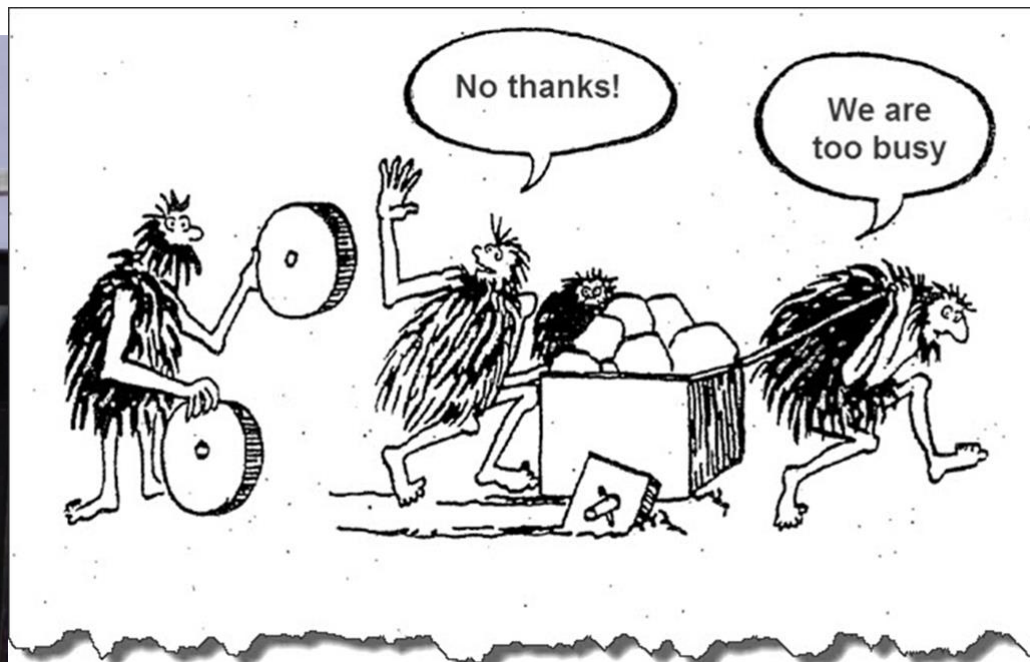


OPEN SCIENCE: un altro mondo è possibile

Elena Giglia



Genova, 18 ottobre 2018
elena.giglia@unito.it



...il migliore esempio di Open Science?



Qualcosa da portare via

...se non si capisce il valore trasformativo della Open Science, la si vede solo come ennesimo obbligo burocratico

Open Access/Open Science è un'opportunità, non una minaccia



Jon Tennant
@Protohedgehog

Following

My first talk of the year! Message is going to be that the opposite of 'open science' isn't 'closed science' - it's bad science.

...il contrario di Open Science è «Bad Science», non «Closed Science»

Open Science e Open Innovation hanno un legame stretto

...si può fare Open Science a piccoli passi, non «tutto e subito»

...fare Open Access e farlo correttamente è molto semplice...

... comunicazione scientifica,
oggi...

The Oligopoly of Academic Publishers in the Digital Era

Vincent Larivière, Stefanie Haustein, Philippe Mongeon

Published: June 10,

Article

Peter Suber @petersuber
May 13, 2018
Following

The Taylor & Francis journal *_Medical Teacher_* just published a 5-paragraph (1-page) comment on another article. doi.org/10.1080/014215...
For 24 hrs of access to the comment, T&F charges \$54. For 30 days of access to the issue in which the comment appears, it charges \$526.

Traduci il Tweet

Jon Tennant ✓ @Protohedgehog
Following

The smartest business model ever. Have all of your products and services performed for free by researchers, and then sell it back to them with an unholy markup. Try describing the model to a non-researcher, and they mock us for falling for it.

<https://twitter.com/Protohedgehog/status/98543931889741004>

We spend 1/3 of the total global research budget (~£59/175bn) on communicating research. People cannot access it.

Jon Tennant ✓ @Protohedgehog
Following

Researchers. Do you want your work to be read by other people? Do you honestly think that sticking a \$40 paywall in front of each paper is the best way to achieve this? There are dozens of choices available to you that don't cost money or your career. Learn them. Use them.

Traduci il Tweet

17:03 · 15 apr 2018 da Sukawati, Indonesia

<https://twitter.com/Protohedgehog/status/98553413358034534>

44 Retweet 96 Mi piace

Steven Salzberg @StevenSalzberg1

Nature and other Springer journals make all of their money from free labor provided by scientists, who write all the papers and do all of the peer review. And now they are cashing in: "Springer Nature aims to raise 1.2 billion euros in new money in IPO" reut.rs/2qqhp93

Elsevier: +38%



Me What You Got! - Tips for Young Researchers, 7 Sept 2017

journal publisher, had a margin last year of 38% on revenues of \$3.2 billion. Springer, a German firm that is the largest journal publisher, made 36% on sales of \$1.1 billion in 2011 (the most recent year for which data is available). Such firms are free for all, 4 May 2013

... paghiamo gli editori commerciali perché mettano sotto chiave il nostro contenuto...

China & SE Asia	RoW	Total Academic Library Spend	Open Access Revenues	Total A&S Content
-----------------	-----	------------------------------	----------------------	-------------------

... se no, non esisterebbe Sci-Hub



Science Home News

Who's downloading pirated papers?

EVERYONE

In rich and poor countries, researchers turn to the Sci-Hub website.

<http://www.sciencemag.org/news/2016/04/whos-downloading-p>

Scientific publishing is a rip-off. We fund the research - it should be free

George Monbiot



outrageous legacy. In the meantime, as a matter of principle, do not pay a penny to read an academic article. The ethical choice is to read the stolen material published by Sci-Hub.

Higher Education Network

Scientists should be solving problems, not struggling to access journals

It takes an average of 15 clicks for a researcher to find and access a journal article. This time could be much better spent

Benjamin Kaube

Mon 21 May 2018 07:30 BST

May 21, 2018



Bernard Rentier

@bernardrentier

Following

The single fact that providing free information on universal Science is illegal tells us a lot about how absurd it has become, in the Internet era, to rely on the old research publication model. [#FreeOpenAccessNow](#)

Jon Tennant @Protohedgehog

Oh wow. Looks like anyone can now create their own @sci_hub mirror github.com/bsidio/sci-hub You can use this to help accelerate research and society by providing free access to millions of research articles. But it's probably illegal, so don't do it.

Traduci il Tweet

08:37 - 10 mag 2018

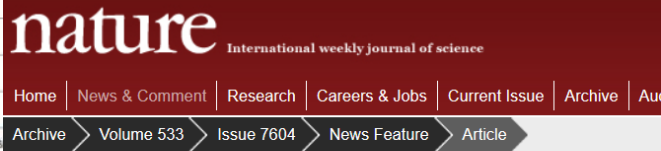
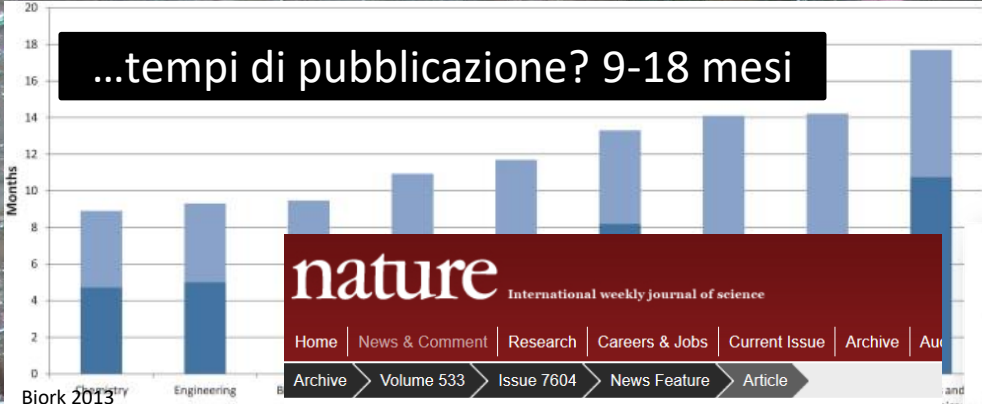
March 10, 2018

...funziona?

The Retraction Watch Leaderboard

...crescente numero di ritrattazioni per dati falsificati o fabbricati

...tempi di pubblicazione? 9-18 mesi



Biork 2013

NATURE | NEWS FEATURE

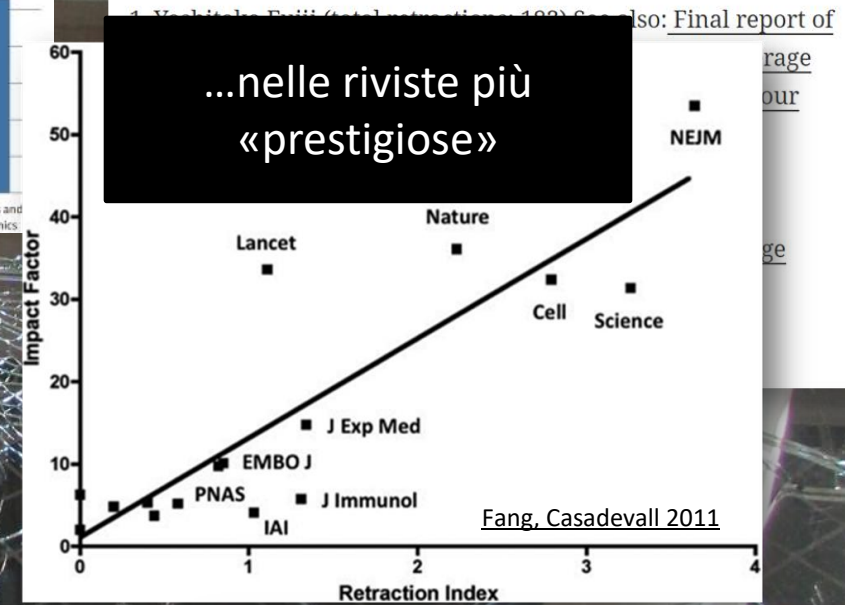
1,500 scientists lift the lid on reproducibility

Survey sheds light

Monya Baker

25 May 2016 | Cor

...crisi della
riproducibilità



Fang, Casadevall 2011

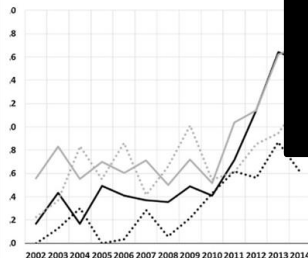
Tweet



March 2018

Gaming the system: When in 2010 Italian universities incorporated citations in promotion decisions, self-citation rates among social scientists went up by 81-179% sciencedirect.com/science/artic...

...autocitazioni
+179%



ARTICLE INFO ABSTRACT
Keywords: Self-citation; Post-publication misconduct; Incentives in science; Storage systems; Knowledge of science; Revisions of science
There is limited knowledge on the extent to which questionable practices, namely practices that do factors that affect their likelihood. This article a citation, i.e. citations of one's own work to how exploring the factors driving scientist' behavior to self-citations. We test the hypothesis in the lit positions is regulated by a national habilitation time record. The sample includes 886 scient

Harvard chiede il ritiro di 31 pubblicazioni del noto cardiologo Piero Anversa

Oct. 16, 2018

Contengono dati falsificati e/o inventati, come riferiscono la Harvard Medical School e il Brigham and Women's Hospital di Boston. Gli studi sotto accusa riguardano la possibilità - dimostrata falsa - di utilizzare le staminali per rigenerare il cuore



Foto: Brigham and Women's Hospital. Piero Anversa, M.D.

Does scientific misconduct do harm? The case of oldt

the real-life effects note that some of the tiny obscure ds. But a new meta-MA today suggests



... e la valutazione? «Osessione»

“Not only are we failing to provide the right incentives, we are actually providing perverse ones.”

As long as journal impact factors retain some role in the career development, journals should publish the distribution of their citations. The participants strongly supported the adoption of the San Francisco Declaration on Research Assessment (DORA) by publishers.

There was a call having to rely on



ROARS

Return On Academic Research

ROARS 28 marzo 2018

Impact or perish. L'ossessione per l'impatto delle pubblicazioni scientifiche genera frodi e condotte abusive

Goodhart's Law: “when a measure becomes a target, it ceases to be a good measure.”

Metrics are subject to manipulation, so we should look carefully not only at the number of citations but also at the quality of the research that number purports to measure.

“People game the system at every level and this risks the loss of valuable research in favour of fashionable research.”



ISI Web of Knowledge®
 Journal Citation Reports®
 2002 CR Science Edition

Journal: CURRENT BIOLOGY

Mark	Journal Title	ISSN	Total Cites	Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	CURR BIOL	0960-9822	20020	7.007	2.713	341	3.5	3.7

Journal Impact Factor

Cites in 2002 to items published in: 2001 = 3314
 2000 = 3917
 Sum: 7231

Number of items published in: 2001 = 528
 2000 = 504
 Sum: 1032

Calculation: Cites to recent items / Number of recent items = 7231 / 1032 = 7.007

ISI Web of Knowledge®
 Journal Citation Reports®
 2003 CR Science Edition

Journal: CURRENT BIOLOGY

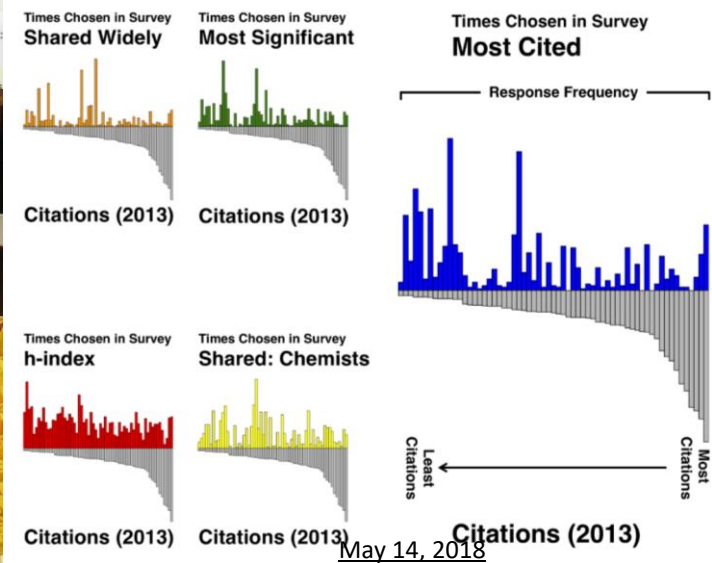
Mark	Journal Title	ISSN	Total Cites	Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	CURR BIOL	0960-9822	22589	11.910	2.682	331	3.8	4.0

Journal Impact Factor

Cites in 2003 to items published in: 2002 = 3314
 2001 = 3917
 Sum: 7231

Number of items published in: 2002 = 528
 2001 = 504
 Sum: 1032

Calculation: Cites to recent items / Number of recent items = 7231 / 1032 = 7.007



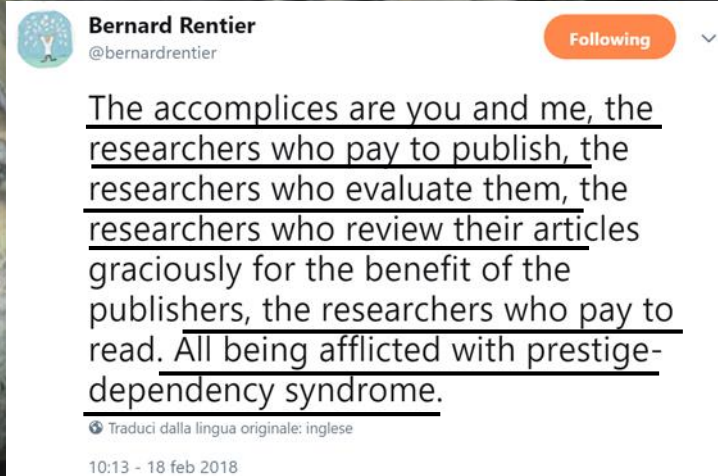
[siamo sulla strada sbagliata]

cord injury. First, there is increasing methodology. These range from neurological diseases, the lack of contamination of neural cell lines, poor reliability of published research (participant numbers are low), published research findings are commonly low in the biomedical literature. Surprisingly then, the rate of publication is slow and problematic [3]. Second, the number of papers retracted from the peer-reviewed literature is also increasing [4]. Third, there is an over-reliance on a scientist's publication metrics (numbers, journal impact factors, citation numbers) for progression, prizes, and research grants. Indeed, gaming the metrics of science is an occupational requirement for scientists, journal staff and university administrators. Publications now contain more spin (reliance on findings which are not justified by the statistics) and more liberal use of words such as 'novel' [5]. These trends are driven by an unhealthy culture in which it can be more important to publish a result than publish a correct result [6, 7]. The trends also expose deep flaws in the current systems of peer review.

This research culture can lead to cost- and corner-cutting, with hasty publication of irreproducible results and poor-quality work—it's an era in which scientists can fall prey to the temptation to do whatever they can get away with in order to publish. This leads to scientific misconduct, commonly defined as 'fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results'. A well-known recent case is Professor

- metodologia non solida
- risultati falsi, peer review debole
- enfasi sulla pretesa «novità»
- metriche onnipotenti, per cui truffarle è obbligo
- «PUBBLICARE UN RISULTATO»
INVECE DI UN «RISULTATO
CORRETTO»

...un abbraccio mortale



But let's not ignore the facts: the science system is in landslide transition from data-sparse to data-saturated. Meanwhile, scholarly communication, data management methodologies, reward systems and training curricula do not adapt quickly enough if at all to this revolution. **Researchers, funders and publishers (I always thought that meant making things public) keep each other hostage in a deadly embrace by continuing to conduct, publish, fund and judge science in the same way as in the past century.**

So far, no-one seems to be able to break this deadlock. Open Access articles are solve only a fraction of the problem. Neither 'open research data' alone will do. W





... cambiare panorama?

...un po' di ispirazione...



The best thing about **Internet** is that it's **open**. In every field it let us **share and innovate**.

In science, **OPENNESS IS ESSENTIAL**.

Open science doesn't mean ignoring economic reality.

Of course **we need business models to be sustainable**. But that **doesn't mean we have to carry on doing things the way they have always been done**.

So, wherever you sit in the value chain, whether you're a researcher or an investor or a policy maker, my message is clear:

let's invest in collaborative tools that let us progress...

Let's tear down the walls that keep learning sealed off.

And let's make science open.



Open Science

Open Definition

"Open data and content can be freely used, modified, and shared by anyone for any purpose"

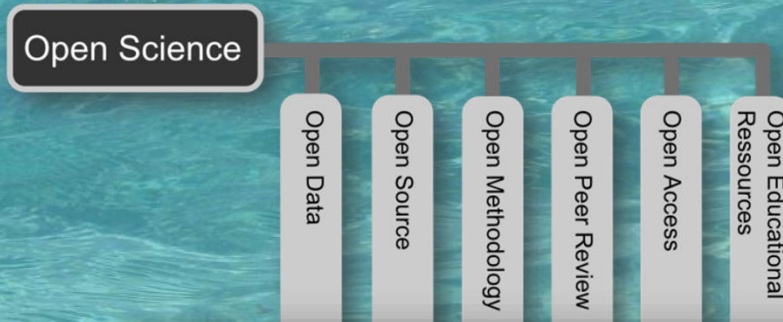
<http://opendefinition.org/>

A new approach to the research process



- Shifting focus from "publishing as fast as possible" to "sharing knowledge as early as possible"

Burgelman, Venice Nov 2016



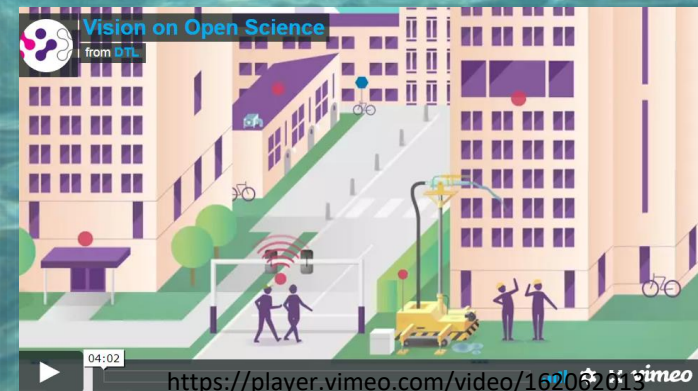
Open Science Depends on Open Minds



Neelie Kroes

Iscriviti 851

Open Science @openscience · 5 h
"Being open and transparent is an ongoing practice and not a check box at the end." - @biocrusoe #openscience



Open Science



Jeff Rouder

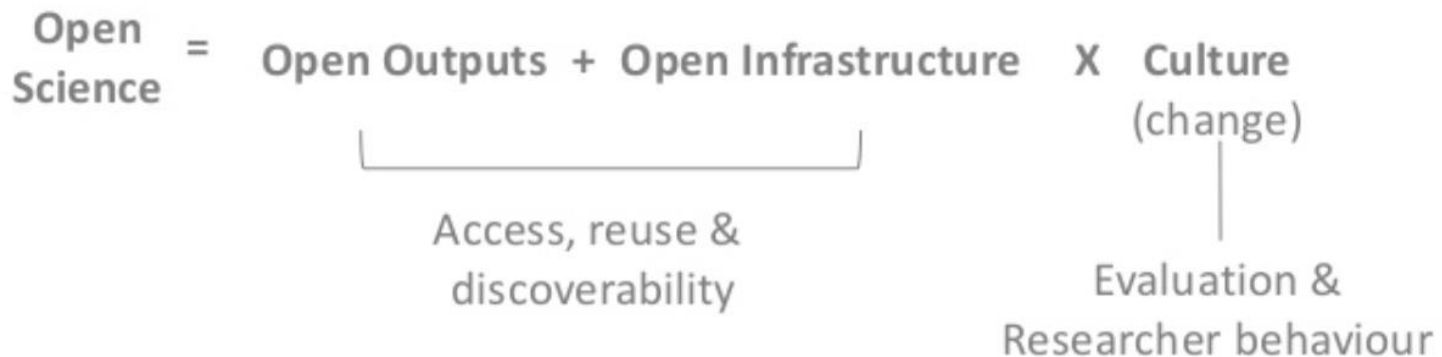
@JeffRouder

Segui

What is Open Science? It is endeavoring to preserve the rights of others to reach independent conclusions about your data and work.

Traduci il Tweet

21:47 - 5 dic 2017



C. Mac Callum, UKSG, April 2018

Open Science: risultati aperti + infrastruttura aperta x cambiamento culturale

Open Science

Open Science principles

Socio-cultural

- Inclusivity
- Equality
- Accountability
- Freedom
- Fairness



Jon Tennant

Technical

- Rigour
- Transparency
- Reproducibility
- FAIR
- TOP

Jon Tennant
@Protohedgehog

Following

My first talk of the year! Message is going to be that the opposite of 'open science' isn't 'closed science' - it's bad science.

Open Science is just good science!

Jon Tennant
@Protohedgehog

Following

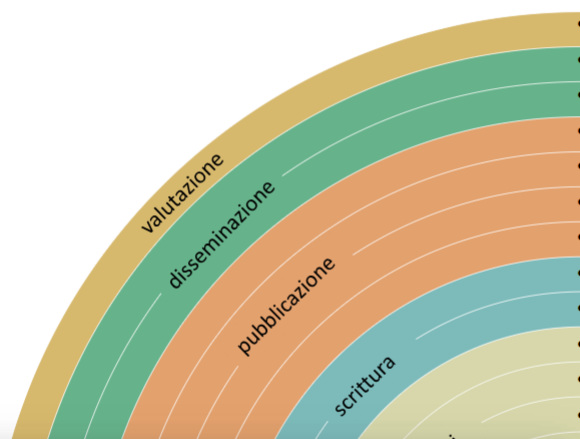
What is the difference between open science and good science? If research papers are inaccessible, with no code or data, cherry picked results, inability to even attempt to reproduce, is that really even science? Science without openness is more anecdote and faith than science.

Tennant Sept.2018

OPEN SCIENCE:
JUST
SCIENCE
DONE RIGHT

Open per...

Come puoi rendere Open ogni passo della ricerca...



- aggiungendo misure di impatto alternative, es. altmetrics
- comunicando sui social media, es. Twitter
- condividendo poster e presentazioni, es. su FigShare
- utilizzando licenze aperte, es. Creative Commons BY
- depositando in archivi o pubblicando su riviste Open
- provando la open peer review, es. PubPeer o F1000
- condividendo preprints, es. su OSF, arXiv o bioRxiv
- con formati leggibili dalle macchine, es. Jupyter o CoCalc
- con la scrittura collaborativa, es. Overleaf o Authorea
- condividendo protocolli e workflow, es. su Protocols.io
- condividendo note di laboratorio, es. OpenNotebookScience
- condividendo software, es. su GitHub con licenza GNU/MIT
- condividendo i dati, es. su Dryad, Zenodo o Dataverse
- pre-registrando esperimenti, es. su OSF o AsPredicted
- commentando pagine web, es. su Hypothes.is o Pund.it
- usando bibliografie condivise, es. su Zotero
- condividendo progetti di ricerca, es. su RIO Journal



Jon Tennant
@Protohedgehog

Following

To support 'open science' you don't have to agree with or practice the whole messy bulk of it. Share your papers openly; version your code; cite data sets; use open source software; blog. **Small steps can make a big difference.**

Traduci dalla lingua originale: inglese

18:09 - 27 feb 2018 da Praga, Repubblica Ceca

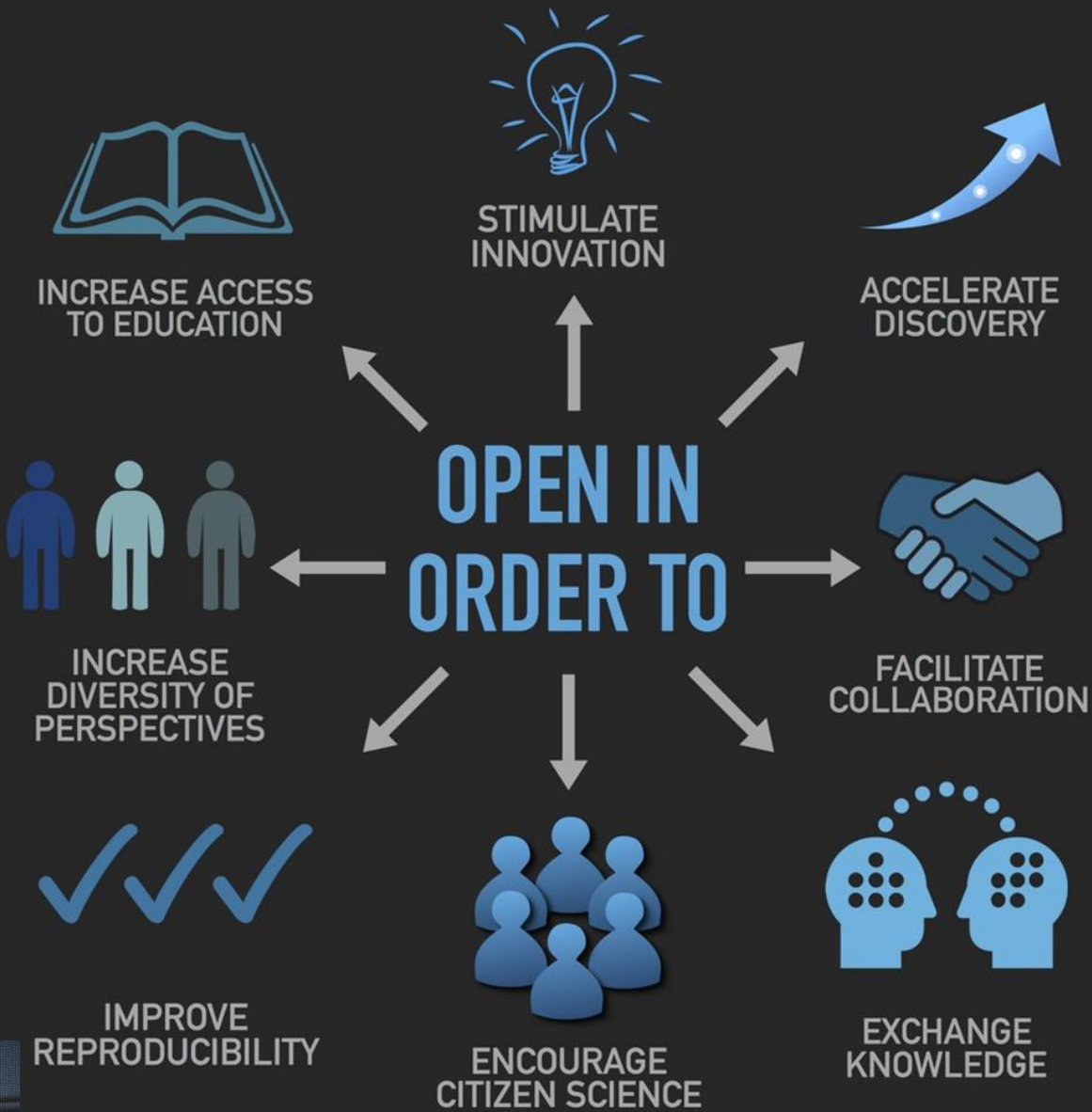
[DOI: 10.5281/zenodo.1147025](https://doi.org/10.5281/zenodo.1147025)

Traduzione: Elena Giglia



[DOI: 10.5281/zenodo.1195648](https://doi.org/10.5281/zenodo.1195648)

[una chiamata



whyopenresearch.org

#OAweek

... «core strategy» ...

HORIZON 2020

Open Science (Open A



Carlos Moedas

@Moedas



Segui

2/4 "Open as possible, as closed as necessary" is the new principle for all #data from publicly funded #research in Europe #openaccess

RETWEET

76

MI PIACE

32



Iryna Kuchma @irynakuchma · 18 nov 2015

#Openscience is about making sure that science serves innovation & growth – Günther Oettinger & Carlos Moedas



Wilma van Wezenbeek

@wvanwezenbeek

Following

#osc2018 @BurgelmanJean "2018 is the year of no return in #openscience"

Traduci il Tweet

10:32 - 13 mar 2018



European Commission

RESEARCH & INNOVATION

Open Science

European Commission > Research & Innovation > Open Science

Home

Open Access

European Open Science Cloud

Open Science Policy Platform

Groups

Open Science

European Commission Open Research Publishing Platform

The Commission proposes to fund a European Commission Open Research Publishing

TESTI E DATI OPEN BY DEFAULT (come fare)



The EU Framework Programme for Research and Innovation

HORIZON 2020

Open Science in Europa

- Rewards and Incentives
- Research Indicators and Next-Generation Metrics
- Future of Scholarly Communication
- European Open Science Cloud
- FAIR Data
- Research Integrity
- Skills and Education
- Citizen Science

**Integrated advice of the Open Science Policy Platform on
8 prioritised Open Science ambitions** May 29, 2018

Report, Sept.2017

Providing researchers with the skills and competencies they need to practise Open Science

Open Science Skills Working Group Report



Politiche nazionali e di ogni ateneo su Open Access e Open Data

COMMISSION RECOMMUNICATION

of 25.4.2017

on access to and preservation of

Removing barriers to open science

1. Change assessment, evaluation and reward systems in science 2
2. Facilitate text and data mining of content 10
3. Improve insight into IPR and issues such as privacy 16
4. Create transparency on the costs and conditions of academic communication 4

Developing research infrastructures

5. Introduce FAIR and secure data principles 16
6. Set up common e-infrastructures 18

Fostering and creating incentives for open science

7. Adopt open access principles. 22
8. Stimulate new publishing models for knowledge transfer. 23
9. Stimulate evidence-based research on innovations in open science. 26

Mainstreaming and further promoting open science policies

10. Develop, implement, monitor and refine open access plans 30

Stimulating and embedding open science in science and society

11. Involve researchers and new users in open science 32
12. Encourage stakeholders to share expertise and information on open science 34

Amsterdam Call for Action on Open Science



Evaluation of Research Careers fully acknowledging Open Science Practices

Rewards, incentives and/or recognition for researchers practicing Open Science

Report on OS and careers, July 2017

PlanS - cOAlitionS

cOAlitionS
Making
Open Access
a reality
by 2020

A DECLARATION OF COMMITMENT
BY PUBLIC RESEARCH FUNDERS
<http://scieur.org/coalition-s>

Plan S Sept. 4, 2018

Accelerating the transition to
full and immediate Open Access to
scientific publications



Open access to scientific publications
must become a reality by 2020 –
Robert-Jan Smits March 23, 2018

The key principle is as follows:

"After 1 January 2020 scientific publication
by national and European research coun-
Access Journals or on compliant Open Acc

IN ADDITION:

- Authors retain copyright of their publication with no restrictions. All publications must be published under an open license, preferably the Creative Commons Attribution Licence CC BY. In all cases, the license applied should fulfil the requirements defined by the Berlin Declaration;
- The Funders will ensure jointly the establishment of robust criteria and requirements for the services that compliant high quality Open Access journals and Open Access platforms must provide;

In case such high quality Open Access journals or platforms do not yet exist, the Funders will, in a coordinated way, provide incentives to establish and support them when appropriate; support will also be provided for Open Access infrastructures where necessary;

Where applicable, Open Access publication fees are covered by the Funders or universities, not by individual researchers; it is acknowledged that all scientists should be able to publish their work Open Access even if their institutions have limited means;

- When Open Access publication fees are applied, their funding is standardised and capped (across Europe);
- The Funders will ask universities, research organisations, and libraries to align their policies and strategies, notably to ensure transparency;
- The above principles shall apply to all types of scholarly publications, but it is understood that the timeline to achieve Open Access for monographs and books may be longer than 1 January 2020;
- The importance of open archives and repositories for hosting research outputs is acknowledged because of their long-term archiving function and their potential for editorial innovation;
- The 'hybrid' model of publishing is not compliant with the above principles;
- The Funders will monitor compliance and sanction non-compliance.

- NO RIVISTE IBRIDE
- TETTO ALLE APC
- APC PAGATE SEMPRE DA ISTITUZIONI
- AUTORI MANTENGONO COPYRIGHT, LICENZE CC BY

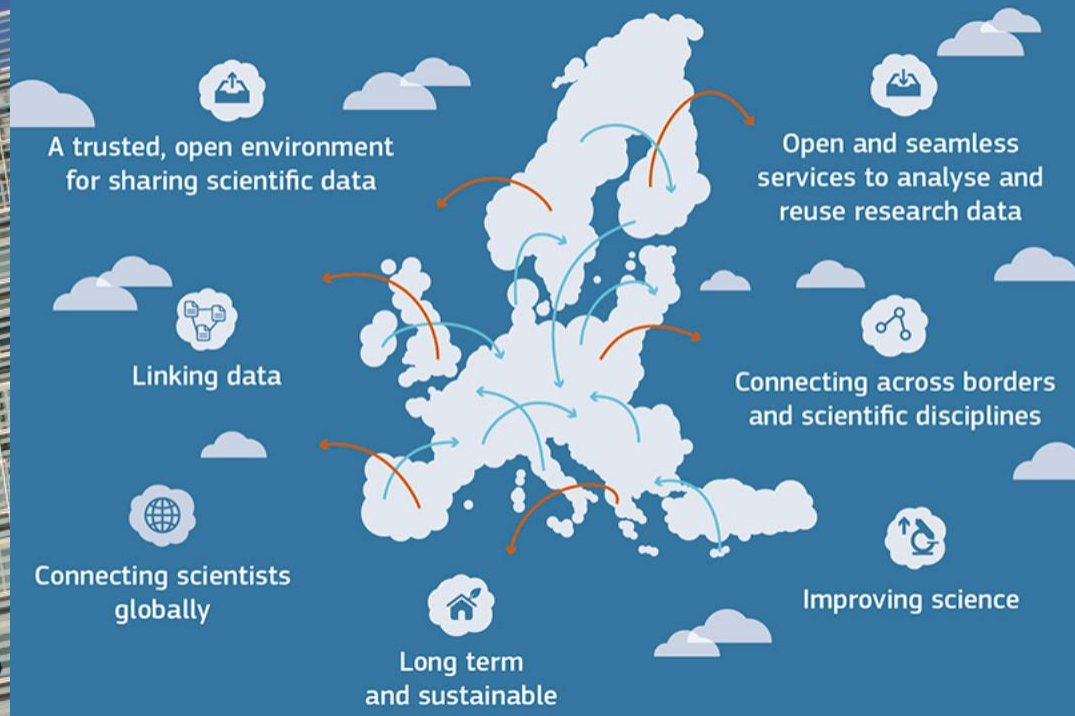
- REAZIONI
- DIBATTITO

EOSC – European Open Science

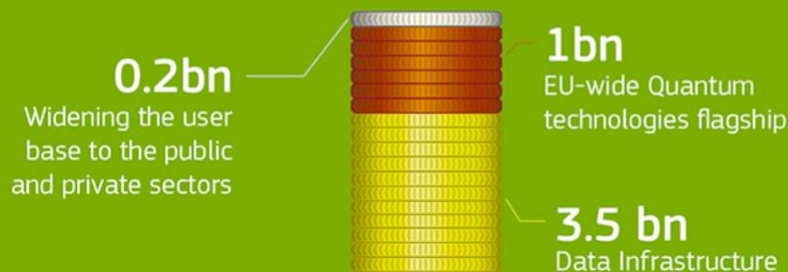


- necessario cambiamento culturale e formazione
- **NESSUNA DISCIPLINA, NESSUNA ISTITUZIONE E NESSUN PAESE DEVE ESSERE LASCIATO INDIETRO**
- 500.000 data stewards

BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES



CLOUD INITIATIVE, WITH ESTIMATED ADDITIONAL PUBLIC AND PRIVATE INVESTMENT OF €4.7 BN REQUIRED TO FURTHER DEVELOP THE EUROPEAN DATA INFRASTRUCTURE.



...servono testi... quindi Open Access

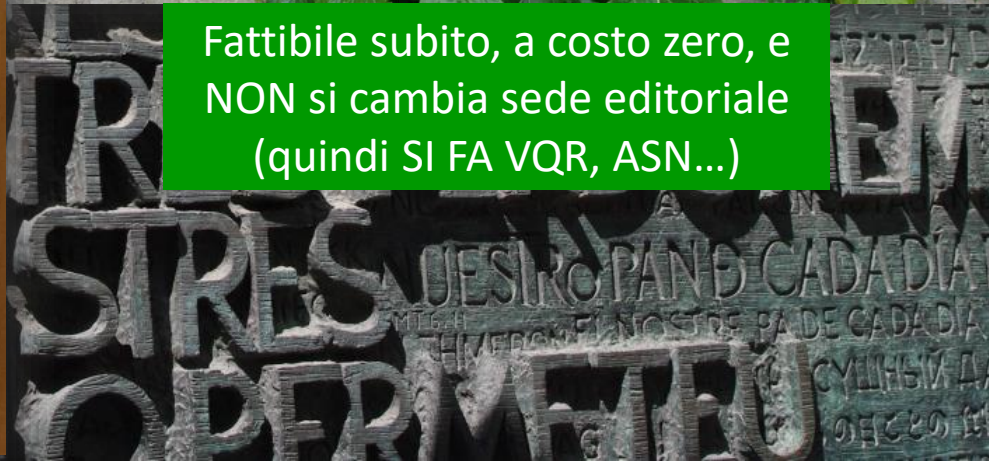


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SI **PUBBLICA** IN UNA RIVISTA OPEN ACCESS [senza abbonamento, 26% chiede spese pubblicazione]



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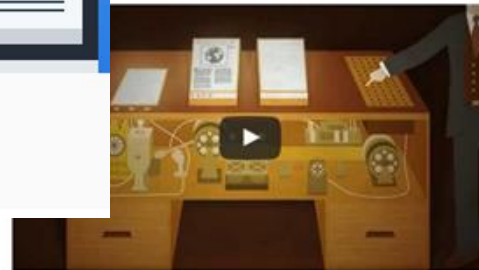


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... e non solo articoli...

PLOS COMPUTATIONAL BIOLOGY May 2017 Browse Publish About Search

OPEN ACCESS EDITORIAL

Ten simple rules to consider regarding preprint submission

Philip E. Bourne, Jessica K. Polka, Ronald D. Vale, Robert Kilev

Published: May 4, 2017 • <https://doi.org/10.1371/journal.pcbi>

92 Save	4 Citation
20,822 View	217 Share

PREPRINT
E OPEN NOTEBOOK

What is an Open Notebook?

Open Notebooks are documents that contain equations, visualisations, narrative text and live code that can be executed independently and interactively, with output visible immediately beneath the input.

They bring together analysis descriptions and results, which can be executed to perform the data analysis in real time.

<http://jupyter.org/index.html>

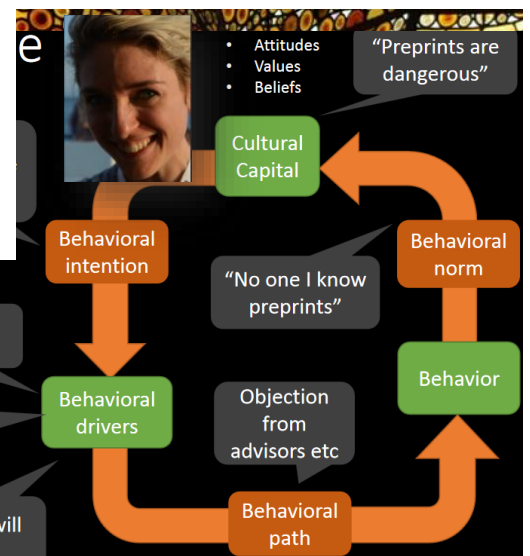
The Jupyter Notebook

The Jupyter Notebook is an open-source web application that lets you create and share documents that contain live code, equations, visualizations and narrative text. Uses include: data cleaning and transformation, numerical simulation, statistical modeling, data visualization, machine learning, and much more.

Try it in your browser Install the Notebook

Il valore dei preprint:
pubblicazione immediata
dei risultati

- priorità scientifica
elimina il «limbo» di attesa
post submission



J. Polka, June 2017

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- Rule 2: Preprints should be licensed and formatted to facilitate reuse
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- Rule 10: Preprints—one shoe does not fit all

...e non solo testi...

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15 September 2015

Dataset Open access

Data set 1 for CARBON AND GENE FLOW MEDIATED BY VIRUS LIFE

Wilson, Willie; Martínez Martínez, Joaquín; Archer, Steve; Fields, David; Gilg, Ilana; Flöge, Sheri

(show affiliations)

Experimental data sets used for manuscripts associated with coccolithovirus infection of *Emiliania huxleyi*. Flow cytometry data; expression data of genes associated with photophysiology, fatty acid metabolism and sulphur cycling.

Please contact Willie Wilson (wilwil@sahfos.ac.uk) for further information.

Files

Name	Date	Size	Download
Dddd_Diff_Expression_Rep_1.xlsx	15 Sep 2015	99.8 kB	Download
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Publication date:
15 September 2015
DOI
10.5281/zenodo.31006

Keyword(s):

Virus, *Emiliania huxleyi*, photophysiology, sulphur cycling, fatty acid metabolism

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GitHub repository for 'zimeon/signposting'. The page shows 18 commits, 2 branches, and 0 releases. It includes a sidebar with options like 'Code', 'Issues', 'Pull requests', and 'Pulse'. The main content area shows a commit history with details for a commit from 9 months ago.

protocols.io logo and URL: <https://www.protocols.io/>. The interface shows a protocol editor with a list of steps and a 'Fixation' protocol example.

figshare logo.

A collage of scientific posters and presentations. Visible titles include: 'Effects of agriculture on evolution of native species', 'Integrative modelling of higher order chromatin', 'IBM day poster', 'Constraining the structure of the proton with proton-nucleus collisions', 'Understanding focal pattern formation in yeast biofilms', and 'Negative modelling of a chromosome structure'.

SI POSSONO DEPOSITARE DATI,
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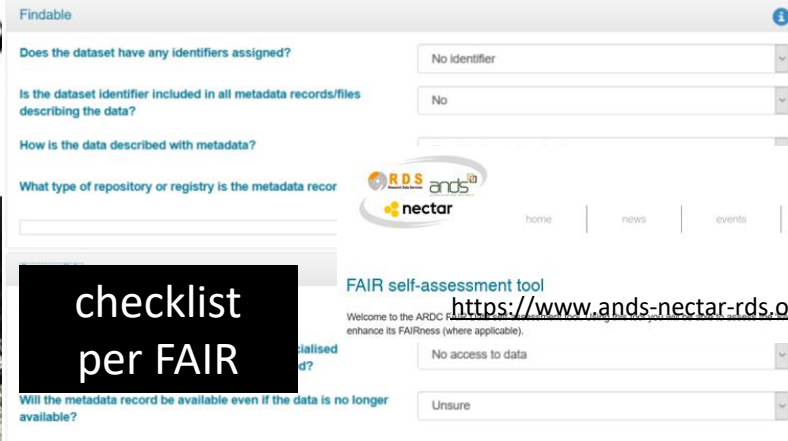
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The FAIR Guiding Principles for scientific data management and stewardship

Barend Mons

improve the infrastructure supporting the diverse set of stakeholders—representing agencies, and scholarly publishers—have jointly endorse a concise and measurable guideline for those wishing to enhance the

March 2016



F=METADATI, IDENTIFICATIVI
PERSISTENTI...

A= CONSERVAZIONE SUL LUNGO
PERIODO

I=FORMATI APERTI, INTEROPERABILI

R=DOCUMENTAZIONE E LICENZE

...e con un Data Management Plan

IOSSG



IOSSG

Italian Open Science Support Group

- DMP È
- UN MODO STRUTTURATO DI PENSARE AI PROPRI DATI: raccolta, conservazione, descrizione, condivisione
 - living document: va aggiornato

DATASET DESCRIPTION	Descrivere i dati esistenti o che si intendono creare, indicandone provenienza, natura e ordine di grande Motivare la creazione di nuovi dataset e relativo val aggiunto.
Provenance of data (content)	Descrivere se i dati provengono da interviste, indagini, sono estratti da archivi disciplinari, banche dati e/o da altri progetti (in tal caso, segnalare il titolo dei progetti)
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Type of data	Descrivere se sono qualitativi, quantitativi

Data Wizard per gestire i dati

<https://app.dsw.fairdata.solutions/questionnaire>

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Information-theoretic approach to quantum error correction and reversible measurement
M. A. Nielsen, Carlton M. Caves, Benjamin Schumacher, Howard Barnum
Published 8 January 1998. DOI: 10.1098/rspa.1998.0160

Article Info & Metrics eLetters PDF Previous Next

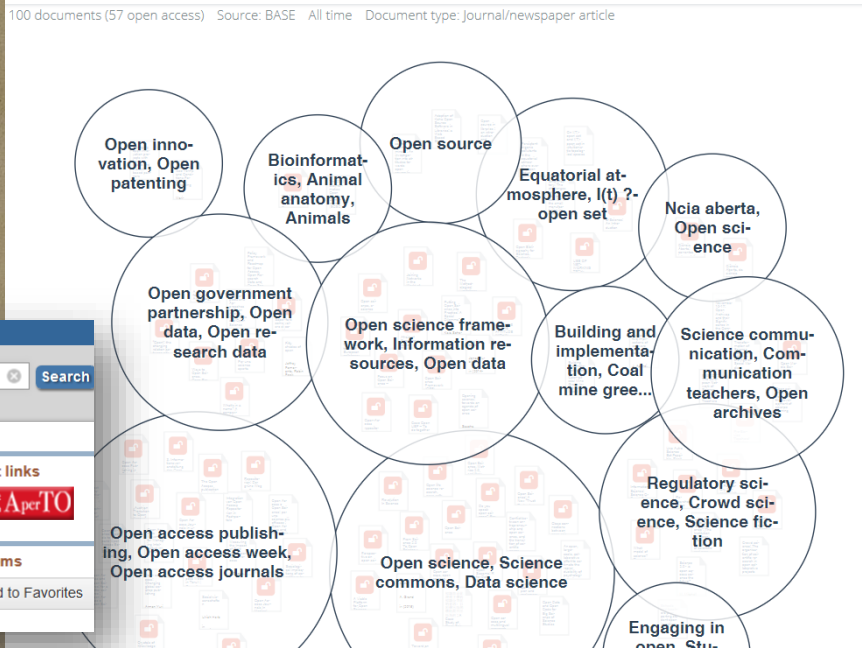
Abstract
Quantum operations provide a general description of the state changes allowed by quantum mechanics. The reversal of quantum operations is important for quantum error-correcting codes, teleportation and reversing quantum measurements. We derive information-theoretic conditions and equivalent algebraic conditions that are necessary and sufficient for a general quantum operation to be reversible. We analyse the thermodynamic

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- ma servono i testi e dati aperti

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Breast Cancer Res. Treat. 1988 May;11(2):147-53.

Distribution of Ha-RAS-1 proto-oncogene alleles in breast cancer patients and in a control population.

Saglio G¹, Camaschella C, Giari M, Serra A, Guerrasio A, Peirone B, Gasparini P, Mazza U, Ceppellini R, Biglia N, et al.

Author information

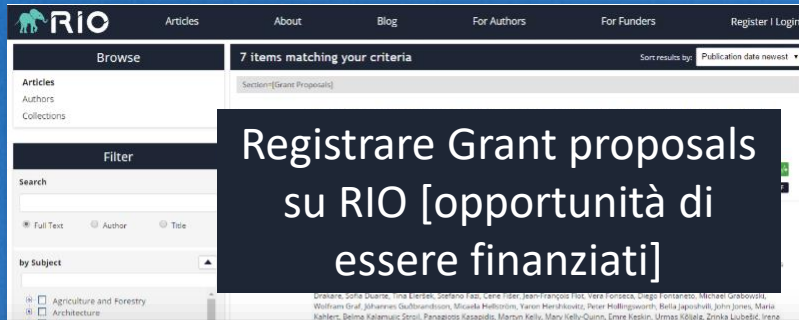
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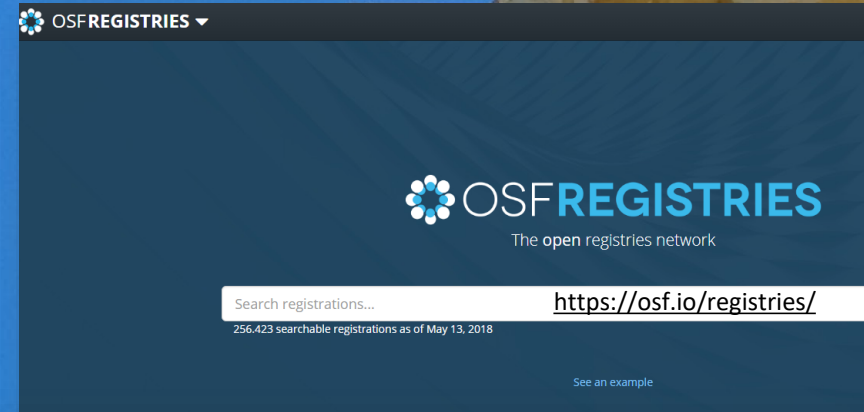
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Registrare Grant proposals su RIO [opportunità di essere finanziati]

The screenshot shows the RIO website interface with a search bar and a list of results. A dark overlay with white text is centered over the page.



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Majesty The Queen

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Ragioni per No

Valid reasons not to participate in open science practices

Casper J. Albers*

Abstract

The past years have seen a sharp increase in the attention for open science practices. Such practices include pre-registration and registered reports, sharing of materials, open access publishing and attention to reproducibility of research. Despite the overwhelming amount of evidence highlighting the benefits of open science, some researchers remain reluctant. In this paper, I will outline valid reasons for researchers not to participate in open science practices.

Discussion

There are no valid reasons.

Whose side are you on?

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Le NUVOLE
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c'è chi costruisce MURI

e chi MULINI A VENTO



... e voi?

...grazie!