

5TH 62c

Fifth Belgrade International Open Access Conference 2012



Can small journals provide leadership?



Prof. Ana Marušić, MD, PhD

**Editor in Chief, *Journal of Global Health*
Editor Emerita, *Croatian Medical Journal*
University of Split School of Medicine, Split, Croatia**

Can medical journals lead or must they follow?

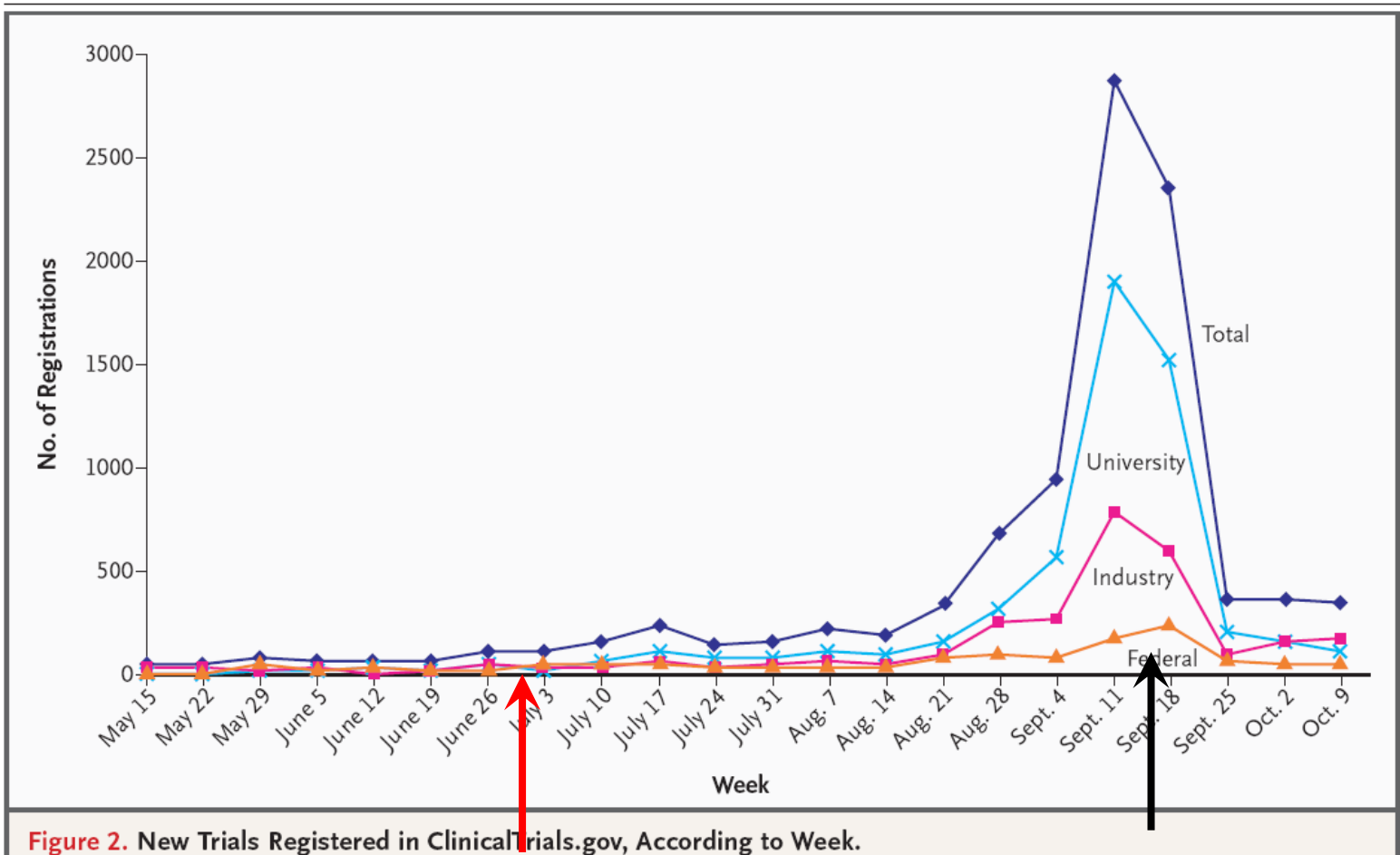
Richard Smith

“My cautious conclusion is that journals can lead, in limited ways.”

MJA • Volume 183 Number 11/12 • 5/19 December 2005

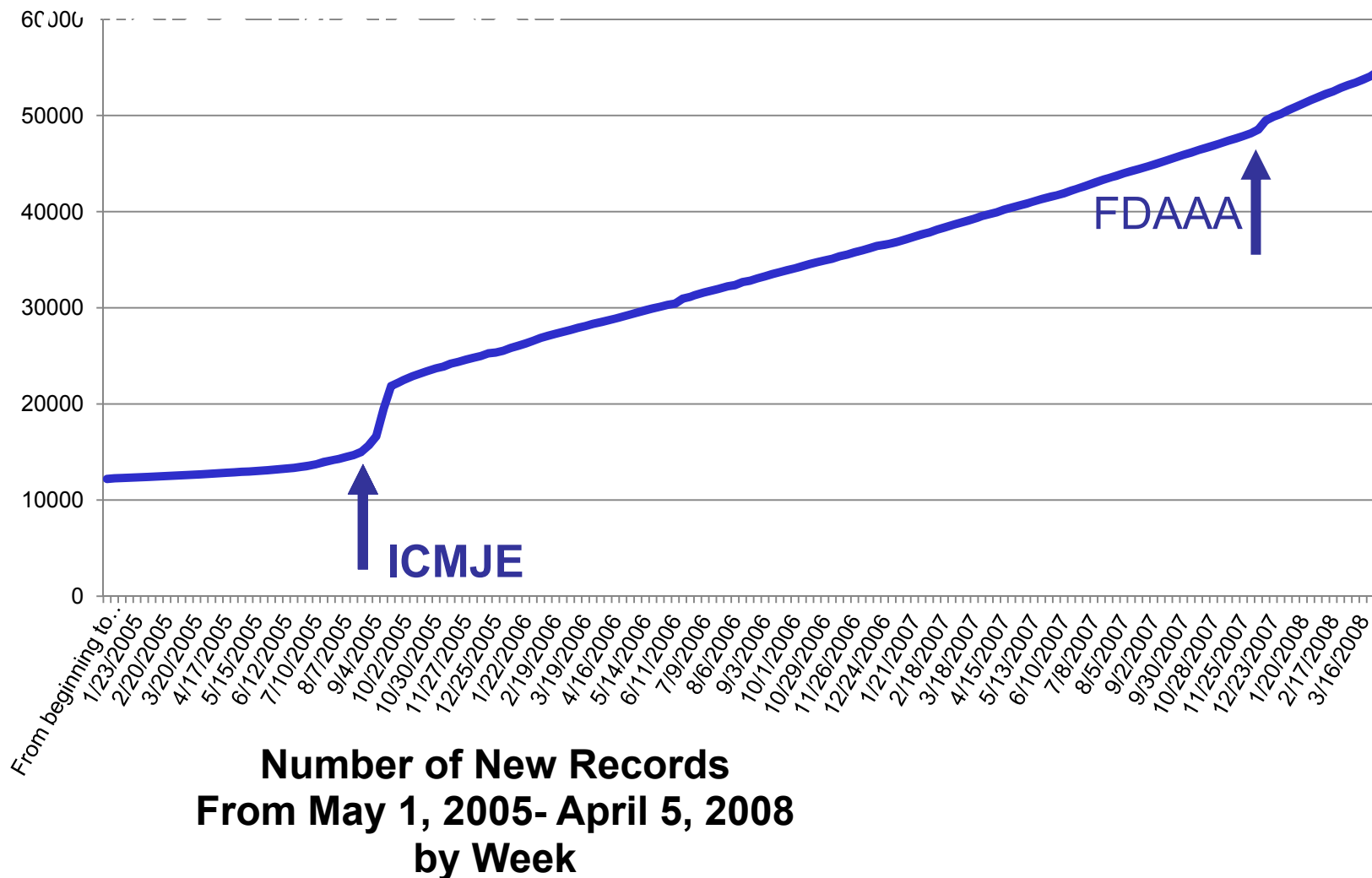
		Related to journals	
		YES	NO
With other journals	YES	Registering of trials	Raising the profile of ageing
	NO	Open peer review	Rationing Agenda Group

Effect of ICMJE registration policy



(Source: Zarin et al. N Engl J Med. 2005;353:2779)

Effect of ICMJE registration deadlines vs legislation:



Source: D. Zarin, *CT.gov*

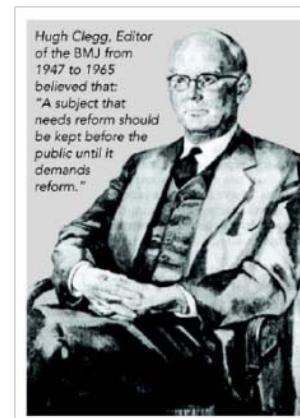
What can journal editors do to ensure the integrity of the scientific record?

Can medical journals lead or must they follow?

Richard Smith

MJA • Volume 183 Number 11/12 • 5/19 December 2005

“A subject that needs reform should be kept before the public until it demands reform.”



Viewpoint

Can small journals provide leadership?

Ana Marušić, Matko Marušić



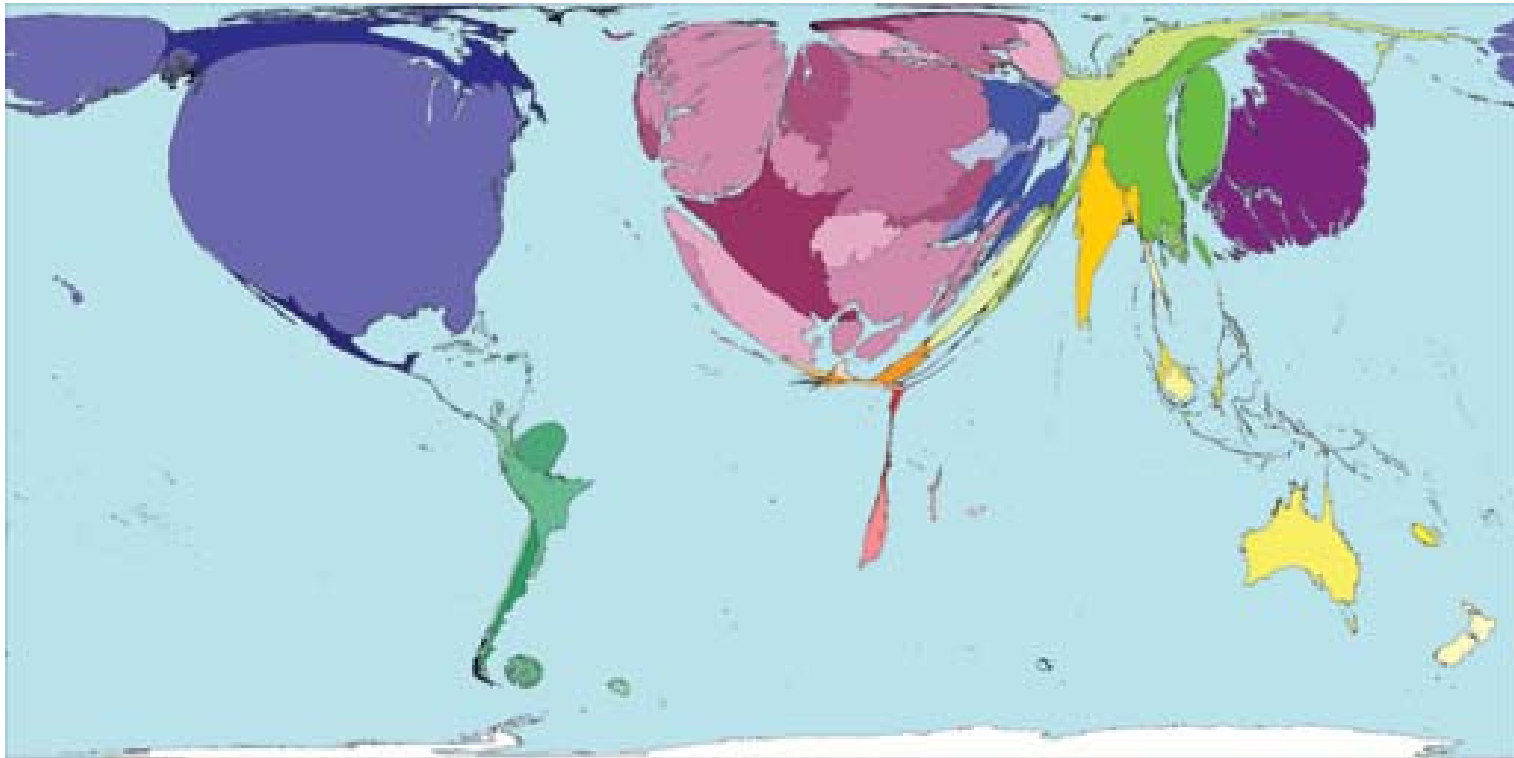
Lancet 2012; 379: 1361-63

Small journals – definition

- Usually academic and scholarly journals, where the editorial position is not a full-time position.
- Published in small scientific communities – the so-called **scientific periphery**, characterized by:
 - smallness of the research community,
 - lack of financial support,
 - language barrier.

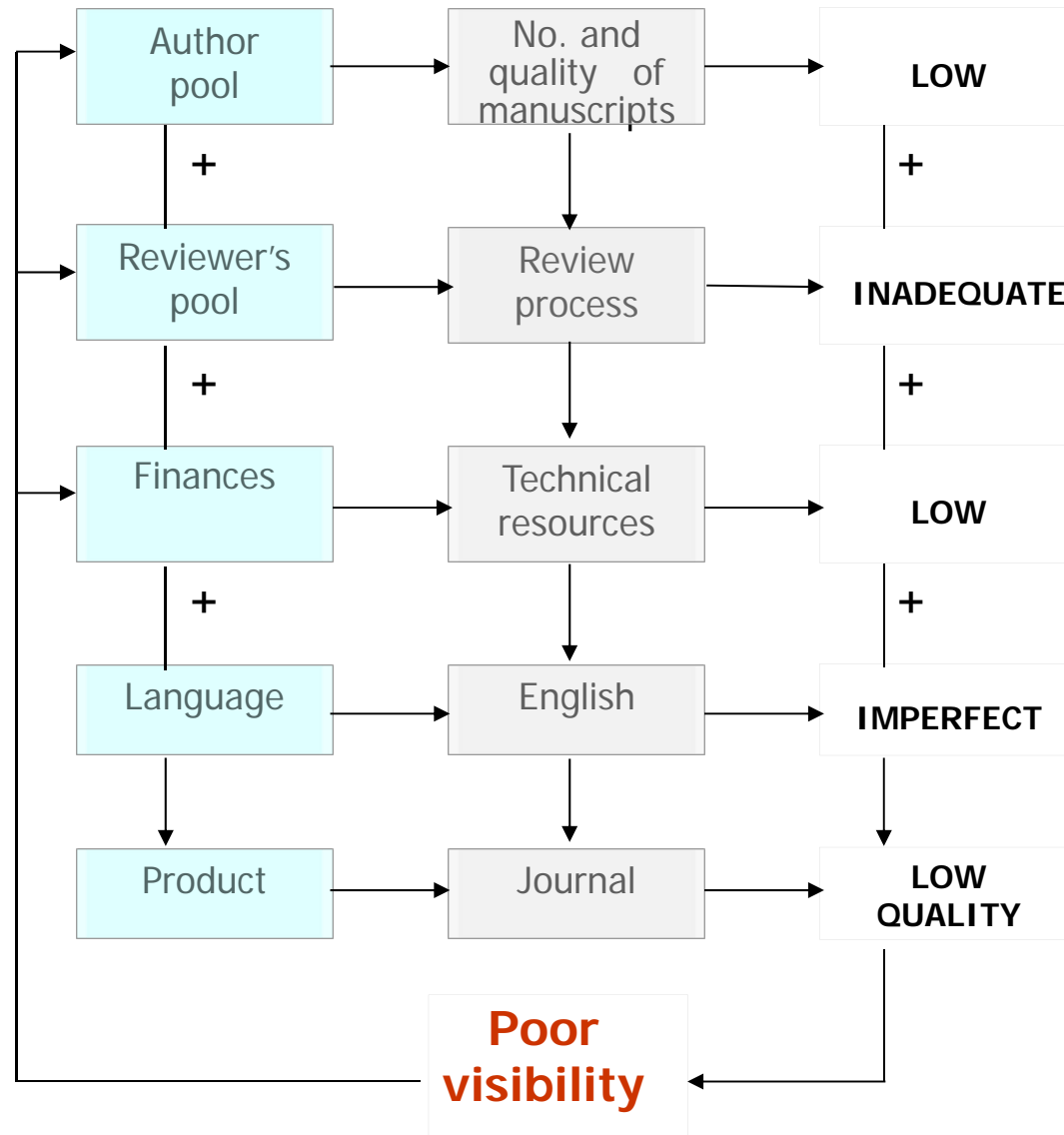
Small journals – definition

Peripheral position to the mainstream science



World Mapper: <http://www.worldmapper.org/display.php?selected=205>
Territory size shows the proportion of all scientific papers published in 2001 written by authors living there.

Small journals – vicious circle



Vicious circle creates an environment of “research corruption”:

In a vicious circle, which supports weak science and inadequate researchers, small journals can often have a negative influence on local scientific community – its criteria, teaching, communication, and scientific output.

Small journals and “research corruption”:

- Once poor publications in local journals become the key criterion of (local) scientific and academic recognition, these journals become important to authors, journal editors, publishers, and owners.
- They build up a closed system of private interests, academic and political influence, nepotism, and no responsibility for the public interest.

Small journals and leadership in integrity:

Editors of small journals also have the power for change and leadership:

- Research
- Teaching
- Practice



42(2):113-120,2001

EDITORIAL

Good Editorial Practice: Editors as Educators

Matko Marušić, Ana Marušić

Croatian Medical Journal, Zagreb University School of Medicine, Zagreb, Croatia

Editors as educators

University of Split School of Medicine: vertically and horizontally integrated course in research methodology and evidence-based medicine:

Year 1: 50 h	Knowledge and skills in research methodology, medical informatics and statistics
Year 2: 25 h	Practical application of research analysis and reporting
Year 3: 25 h	Evidence-based medicine
Year 4: 25 h	Journal clubs
Year 5: 25 h	Proposal of thesis work
Year 6: 120 h	MD thesis work

Editors as educators (in medicine)

“The first 2 years of medical school have got to be changed. Students are spending more and more time understanding the difficult aspects of molecular biology, but we are kidding ourselves to think they use their knowledge of DNA — in my day it was the Krebs cycle — in making clinical decisions at the bedside. They do not. They make clinical decisions based on how the last patient did, how their friends are treating patients and what the latest article by an authority says they should do. And we have got repeated evidence now that the authorities are way behind with regard to the data in clinical trials. In medical school, I think we have to just hammer away at evidence and probability theory and general statistics.”

— Dr. Tom Chalmers

DR. TOM CHALMERS, 1917–1995
THE TRIALS OF A RANDOMIZER

Malcolm Maclure, ScD

CAN MED ASSOC J • SEPT. 15, 1996; 155 (6)

SWOT analysis of editorial role in responsible publishing

STRENGTHS

WEAKNESSES


internal resources
and capabilities



OPPORTUNITIES

THREATS

factors external to
the organization or
group



STRENGTHS of editors in promoting good research and publishing

- Authority in the scientific community
- Editorial independence
- Expertise in research
- Responsibility for the integrity of published records
- Power to formulate and implement editorial policies

OPPORTUNITIES for editors in promoting responsible publishing practices

- Editors well positioned to detect scientific misconduct
- Availability of new technologies for detecting misconduct
- Editorial policies developed by editorial organizations
- Policies developed by national ethics/integrity bodies
- Greater transparency of publications on the web
- Greater transparency of literature corrections on the web

Editorial publishing policies



www.councilscienceeditors.org



EUROPEAN ASSOCIATION OF SCIENCE
EDITORS

www.ease.org.uk

ICMJE

International Committee of Medical Journal Editors

www.icmje.org



World
Association
of Medical
Editors

www.wame.org



www.publicationethics.org.uk

Editorial policies

CSE's White Paper on Promoting Integrity in Scientific Journal Publications

EASE Science Editors' Handbook – Ethical issues

ICMJE Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication

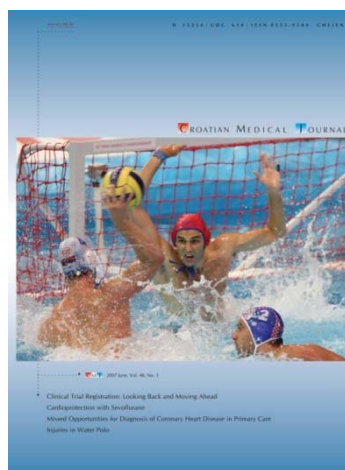
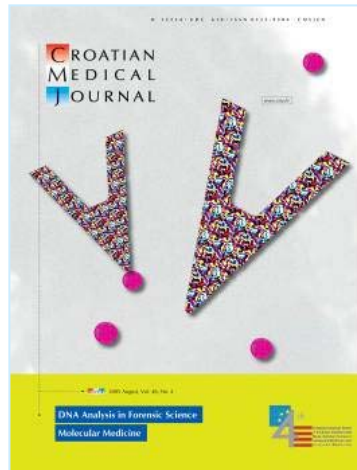
WAME Policy Statement on the Responsibilities of Medical Editors

COPE Code of Conduct, Ethics Flowcharts, Guidelines on Article Retraction

Example: CMJ and ICMJE Statement on the Registration of Clinical Trials

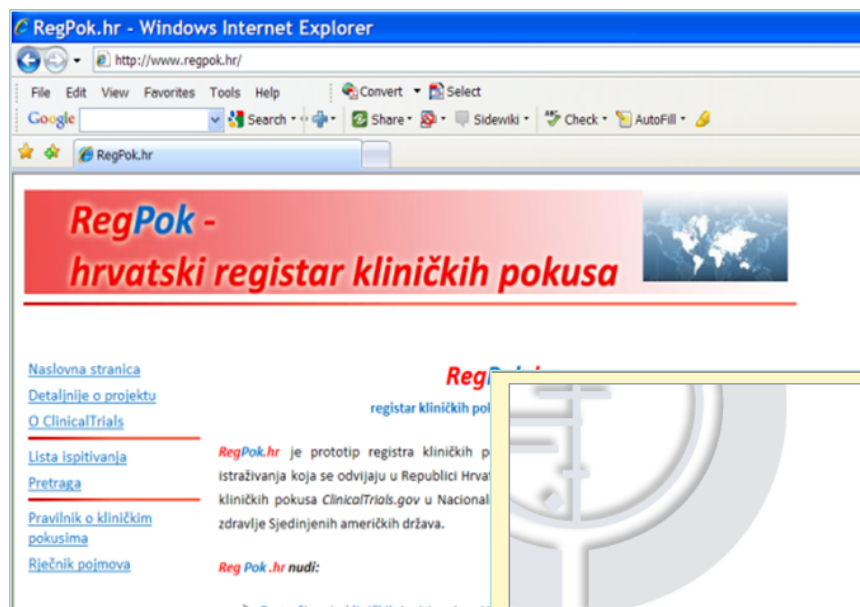


ICMJE meeting in Cavtat, Croatia, 2004



- DeAngelis et al. clinical trial registration: a statement from the International Committee of Medical Journal Editors. *Croat Med J.* 2004; 45: 531-532.
- DeAngelis et al. Is this clinical trial fully registered? A statement from the International Committee of Medical Journal Editors. *Croat Med J.* 2005; 46: 499-501.
- Laine et al. Clinical trial registration: looking back and moving ahead. *Croat Med J.* 2007; 48:289-291

Example: CMJ and ICMJE Statement on the Registration of Clinical Trials



Croatian Branch of the Italian Cochrane Centre

Welcome

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[The Cochrane Collaboration](#)

[News](#)

[The Cochrane Library](#)

[Workshops and events](#)

[4th CroCoS](#)

[Funding and support](#)

- Dario Sambunjak, Director
- Livia Puljak, Knowledge Transfer Coordinator
- Ana Čulina, Office administrator
- Davor Lukšić, Technical support
- Ana Utrobičić, Librarian
- Tina Poklepović, Dental Medicine Coordinator, Split
- Silvija Maslov Kružičević, Family Medicine Coordinator, Split
- Goran Mijaljica, Clinical Medicine Coordinator Split
- Dragan Korolija Marinić, Clinical Medicine Coordinator, Zagreb
- Miljenko Franić, Clinical Medicine Coordinator, Zagreb

Croatian Branch of the Italian Cochrane Centre
Ana Čulina
University of Split School of Medicine
Croatian Centre for Global Health

OPPORTUNITIES: Policies developed by national ethics/integrity bodies

USA: Office for Research Integrity, DHHS; National Science Foundation

Canada: Canadian Institutes of Health Research

Nordic countries: RI Committees in Denmark, Norway, Sweden, Finland

Germany: Deutsche Forschungsgemeinschaft

Switzerland: Swiss Academy of Medical Sciences

India: Indian Council of Medical Research

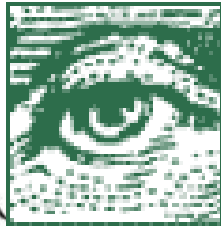
UK: UK Research Integrity Office

Japan: Science Council of Japan

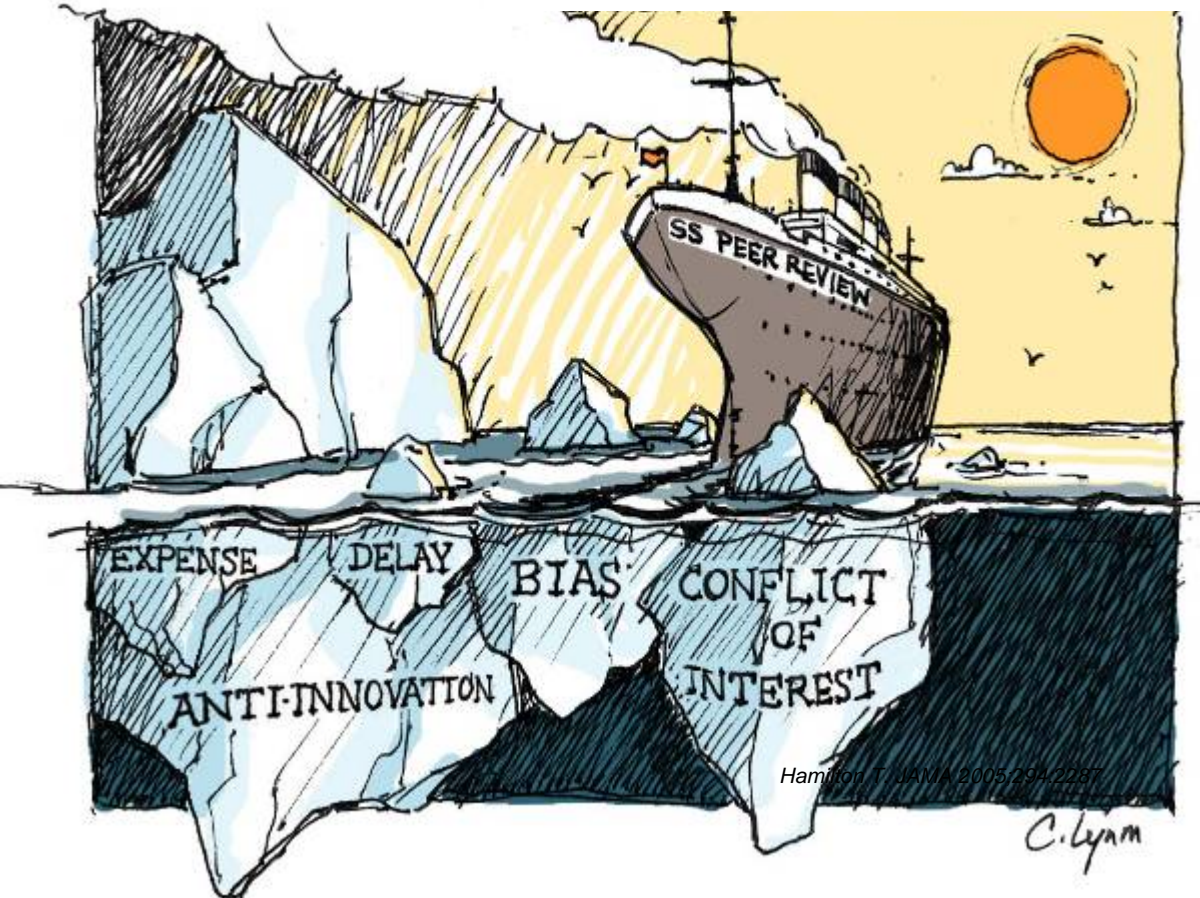
China: Ethics Committee of the Ministry of Education

Croatia: National Board for Ethics in Science and Higher Education

Research in scientific publishing

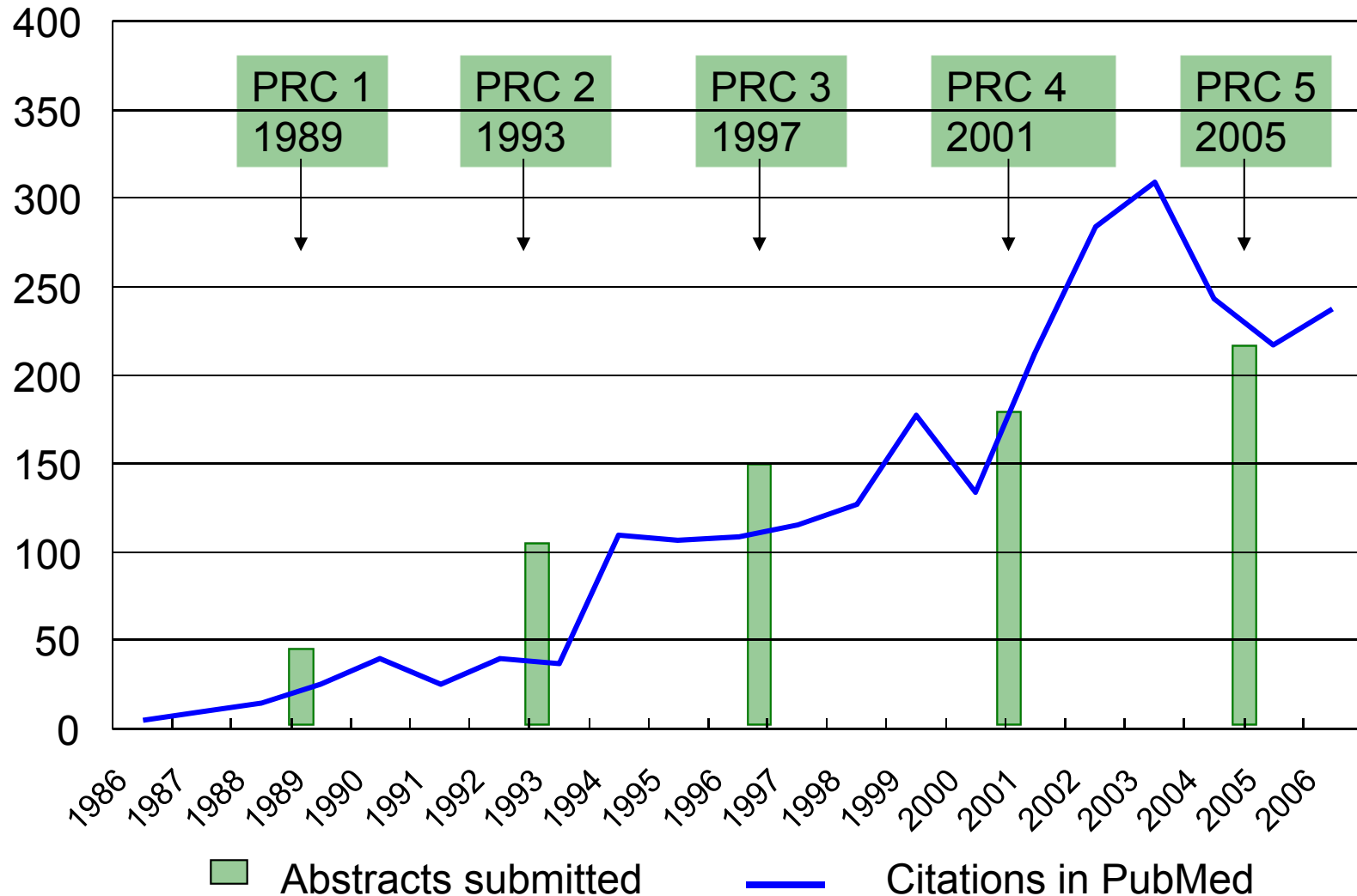


FIFTH INTERNATIONAL CONGRESS ON PEER REVIEW AND BIOMEDICAL PUBLICATION





FIFTH INTERNATIONAL CONGRESS ON PEER REVIEW AND BIOMEDICAL PUBLICATION





Medical Students’ Decisions About Authorship
in Disputable Situations: Intervention Study

Darko Hren • Dario Sambunjak • Matko Marušić •
Ana Marušić

OPEN ACCESS Freely available online

Completeness and Changes in Registered Data and
Reporting Bias of Randomized Controlled Trials in ICMJE
Journals after Trial Registration Policy

Mirjana Huić¹, Matko Marušić², Ana Marušić^{2,3*}

Scientometrics (2011) 86:227–233
DOI 10.1007/s11192-010-0207-7

Analysis of a number and type of publications
that editors publish in their own journals: case study
of scholarly journals in Croatia

Lana Bošnjak • Livia Puljak • Katarina Vukojević • Ana Marušić

Mentoring in Academic Medicine
A Systematic Review

Dario Sambunjak, MD
Sharon E. Straus, MD, MSc, PRCP
Context Mentoring, as a partnership in personal and
velopment, is central to academic medicine, but it is ch
administrative, research, and other educational deman
JAMA, September 6, 2006—Vol 296, No. 9 **1103**

Journal of Investigative Medicine • Volume 58, Number 2, February 2010

Can Teaching Research Methodology Influence
Students’ Attitude Toward Science? Cohort Study and
Nonrandomized Trial in a Single Medical School

Ana Vujaklija, MD,* Darko Hren, PhD,† Dario Sambunjak, MD,‡ Ivana Vodopivec, MD, PhD,§
Ana Ivaniš, MD,‡ Ana Marušić, MD, PhD,|| and Matko Marušić, MD, PhD||

STRENGTHS: Responsibility for the integrity of published records

PubMed Special Queries at http://www.nlm.nih.gov/bsd/special_queries.html

Retracted Publication – Provides a search in PubMed for all citations designated as retracted publications

The screenshot shows the PubMed website interface. The search bar contains the text 'retracted publication [pt]', which is circled in red. Below the search bar, there are links for 'RSS', 'Save search', and 'Advanced'. The page header includes the NCBI logo and navigation links. The search results section is partially visible at the bottom.

[Choose additional filters](#)

Display Settings: ☒ Summary, 20 per page, Sorted by Recently Added

Send to: ☐

Text availability

Abstract available

Free full text available

Full text available

Publication

dates

5 years

10 years

Custom range...

Results: 1 to 20 of 2142

<< First < Prev Page 1 of 108 Next > Last >>

1. [Abstracts of the American Society for Reproductive Medicine \(ASRM\) 67th Annual Meeting. October 15-19, 2011. Orlando, Florida, USA.](#)

[No authors listed]

Fertil Steril. 2011 Sep;96(3 Suppl):S1-301. No abstract available. Retraction in: [Fertil Steril. 2012 Apr;97\(4\):1018. abstract P-449 only.](#)

PMID: 22393576 [PubMed - indexed for MEDLINE]

[Related citations](#)

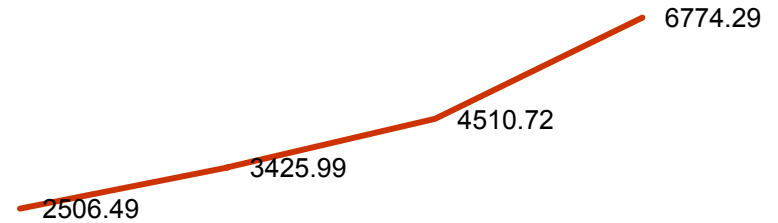
Retractions: PubMed

12 May 2012

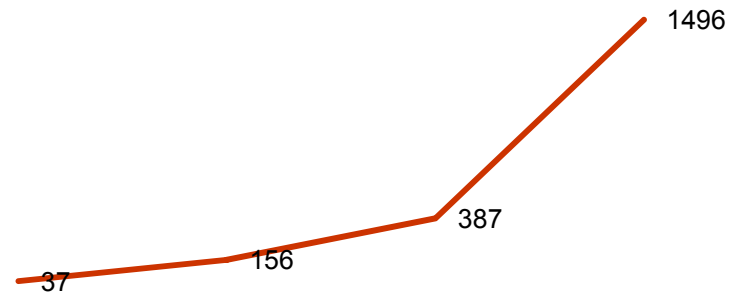
First retraction on PubMed: 1977

Total No. retractions: 2142

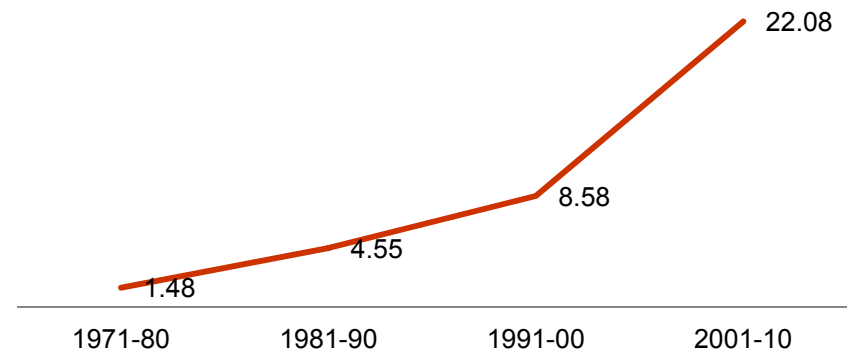
No. items (x1000)



No. retractions



% retractions per 1000 items



Integrity of the published record: Expression of concern

2006 (10.1056/NEJMe068020). **Editorials**

2. **Expression of Concern Reaffirmed**

Curfman G. D., Morrissey S., Drazen J. M.

[Extract](#) | [FREE Full Text](#) | [PDF](#)

N Engl J Med 2006; 354:1193, Mar 16, 2006; published at www.nejm.org on Feb 22, 2006 (10.1056/NEJMe068054). **Editorials**

3. **Expression of Concern: Bombardier et al., "Comparison of Upper Gastrointestinal Toxicity of Rofecoxib and Naproxen in Patients with Rheumatoid Arthritis,"** N Engl J Med 2000;343:1520-8.

Curfman G. D., Morrissey S., Drazen J. M.

[Extract](#) | [FREE Full Text](#) | [PDF](#)

N Engl J Med 2005; 353:2813-2814, Dec 29, 2005; published at www.nejm.org on Dec 8, 2005 (10.1056/NEJMe058314). **Editorials**

4. **Expression of Concern: Schiff H, et al. Daily Hemodialysis and the Outcome of Acute Renal Failure.** N Engl J Med 2002;346:305-10.

Drazen J. M., Ingelfinger J. R., Curfman G. D.

[Extract](#) | [Full Text](#) | [PDF](#)

N Engl J Med 2003; 348:2137, May 22, 2003. **Editorials**

→ 5. **Removal of Expression of Concern: Schiff H, et al. Daily Hemodialysis and the Outcome of Acute Renal Failure.** N Engl J Med 2002;346:305-10.

Drazen J. M., Ingelfinger J. R., Curfman G. D.

[Extract](#) | [Full Text](#) | [PDF](#)

N Engl J Med 2003; 349:1965, Nov 13, 2003. **Editorials**

Integrity of the published record: forensic tools



ORI
research integrity

Office of Research Integrity

US Department of Health and Human Services

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Sections

- Assurance
- Conferences
- Handling Misconduct
- International
- Policies / Regulations
- Publications
- RCR Education
- Past Issues...

Annual Report

ORI Annual Report 2005
PDF format



RESEARCH INTEGRITY OFFICERS - RIOS

Research Integrity Officers are institutional officials who have responsibilities related to the handling of allegations of research misconduct involving biomedical or behavioral research or research training supported by the Public Health Service (PHS).

The resources below are aimed at assisting RIOS in performing their duties.

Forensic Tools and Articles

- » [Forensic Droplets and Actions Tools Section](#)
- » [Image Processing Useful in Misconduct Investigations](#)
- » [Statistical Forensics: One Digit Too Many](#)
- » [Statistical Forensics: Check Rightmost Digits for Uniform Distribution](#)

RIOs Menu

- » [Introduction](#)
- » [RIO Video](#)
- » [RIO Handbook](#)
- » [Forensic Tools](#)

New technologies for detecting misconduct

Rossner M, Yamada KM. What's in a picture? The temptation of image manipulation. *Journal of Cell Biology* 2004;166:11-15

Journal Policy:

- No specific feature within an image may be enhanced, obscured, moved, removed, or introduced.
- Adjustments of brightness, contrast, or color balance are acceptable if they are applied to the whole image and as long as they do not obscure or eliminate any information present in the original. Nonlinear adjustments must be disclosed in the figure legend.

Image manipulation: brightness and contrast adjustments

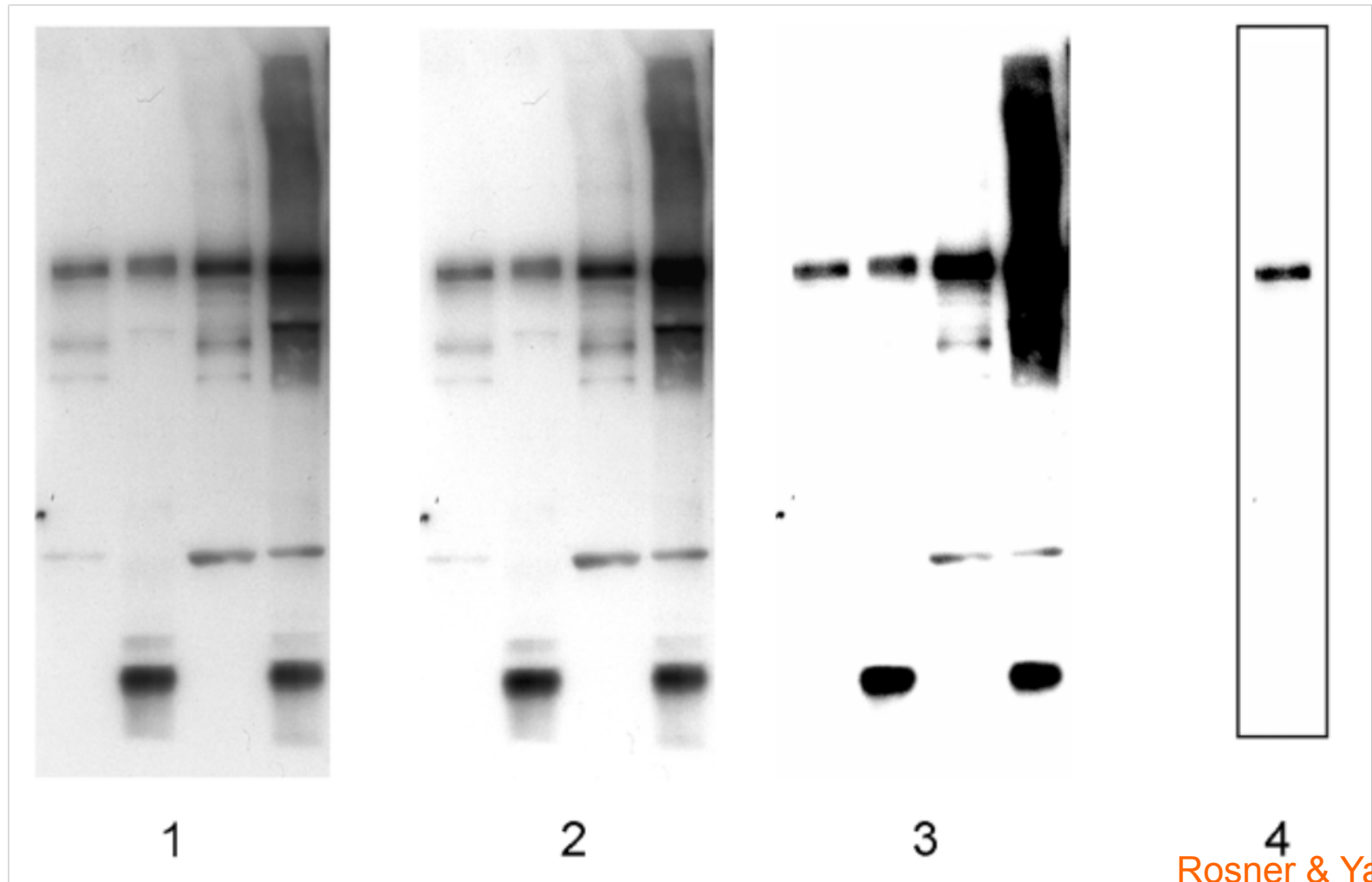
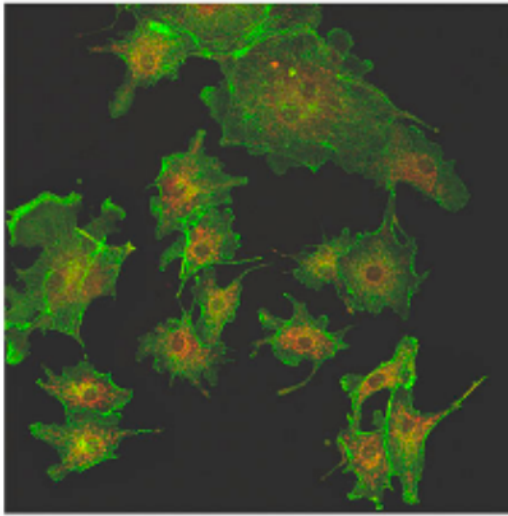
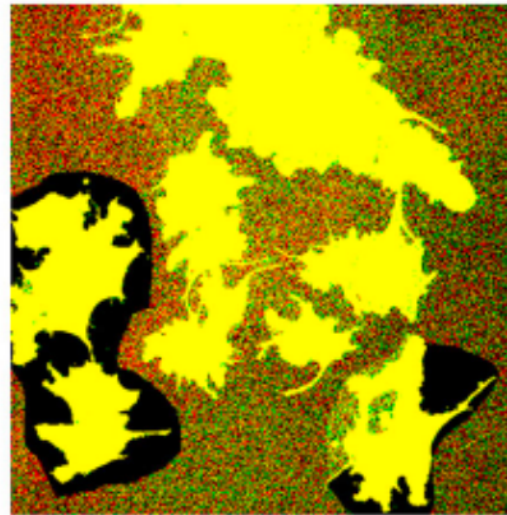


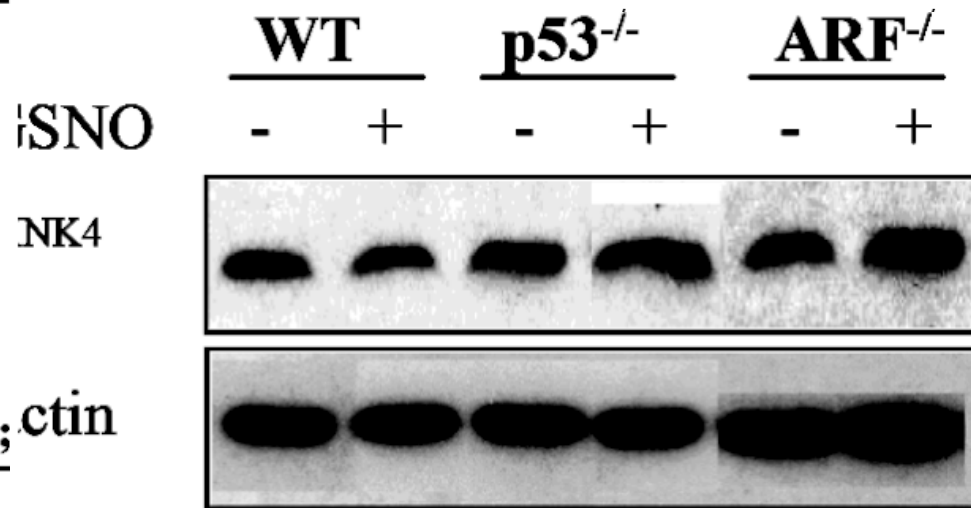
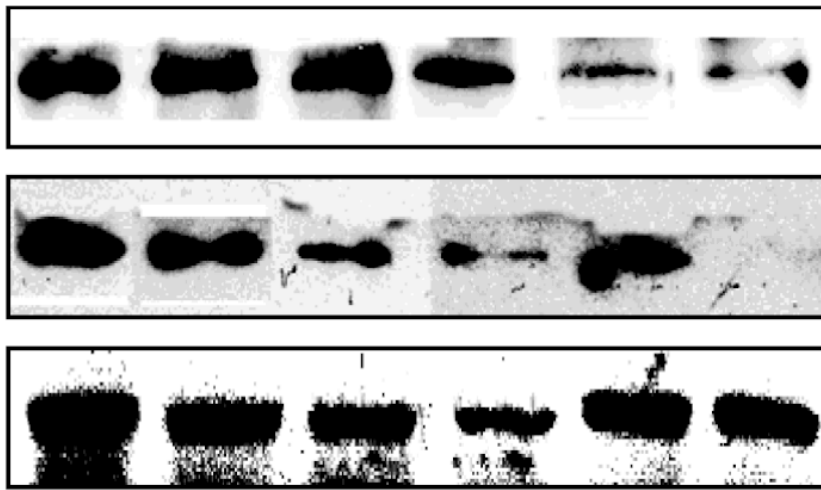
Image manipulation: Misrepresentation of image data



Manipulation
revealed
by contrast
adjustment

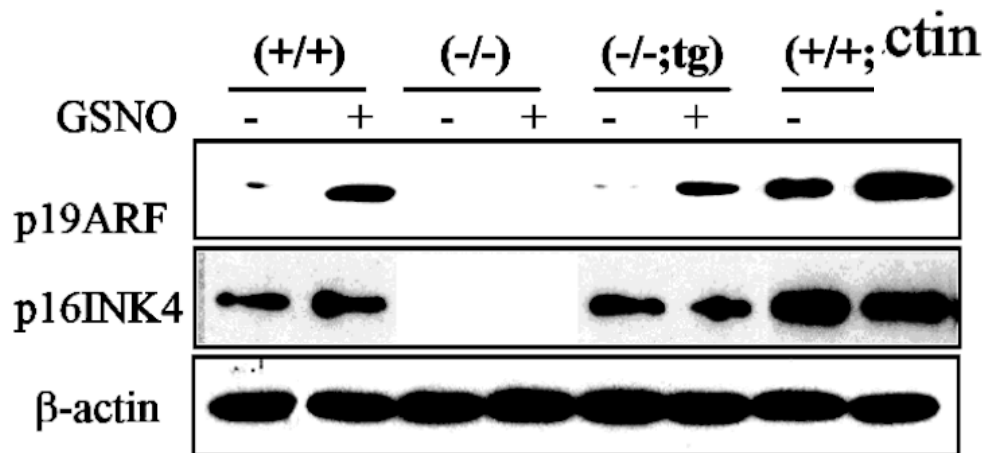


Rosner & Yamada
J Cell Biol 2004



B

INK4a/ARF



Thanks to David Vaux, International Council for Science, presented at 2nd WRIC

New technologies for detecting misconduct

<http://etest.vbi.vt.edu/etblast3/>



Search eTBLAST

Enter your query text:

Select database

- ☒ MEDLINE
- ☐ CRISP
- ☐ NASA
- ☐ Medical Cases
- ☐ PMC Full Text
- ☐ PMC METHODS
- ☐ PMC
- INTRODUCTION
- ☐ PMC RESULTS
- ☐ PMC (paragraphs)
- ☐ PMC Medical Cases
- ☐ Clinical Trials
- ☐ Arxiv
- ☐ Wikipedia
- ☐ VT Courses

--OR upload file-- (a ["text only"](#) file)

[A quick guide](#)

While PubMed searches for "keywords", **eTblast** returns MEDLINE abstracts that are similar to entire paragraphs.

Lewis J, Ossowski S, Hicks J, Errami M, Garner HR. Text similarity: an alternative way to search MEDLINE. *Bioinformatics* 2006; 22: 2298-2304

New technologies for detecting misconduct

<http://spore.vbi.vt.edu/dejavu/duplicate/>

Welcome to Deja vu Browsing pages

Help/Definitions/Classification

Home> Browse > Entry

Q

Search

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Detailed Search

Display Options

Quick links

Highly Similar/SA

Highly Similar/DA

By Classification

All

COMMENTS

ERRATUM

EXAMINED

MEDLINE ISSUE

SANCTIONED

UNVERIFIED

Filter by

☐ Full text similarity

☐ Authors (SA/DA)

☐ Journals (SJ/DJ)

☐ Reviews(R)

☐ Languages

☐ Medline Duplicate

☐ Retracted

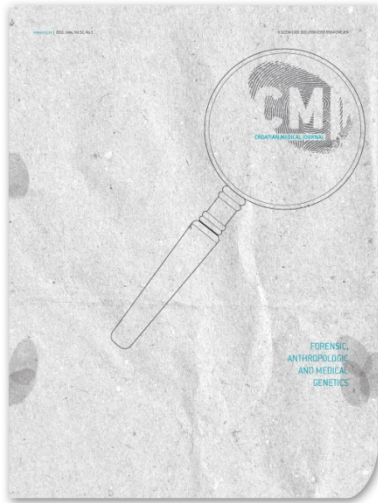
☐ PMC full text

☐ Discovery methods

☐ Curator

☐ Full Text Examined

ID	Earlier Article	Later Article	Lag Mon	Language	Sim. Ratio	Full text sim.	Share author	Classification	Modified date	Thumbnails
1	7587703 [Chai, B et al., 1995][Medline]	9275340 [Chai, B et al., 1996][Medline]	16	chi eng	0.91	-	Y	EXAMINED	2007-02-14	
2	16475345 [He, Hong et al., 2005][Medline]	16494333 [Liu, Junfeng et al., 2006][Medline]	2	eng eng	0.59	-	Y	EXAMINED	2007-02-14	
3	16734501 [Battershill, Anna J et al., 2006][Medline]	16526829 [Battershill, Anna J et al., 2006][Medline]		eng eng	0.96	-	Y	EXAMINED	2007-02-14	
4	8199193 [Birchmeier, W et al., 1994][Medline]	7587628 [Birchmeier, W et al., 1995][Medline]		eng eng	0.79	-	Y	EXAMINED	2007-02-14	
5	8980928 [Mahmood, I,1996][Medline]	8893036 [Mahmood, I et al., 1996][Medline]		eng eng	0.91	-	Y	EXAMINED	2007-02-14	
6	15497674 [O'Hagan, Derek T et al., 2004][Medline]	16480788 [O'Hagan, Derek T et al., 2006][Medline]	19	eng eng	0.90	-	Y	EXAMINED	2007-02-14	
7	16868161 [Kim, Hyun S et al., 2006][Medline]	16967220 [Kim, Hyun S et al., 2006][Medline]		eng eng	0.68	-	Y	EXAMINED	2007-02-14	
10	8957676 [Schodel, F et al., 1996][Medline]	8717391 [Schodel, F et al., 1996][Medline]		eng eng	0.58	-	Y	EXAMINED	2007-02-14	
11	8202635 [Plebani, M et al., 1994][Medline]	7587835 [Plebani, M et al., 1995][Medline]		eng eng	0.61	-	Y	EXAMINED	2007-02-14	
12	7529528 [Jensen, K E et al., 1994][Medline]	7491720 [Hansen, B et al., 1995][Medline]	12	eng dan	0.68	-	Y	EXAMINED	2007-02-14	
13	7718867 [Shen, J et al., 1994][Medline]	7781134 [Ye, Q et al., 1995][Medline]	2	eng chi	0.88	-	Y	EXAMINED	2007-02-14	
14	8659291 [Lopez Pereira, P et al., 1995][Medline]	8962819 [Lopez Pereira, P et al., 1996][Medline]	11	spa spa	0.75	-	Y	EXAMINED	2007-02-14	



First case of plagiarism in the CMJ

Role of systematic reviews in detecting plagiarism: case of Asim Kurjak

Iain Chalmers

BMJ 2006;333:594-7

Help from WAME Ethics Committee and COPE

3 cases of duplicate publications confirmed

2 retracted by the CMJ

1 should be retracted by a US journal, but is still not retracted

Retractions on Pubmed

NCBI Resources ▾ How To ▾

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed ▾ retracted publication [pt] kurjak a

RSS Save search Limits Advanced

[Display Settings:](#) ▾ Summary, Sorted by Recently Added

Results: 2

- ☐ [What do contrast media add to three-dimensional power Doppler evaluation of adnexal masses?](#)
 1. Sparac V, Kupesić S, **Kurjak A**.
Croat Med J. 2000 Sep;41(3):257-61. Retraction in: [Marusic M. Croat Med J. 2007 Apr;48\(2\):145](#).
PMID: 10962043 [PubMed - indexed for MEDLINE] **Free Article**
[Related citations](#)
- ☐ [Intervillous blood flow in patients with missed abortion.](#)
 2. **Kurjak A**, Kupesić S, Hafner T, Latin V, Kos M, Harris RD.
Croat Med J. 1998 Mar;39(1):41-4. Retraction in: [Marusić M. Croat Med J. 2007 Jun;48\(3\):390](#).
PMID: 9475806 [PubMed - indexed for MEDLINE]
[Related citations](#)

Ensuring the integrity of the published record



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Promoting integrity in research publication

COPE is a forum for editors and publishers of peer-reviewed journals to discuss all aspects of publication ethics. It also advises editors on how to handle cases of research and publication misconduct. Read more [About COPE...](#)

1,2,3,4,5

Guidelines

Access COPE's official guidance, including the Retraction Guidelines.



Flowcharts

Our flowcharts are designed to help editors follow COPE's Code of Conduct and implement its advice when faced with cases of suspected misconduct.



COPE Research Grant

COPE offers a grant of up to £5000 to a COPE member for a research project into publication ethics. The next deadline for applications is 1st December 2011.



Code of Conduct

COPE aims to define best practice in the ethics of scholarly publishing and to assist editors, editorial board members, owners of journals and publishers to achieve this.

NEWS & OPINION

Opinion / Can guest authors of ghostwritten articles be sued?

Opinion / New developments in citation information

Opinion / NIH drops plans for Col website

Integrity of the published record: COPE Flowcharts

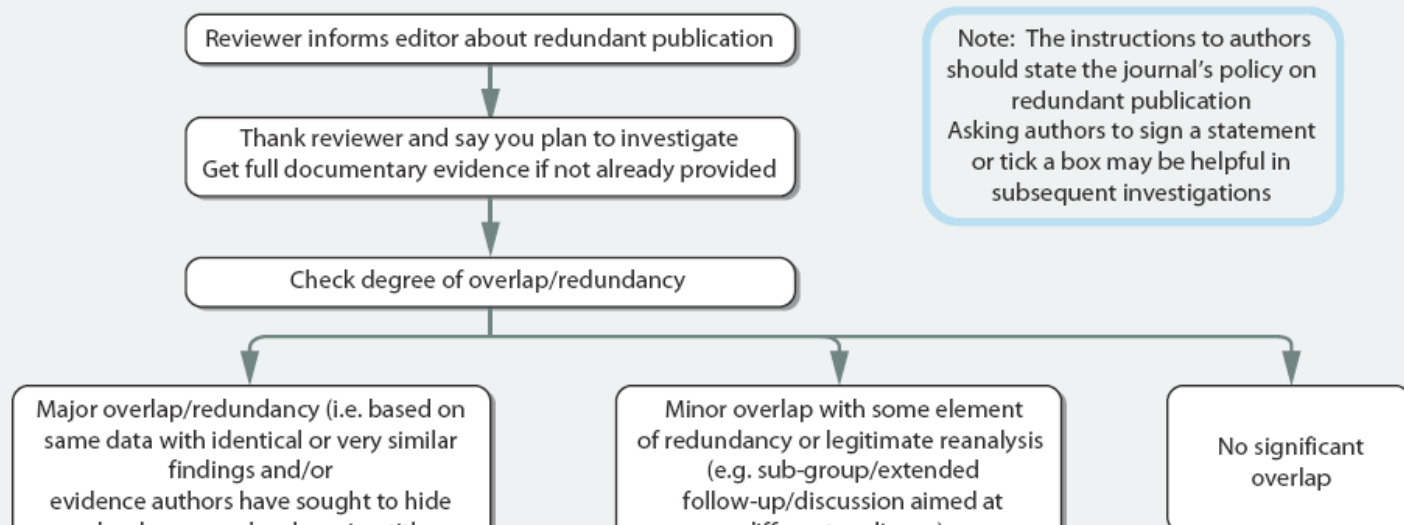


COMMITTEE ON PUBLICATION ETHICS

WWW.PUBLICATIONETHICS.ORG

What to do if you suspect redundant (duplicate) publication

(a) Suspected redundant publication in a submitted manuscript



New technologies for detecting misconduct

<http://spore.vbi.vt.edu/dejavu/duplicate/>

Welcome to Deja vu Browsing pages Help/Definitions/Classification

Home > Browse > Entry

Search Search All Detailed Search Display Options

ID	Earlier Article	Later Article	Lang Mon	Language	Sim. Ratio	Full text sim.	Share author	Classification	Modified date	Thumbnails	Quick links
1	Evaluation of single intensive care unit performance by simplified acute physiology score II system.										
2	Desa K, Sustić A, Zupan Z, Krstulović B, Golubović V.										
3	Croat Med J. 2005 Dec;46(6):964-9. Retraction in: Desa K. Croat Med J. 2008 Jun;49(3):421.										
4	PMID:										
5	16342351										
6	[PubMed - indexed for MEDLINE]										
7											
10											
11											
12											
13											
14											

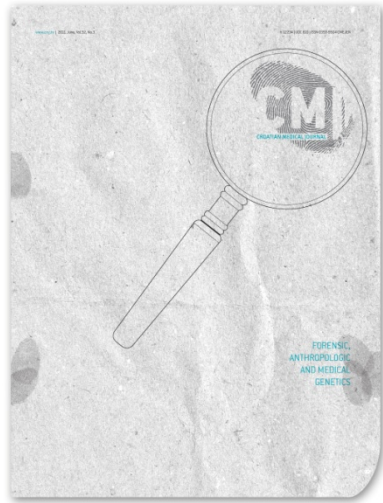
Deja vu
A study of scientific publication ethics

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[covery methods](#)
[ator](#)
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Innovation Labs
Virginia Bioinformatics Institute



Team from the
Rijeka University
School of
Medicine:

Baždarić et al,
*Science and
Engineering
Ethics*, 2011

Since 2009, checking all submitted manuscripts by CrossCheck, eTBLAST and Wcopyfind

754 submitted papers:

- 14% of 754 manuscripts with suspicious text similarity, 11% verified after inspection
- 22 out of 85 manuscripts had elements of self-plagiarism
- text similarity ranged from 12 to 58%, median 25%, with no difference between plagiarized and self-plagiarized articles
- 10 cases were dealt by the editorial board of the CMJ; Seven plagiarized scientific papers were rejected after the report and in 3 cases papers were accepted after follow-up investigation and revision

WEAKNESSES of editors in promoting responsible research publishing

- No mandate for legal actions
- Few means of action: expression of concern and retraction
- Reluctance to get involved in delicate issues
- Possible damage to journal's reputation
- Lack of education and staff to implement adequate procedures

THREATS to editors promoting responsible research publishing

- Lack of legal regulation and culture of research integrity in the scientific community
- No training available
- Lack of support from stakeholders in scientific publishing (publishers, associations, scientists, academic and scientific community)
- Pressures on editors and journal (publishers, financial conflict of interest)
- Corruption of the scientific community and governments

“Most of the allegations and findings center upon publication issues, because scientific publication documents the actions of the researcher.”

Claxton LD. Scientific authorship. *Mutat Res*

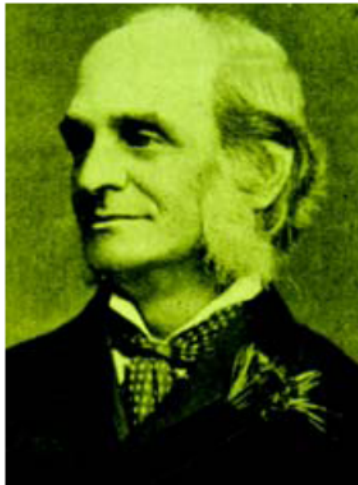
If journals and their editors are placed well to detect scientific misconduct, they are also well placed to prevent misconduct and promote responsible conduct of research.

THREATS to editors promoting responsible research

Can medical journals lead or must they follow?

Richard Smith

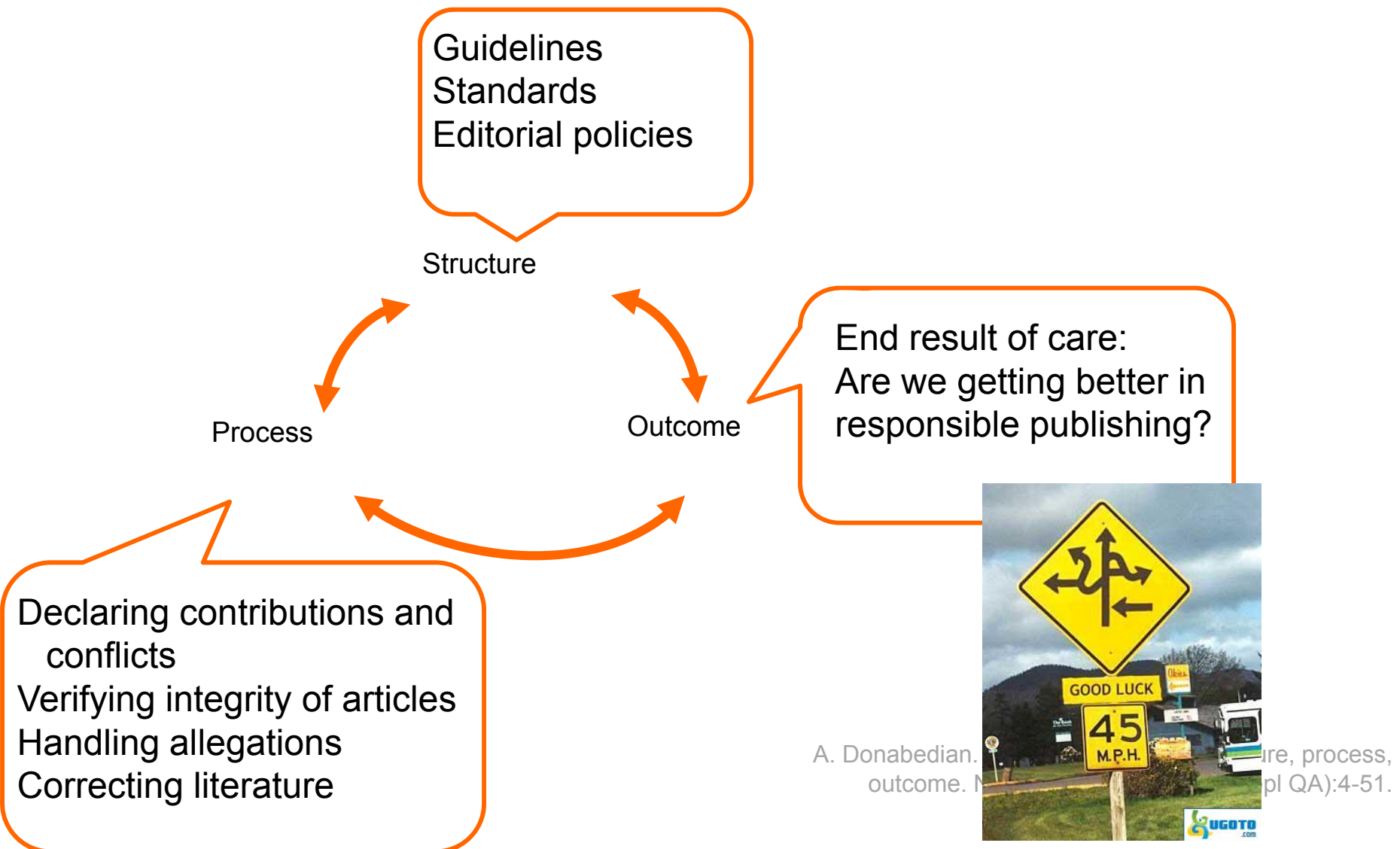
MJA • Volume 183 Number 11/12 • 5/19 December 2005



Ernest Hart, Editor of the BMJ, 1867–1898, made use of his extensive social contacts to promote the issue of child protection.

“An editor needs, and must have, enemies; he can’t do without them. Woe be unto the journalist of whom all men say good things.”

Quality assurance in editing





Thank you!

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