"Openness is a scientifically and societally relevant part of a published article's quality"

Jan Velterop – Vienna – April 2016

Openness is rarely seen (yet?) as a crucial element when judging a journal article's quality

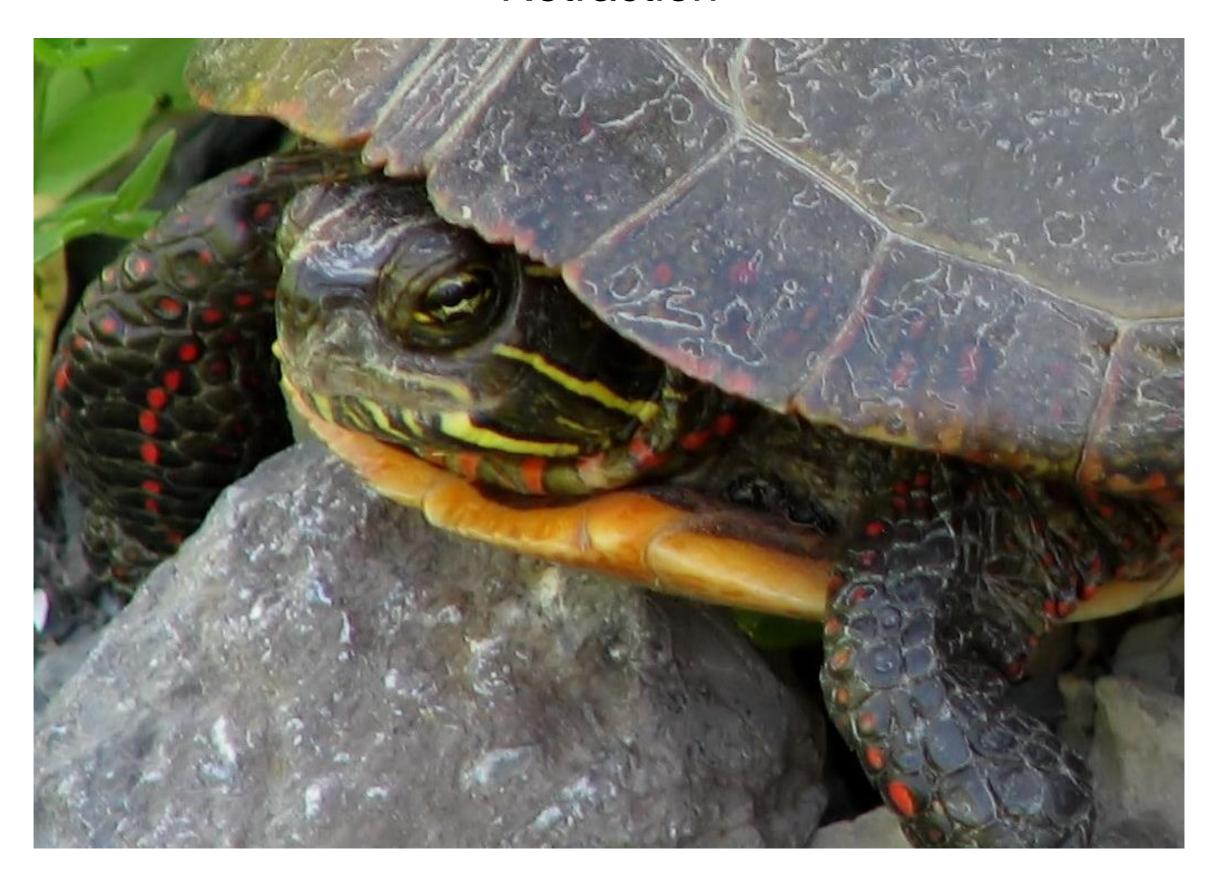
Quality is mostly what journal editors and peer reviewers deem an article to have - however arbitrary and subjective.

How right are they?

"The most prestigious journals have the highest rates of retraction and misconduct are consolidated than in less consolida

Some of the images you find when searching for 'retraction'

Retraction



EARLY REPORT

Early report

Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

A J Wakefield, S H Murch, A Anthony, J Linnell, D M Casson, M Malik, M Berelowitz, A P Dhillon, M A Thomson, P Harvey, A Valentine, S E Davies, J A Walker-Smith

Summary

Background We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.

Methods 12 children (mean age 6 years [range 3-10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal development followed by loss of acquired skills, including language, together with diarmosa and abdominal pain. Children underwent gastroenterological, neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic-resonance imaging (MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Sarium follow-through radiography was done where possible, Blochemical, haematological, and immunological profiles were examined.

Findings Onset of behavioural symptoms was associated by the parents, with measles, mumps, and rub vaccination in eight of the 12 children, with meas infection in one child, and otitis media in a children had intestinal abnormalities lymphoid nodular hyperplasia to a Histology showed patchy chronic infla in 11 children and reactive ilegal perolasia ir seven, but no granulomas. Bg Vioural disc es included autism (nine), disintegrative sis (one), d cossible postviral or vaccinal encephalitis o). There were no and EEG tests focal neurological abid malities and all laboratory results are significantly were normal. Abno acid compared with age-03), low matched contri haemoglobin in four children r children.

Internation e iden associated gastrointestinal dis Se and revolopmental regression in a group of previous mai community, which was generally associated in time as possible environmental triggers.

Lancet 1903 151: 637-41 See Commentary page

Inflammatory Bowel Disease Study Group, University Departments of Medicine and Histopathology (A. J. Wakefield 1905, A. Anthony WS, J. University Departments of Paediatric Gastroenterology (S.H. Migch vs., D.M. Casson word, M. Malik water,

M.A. Thomson Hork, J.A. Walker-Smith Herk, J., Child and Adolescent Psychiatry (M. Berrolowitz Hoffwer), Neurology (P. Harvey Her), and Radiology (A. Valentine Herk), Reyal Free Hospital and School of Medicine, Lendon NW3 200, UK.

Correspondence to: Or A J Wakefield

Introduction

We saw several children who, after a point, of apparent normality, lost acquired skills, include communication. They all had gastrointestinal improms, auding abdominal pain, diarrhoea, and cating and, it some cases, food intolerance. We describe a clinical falings, and gastrointestinal feature of these charges.

Patients and meticals

12 children, compative, a red to department of paediatric gastra of crology a history of a pervasive developmental order with loss use a red skills and intestinal symptoms arring abdominate and, bloating and food intolerance), were in a trated. All children were admitted to the ward for the grek, account a red by their parents.

Chical investigations

took historic including details of immunisations and course to infect as diseases, and assessed the children. In 11 can the history as obtained by the senior clinician (JW-S). Neuro description of psychiatric assessments were done by consultant staff (PH, MB) with HMS-4 criteria. Developmental records from percents, health visitors, and general peactitioners. Four children did not undergo psychiatric assessment in hospital; all had been assessed professionally elsewhere, so these assessments were used as the basis for their behavioural diagnosis.

After bowel preparation, ileocolonoscopy was performed by SHM or MAT under sedation with midazolam and pethidine. Paired frozen and formalin-fixed mucosal biopsy samples were taken from the terminal fleum; ascending, transverse, descending, and sigmoid colons, and from the rectum. The procedure was recorded by video or still images, and were compared with images of the previous seven consecutive paediatric colonoscopies (four normal colonoscopies and three on children with ulcerative colitis), in which the physician reported normal appearances in the terminal ileum. Barium follow-through radiography was possible in some cases.

Also under sedation, cerebral magnetic-resonance imaging (MRI), electroencephalography (EEG) including visual, brain stem auditory, and sensory evoked potentials (where compliance made these possible), and lumbar puncture were done.

Laboratory investigations

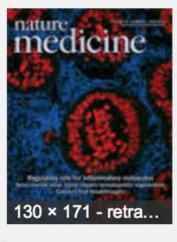
Thyroid function, serum long-chain fatty acids, and cerebrospinal-fluid lactate were measured to exclude known causes of childhood neurodegenerative disease. Urinary methylmalonic acid was measured in random urine samples from eight of the 12 children and 14 age-matched and sex-matched normal controls, by a modification of a technique described previously. Chromatograms were scanned digitally on computer, to analyse the methylmalonic-acid zones from cases and controls. Urinary methylmalonic-acid concentrations in patients and controls were compared by a two-sample t test. Urinary creatinine was estimated by routine spectrophotometric assay.

Children were screened for antiendomyseal antibodies and boys were screened for fragile-X if this had not been done

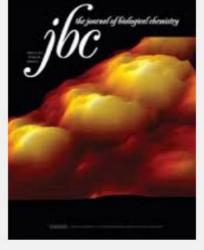
THE LANCET - Vol 351 - February 28, 1998 637

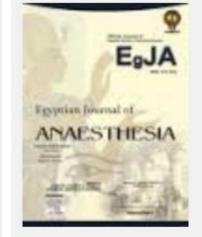




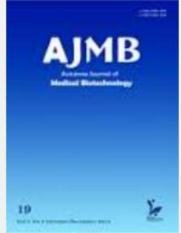




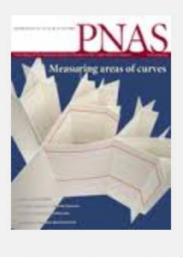




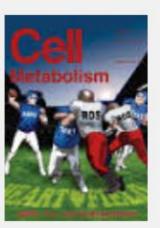








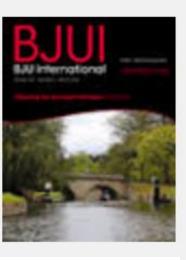






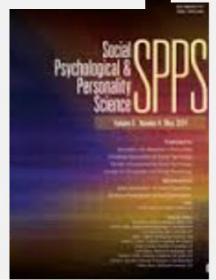














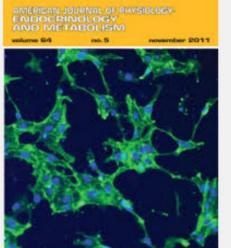


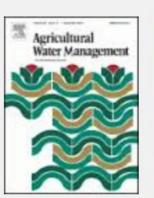


More images you find when searching for 'retraction'











In the same blogpost by Prof Curt Rice mentioned before:

Surely a measure of quality?

Commenting on an observation on replicability in

The New Yorker:

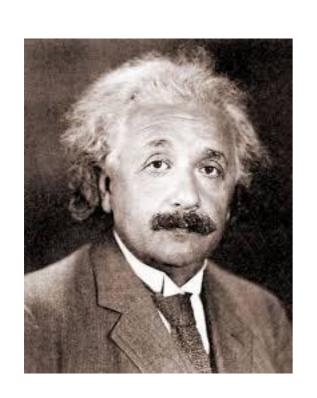
"The most likely explanation for the strength of evidence] is an early statistical flucture. The most likely explanation for the likely explanation for the

Curt:

"Yet it is exactly the spectacularity of statistical flukes that increase the odds of getting published in a high prestige journal."

Or is quality, illusionary or not, just a bureaucratic necessity in the scientific egosystem?

"Not everything that can be counted counts, and not everything that counts can be counted."

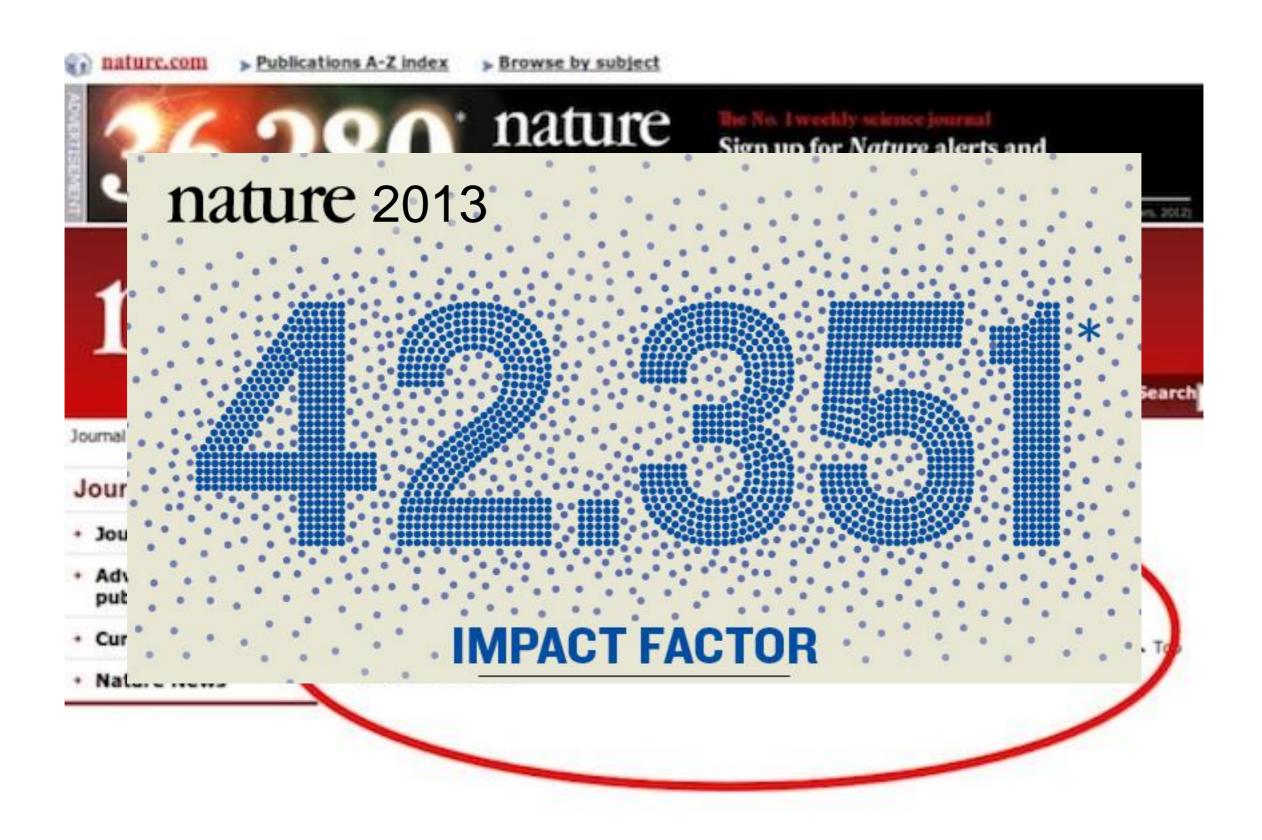


Quote often attributed to Einstein, possibly apocryphally

nature sort of agrees; but nature didn't do irony in 2006



nature still didn't do irony in 2013



Even an impact factor of < 1 is worth boasting about.

Apparently.



And even imitation impact factors



CERTIFICATE OF INDEXING (SJIF 2012)

This certificate is awarded to

Bioscience Discovery (ISSN: 2231-024X (E) / 2229-3469 (P))

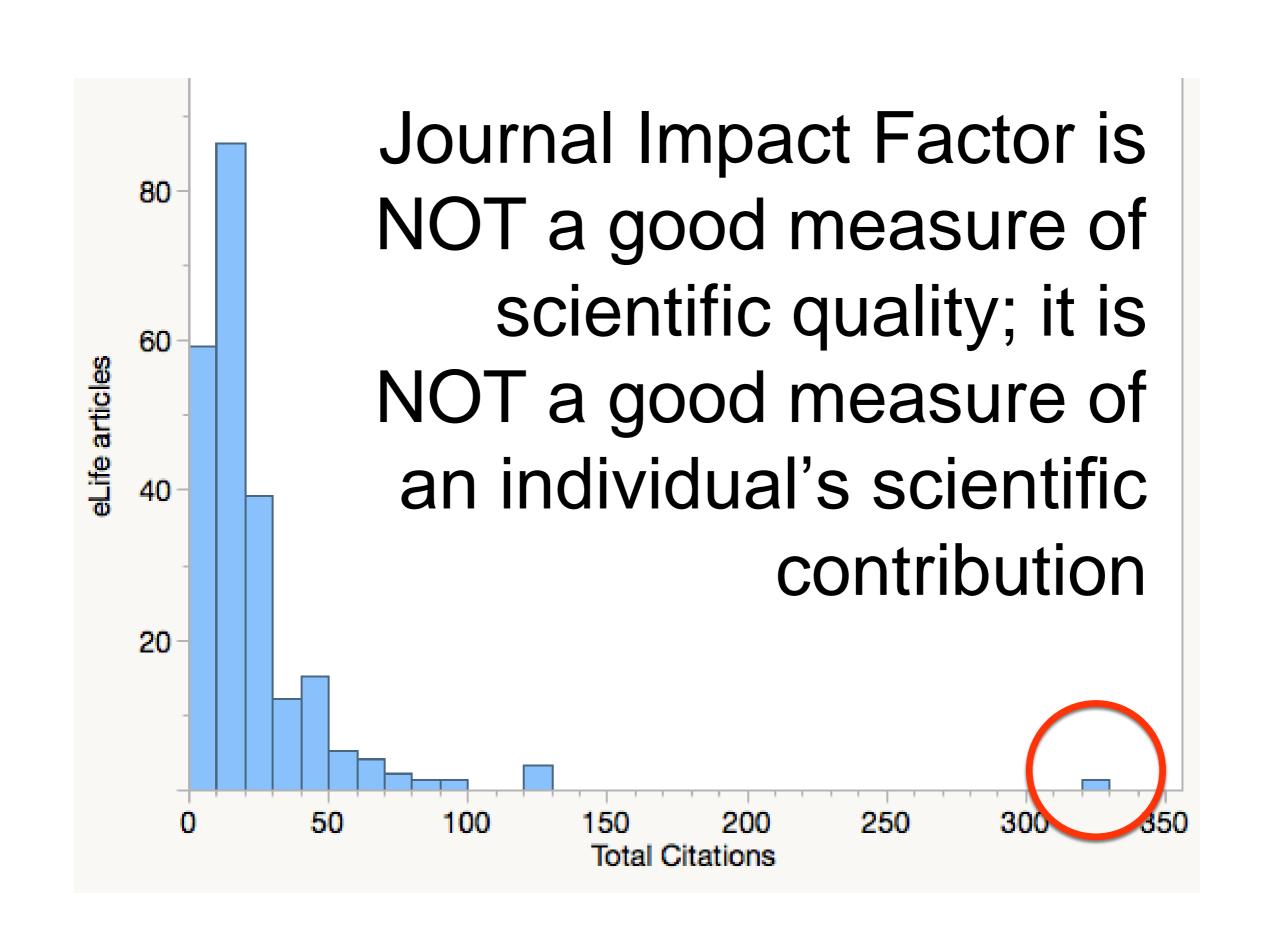
The Journal has been positively evaluated in the SJIF Journals Master List evaluation process SJIF 2012 (Scientific Journal Impact Factor Value for 2012) = 3.429

SJIF (A division of InnoSpace)



Innovative Space of Scientific Research - Morocco





THE "MEANING" OF CITATION IN THE CONTEXT OF A SCIENTIFICALLY PERIPHERAL COUNTRY

"To conflate impact/influence with quality [...] is to assume perfect communication in the international scientific community"

The findings presented confirm the view that in this context, citation patterns are significantly influenced by factors 'external' to the scientific realm and, thus, reflect neither simply the quality, influence nor even the impact of the research work referred to.

So why is the impact factor as a measure of quality stille important? After a mystery quality a just a scientifically: a just a scientifically selected randomly selected) on behalf of a journal publisher.

Is it simply in the nature of Science?

The ease of counting something something list is a something something to infer Managerial to infer

quality from quantity

Which has more quality?







No ivory tower without a foundation of rubble

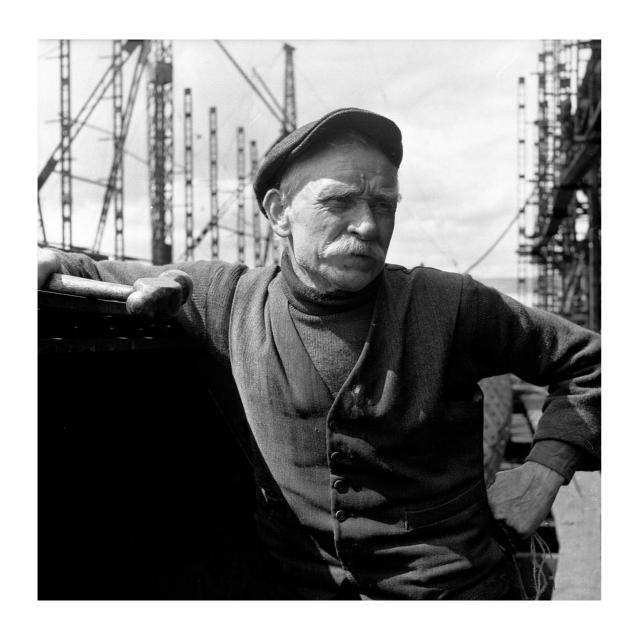
There is an overload of technical solutions to the problem of access to scientific results

What's needed is socio-cultural ones.

E.g.: we need to reconsider what is 'quality'

And how we assess 'quality'

Clothes...





...make the man





We need jean therapy

That is: judge on substance, not on appearance



A journal makes the scientist (well, its impact factor, to be exact)

Just a 'ribbon'

The 'jeaniuses' of science publishing



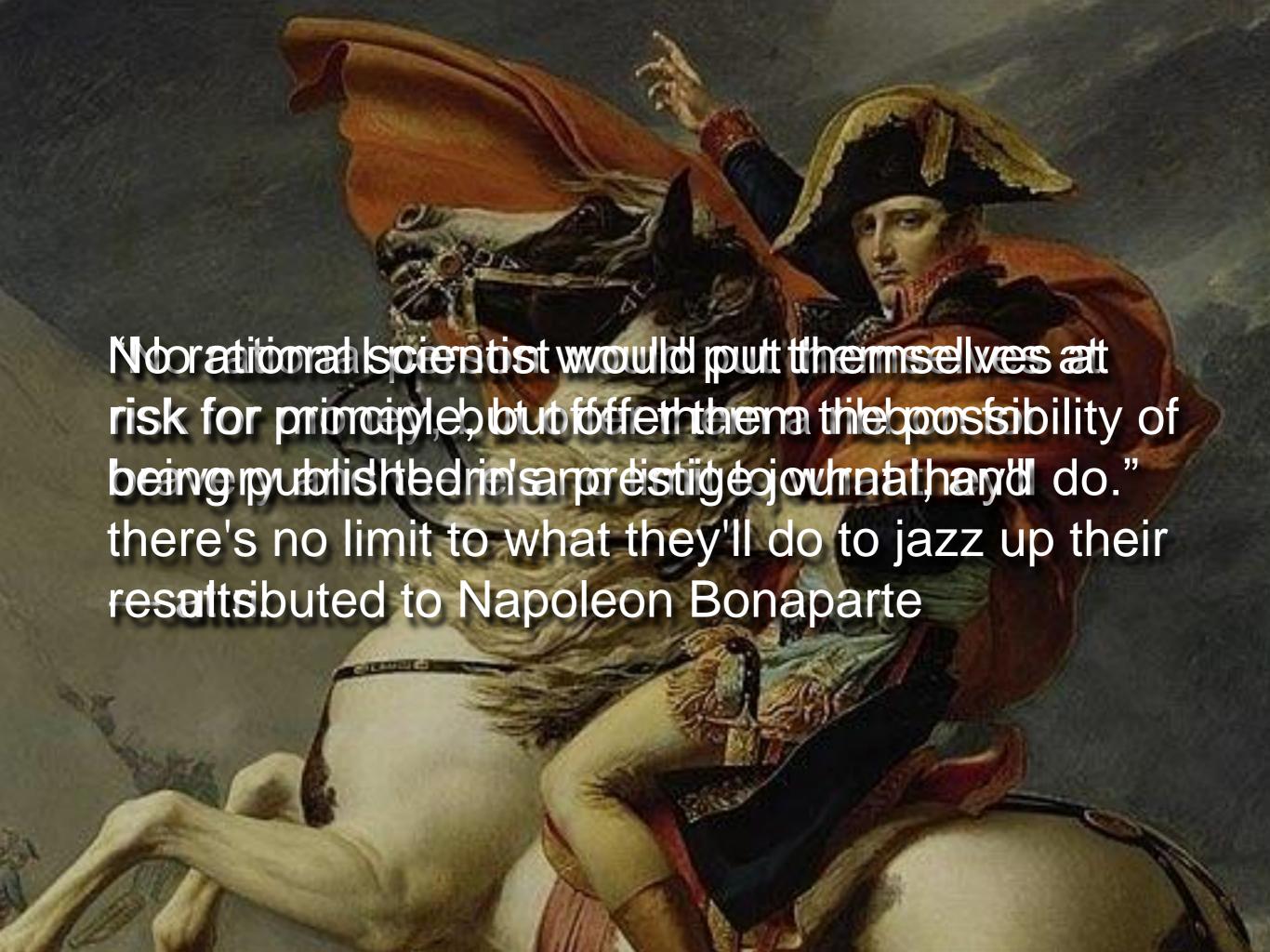


and even



'Ribbons' do provide incentives

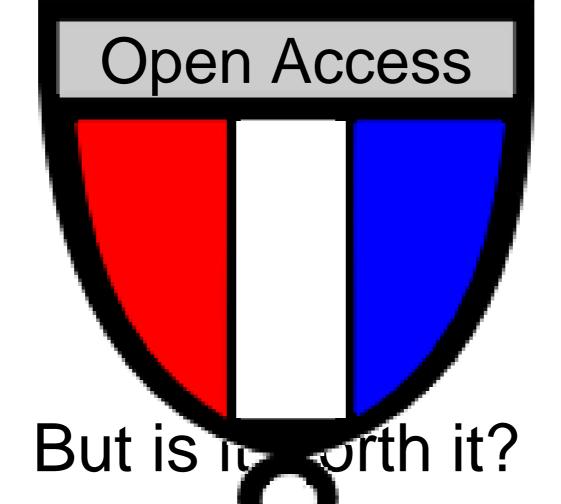
The wrong ones



Should the desire – even the need – for 'ribbons' be allowed to hold proper knowledge-sharing hostage?

The desire for 'ribbons' costs billions – every year

Not a problem if we think it's worth that kind of money



What about a different kind of incentive?

Services to Science

The current culture that puts more emphasis on competition than on collaboration — with occasional exceptions – is not very helpful for solving the world's problems

Competitive quality ranking:

- Journals
- Researchers
- Universities
- Countries

Isn't this katataxophilia* killing us?

If we rank at all, shouldn't we do it by the level of collaboration instead?

* The love of ranking

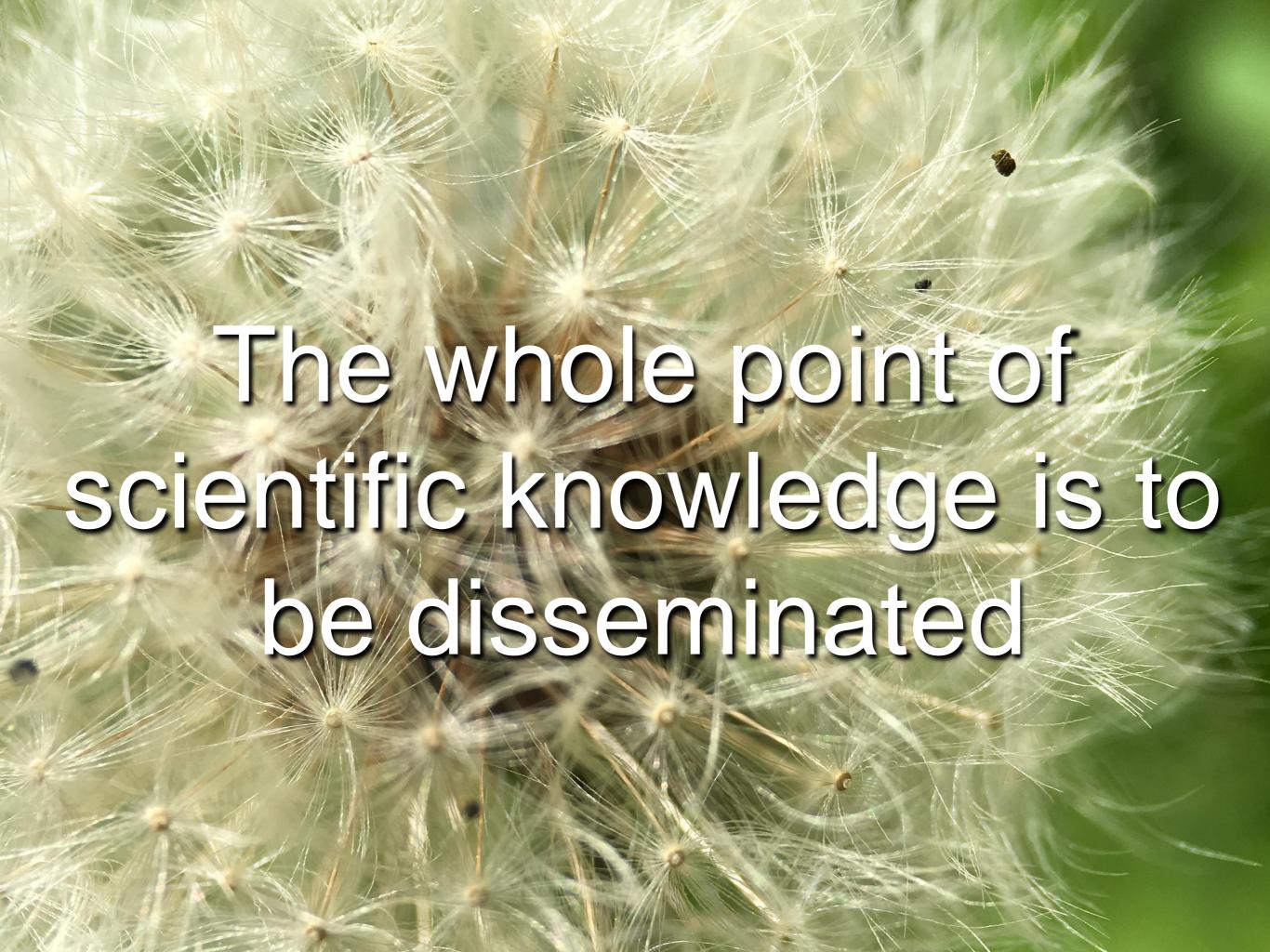
"Parachute Researchers"

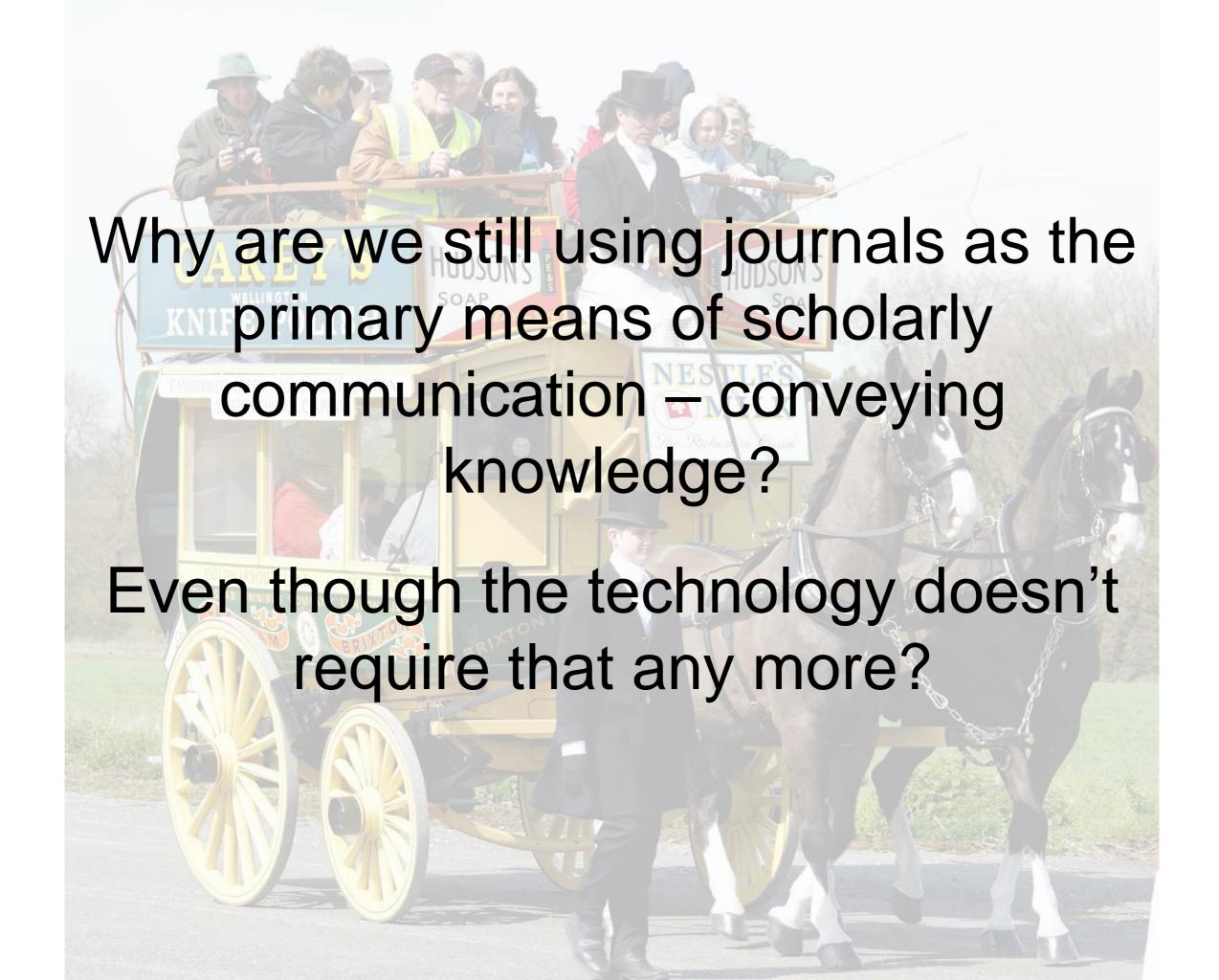
Scientists from wealth ni qc ZIKa when a puzz' Cevi Ebola Dengue The even share epide mis, if ever. their c

In these circumstances 'openness' is a crucial 'quality' of research results

Pretty much all diseases fall under 'these circumstances'

There is an urgent moral imperative – achieving Open Access can't wait





Measurable Article Qualities

MAQ

- Adhering to standards, descriptions, performance, of experiments, statistics, and other analyses
- Conclusions are properly supported by the data presented
- Intelligible, 'standard' language, without unnecessary jargon
- Meeting all applicable standards for the ethics of experimentation and research integrity
- Adhering to appropriate reporting guidelines and community standards for data availability
- MAQ Openness attribution only, all re-use allowed CC-BY [@]

Openness attribution only, all re-use allowed CC-BY [a]

Meaningful 'impacts'



Open access in a time of illness

I noted, on Twitter, how pleased I was to discover that there was good information available online about <u>my current condition</u>. I want, here though, to offer a few words to the ridiculous arguments that are sometimes brought against open access. Namely, that there isn't a public for this material because it is specialized in both its wording and its content.



Charles Oppenheim @CharlesOppenh · Apr 8

Read this convincing account of why Open Access is essential for all citizens by @martin_eve at martineve.com/2016/04/07/ope...

Openness is important because it is a quality:

If the majority of evidence-base scientific information remains hidden by aywalls, it leaves the field wide misleading interpolation in the public – even to a long and to the public – even to a long interpolation of the public – even to know what science is up to

From: tmbl@info.cern.ch (Tim Berners-Lee) WorldWideWeb - Executive Summary

Message-ID: <6484@cernvax.cern.ch>

Date: 6 Aug 91 14:56:20 GMT

From: timbl@info.cern.ch (Tim Berners-Lee)

Newsgroups: alt.hypertext

Subject: Re: Qualifiers on Hypertext links ...

In article <64...@cernvax.cern.ch> I promised to post a short summary of the WorldWideWeb project. Mail me with any queries.

WorldWideWeb - Executive Summary

The WWW project merges the techniques of information retrieval and hypertext to make an easy but powerful global information system.

The project started with the philosophy that much academic information should be freely available to anyone. It aims to allow information sharing within internationally dispersed teams, and the dissemination of information by support groups.

Thank you!

Jan Velterop

