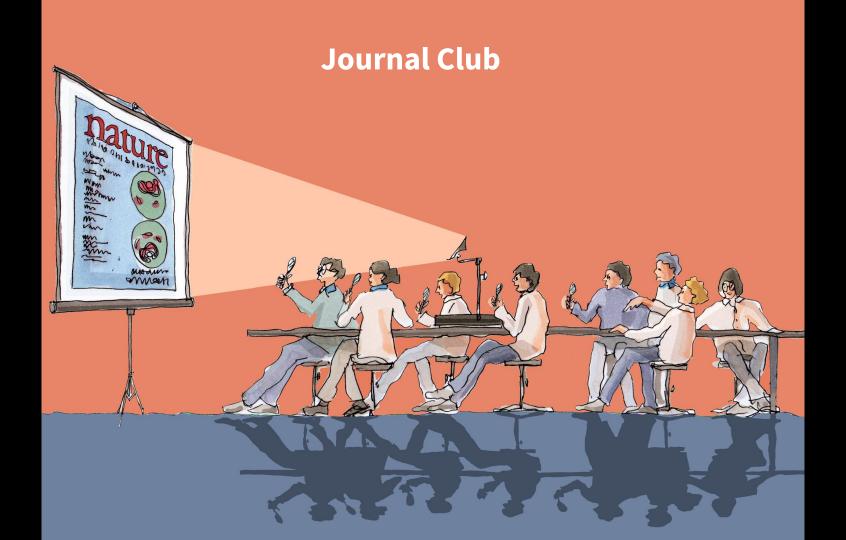


PUBPEER

The online journal club



The Scientific Record

The basis for:

Current and future research (including clinical trials)

Public policy (medical, environmental, etc)

Healthcare



The Scientific Record

The basis for:

Current and future research (including clinical trials)

Public policy (medical, environmental, etc)

Healthcare

The Poldermans case

"...European Society of Cardiology guideline recommending the liberal use of beta-blockers [...] was partly based on unreliable research."

Forbes / Pharma & Healthcare

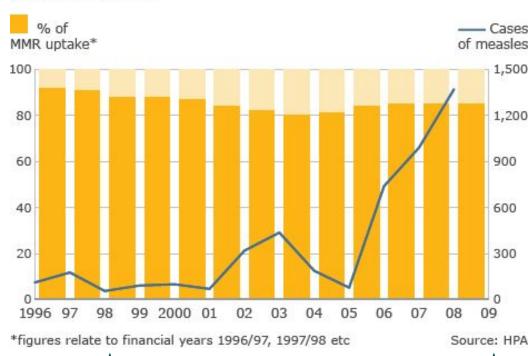
IAN 15, 2014 @ 12:37 PM 45,237 VIEW

Medicine Or Mass Murder? Guideline Based on Discredited Research May Have Caused 800,000 Deaths In Europe Over The Last 5 Years

The Wakefield Case

- Falsified vaccination-autism claims
- Measles epidemics

MMR and measles





Published



Retracted

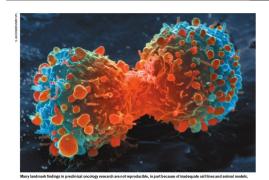
"Fifty-three papers were deemed 'landmark' studies [...] scientific findings were confirmed in only 6 (11%) cases."

-Amgen USA

COMMENT

AVIAN INFLUENCA Shift expertise to track mutations where they emerge a 504

EARTH SYSTEMS Past climates give valuable clues to future warming \$537 lost letter tracked using Google p.540 OBITUARY Wylie Vale and an elusive stress hormone p542



Raise standards for preclinical cancer research

C. Glenn Begley and Lee M. Ellis propose how methods, publications and incentives must change if patients are to benefit.

If forts over the past decade to characterize the genetic alterations fin human cancers have led to a better understanding of molecular drivers of this complex set of diseases. Although we in the cancer field hoped that this would lead to more effective drug, shistorically our ability to translate cancer research to clinical success has been meralabylow. Sadly, chircial

trials in oncology have the highest failure rate compared with other therapeutic areas. Given the high unmet need in oncology, it is understandable that barriers to clinical development may be lower than for other disease areas, and a larger number of drugs with suborphimal preclinical validation will enter oncology trials. However, this low success rate is not sustainable or acceptable, and

investigators must reassess their approach to translating discovery research into greater clinical success and impact.

Many factors are responsible for the high failure rate, notwithstanding the inherently difficult nature of this disease. Certainly, the limitations of preclinical tools such as inadequate cancer-cell-line and mouse models make it difficult for even >

29 MARCH 2012 | VOL 483 | NATURE | 531 © 2012 Macmillan Publishers Limited. All rights reserved In 67 projects only 33% of published preclinical studies could be validated to the point at which projects could continue.

-Bayer HealthCare Germany

CORRESPONDENCE

Believe it or not: how much can we rely on published data on potential drug targets?

Florian Prinz, Thomas Schlange and Khusru Asadullah

Nature Rev Drug Discovery 2011

"100 experimental and correlational studies published in three psychology journals.

39% of effects were subjectively rated to have replicated the original result"



RESEARCH ARTICLE SUMMARY

PSYCHOLOGY

Estimating the reproducibility of psychological science

Open Science Collaboration*

Science 2015

"...the complex system for ensuring the reproducibility of biomedical research is failing and is in need of restructuring."

NATURE | COMMENT

Policy: NIH plans to enhance reproducibility

Francis S. Collins & Lawrence A. Tabak

27 January 2014

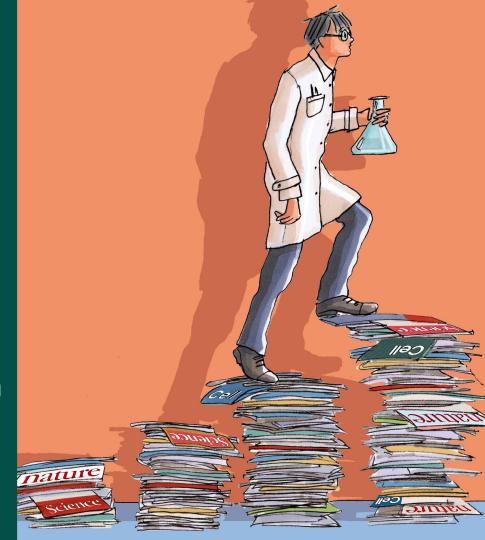
Francis S. Collins and Lawrence A. Tabak discuss initiatives that the US National Institutes of Health is exploring to restore the self-correcting nature of preclinical research.

Nature 2014

Pressure to Publish

"best" journals = career success (e.g. jobs, funding, promotions, etc.)

Potentially "high-impact" research at expense of careful work

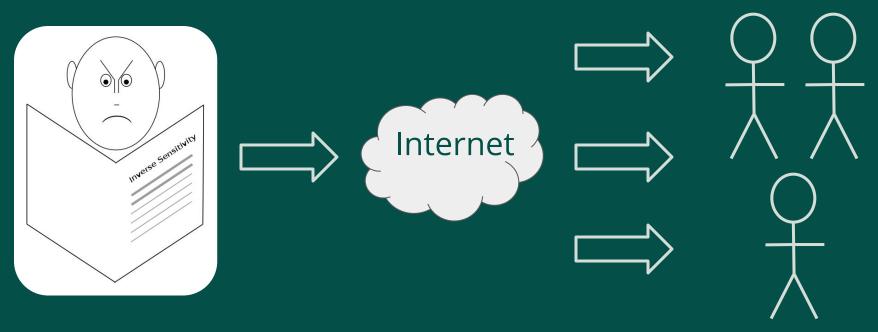


Conflicts of interest impede correcting the scientific record

Authors / Journals / Institutions

"It is difficult to get a man to understand something, when his salary depends upon his not understanding it!" - Upton Sinclair

Bypass conflicts of interest

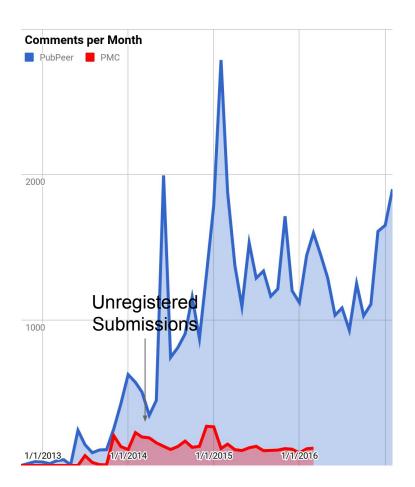


Researcher to researcher - no intermediaries

> 70,000 comments

14,000 articles

2300 journals



Anonymous with Layered Safeguards

- Comments based on PUBLICLY VERIFIABLE information
- Comments moderated (not scientific review)
- Facilities for reporting abuse
- Permanent right of reply (author alerts)
- Show original data (full access coming!)
- Community surveillance
- Remember: publication was authors' choice



Another anti-vaxxer

- Published September 5th
- First PubPeer comment on September 20th
- Retracted October 10th



Contents lists available at ScienceDirect

Journal of Inorganic Biochemistry

journal homepage: www.elsevier.com/locate/jinorgbio

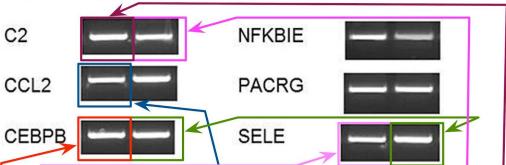


Subcutaneous injections of aluminum at vaccine adjuvant levels activate innate immune genes in mouse brain that are homologous with biomarkers of autism



Dan Li^a, Lucija Tomljenovic^a, Yongling Li^a, Christopher A. Shaw^{a,b,c,*}

- ^a Dept. of Ophthalmology and Visual Sciences, University of British Columbia, Vancouver, British Columbia, Canada
- b Program in Experimental Medicine, University of British Columbia, Vancouver, British Columbia, Canada
- ^c Program in Neuroscience, University of British Columbia, Vancouver, British Columbia, Canada



Browser Add-ons

Put comments directly on journals



Export V



Journal of Inorganic Biochemistry

Volume 177, December 2017, Pages 39-54



Subcutaneous injections of aluminum at vaccine adjuvant levels activate innate immune genes in mouse brain that are homologous with biomarkers of autism

Dan Li ^a, Lucija Tomljenovic ^a, Yongling Li ^a, Christopher A. Shaw ^{a, b, c} △ ⊠

⊞ Show more

https://doi.org/10.1016/j.jinorgbio.2017.08.035

35 comments on PubPeer (by: Calathus Mollis, Crepis Bursifolia, Mitracarpus Capitatus, Macrophthalmus Grandidieri, Sidymella Angulata, Caulanthus Californicus, Asclepias Macropus, Peristrophe Hyssopifolia, Caloptilia Kadsurae, Condylocarpon Amazonicum, Hoya Camphorifolia, Maniola Telmessia, Michael J. I. Brown. Centropyge Aurantia)

Under a Creative Commons license

open accessGet rights and content

Highlights

Mechanisms underlying aluminum adjuvant neurotoxicity have

The season that the water was all

Browser Add-ons

Put comments directly on journals

S NCBI Resources ☑ How To ☑ Sign in to NCBI PubMed christopher shaw Search Create RSS Create alert Advanced Help Article types Format: Summary - Sort by: Most Recent - Per page: 20 -Send to - Filters: Manage Filters Clinical Trial Review Results by year Customize ... Search results Items: 1 to 20 of 258 Text availability << First < Prev Page 1 of 13 Next > Last >> Free full text Meta-analysis of pharmacogenetic interactions in amyotrophic lateral sclerosis clinical trials Full text 1. van Eijk RPA, Jones AR, Sproviero W, Shatunov A, Shaw PJ, Leigh PN, Young CA, Shaw CE, Mora G, Download CSV DuhMad Mandrioli J. Borghero G. Volanti P. Diekstra FP, van Rheenen W. Verstraete E. Eiikemans MJC. Commons Veldink JH, Chio A, Al-Chalabi A, van den Berg LH, van Es MA; For UKMND-LiCALS and LITALS Reader comments Find related data Trending articles Neurology. 2017 Oct 4. pii: 10.1212/WNL.0000000000004606. doi: 10.1212/WNL.000000000004606. [Epub ahead of Database: Select **Publication dates** 5 years PMID: 28978660 10 years Similar articles Custom range. C9orf72 poly GA RAN-translated protein plays a key role in Amyotrophic Lateral Sclerosis via 2. aggregation and toxicity. Search details Humans Lee YB, Baskaran P, Gomez J, Chen HJ, Nishimura A, Smith B, Troakes C, Adachi Y, Stepto A, Other Animals Shaw, Christopher[Full Author Name] Petrucelli L, Gallo JM, Hirth F, Rogelj B, Guthrie S, Shaw CE. OR Shaw, Christopher[Full Hum Mol Genet. 2017 Sep 13. doi: 10.1093/hmg/ddx350. [Epub ahead of print] Investigator Namel Clear all PMID: 28973350 Similar articles Show additional filters Search Letter to the editor. See more.. 3. Crépeaux G. Exlev C. Shaw CA. Gherardi RK. Toxicology, 2017 Sep 1;390:159. doi: 10.1016/j.tox.2017.09.010. Epub 2017 Sep 18. No abstract available Recent Activity Turn Off Clear PMID: 28928034 Q christopher shaw (258) Similar articles Subcutaneous injections of aluminum at vaccine adjuvant levels activate innate immune genes in Robotic esophagectomy: modified McKeown 4. mouse brain that are homologous with biomarkers of autism Li D. Tomljenovic L. Li Y. Shaw CA. A man with COPD, fever, and leucocytosis. J Inorg Biochem. 2017 Sep 5;177:39-54. doi: 10.1016/j.jinorgbio.2017.08.035. [Epub ahead of print] Q Kemp Kernstine (102) Self-control relies on glucose as a limited energy source: willpower is more tha.. PubMed PMID: 28923356 Free Article Similar articles 1 comment See more... Skeletal trauma reflects hunting behaviour in extinct sabre-tooth cats and dire wolves.

5. Brown C. Balisi M. Shaw CA, Van Valkenburgh B.

Peeriodicals.com Lightweight Virtual Journals



LOGIN REQUEST INVITATION

Updated Jun 28, 2018

19 subscribers

Theoretical neuroscience

Theory of spike initiation, sensory systems, autonomous behavior, epistemology

Romain Brette







This journal highlights a number of papers that the editor personally finds interesting for computational or theoretical neuroscience, in particular but not limited to spike initiation, sensory systems, autonomous behavior and epistemology of neuroscience. These are not necessarily theoretical papers, but somehow relevant to theoretical neuroscientists (or more accurately, to the editor).

Can robots make good models of biological behaviour? (2001-12)

http://www.ncbi.nlm.nih.gov/pubmed/12412325

Jun 28, 2018 - This is an essay about the epistemology of biorobotics, which consists in making robotic models of animals with the goal of understanding biology (as opposed to solving robotics problems). It is a mine of references about the epistemology of modelling, and in particular what we mea...

What Might Cognition Be, If Not Computation? (1995)

Tim Van Gelder

http://dx.doi.org/10.2307/2941061

Jun 22, 2018 - Because we are so used to think of the brain as a computer, some physical thing implementing computations (hence the name of the field « computational neuroscience »), a typical reaction to criticisms of that view is : « what else could it be, if not computation ? ». The ambition o...

Causal Circuit Explanations of Behavior: Are Necessity and Sufficiency Necessary and Sufficient? (2017)

Alex Gomez-Marin

http://dx.doi.org/10.1007/978-3-319-57363-2_11

Jun 21, 2018 - This epistemological paper makes a number of important points about what constitutes an explanation in neuroscience, with many interesting pointers to relevant ideas in philosophy and psychology. A strong tendency in current literature is to identify neural circuits that are « nece...

'Necessary and sufficient' in biology is not necessarily necessary - confusions and erroneous conclusions resulting from misapplied logic in the field of biology, especially neuroscience

Motojiro Yoshihara, Motovuki Yoshihara

http://dx.doi.org/10.1080/01677063.2018.1468443 Man 20 2010. This arise and related and a substitute the last of size is the constitute and the second flowers.



Subjects

Neuroscience (miscellaneous)

Behavioral Neuroscience

Cellular and Molecular Neuroscience

Cognitive Neuroscience

Developmental Neuroscience Sensory Systems

Multidisciplinary Computational Systems

Goals



PUBPEER

The online journal club

- . Worldwide journal club
- Quickly pass information between scientists
- Put focus on the data
- Encourage wider use of preprints (arXiv, bioRxiv)



F1000Research an open science Journal for Life scientists





Post-Publication Peer Review

PubMed F1000 Personal Blogs Retraction Watch