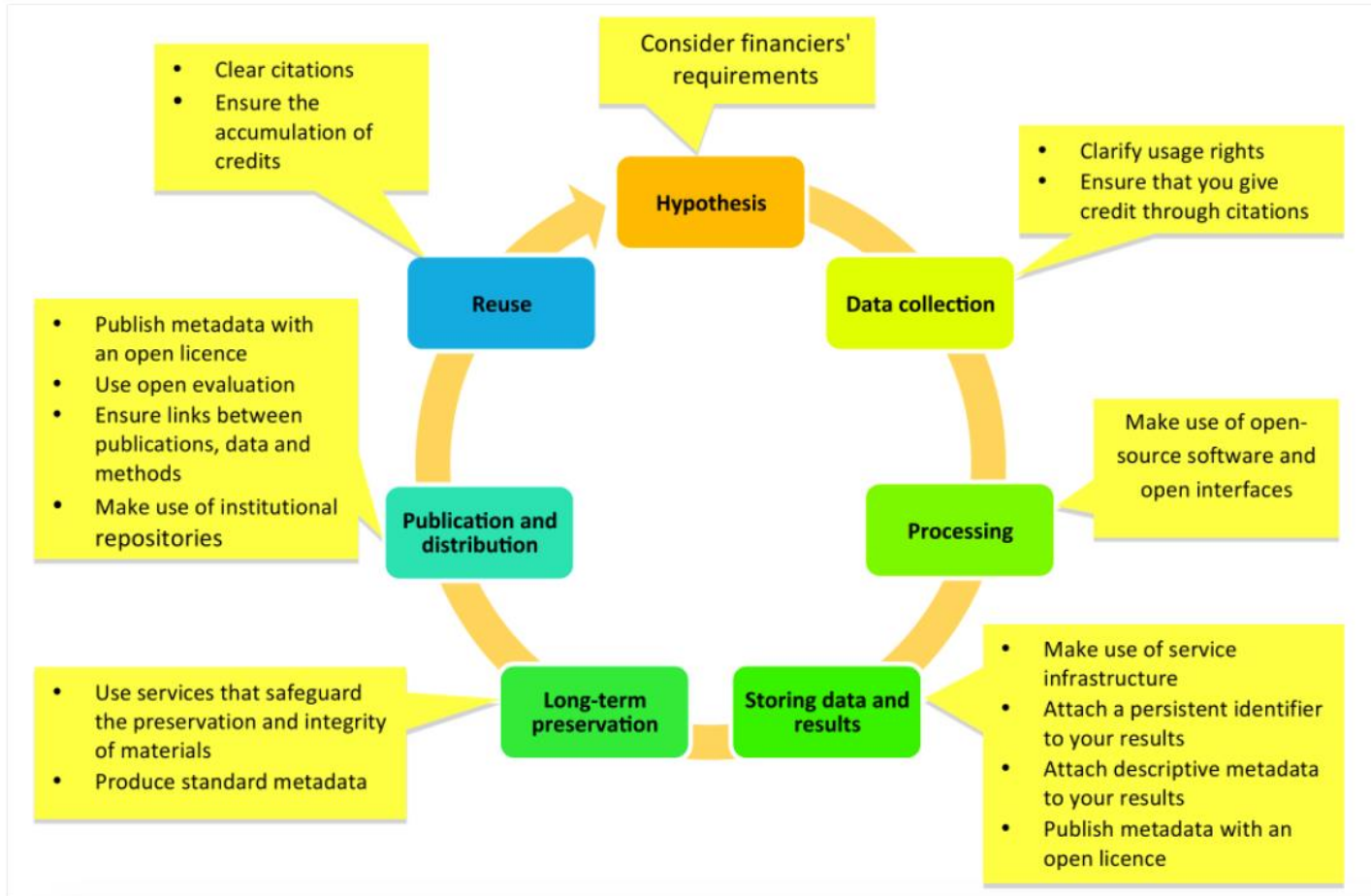
We're very pleased to be able to offer Think



# Open access mandates infringe academic freedom

- La scelta di dove pubblicare è sempre del ricercatore.
- L'obbligo di open access può essere assolto o pubblicando in una rivista gold o ripubblicando il lavoro (nella versione consentita dall'editore) in un repository istituzionale (ad esempio IRIS).

# L'apertura non riguarda solo la pubblicazione ma l'intero ciclo di vita di una ricerca



\*\*Figure 1. Promoting openness at different stages of the research process (Open Science and Research Initiative, 2014)\*\*

# Ma perché dovrei farlo?

- Perché rendere disponibili le proprie pubblicazioni e i propri dati a tutta la comunità scientifica?
  
- Andiamo oltre l'ideologia

# I fatti

- Che i ricercatori siano sottoposti ad una fortissima pressione in nome della qualità e del merito è un fatto

Le campagne di valutazione nazionale hanno modificato sensibilmente le strategie di pubblicazione degli autori



# I fatti

- Che i ricercatori reagiscano alla pressione in maniera adattativa è un fatto



**I'm not interested in what the paper is about, Dr Jones,  
I just want you to put me on the authors' list...**

# I fatti

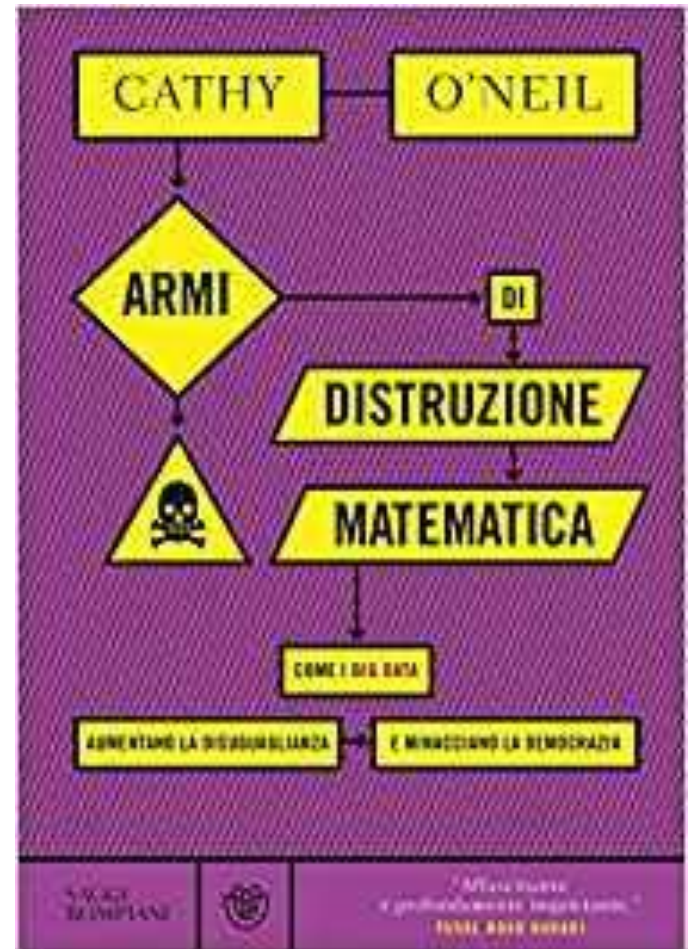
- Che questo tipo di reazioni non siano sempre all'interno dei limiti della correttezza è un fatto



**It is a bad paper and, as a reviewer, I should reject it, but it cites five of my own papers...**

# Attenzione!!!

Un modello basato su dati indiretti, [ad esempio quello costruito sugli indicatori bibliometrici] tuttavia, è più semplice da aggirare. Questo perché i *proxy data* sono molto più facili da manipolare rispetto alla realtà complessa che rappresentano



E l'etica?

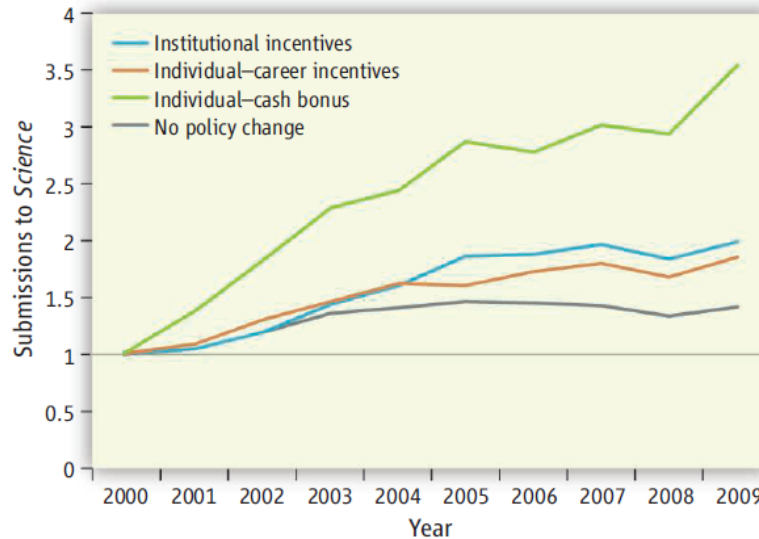


## Changing Incentives to Publish

Chiara Franzoni,<sup>1</sup> Giuseppe Scellato,<sup>2,3</sup> Paula Stephan<sup>4,5,6\*</sup>

Many national governments have implemented policies providing incentives for researchers to publish, especially in highly ranked international journals. Although still the top publishing nation, the United States has seen its share of publications decline from 34.2% in 1995 to 27.6% in 2007 as the number of articles published by U.S. scientists and engineers has plateaued and that of other countries has grown (1, 2). Hicks (3) argues that the two events are not unrelated: The decline in the relative performance of the United States relates to increased international competition engendered by newly adopted incentives that have crowded out some work by U.S. authors.

We investigate how changes in incentives to publish implemented at the country level relate to the number of submissions and publications and the acceptance rates to the jour-



have been less strong with regard to salary and promotion. Funding for research often did not emphasize publications in international journals. Departments often received

National incentive policies relate to increases in research article submissions and publications in *Science*.

Trend in number of submitted papers to *Science*. Thirty countries by type of incentive relative to number submitted by country in 2000 [see (13) and SOM for details].

recruits and to decide tenure and promotions. In Germany, reforms were made that allow universities to link salaries to research performance (table S1, SOM).

Some countries have introduced a system of cash bonuses to individuals for each article published in a top international scientific journal. Turkey introduced in 2008 a national agency that collects publication data and, for

# Scorciatoie

- Che la reazione agli incentivi a volte faccia prendere delle scorciatoie è ampiamente dimostrato
- In summary, the evidence indicates that performance-informed funding (*with or without a formal link between performance and funding*) **does indeed increase the pressure on researchers and institutions to meet the performance criteria, irrespective of whether the latter are based on peer review or on citations.** This is clearly an intended effect. [...]
- **The research community respond strategically**, and this may in turn create unintended effects, either through the mechanism of goal displacement or through more structural changes in research priorities, publication activities, or research capacities and organization» (P. Wouters, 2014)

# Un caso fra tanti

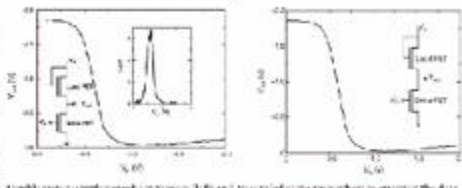
## Bell Labs launches inquiry into allegations of data duplication

Geoff Brumfiel, Washington

Over the past few days, the physics community has been rocked by allegations of data duplication following claims that data on some of its papers were "stolen."

Jim Heald's lab, a research unit at Bell Labs in Murray Hill, New Jersey, faces an independent inquiry after scientists noticed striking similarities between different papers in a number of his published papers.

So far, data on the allegations... if they prove correct, many researchers are worried about the damage that could be done to basic research... at Bell Labs, part of the



It could mean that similar graphs in Science (left) and Nature led to the discovery of superconductivity.

is already known... that he had... of the...

...of the... of the... of the...

## Misconduct finding at Bell Labs shakes physics community

Geoff Brumfiel, Washington

Physicists are coming to terms this week with one of the most awkward admissions in their field... The results of the investigation were... published in top journals... including the one on electrical...

An independent committee charged with reviewing work done by Jim Heald's lab at Bell Laboratories in Murray Hill, New

Jersey, released its findings on September 13... "preponderance of evidence" that he had... of the...

Heald's lab... of the... of the...

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Bell Labs is launching an inquiry into allegations of data duplication.

single molecules and induce superconductivity in carbon nanotubes and thin sections, and his findings...



Jim Heald's lab was found to have duplicated data.

Kor

## Is a bell tolling for Bell Labs?

It would be wise of Bell Labs to help others reproduce their scientists' results.

Paul Grant

Dark of night, a dimly lit room... the exceptional finding of superconductivity at 17.5 reported last year by Heald's lab...



...of the... of the... of the...

## Bell Labs inquiry spreads to superconductors

Geoff Brumfiel, Washington

An investigation into the... of the... of the...

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news

SCIENCE

# Un altro caso fra tanti



Haruko Obokata. Brillante ricercatrice giapponese nell'ambito delle cellule staminali.

Sosteneva di essere riuscita a indurre cellule umane a tornare al livello di cellule staminali attraverso la stimolazione attraverso un bagno di acido.

I dati pubblicati su Nature erano stati manipolati e truccati.

I suoi lavori si sono rivelati non riproducibili a causa delle manipolazioni e sono stati oggetto di retraction pochi mesi dopo la pubblicazione

Il suo mentore, Sasai, dopo aver chiesto scusa per non aver controllato i dati della allieva, si è suicidato per la vergogna.

La ricercatrice si è dimessa dal centro di ricerca presso cui lavorava.

Le è stato revocato il titolo

[Proceedings of the Royal Society B: Biological Sciences](#) posted the notice September 16, three years after the paper received an [expression of concern](#).

The retraction [notice](#), signed by every co-author but Lemus, reads:

[Read the rest of this entry »](#)

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Written by Ross Keith  
October 9th, 2014 at 2:50 pm

Posted in [data handling](#), [Lemus not reproducible pathology](#), [proceedings of the royal society B society journal retraction](#), [veterinary science](#)

## Authors pull Science paper on molecular wires for "inappropriate data handling"

without comments

This week's issue of *Science* includes a retraction of a highly cited paper about manipulating the current in a string of molecules with a magnet, after an investigation by the co-authors revealed "inappropriate data handling" by the first author.

According to [the note](#), the co-authors' suspicions arose when they tried to follow-up on the data. Following a "thorough investigation," they concluded that first author [Rabindra N. Mahato had handled the data in such a way that they could no longer trust the conclusions. In the end, Mahato agreed to the retraction.](#)

Here's more from [the note](#): [Read the rest of this entry »](#)



## SAGE Publications busts "peer review and citation ring," 60 papers retracted

with 86 comments

This one deserves a "wow."

SAGE Publishers is retracting 60 articles from the [Journal of Vibration and Control](#) after an investigation revealed a "peer review and citation ring" involving a professor in Taiwan.

[Please see an [update on this post](#).]

Here's the [beginning of a statement from SAGE](#):

“ London, UK (08 July 2014) – SAGE announces the retraction of 60 articles implicated in a peer review and citation ring at the Journal of Vibration and Control (JVC). The full extent of the peer review ring has been uncovered following a 14 month SAGE-led investigation, and centres on the strongly suspected misconduct of Peter Chen, formerly of National Pingtung University of Education, Taiwan (NPUE) and possibly other authors at this institution.



Tracking retractions as a

2012 the then Editor-in-Chief of JVC Professor Ali H. Nayfeh and SAGE became aware of a

## Citation manipulation: Journal retracts paper because author boosted references to a journal he edits

with 5 comments

A group of researchers have lost a paper in a computer science journal because they were apparently using its references to help the impact factor of a different journal that one of them edits.

Here's the [notice](#) for "Impacts of sensor node distributions on coverage in sensor networks," a paper first published in 2011 and cited four times, according to Thomson Scientific's Web of Knowledge:

“ This article has been retracted: please see Elsevier Policy on Article Withdrawal (<http://www.elsevier.com/locate/withdrawalpolicy>).

It has been brought to the attention of the Journal of Parallel and Distributed Computing that an article previously published in JPDC included a large number of references to another journal. It is the opinion of the JPDC Editor-in-Chief and the Publisher that these citations were not of direct relevance to the article and were included to manipulate the citation record.

This article is being retracted at the request of the Publisher, on the basis that it violates Elsevier's policy regarding citation manipulation.

So why wasn't this caught in peer review? The notice continues:

“ The Editors and editorial board of JPDC were not involved in facilitating this manipulation, as the references were added after acceptance, thus avoiding editorial scrutiny.



## Retraction Watch

### Archive for the 'plagiarism' Category

## Mystery: PLOS One seeks investigation after publishing two papers with "substantial overlap"

with 10 comments

*PLOS One* has retracted one of two cancer papers with "substantial overlap" that were reviewed simultaneously by different editors.

This one's a bit of a mystery — neither of the papers share an author, and no authors share institutions. Once the editors discovered the overlap, they contacted the authors. One group of authors provided the requested documentation for the experiments. The other did not — so the editors retracted that article, though it was published months before the other one.

In the meantime, the editors have asked the authors' institutions investigate how the articles — which contain identical sentences, and some extremely similar figures — were put together. According to a statement from the editors:

[Read the rest of this entry »](#)

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# Domande

- Ma i sistemi di valutazione in atto, la peer review gestita come era gestita ai tempi di Oldenburg e la bibliometria gestita spesso in maniera irresponsabile sono in grado di assicurarci che la scienza pubblicata sia la migliore possibile?
- L'enfasi posta sul numero migliora davvero la scienza?
- Esiste una qualche evidenza empirica che un sistema *performance based* porti reali benefici alla ricerca?

# L'open science è una risposta?

- Dati aperti a supporto della validazione delle ricerche
- Open Access alle pubblicazioni scientifiche
- Open Peer review
- Dati aperti sulla valutazione

## General recommendation:

Do not use journal-based metrics, such as Journal Impact Factors (JIFs), as surrogate measures of the quality of individual research articles, to assess an individual scientist's contributions, or in hiring, promotion, or funding decisions.



### For Organizations That Supply Metrics

- Be transparent
- Provide access to data
- Discourage data manipulation
- Provide different metrics for primary literature and reviews

### For Publishers

- Cease to promote journals by Impact Factor; provide an array of metrics
- Focus on article-level metrics
- Identify different author contributions
- Open the bibliographic citation data
- Encourage primary literature citations

### For Research Institutions

- When hiring and promoting, state that scientific content of a paper, not the JIF of the journal where it was published, is what matters
- Consider value from all outputs and outcomes generated by research

### For Funding Agencies

- State that scientific content of a paper, not the JIF of the journal where it was published, is what matters
- Consider value from all outputs and outcomes generated by research

### For Researchers

- Focus on content
- Cite primary literature
- Use a range of metrics to show the impact of your work
- Change the culture!



# Nel migliore dei mondi possibili...

- La apertura dei dati bibliometrici, la cura delle banche dati, l'open peer review, l'esistenza di piattaforme di ricerca in cui la maggior parte dei processi sono aperti e verificabili da tutti sono da un lato un incentivo all'autoregolamentazione, dall'altro un incentivo a comportamenti virtuosi.

- Manca però, ad oggi, un forte *commitment* da parte delle agenzie di valutazione e degli enti di finanziamento a cominciare dalla EU.
- La bibliometria deve tornare a fare il suo lavoro, che è quello di descrivere la scienza.
- La valutazione può solo essere affidata ai pari, e il perimetro dei pari dipenderà da quanto gli enti di finanziamento intenderanno investire sull'open science.

# Open science e impatto della ricerca



Nazione	#
IT - Italia	8037
DE - Germania	981
US - Stati Uniti d'America	762
FR - Francia	259
GB - Regno Unito	119
CH - Svizzera	93
CN - Cina	82
CA - Canada	71
JP - Giappone	41
BR - Brasile	38
other - Altro Paese	801
Totale	11284

# Alcune proposte di azione

- Designazione di una figura responsabile (delegato del Rettore) che rappresenti l'ateneo in tutte le sedi
- Approvazione di policies da parte del Senato Accademico su open access alle pubblicazioni e su RDM a cui venga data la massima diffusione
- Costituzione di una commissione mista composta da TA e da delegati dei Dipartimenti che elabori proposte, monitori lo stato dell'arte, stenda una relazione annuale
- Predisposizione di un sistema di raccolta di informazioni sui costi dell'open science (dati e pubblicazioni) che permetta di fare scelte informate

# Alcune proposte di azione

Prevedere corsi di competenze trasversali per i dottorandi che trattino le seguenti tematiche:

- Gestione dei diritti
- Modalità di pubblicazione ad accesso aperto
- Research integrity
- Uso degli indicatori (anche altmetrics)

Prevedere un sistema di incentivi o meccanismi che premiano azioni e comportamenti di apertura