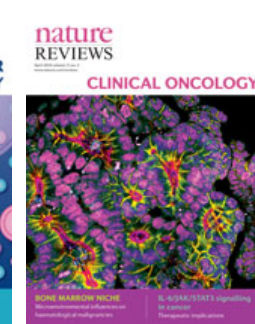
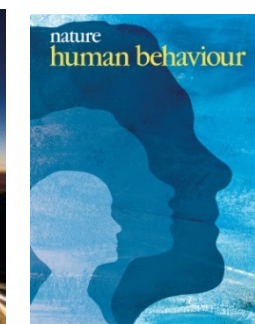
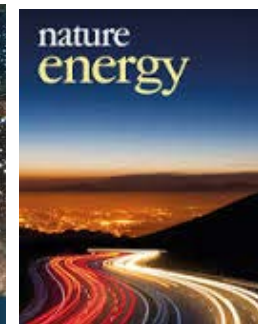
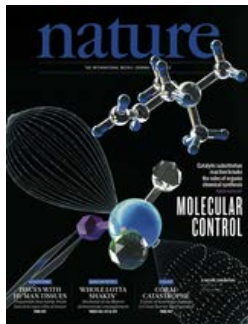


Nature Research Editorial Strategy & Innovation.

Ritu Dhand PhD

Nature Editorial Director



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nature research

Nature editorial structure

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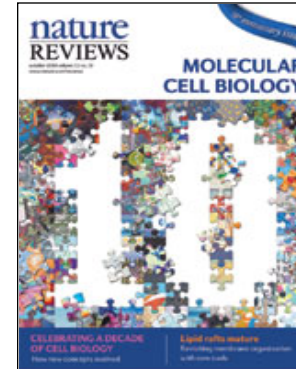
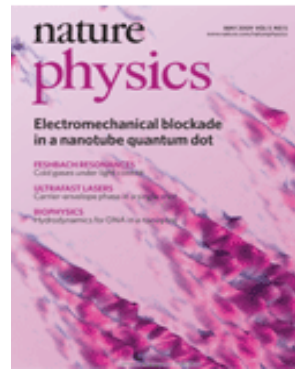
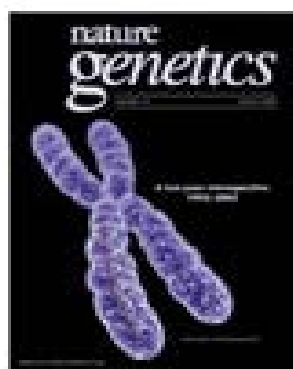
Nature Reviews

16 biology Editors
10 physical sciences

14 life science Journals
12 physical science Js

27 life science Editors
25 physical science Ed

7 life science Js
9 Clinical Js
3 physical science



1869 to 2018



A WEEKLY ILLUSTRATED JOURNAL OF SCIENCE

*"To the solid ground
Of Nature trusts the mind which builds for aye."*—WORDSWORTH

THURSDAY, NOVEMBER 4, 1869

NATURE: APHORISMS BY GOETHE

NATURE! We are surrounded and embraced by her: powerless to separate ourselves from her, and powerless to penetrate beyond her.

Without asking, or warning, she snatches us up into her circling dance, and whirls us on until we are tired, and drop from her arms.

She is ever shaping new forms: what is, has never yet been; what has been, comes not again. Everything is new, and yet nought but the old.

We live in her midst and know her not. She is incessantly speaking to us, but betrays not her secret. We constantly act upon her, and yet have no power over her.

The one thing she seems to aim at is Individuality; yet she cares nothing for individuals. She is always building up and destroying; but her workshop is inaccessible.

Her life is in her children; but where is the mother? She is the only artist; working-up the most uniform material into utter opposites; arriving, without a trace of effort, at perfection, at the most exact precision, though always veiled under a certain softness.

Each of her works has an essence of its own; each of her phenomena a special characterisation: and yet their diversity is in unity.

She performs a play; we know not whether she sees it herself, and yet she acts for us, the lookers-on.

Incessant life, development, and movement are in her, but she advances not. She changes for ever and ever, and rests not a moment. Quietude is inconceivable to her, and she has laid her curse upon rest. She is firm. Her steps are measured, her exceptions rare, her laws unchangeable.

She has always thought and always thinks; though not as a man, but as Nature. She broods over an

all-comprehending idea, which no searching can find out.

Mankind dwell in her and she in them. With all men she plays a game for love, and rejoices the more they win. With many, her moves are so hidden, that the game is over before they know it.

That which is most unnatural is still Nature; the stupidest philistinism has a touch of her genius. Whoso cannot see her everywhere, sees her nowhere rightly.

She loves herself, and her innumerable eyes and affections are fixed upon herself. She has divided herself that she may be her own delight. She causes an endless succession of new capacities for enjoyment to spring up, that her insatiable sympathy may be assuaged.

She rejoices in illusion. Whoso destroys it in himself and others, him she punishes with the sternest tyranny. Whoso follows her in faith, him she takes as a child to her bosom.

Her children are numberless. To none is she altogether miserly; but she has her favourites, on whom she squanders much, and for whom she makes great sacrifices. Over greatness she spreads her shield.

She tosses her creatures out of nothingness, and tells them not whence they came, nor whither they go. It is their business to run, she knows the road.

Her mechanism has few springs—but they never wear out, are always active and manifold.

The spectacle of Nature is always new, for she is always renewing the spectators. Life is her most exquisite invention; and death is her expert contrivance to get plenty of life.

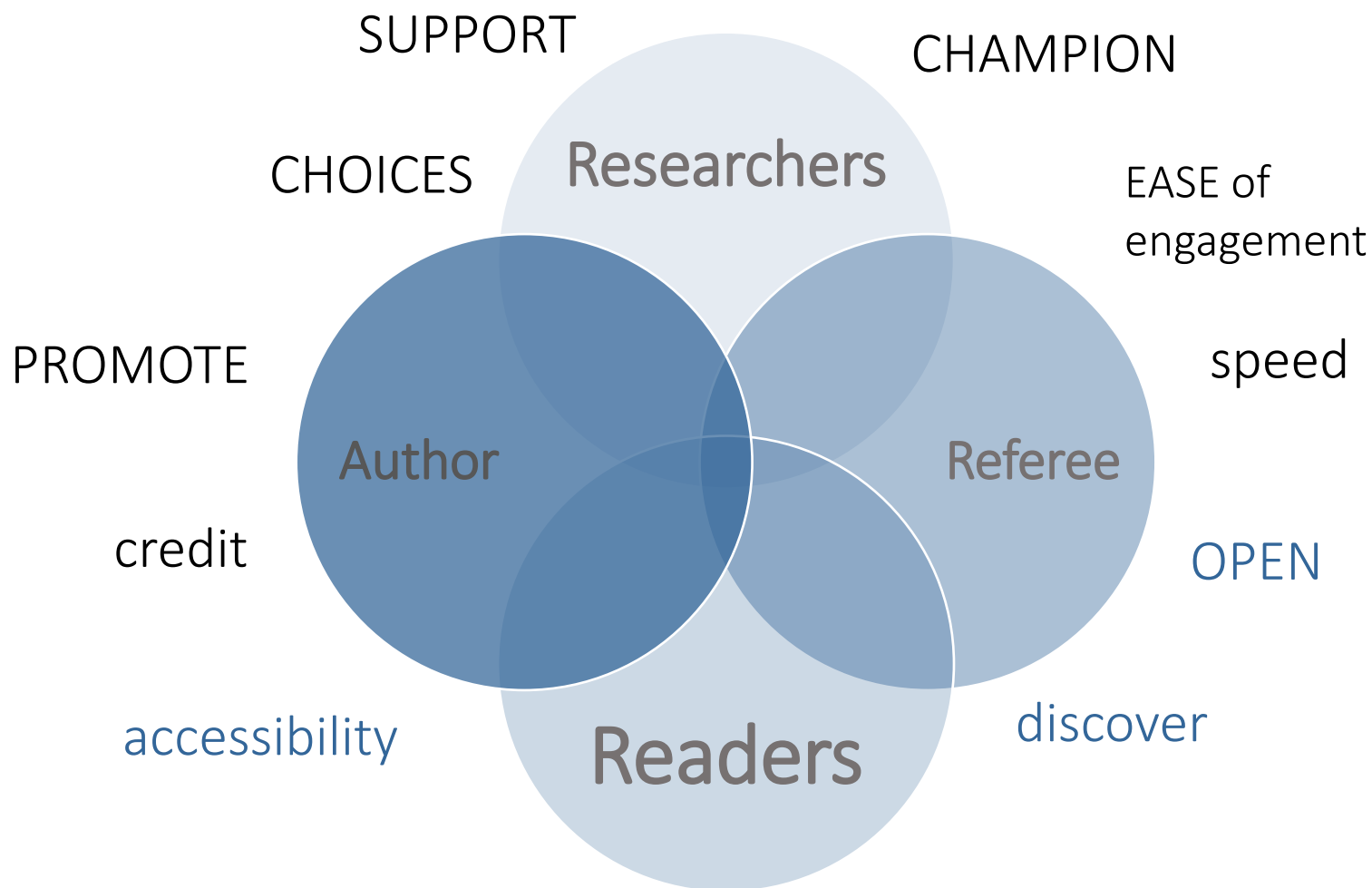
She wraps man in darkness, and makes him for ever long for light. She creates him dependent upon the earth, dull and heavy; and yet is always shaking him until he attempts to soar above it.

149 years

*To communicate the world's
best and most important
science to scientists across
the world and to the wider
community interested in
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Transparency

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Peer Review

Is there a perfect system?

PEER REVIEW

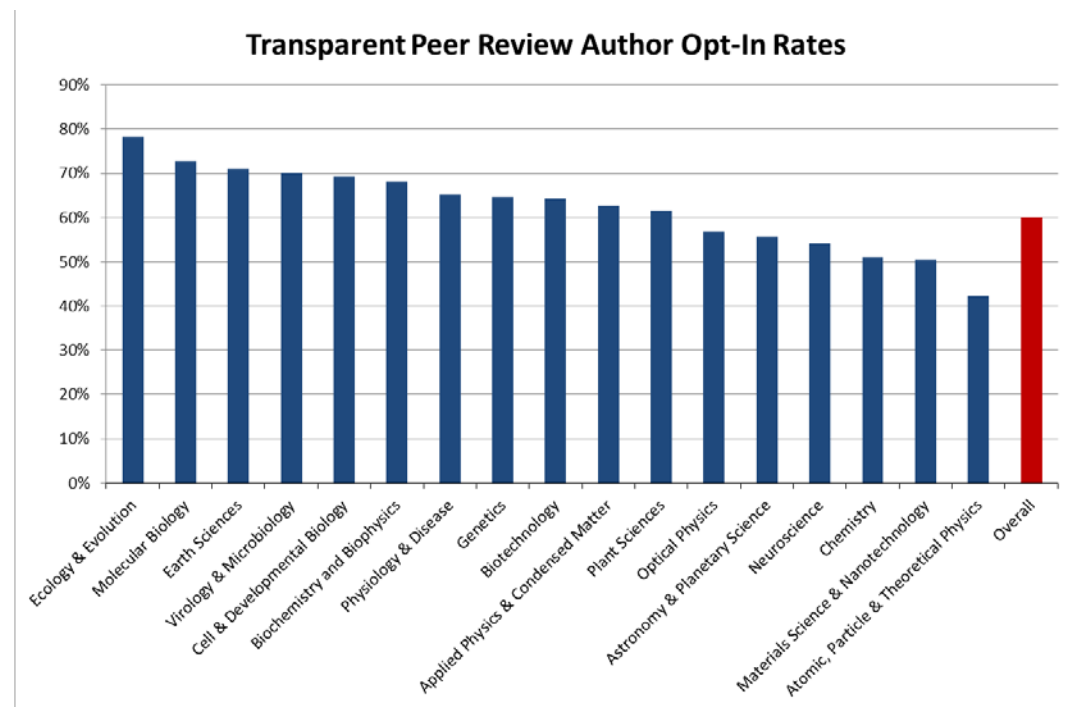


- Nature Journals have a two tier system. First review by the editor, followed by closed peer review by experts in the field.
- Traditional peer review is being challenged.
- We want to move towards giving more transparency in peer review and removing bias and as such have trialled and rolled out.
 - Double-blind Peer review
 - Publishing Referee Reports
 - Giving referees recognition at publication
 - Opening up the peer review procedure

Transparent peer review at *Nature Communications*



- Trial to publish anonymised referee reports (2016).
- Both author and peer reviewer agreement required.
- Ecologists and evolutionary biologists opt in at ~80% and most molecular biologists averaging around 70%.
- Atomic and particle physicists at ~40%. Materials scientists and Chemists also at around 50% for opt-in.
- The figure shows the author opt-in rate across the different research areas for 741 published papers.
- The average opt-in across the journal is about 60%.



Sharing research early in peer review

PEER REVIEW



Around 110 submissions

60% of papers added to preprint servers after our prompt

69% Life Sciences. Trial live on Nature Communications Sep 2017

Preprints under consideration at Nature Communications

Increasing transparency in peer review and rapid dissemination of research



Nature Communications



UNDER CONSIDERATION

Parity-engineered light-matter interaction

Dr. Jan Goetz, Frank Deppe, Dr. Kirill Fedorov, Peter Eder, Michael Fischer, Stefan Pogorzalek, Edwar Xie, Dr....



Nature Communications

UNDER CONSIDERATION

Membrane bending occurs at all stages of clathrin-coat assembly and defines endocytic dynamics

Prof. Adam Hoppe, Dr. Brandon Scott, Dr. Kem Sochacki, Dr. Shalini Low-Nam, Ms. Elizabeth Baile, Dr....



Nature Communications

UNDER CONSIDERATION

Microglia remodel synapses by presynaptic trogocytosis and spine head filopodia induction

Dr. Cornelius Gross, Miss Laetitia Weinhard, Urte Neniskyte, Giulia di Bartolomei, Dr. Giulia Bolasco, ...



Nature Communications

UNDER CONSIDERATION

Novel causative genes for heritable pulmonary arterial hypertension

Prof. Nicholas Morrell, Dr. Stefan Gräf, Matthias Haimel, Marta Bleda, Dr. Charaka Hadinnapola, Wei Li...



Nature Communications

UNDER CONSIDERATION

Snord116-dependent diurnal rhythm of DNA methylation in mouse cortex

Rochelle L. Coulson, Dag H. Yasui, Keith Dunaway, Benjamin I. Laufer, Annie Vogel Ciernia, Charles E....



Nature Communications

UNDER CONSIDERATION

Mortality Data Suggests that Men Are More Fragile but Women Age Faster

Peter Lenart, Daniela Kuruczova, Julie Bienertová-Vašků



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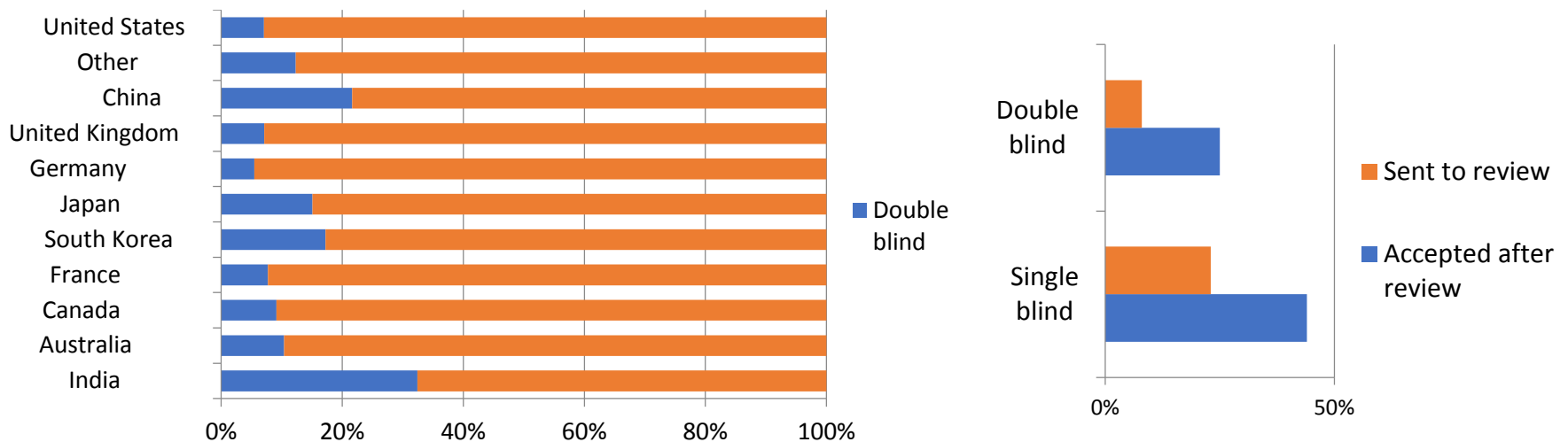
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Double-blind peer review - *giving authors choices*



- Trialled at Nature Geoscience and Nature Climate Change in 2014.
- Available to all authors, on all Nature Journals from March 2015
- Difficult to make major conclusions as uptake low - 12%. Highest on journals like N. Eco and Evo, N. Human Behaviour (23%); lowest on N. Mol and Structural Biology and N. Biotechnology (6%)
- No difference in the distribution of peer review model by gender
- 10% of referees are withdrawing from Double blind peer review



Peer Reviewers want formal recognition

PEER REVIEW



Trial. *Nature* 29th March 2016

Authors and peer reviewers are given the option of peer reviewer names being disclosed publicly at the end of the paper.

Referee Survey

- 63% of respondents agreed that publishers should experiment with alternative peer review methods
- 50% of our referees agree peer review could be more transparent and expect publishers to do more.
- ~50% noted recognition for peer review from publishers/editors was considered most important
- 78% felt that accrediting the reviewers would result in better written reports.

Contributions

H.D., R.G.S. and K.L.B. collected and analysed data; H.D., R.G.S., A.P.-P., J.S.D., and K.L.B. designed the study and wrote the paper.

Competing financial interests

The authors declare no competing financial interests.

Corresponding author

Correspondence to: [Kevin L. Briggman](#)

Reviewer Information *Nature* thanks G. Knott and the other anonymous reviewer(s) for their contribution to the peer review of this work.

	Biology	Physics	Total
% manuscripts where authors opted in	92.1	90.5	91.8
% manuscripts where one or more peer-reviewers opted in	79.6	77.7	79.3

Referee Recognition Trial - Nature

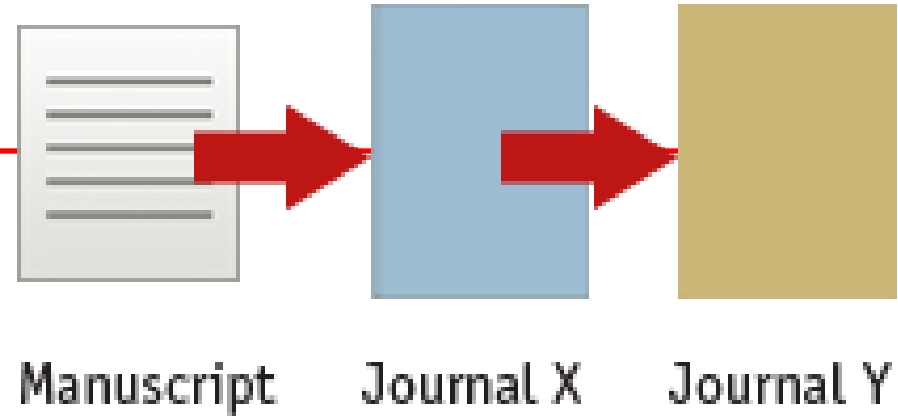


- 54% of referees opt-in (62% female; 67% male)
- 19% of the referee are non responders
- 27% referees opting out.
- Over 80% of referees are happy to choose accreditation again 18months post the first time.
- 50% of these referees want to publish their reports
- Also live on the Nature Reviews Journals: 72% author opt-in. 62% Referee opt-in

	Total	Bio	Phys
Total manuscripts	1767	1195	572
Referees contacted	4650	3332	1318
Referees opted in	2532	1811	721
% refs opted in	54%	54%	55%
Referees opted out	1239	859	380
% opt refs out	27%	26%	29%
Referees not responded	879	662	217
% NR refs	19%	20%	16%

REDUNDANCY IN PEER REVIEW

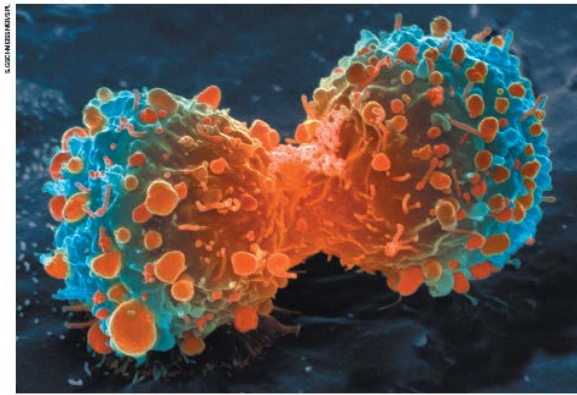
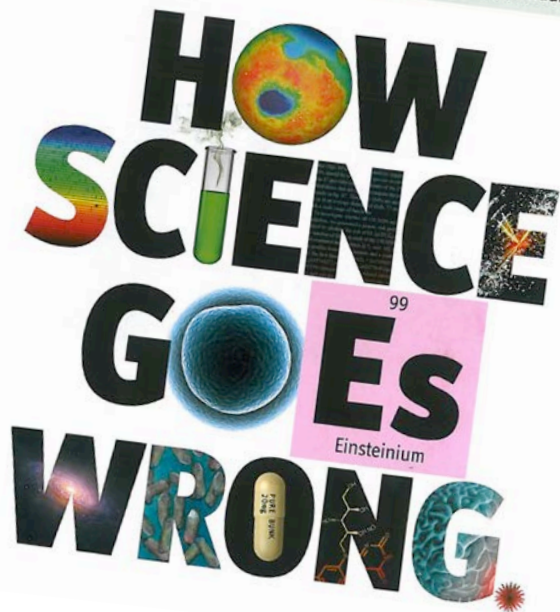
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- No further formatting is required – automatic online transfer.
- No need to resubmit large files, fill in more forms.

Promoting transparency in reporting to allow for better reproducibility of research

“The scientific findings could be reproduced in only 6 of 53 studies.”



Many landmark findings in preclinical oncology research are not reproducible, in part because of inadequate cell lines and animal models.

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.

Lack of attention to detail in the methods section

Increasing requirement to demonstrate rigorous experimental design and analysis

PROMOTING REPRODUCIBILITY

Increasing robustness of reporting



nature research

Corresponding Author:

Date:

Life Sciences Reporting Summary Published CC-BY

Nature Research wishes to improve the reproducibility of the work we publish. This form is published with all life science papers and is intended to promote consistency and transparency in reporting. For further information on the points included in this form, see [Reporting Life Sciences Research](#). All life sciences submissions use this form; while some list items might not apply to an individual manuscript, all fields must be completed for clarity.

▶ Experimental design

MRI Studies Reporting Summary

Form fields will expand as needed. Please do not leave field

Flow Cytometry Reporting Summary

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ChIP-seq Reporting Summary

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Solar Cells Reporting Summary

Reporting checklist for manuscripts with a claim of lasing

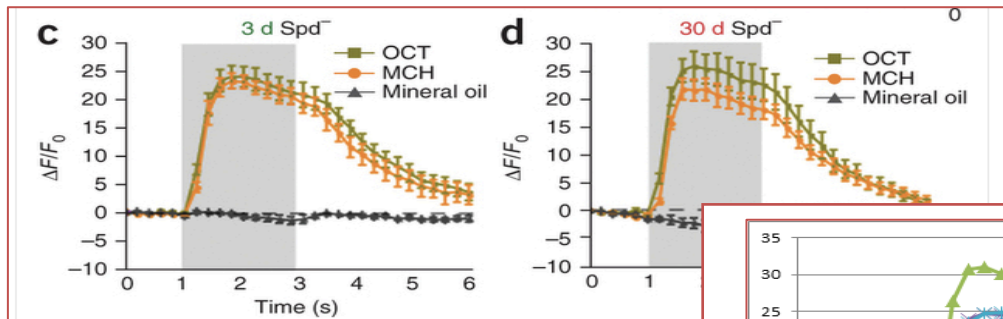
Independent assessment 2017. Macleod and co-workers

- The overall number of NPG publications meeting all relevant criteria for compliance for *in vivo* research reporting randomisation, blinding, exclusions and sample size calculations reached 68%, 62%, 31% and 64% respectively. For non NPG publications the performance was 12%, 5%, 12% and 3%.
- For reports of overall compliance (**incl in vitro**) for randomisation, blinding, exclusions and sample size calculations increased from 0/203 prior to May 2013 to 31/181 (16.4%). But note we didn't mandate this info for In vitro data

<https://link.springer.com/article/10.1007/s11192-016-1964-8>
nature research

DATA ACCESSIBILITY

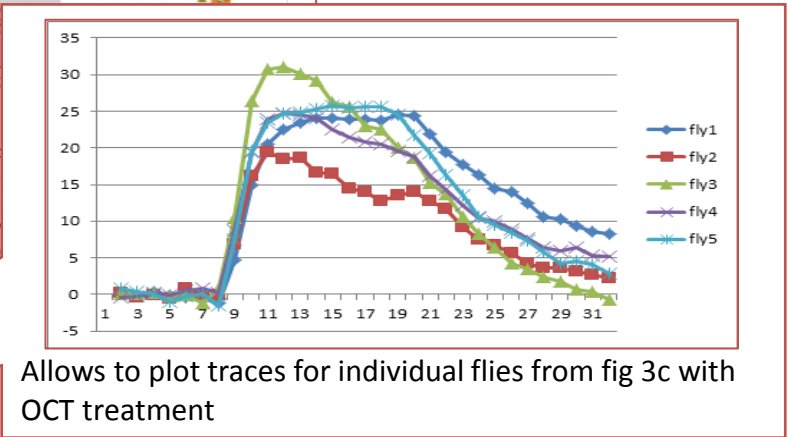
Source Data – presenting the data behind the graph.



(a) Expression of GCaMP3.0 in the mushroom body of an individual fly, for... The red line indicates a region of interest used to determine changes in fluorescence. The gray bar represents 50 μm . (b) False color-coded image of Ca^{2+} activity in the lobes shown in a. Warm colors indicate high levels, cold colors indicate low levels. The numbers indicate changes in fluorescence ΔF (%). (c,d) Time course of fluorescence change in the mushroom body lobes of 3-d-old and 30-d-old Spd^- flies evoked by the odors (MCH) or 3-octanol (OCT) in comparison with the diluent, mineral oil. A Mann-Whitney U test found no substantial difference between the responses of 3-d-old and 30-d-old Spd^- flies evoked by the odors. The gray bars indicate the time interval during which the data were presented as mean \pm s.e.m.

[Full size image \(281 KB\)](#)
[Download Excel source data \(21 KB\)](#)

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Allows to plot traces for individual flies from fig 3c with OCT treatment

nature

Making data more accessible



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Scientists who share their data in a **FAIR** manner deserve appropriate credit and recognition. Publishing at *Scientific Data*:

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- Grants recognition to researchers who may not qualify for authorship on traditional articles.
- Allows publication of valuable datasets that may not be well-suited for traditional research journals.



Reuse

Standardized and detailed descriptions make research data easier to find and reuse. Data Descriptors:

- Provide the information needed to interpret, reuse and reproduce data – including standardized and curated experimental metadata.
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Format of Data Descriptor manuscripts

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[Precision annotation of digital samples in NCBI's gene expression omnibus](#)

Dexter Hadley, James Pan [...] Atul J. Butte

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[The public cancer radiology imaging collections of The Cancer Imaging Archive](#)

Fred Prior, Kirk Smith [...] John Freymann

At the bench – the latest protocols

Commissioned Protocols of the latest research



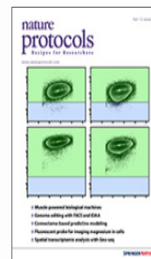
nature protocols

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October 2017, Volume 12 No. 10 pp2029-2214

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Protocols

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Multiparametric characterization of rare HIV-infected cells using an RNA-flow FISH technique pp2029 - 2049

Amy E Baxter, Julia Niessl, Rémi Fromentin, Jonathan Richard, Filippos Porichis, Marta Massanella, Nathalie Brassard, Nirmin Alshafiq, Jean-Pierre Routy, Andrés Finzi, Nicolas Chomont & Daniel E Kaufmann

doi:10.1038/nprot.2017.079

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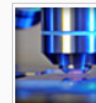
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A protocol for *in vivo* detection of reactive oxygen species

Authors: Edward Owusu-Ansah, Amir Yavari, Utpal Banerjee

Lab groups: [Banerjee Lab \(University of California\)](#)

Associated Publications: [Distinct mitochondrial retrograde signals control the G1-S cell cycle checkpoint](#)

2',7'-dichlorofluorescein (H2DCF) and Dihydroethidium (DHE), have been used extensively in tissue culture experiments to evaluate reactive oxygen species (ROS) production. However, i...



Neural Stem Cell Culture: Neurosphere generation, microscopical analysis and cryopreservation

Authors: Laura Pacey KK, Shelley Stead, Jacqueline Gleave A, Kasia Tomczyk, Laurie

Editorial initiatives

Author Contributions

“

- Nature mandates author contribution information
- They give transparency, credit and accountability
- We are looking to also add CRediT taxonomy
- Nature has trialled requesting ORCID IDs to corresponding authors and will roll out on all journals this year

Contributions

Q.V. performed the experiments and analysed the data. T.B., S.H.R., O.B., S.S., S.P., F.M., B.K., P.M., N.G., D.J., V.C.-D., C.M., A.P., S.C.J., V.S., S.Ly., C.L.-R., L.G., C.B., J.A. and C.L. followed the patients and analysed the data. L.B. and N.B. performed the patient CT scans and MRIs and analysed the data. E.B. performed the PET scans and analysed the data. S.La., S.M, J.Y. and S.C.J. performed some in vivo and in vitro experiments. C.H. performed some mouse experiments. J.-P.D. analysed all the histological findings. C.B.-F performed PIK3CA genotyping in patients. J.S., L.S. and C.C. performed and analysed the mouse CT scans. F.T. was involved in data analysis and helped to write the paper. G.C. followed the patients, provided the conceptual framework, designed the study, supervised the project, and wrote the paper.

Promote and Support Diversity

“Nature journals strive toward a diverse demographic representation”

“Nature journals strive toward a diverse demographic representation within our reviewer database. In the spirit of our own efforts, we encourage authors who wish to suggest reviewers to provide a diverse list of peer reviewers.”

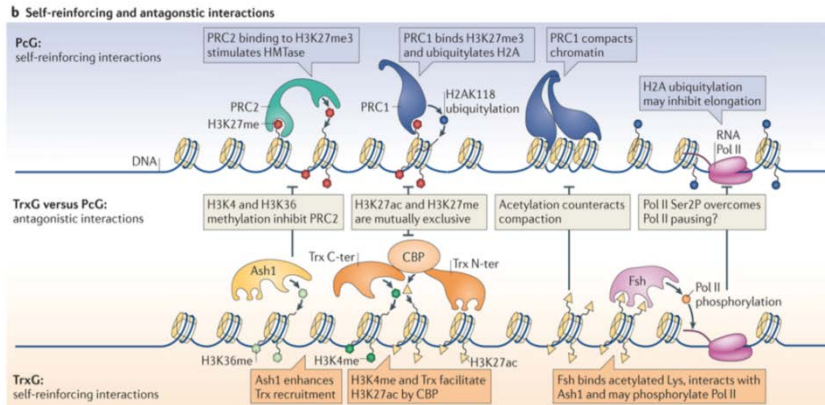
- We are encouraging our editors to think more diversely when commissioning content and when finding referees
- We are encouraging our authors and reviewers to be more diverse when recommending referees

RESEARCHER

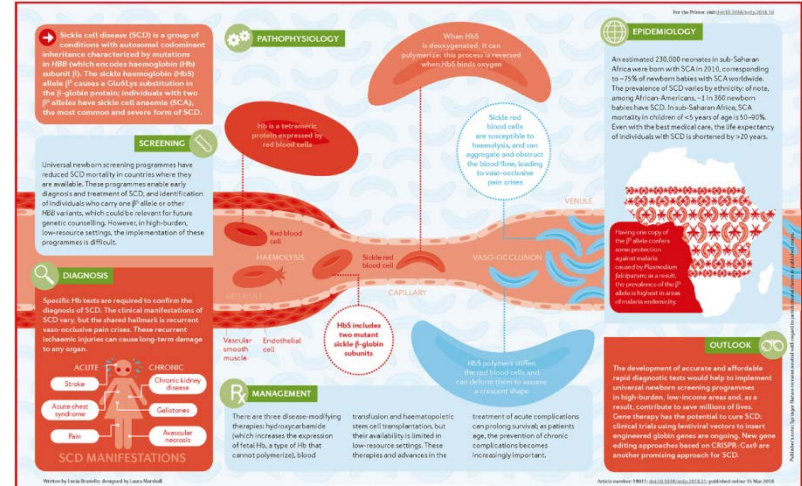
A range of metrics reported on each paper



ENHANCE & MAKE ACCESSIBLE



Primeview. Sickle cell disease



Our Editors and high production values helped to make the Nature Reviews journals market leaders

Key points. Accessible summary

Key points

- The clinical phenotypes of patients with proteinopathies do not always enable identification of the underlying cause of the disorder, especially in early disease
- By contrast, biochemical and imaging biomarkers can identify, even at presymptomatic stages, the underlying proteinopathy likely to cause the disease
- Imaging biomarkers of pathology and neuronal injury can also help to stage these diseases
- Amyloid- β and tau imaging studies can aid in patient selection, assess target engagement and monitor intervention efficacy in disease-specific treatment trials
- Incorporation of biochemical and imaging biomarkers into new diagnostic criteria for Alzheimer disease offers a rational and flexible diagnostic approach that does not require the presence of dementia
- Integration of biochemical and imaging biomarker findings with cognitive assessment is also expected to improve the predictive paradigm for Alzheimer disease

Laminar-airflow isolation
A method that provides a low-pathogen environment and prevents exogenous infection during hospitalization of patients with neutropenia and other immunodeficient diseases. It involves filtered air moving along separate parallel flow planes to patient rooms with no or minimal crossover of air streams (or lamina).

Specific pathogen-free (SPF) mice
Mice housed under standard laboratory conditions. These mice are free of specific pathogens but otherwise have a normal microbiota. The lists

Glossary, Boxes, Annotated references to enhance understanding

Box 1 | Microbiota and immune reconstitution

Given the recent findings of the role of microbiota in immune homeostasis^{21,40}, it is possible that intestinal microbiota could affect immune reconstitution after allogeneic haematopoietic stem cell transplantation (allo-HSCT) and could be targeted as a strategy to increase post-transplant immunity. Defects in haematopoiesis have been reported in germ-free mice; specifically, the intestinal microbiota promotes steady-

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BEHIND THE PAPER

Chromosomes and speciation revisited

Daniel Hooper
Aug 28, 2017

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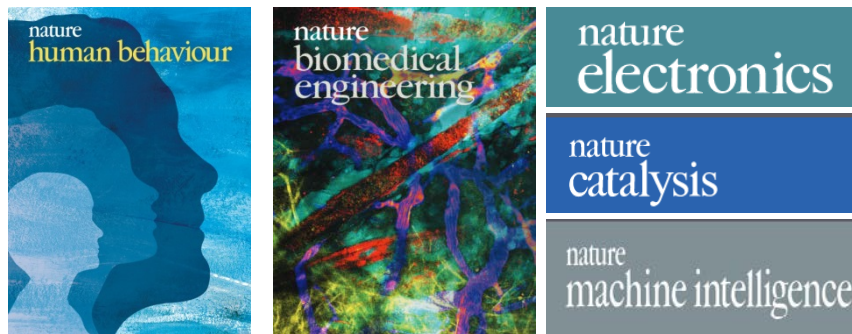
We continue to launch new Nature journals



Addressing 'core' community demand
- filling in long-standing gaps



Addressing Grand Societal Challenges with
innovative interdisciplinary journals



Branching out into social and applied sciences



Reviews in the Physical Sciences



2016: 193 UN member states signed up to help deliver goals



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NATURE MATERIALS | PERSPECTIVE

The path towards sustainable energy

Steven Chu, Yi Cui & Nian Liu

NATURE | PERSPECTIVES

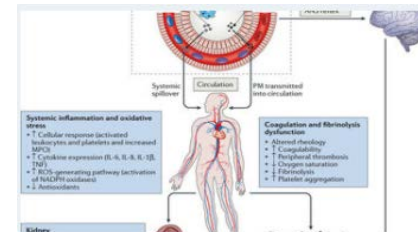
日本語要約

Paris Agreement climate proposals need a boost to keep warming well below 2 °C

Joeri Rogelj, Michel den Elzen, Niklas Höhne, Taryn Fransen, Hanna Fekete, Harald Winkler, Roberto Schaeffer, Fu Sha, Keywan Riahi & Malte Meinshausen

Review Article

Microorganisms and ocean global change



GLOBAL HEALTH

Environmental pollution and kidney diseases



THE RESEARCH COMMUNITY

An over reliance on the Journal Impact Factor

Editorial

Nature **435**, 1003-1004 (23 June 2005) | [doi:10.1038/4351003b](https://doi.org/10.1038/4351003b); Published online 22 June 2005

Not-so-deep impact

Research assessment rests too heavily on the inflated status of the impact factor. [▲ Top](#)

NATURE | EDITORIAL

عربي

Time to remodel the journal impact factor

NATURE | COLUMN: WORLD VIEW

عربي

Nature and the Nature journals are diversifying their presentation of performance indicators.



James Wilsdon

We need a measured approach to metrics

Quantitative indicators of research output can inform decisions but must be supported by robust analysis, argues [James Wilsdon](#).

08 July 2015



PDF



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Transparency in reporting journal metrics

NATURE | EDITORIAL



Announcement: Nature journals support the San Francisco Declaration on Research Assessment

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Nature journals have signed up to the principle agreement.

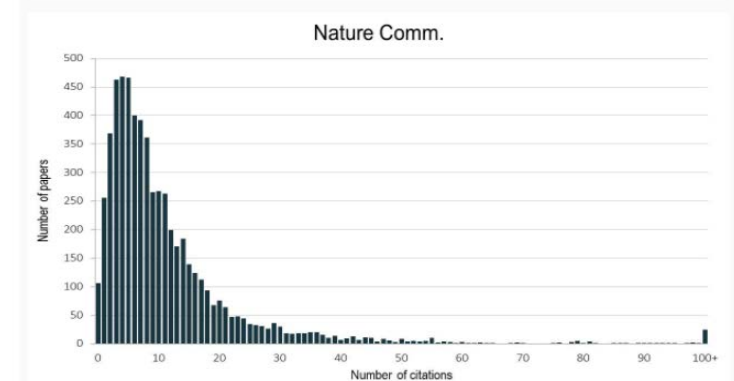
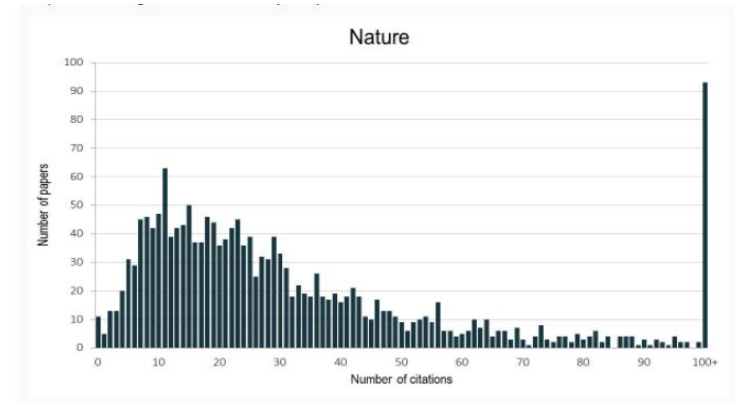
Nature Research journals' metrics

Multidisciplinary Journals	2-year Impact Factor	5-year Impact Factor	Immediacy Index	Eigenfactor® score	Article Influence Score	2-year Median
Nature	40.137	43.769	9.129	1.43399	22.976	24
Nature Communications	12.124	13.092	1.993	0.72229	5.732	8
Scientific Reports	4.259	4.847	0.647	0.38761	1.482	3
Scientific Data	4.836	4.852	1.051	0.00469	2.67	2

Nature-branded research journals	2-year Impact Factor	5-year Impact Factor	Immediacy index	Eigenfactor® score	Article Influence Score	2-year Median
Nature Biotechnology	41.667	46.223	7.542	0.16993	23.881	25
Nature Cell Biology	20.060	20.594	3.829	0.10315	10.531	14
Nature Chemical Biology	15.066	14.519	3.057	0.06534	7.055	10
Nature Chemistry	25.870	28.129	6.750	0.10137	11.207	16
Nature Climate Change	19.304	21.108	4.436	0.08218	9.353	11
Nature Genetics	27.959	31.694	4.776	0.24177	16.456	20
Nature Geoscience	13.941	14.350	3.400	0.08196	7.438	10
Nature Immunology	21.506	22.751	5.890	0.11348	12.253	17
Nature Materials	39.737	47.494	8.331	0.20402	18.911	23

Peer Review Metrics for Nature Research Journals

Nature Research journals	Submission to first editorial decision (median days)	Submission to first post-review decision (median days)	Submission to Accept (median days)
Nature	7	42	173
Nature Astronomy	4	34	138
Nature Biomedical Engineering	4	44	163
Nature Biotechnology	7	50	210
Nature Cell Biology	8	49	245
Nature Chemical Biology	8	46	180
Nature Chemistry	8	46	193
Nature Climate Change	7	65	180
Nature Communications	8	48	170
Nature Ecology & Evolution	5	46	109



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Nature research

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