



# Open access e ricerca responsabile

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Nostra res agitur: la scienza aperta come questione sociale – Pisa 22-23 ottobre 2015

# La ricerca responsabile

- E' la ricerca in grado di venire incontro e in alcuni casi anche di anticipare i bisogni della società (H2020 Science with and for society)
- Concentrazione della attenzione sull'impatto che la ricerca scientifica ha sulla società (REF, SEP, H2020), in particolare sul benessere dei cittadini
- Necessità di accountability a più livelli. I governi e gli enti finanziatori della ricerca devono giustificare le proprie scelte.
- Coloro che percepiscono i finanziamenti pubblici devono in qualche modo dimostrare l'utilità/importanza della loro ricerca per la società
- L'impatto sociale si affianca a quello scientifico



# La ricetta in linea teorica

- Etica (non ostacolo ma garanzia di qualità della ricerca)
- Trasparenza (nella conduzione delle ricerche e nella loro esposizione, così come nella loro valutazione e disseminazione)
- Condivisione
- Collaborazione
- Open Science



# E la realtà...

- Frode
- Opacità delle procedure di selezione e valutazione delle ricerche
- Competizione
- Chiusura della informazione scientifica dentro recinti accessibili solo a pagamento

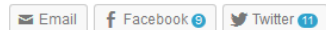


[Proceedings of the Royal Society B: Biological Sciences](#) posted the notice September 16, three years after the paper received an [expression of concern](#).

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, 2015 at 2:30 pm

Posted in [data issues](#), [jesus angel lemus](#), [not reproducible](#), [pathology](#), [proceedings of the royal society B](#), [society journal retractions](#), [spain](#), [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 »](#)



## 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, even though it was published months before the other one.



## 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 [↓](#)

“

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

Tracking retractions as a



rchers have lost a paper in a computer science journal because they were its references to help the impact factor of a different journal that one of

for “Impacts of sensor node distributions on coverage in sensor er first published in 2011 and cited four times, according to Thomson of Knowledge:

icle has been retracted: please see Elsevier Policy on Article Withdrawal [www.elsevier.com/locate/withdrawalpolicy](http://www.elsevier.com/locate/withdrawalpolicy)).

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

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

is caught in peer review? The notice continues:



# Authorship

Home | News & Comment | Research | Careers & Jobs | Current Issue | Archive | Audio & Video | For Authors

News & Comment > News > 2015 > October > Article

NATURE | NEWS

Physics paper sets record with more than 5,000 authors

Detector teams at the Large Hadron Collider collaborated for a more precise estimate of the size of the Higgs boson.


Daide Castelvechi

15 May 2015

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**Gut-brain axis**




**The tantalizing links between gut microbes and the brain**

Neuroscientists are probing the idea that intestinal microbiota might influence brain development and behaviour.

[Like](#) [Share](#) 217,106 people like this. Be the first of your friends.

**Click here** to explore scientific events across 



# Give credit where credit is due

Ghost authorship

Guest authorship

.....



# Forte pressione sui ricercatori

Il mito del *publish or perish* che è diventato ormai *publish in the top ranked journals or perish*

I ricercatori a cui si richiede di pubblicare di più e nelle riviste a maggior impatto sono gli stessi a cui si chiede una valutazione del lavoro dei colleghi

I ricercatori affidano nelle mani dei grandi editori commerciali le loro carriere, la possibilità di ottenere finanziamenti e strumentazioni

Si tratta di un sistema destinato ad implodere, la peer review di pochi, anche quando svolta nella più assoluta buona fede fatica a garantire la qualità di ciò che viene pubblicato





# Fallimento della peer review?

- Parcellizzazione e specializzazione delle discipline
- Scarsità di tempo

Sono i due elementi che rendono la peer review come svolta tradizionalmente fino ad ora insufficiente a garantire qualità e attendibilità delle ricerche



# Il falsario– Il caso Jan Hendrik Schoen

Giovane fisico tedesco pluripremiato

Scopre il transistor molecolare, una scoperta rivoluzionaria per l'industria elettronica.

Pubblica le sue ricerche su Nature

Assunto presso i laboratori Bell

Da Princeton e da Cornell i colleghi fanno verifiche sui dati presentati che non tornano

Aperta una inchiesta in cui Schoen è ritenuto colpevole

La maggior parte dei suoi articoli sono stati ritirati



# Cosa dedurre dal caso Schoen?

Già 15 anni fa la pressione e la competizione erano fortissime

Le sanzioni a Jan Hendrik Schoen (il più clamoroso caso di frode degli ultimi 50 anni) non sono state sufficienti a dissuadere i ricercatori da atteggiamenti scorretti, se ne sono verificati molti altri

La pressione per «produrre» di più e meglio, ha un effetto sempre più negativo sulla condotta dei ricercatori che vedono la scienza come competizione anziché come collaborazione

Le diverse comunità scientifiche sono costrette a investire molto tempo per verificare la riproducibilità degli esperimenti dei colleghi e la correttezza delle conclusioni



# Il richiamo della EC

The screenshot displays the Horizon 2020 website interface. At the top, the European Commission logo and the text 'HORIZON 2020 The EU Framework Programme for Research and Innovation' are visible. Below this is a navigation bar with links: 'What is Horizon 2020?', 'Find Your area', 'How to Get funding?', 'News, Events & Publications', and 'Projects'. The main content area features a sidebar with 'Sections navigation' and 'Science with and for Society' categories. The 'Responsible research & innovation' section is highlighted. The main text defines RRI as an approach that anticipates and assesses potential implications and societal expectations with regard to research and innovation, with the aim to foster the design of inclusive and sustainable research and innovation. A word cloud graphic is also present, featuring terms like 'Innovation', 'Responsible', 'Research', and 'society'. Below the definition, a paragraph explains that RRI implies that societal actors (researchers, citizens, policy makers, business, third sector organisations, etc.) work together during the whole research and innovation process in order to better align both the process and its outcomes with the values, needs and expectations of society. A final paragraph states that in practice, RRI is implemented as a package that includes multi-actor and public engagement in research and innovation, enabling easier access to scientific results, the take up of gender and ethics in the research and innovation content and process, and formal and informal science education.

European Commission

## HORIZON 2020

The EU Framework Programme for Research and Innovation

European Commission > Horizon 2020

- Home
- What is Horizon 2020?
- Find Your area
- How to Get funding?
- News, Events & Publications
- Projects

Sections navigation

Science with and for Society

Responsible research & innovation

### Responsible research & innovation

Responsible research and innovation is an approach that anticipates and assesses potential implications and societal expectations with regard to research and innovation, with the aim to foster the design of inclusive and sustainable research and innovation.

Responsible Research and Innovation (RRI) implies that societal actors (researchers, citizens, policy makers, business, third sector organisations, etc.) work together during the whole research and innovation process in order to better align both the process and its outcomes with the values, needs and expectations of society.

In practice, RRI is implemented as a package that includes multi-actor and public engagement in research and innovation, enabling easier access to scientific results, the take up of gender and ethics in the research and innovation content and process, and formal and informal science education.



# Da Open Access a Open Science

Nowadays, it is widely recognised that making research results more accessible contributes to better and more efficient science, and to innovation in the public and private sectors.

Science has always been open, unlike the processes for producing research and diffusing its results.

the European Commission is now moving decisively from 'Open access' into the broader picture of 'Open science'.

Elements of 'Open science' will also gradually feed into the shaping of a policy for [Responsible Research and Innovation](#) and contribute to the realisation of the [European Research Area](#)



# Gli strumenti (tecnologici e politici) ci sono già

Open peer review

Possibilità di fare Text and data mining

Finanziamento di progetti i cui risultati devono essere pubblicati ad accesso aperto

Richiesta (per ora) che vengano pubblicati ad accesso aperto anche i dati delle ricerche per permettere la riproducibilità dei risultati

Policy istituzionali



# Accesso aperto come espressione della ricerca responsabile

- E' necessario che i processi di produzione, validazione e disseminazione della ricerca siano trasparenti
- L'accesso aperto è certamente uno dei modi per riportare la ricerca scientifica ai suoi reali interlocutori, in primo luogo la società
- Responsabilità dei ricercatori
- Perché l'open access possa affermarsi come espressione della ricerca responsabile è necessario che la stessa responsabilità sia presente a livello di valutazione della ricerca, della definizione degli indicatori, della costruzione delle metriche