Research Integrity: Why Is This Such a Problem?

Lee M. Ellis, MD, FACS, FASCO

Departments of Surgical Oncology, and Molecular & Cellular Oncology
UT MD Anderson Cancer Center

Other roles where I am constantly aware of the importance of research integrity

- SWOG (Vice Chair, Translational Medicine)
- JAMA Oncology (Deputy Editor)
- 4 Clinical Trial Data Monitoring Committees

GCC Workshop: October, 2022

Research Integrity And Its Effects On Drug Development

- Integrity of laboratory research and how this impacts clinical outcomes
 - The issue at hand
 - The spectrum
 - Why does this occur?
 - What can we do to fix this?

Don't Be Surprised if You Feel One or More of the Following Emotions After This Lecture

- Shocked
- Angry
- Embarrassed (Guilty?)
- Entertained
- Discouraged
- Reinvigorated
 - You don't have to publish in CNS to have a successful career and more importantly, to make significant contributions!
- All of the above

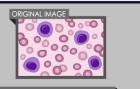
Everything You Need to Know About Research Integrity From One Site

https://ori.hhs.gov/infographics

SCIENTIFIC IMAGES LA SERVICIO IMAGES LA SERV

Images should clearly and correctly represent research results. Minor image processing may be acceptable but, as depicted below there's a fine line between enhancing an image and distorting it.





COLOR ENHANCEMENTS



image stays the same and fine

000 0

increased causing the background cells to disappear

SPLICE & PASTE





CROP

dividing line and labels.





selectively removed from the image causing loss of data.

WHAT ELSE MUST YOU DO?

- Clearly document all changes made to an image.
- Retain the unprocessed image for your records.
- Follow journal guidelines for premissible processing.

LEARN MORE ABOUT IMAGE PROCESSING: http://ori.hhs.gov/ImageProcessing











WRITE ETHICALLY

PREPARE

LITERATURE

Secondary sources might have misinterpretec the work

— HAVE A — **THOROUGH** UNDERSTANDING OF YOUR SOURCES

CITE YOUR SOURCES

communicate their ideas and terminology

WRITE



— USE YOUR — OWN WORDS SENTENCE

MAINTAIN AND & THE INTENDED OR VERBATIM MEANING OF THE SOURCE



PUBLISH



acknowledging

and alternative

interpretations

conflicting evidence

hose who have made substantial contributions to

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Learn more about ethical writing: ori.hhs.gov/ethical_writing

RESEARCH TRAINEES

WHAT YOU NEED TO KNOW ABOUT RESEARCH MISCONDUCT Is Not Limited to **Published Research**

Research **Affects Everyone** There is a

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Misconduct Anonymously

Anyone

Can Report

Misconduct

Report Research

Learn more about responsible research at: ori.hhs.gov

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Got Questions? Ask ORI.

HOW DO I MAKE AN ALLEGATION Is it okay to use ORI's educational OF RESEARCH MISCONDUCT? materials in my RCR course?

I'm the RIO, and I'm not sure what to do about ..?

I reported misconduct; then my contract wasn't renewed. Is this retaliation?

How do I use ORI's I think someone plagiarized my work. What do I do?

I REPORTED MISCONDUCT BUT HAVEN'T HEARD ANYTHING ... WHAT'S HAPPENING?

If we can't answer your question, we can refer you to the people who can.





Email us at AskORI@hhs.gov if you have questions about research integrity.













WAYS SUPERVISORS CAN PROMOTE RESEARCH INTEGRITY

Roles such as these place you in a unique position to cultivate exceptional research practices among the next generation of researchers











Prevent misunderstandings by making sure everyone is on the same page.





you ever suspect research misconduct.



Find out more: ¥ # ori.hhs.gov @HHS ORI #ORIedu

RESEARCH



AVOID CONTROVIATION

Direct confrontation may lead to retaliation and/or tampering with evidence.

KEEPNOTES

SUSP

CONSIDER

Document details and save communications related to the misconduct. This will help you by the institution.

EDUCATE YOURSELF

Read your institution's research misconduct policy or contact the U.S.O ce of Research Integrity (ORI) with questions.

SHKSLPPORT

You may want to get advice from someone you

CONSULTYOUR RESEARCH INTEGRITY OFFICER (RO

RIOs can help you better understand the situation. You can speak in hypotheticals as you consider making an o cial allegation.

REPORTING MSCONDUCTISDIFFICULT... BUT I TO AN BEWORTH IT.

PEOPLE OFTEN WORRY ABOUT:

- The reputation and career of the accused - How others in the lab will be a lected
- Implications for their own caree

BESTED HC

- REPORTING MSCONDUCTHELPS = Prevent false and misleading information from
- entering the research record - Correct the scienti, c literature
- = Ensure funding is awarded to responsible research
- = Protect the public's trust in science

BEAVAILABLE

Provide the RIO with speci c examples of The RIO may require your help identifying suspected misconduct and where it occurred (e.g. manuscripts, presentations, posters, grant

REPREPARED FOR SUFFICE

Institutional policies may limit your access to con dential information about research misconduct proceedings.

and examing evidence, explaining how the research was falsi ed, fabricated, or plagiarized, and cooperating as a witness

REPATIFIVE

Research misconduct proceedings take considerable e ort and time to complete

RESULTS



POSSIBLE RED FLAGS OF RESEARCH MISCONDUCT



Data are too good to be true Usable data are only generated when there is a pressing deadline Findings can't be replicated

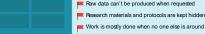




LACK OF TRANSPARENCY

Raw data can't be produced when requested

Work is mostly done when no one else is around



If you suspect research misconduct

Sources of Information on the Topic of Research Integrity

- Retractionwatch.com
- PubPeer
- Leaders in the field
 - Elizabeth Bik (twitter)
 - Arturo Casadevall
- http://forbetterscience.com
- Office of Research Integrity



Welcome to another edition of The RW Daily.

Know someone who would enjoy The RW Daily? They can subscribe here.



Margaret Salinas
"Are Your
Participants Real?
Dealing with Fraud
in Recruiting Older
Adults Online."

Read more



"Improving research integrity: a framework for responsible science communication."

Read more



"A Black Doctor
Tried To Diversify
Medicine. Then She
Lost Her Job."
(Buzzfeed News)

Read more

Worthwhile Reads Elsewhere

An obituary is <u>retracted</u>.

ICYMI

 Weekend reads: Dogs removed from controversial research facility; 'an unacceptable idea'; 'blind spots on western blots'

retractionwatch.com

COVID Retractions as of October 14, 2022

Retracte

- "5G Technology and induction of coronavirus in skin cells," published in Biological Regulators & Homeostatic Agents on July 16, 2020, withdrawn on July 24, 2020. Our coverage here.
- "A review of convalescent plasma transfusion in COVID-19: Old wine reserved for special occasions," published in Lung India on September 16, 2020; retracted December 31, 2020.
- Acute necrotizing myelitis and acute motor axonal neuropathy in a COVID-19 patient," published in *Journal of Neurology* on August 9, 2020; unknown date of retraction.
- 4. An epidemiological investigation of a new coronavirus pneumonia cluster epidemic spread in public transportation" (also titled "An epidemiological investigation of 2019 novel coronavirus diseases through aerosol-borne transmission by public transport"), published in early March in Practical Preventive Medicine and retracted sometime in mid-April. More context here.
- "Anal swab as the potentially optimal specimen for SARS-CoV-2 detection to evaluate the hospital discharge of COVID-19 patients," published on August 14, 2020 in Future Microbiology, retracted on April 13 2021.
- "Analysis of Ten Microsecond simulation data of SARS-CoV-2 dimeric main protease." preprint posted on bioRxiv. April 12, 2020. withdrawn April 16, 2020.
- 7. "Analysis of thin-section CT in patients with coronavirus disease (COVID-19) after hospital discharge," published on May 15, 2020 in Clinical Imaging; retraction date/reason is unknown.
- 8. "Autopsy and Histologic Findings of Patients with New Coronavirus Pneumonia: The Pathologic Associations with Hypoxemia," published on February 13, 2020 in Medical Science Monitor; retracted on March 17, 2021.
- "Calcifediol Treatment and COVID-19-Related Outcomes," posted to Preprints with The Lancet on January 22 and removed on February 19. Our coverage here.
- "Can quantitative RT-PCR for SARS-coV-2 help in better management of patients and control of coronavirus disease 2019 pandemic," published on November 16, 2020 in Indian Journal of Medical Microbiology, unknown date of retraction.
- 11. "Can Traditional Chinese Medicine provide insights into controlling the COVID-19 pandemic Seprentinization-induced thiospheric long-wavelength magnetic anomalies in Proterozoic bedrocks in a weakened geomagnetic field mediate the aberrant transformation of biogenic molecules in COVID-19 via magnetic catalysis," published in Science of the Total Environment on October 8, 2020, "temporary removal" on November 5, 2020, subsequently retented on an unknown date. Our

65. "Mechanical ventilation in COVID-19: Is it due to patient or virology factors," pub-

lished on June 14, 2020 in the Annals of Medicine and Surgery; date of retraction is

6. "Mental health burden for the public affected by the COVID-19 outbreak in China:

Who will be the high-risk group?," published April 14, 2020 in Psychology, Health

57. "Mental health status and coping strategy of medical workers in China during The

68. "Mortality of a pregnant patient diagnosed with COVID-19: A case report with clin-

ical, radiological, and histopathological findings," published in Travel Medicine

and Infectious Disease on April 11, 2020, retracted on May 2, 2020. Our cover-

59. "mRNA Vaccines to Prevent COVID-19 Disease and Reported Allergic Reactions:

Current Evidence and Approach," published December 31, 2020 in The Journal of

Allergy and Clinical Immunology: In Practice. Temporary Removal published on

0. "Needed: Less influenza vaccine hesitancy and less presenteeism among health

Development: retracted sometime in March, 2021, See our coverage here.

1. "No Deleterious Effect of Lockdown Due to COVID-19 Pandemic on Glycaemic

72. "Noninvasive versus invasive ventilation: one modality cannot fit all during

3. "Noteworthy Neurological Manifestations Associated With COVID-19 Infection,"

4. "Novel research opportunities: an unfortunate small silver lining to COVID-19."

published on October 2, 2020 in Early Human Development; retracted on sometim

5. "Novel research opportunities 2: An unfortunate small silver lining to COVID-19,"

published on November 12, 2020 in Early Human Development; retracted some-

76. "Nurses reports of actual work hours and preferred work hours per shift among

sectional survey," published on May 16, 2020 in the International Journal of

frontline nurses during coronavirus disease 2019 (COVID-19) epidemic: A cross-

COVID-19 outbreak," published on July 8, 2020 in the Korean Journal of

Anesthesiology, retracted on September 14, 2020. Our coverage here.

published on July 3, 2020 in Cureus, retracted on March 5, 2021.

care workers in the COVID-19 era," published on October 1, 2020 in Early Human

Control, Measured by Glucose Monitoring, in Adults with Type 1 Diabetes," pub-

lished on May 12, 2020 in Diabetes Technology & Therapeutics, retracted July 27,

COVID-19 outbreak," preprint posted on medRxiv on February 25, 2020, with-

& Medicine and retracted on October 23, 2020. Our coverage here.

drawn on March 7, 2020

unknown date

2020. Our coverage here.

in March. 2021. See our coverage here.

time in March, 2021. See our coverage here.

Nursing Studies; date of retraction is unknown.

- 12. "Can Your AI Differentiate Cats from Covid-19? Sample Efficient Uncertainty Estimation for Deep Learning Safety," reportedly to be presented at the ICML 2020 Workshop on Uncertainty and Robustness in Deep Learning in July, 2020, removed sometime before June 17, 2020. Improbable Research discusses it here.
- "Cardiovascular Disease, Drug Therapy, and Mortality in Covid-19," published in the New England Journal of Medicine on May 1, 2020, subjected to an expression of concern on June 2, 2020 and retracted on June 4.
- 14. "Characteristics and risk factors for COVID-19 diagnosis and adverse outcomes in Mexico: an analysis of 89,756 laboratory-confirmed COVID-19 cases," published in the European Respiratory Journal on July 31, 2020, and retracted on March 4, 2021.
- "Chinese medical staff request international medical assistance in fighting against COVID-19," letter in The Lancet published February 24, 2020 and retracted February 26, 2020. More context her.
- "Chinese mental health burden during the COVID-19 pandemic," published in Asian Journal of Psychiatry on April 14, 2020 and retracted on November 4, 2020. Our coverage here.
- "Clinical and Epidemiological Characteristics of 34 Children With 2019 Novel Coronavirus Infection in Shenzhen," published in *Zhonghua Er Ke Za Zhi* on February 17, 2020, date of retraction unknown.
- "Clinical manifestations and outcome of SARS-CoV-2 infection during pregnancy," published on March 5, 2020 in *Journal of Infection*; unknown date of retraction. Hat tip.
- "Chloroquine or hydroxychloroquine for COVID-19: why might they be hazardous?" published in The Lancet on May 22, 2020, retracted and replaced July 9, 2020. Our coverage here.
- "Clinical sequelae of the novel coronavirus: does COVID-19 infection predispose
 patients to cancer?", published in Future Oncology in May 2020, retracted for plagiarism in December 2020. Our coverage here.
- 21. "Computational analysis suggests putative intermediate animal hosts of the SARS— <u>CoV-2</u>," preprint posted on *bioRxi*v on April 5, 2020, withdrawn April 20, 2020.
- "Convalescent plasma therapy in COVID 19: Every dark cloud has a silver lining," published on October 16, 2020 in Journal of Anaesthesiology Clinical Pharmacology: retracted January 18, 2021.
- "Corona Virus Killed by Sound Vibrations Produced by Thali or Ghanti: A Potential
 Hypothesis," published in March-August 2020 issue of Journal of Molecular
 Pharmaceuticals and Regulatory Affairs: date of retraction unknown.
- "Coronavirus disease-2019: A brief compilation of facts," published on May 8, 2020
 in the Journal of Oral and Maxillofacial Pathology; retracted in the May-August
 2020 issue.

Obesity Research & Clinical Practice, retracted February 6, 2021

- 77. "Obesity and mortality of COVID-19. Meta-analysis," published on July 9, 2020 in
- "One of COVID-19's many costs: Malas's expenditure in consumables and nonconsumables, a population-based study." published on October 1, 2021 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
 "Patterns of COVID-19 Mortality and Vitamin D: An Indonesian Study," preprint posted on April 30, 2020 in SSSN: Social Science Resource Network, Retraction date.
- unknown. (Hat tip to <u>HealthNerd</u>)

 80. "Phytotherapeutic options for the treatment of COVID-19: A concise viewpoint,"
 published on August 20, 2020 in Phytotherapy Research; retracted on Decembe
- published on August 20, 2020 in Phytotherapy Research; retracted on December 30, 2020.

 81. "Potential False-Positive Rate Among the 'Asymptomatic Infected Individuals' in
- "Fotential raise-rositive sate Among the asymptotiantic infected individuals Close Contacts of COVID-19 Patients," published March 5, 2020 in the Chinese Journal of Epidemiology and retracted a few days later. More context here.
- "Proposal for Initiative of Evidence-based Treatment of COVID-19 Patients with Worsening Hypoxia," published on October 7, 2020 in the American Journal of Respiratory and Critical Care Medicine: date of retraction unknown.
- "Psychosis: A Presentation of COVID-19," published on June 12, 2020 in Psychosomatics; date of retraction is unknown.
- 84. "Psychiatric Predictors of COVID-19 Outcomes in a Skilled Nursing Facility Cohort" medRxiv preprint posted May 26, 2020, and withdrawn June 21, 2020.
- "Racial Disparity Amongst Stroke Patients During the Coronavirus Disease 2019
 <u>Pandemic</u>," published on September 10, 2020 in Cureus; <u>retracted</u> on January 13, 2021.
- 86. "Review of the Emerging Evidence Demonstrating the Efficacy of Ivermectin in the Prophylaxis & Treatment of COVID-19." published as an abstract at Frontiers in Pharmacology in January 2021, removed without a notice by March 1, 2021. Coverage by The Scientist here.
- 87. "Safe school reopening under COVID-19 restrictions Measures implemented in San Andrea independent school in Malta," published on October 1, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "SARS-CoV-2 infects T lymphocytes through its spike protein-mediated membrane fusion," published in Cellular & Molecular Immunology April 7, 2020, subject to an expression of concern in early June 2020, retracted July 10, 2020. Our coverage here.
- SARS-CoV-2 was Unexpectedly Deadlier than Push-scooters: Could Hydroxychloroquine be the Unique Solution?" published on August 15, 2020 in Asian Journal of Medicine and Health, retracted August 16, 2020. Our coverage here.
- 90. "Seeding of outbreaks of COVID-19 by contaminated fresh and frozen food," pre-

- 25. "Countering fake news in the COVID-19 era: The public's opinion on the role of at honest and reliable website," published on November 17, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- 26. "COVID-19: A global and continental overview of the second wave and its (relatively) attenuated case fatality ratio," published on October 3, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "COVID-19: Combined supply-side and demand-side shocks, so lift restrictions (carefully) lest GPD declines ultimately kill more than COVID-19." published on October 1, 2020 in Early Human Development; retracted sometime in March, 2021 See our coverage here.
- "COVID-19: Mathematical estimation of delay to deaths in relation to upsurges in positive rates," published on October 1, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "COVID-19: The possible seasonal shape of things to come," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "COVID-19, Suicide, and Fernicide: rapid research using Google Search," published on January 22, 2021 in *The Journal of General Psychology*; retracted on May 19, 2021. See our coverage here.
- "COVID-19 and potential global mortality Revisited," published on April 30, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "COVID-19 Emergency Responders in FDA's Center for Drug Evaluation and
 Research," published sometime after April 6, 2020 in Journal of the American
 Pharmacists Association, date of retraction unknown.
- 33. "COVID-19 in Africa and collateral effects on health systems and their immunization programs," published on October 9, 2020 in Vaccine; retraction date is unknown.
- 34. "COVID-19 is ageist, sexist, ruthless, dispassionate and opportunistic Protecting our vulnerable," published on October 1, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "COVID-19, its novel vaccination and fake news What a brew," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- 36. "COVID-19 related acute decline in paediatric admissions in Malta, a populationbased study," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "Decrease in Hospitalizations for COVID-19 after Mask Mandates in 1083 U.S. <u>Counties</u>," medizing preprint posted on October 23, 2020 and withdrawn on <u>November 4</u>, 2020.

- "Deep learning system to screen coronavirus disease 2019 pneumonia," published on April 22, 2020 in Applied Intelligence; date of retraction is unknown.
- "Dyslipidemia Increases the Risk of Severe COVID-19: A Systematic Review, Metaanalysis, and Meta-regression." published on February 8, 2021 in Journal of Clinical and Experimental Henotology: retracted on unknown date.
- 40. "Effectiveness of Surgical and Cotton Masks in Blocking SARS-CoV-2: A Controlled Comparison in 4 Patients," published on April 6, 2020 in the Annals of Internal Medicine, retracted on June 1, 2020.
- 41. "Effectiveness of ZYESAMI™ (Aviptadil) in accelerating recovery and shortening hospitalization in critically-ill patients with COVID-19 Respiratory Failure: interim report from a phase 2b3 multicenter trial," published on February 27, 2021 in SSRW, removed without notice on an unknown date.
- "Effects of the COVID-19 Pandemic on Stroke Patients," published on August 24, 2020 in Cureus: retracted on January 13, 2021.
- Emergency Preparedness and COVID-19: A Review of AWWA Policy Statements and Guidance," published on August 4, 2020 in Opflow. <u>Retracted</u> on December 4, 2020.
- "Epidemiological and clinical features of the 2019 novel coronavirus outbreak in China," medRxiv preprint posted on February 11, 2020 and withdrawn February 21, 2020. More context here.
- Experience on radiological examinations and infection prevention for COVID-19 in radiology department, "published on March 31, 2020 in Radiology of Infectious Discover, date of Ferraction is unknown
- "Facemasks in the COVID-19 era: A health hypothesis," published on November 22, 2020 in Medical Hypotheses; retracted on or about May 3, 2021. Our coverage here.
- First viral replication of Covid-19 identified in the peritoneal dialysis fluid." published in Bulletin de la Dialyse à Domicile on April 13, 2020, retracted on April 20, 2020. Our coverage here.
- 48. "Forensic case-work analysis and legal challenges during pandemic: An update from Pakistan," published in *Legal Medicine* in October 2020, retracted at an un-
- "From SARS-CoV to Wuhan 2019-nCoV Outbreak: Similarity of Early Epidemic and Prediction of Future Trends," preprint posted on bioRxiv on January 25, 2020, withdrawn on Famew 28, 2020.
- So. "Holidays over: A review of actual COVID-19 school outbreaks up to September 2020," published on October 1, 2020 in Early Human Development, retracted some time in March, 2021. See our coverage here.
- "Homeopathy combat against coronavirus disease (Covid-19)," published on June
 2020 in the Journal of Public Health and retracted on August 3, 2020. See our

- 52. "Hospital factors associated with SARS-CoV-2 infection among healthcare personnel in Greece," published in *The Journal of Hospital Infection* on October 22, 2020, "Temporary Removal" date not provided. Still showing temporary removal as of December 29, 2020.
- 53. "Hydroxychioroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis," published in *The Lancet* on May 22, 2020, subjected to an expression of concern on June 2, and retracted on June 4.
- Tydroxychloroquine plus azithromycin: a potential interest in reducing inhospital morbidity due to COVID-19 pneumonia (HI-ZY-COVID)?" preprint posted
- on medRxiv, May 11, 2020, withdrawn on May 20, 2020. Our coverage here.

 55. "Incidence and mortality of COVID-19 in Iranian multiple sclerosis patients treated with disease-modifying therapies," published September 15, 2020 in Revue
- Neurologique and retracted on October 8, 2020.

 56. "Impact of lockdown and health anxiety during COVID 19 pandemic among inpatients of a psychiatric hospital: an observational study." published on November
- 10, 2020 in the Asian Journal of Psychiatry; unknown date of retraction.
 57. "Intersectionality and Inequalities in Medical Risk for Severe COVID-19 in the Canadian Longitudinal Study on Aging," published September 24, 2020 in The
- Gerontologist, retracted January 22, 2021.

 58. "Intracranial Hemorrhage in COVID-19 Patients on ECMO: Challenges and Future Directions," published on June 6, 2020 in the Journal of Cardiothoracic and
- Vascular Anesthesia; retraction date is unknown.

 59. "Ivermectin in COVID-19 Related Critical Illness," preprint posted in April 2020 on SSRN: Social Science Resource Network, retracted sometime in May. Reporting
- from *The Scientist* here.

 60. "Liver impairment associated with disease progression in COVID-19 patients," published April 15, 2020 in *Liver International* and retracted in August/September
- 61. "Lung disease severity, Coronary Artery Calcium, Coronary inflammation and Mortality in Coronavirus Disease 2019," medRxiv preprint posted May 6, 2020 and withdrawn June 20, 2020.
- 62. "Lung ultrasound score in establishing the timing of intubation in COVID-19 interstitial pneumonia." A preliminary retrospective observational study," published in PLOS ONE on September 3, 2020; Expression of concern published in PLOS ONE on November 30, 2020; retracted December 31, 2020. Our coverage here.
- "Malta tourism losses due to second wave of COVID-19," published on October 1, 2020 in Early Human Development; retracted sometime in March, 2021.
- 64. "Managing college operations during the coronavirus outbreak," published April 10, 2020 in Journal of the American Pharmacists Association, date of retraction un-

- 91. "Selenium-associated gene signatures within the SARS-CoV-2-host genomic interaction interface," published on July 15, 2020 in Free Radical Biology & Medicine;
- 92. "Sharp decline in acute and elective hospital attendances and admissions due to COVID-19 in Malta (Q1 2020) A population-based study," published on November 12, 2020 in Early Human Development, retracted sometime in March, 2021. See our
- "Smoking Prevalence is Low in Symptomatic Patients Admitted for COVID-19." medRxiv preprint posted May 10, 2020 and withdrawn June 13, 2020.
- 94. "Some health effects of global warming." published on October 1, 2020 in Early
 Human Development; retracted sometime in March, 2021. See our coverage here.
- "Sports and sportsmen as role models or otherwise in the COVID-19 era," published on November 12, 2020 in Early Human Development; retracted sometime in March. 2021. See our coverage here.
- 96. "Subsegmental Thrombus in COVID-19 Pneumonia: Immuno-Thrombosis or Pulmonary Embolism? Data Analysis of Hospitalized Patients with Coronavirus Disease," published on August 24, 2020 in *Heart, Lung and Circulation*; retraction
- "The early cryptic transmission and evolution of SARS-CoV-2 in human hosts," preprint posted on November 17, 2020 in SSRN: Social Science Resource Network, withdrawn at an unknown date. Coverage in the media here.
- 88. "The Role of Vitamin D in Suppressing Cytokine Storm in COVID-19 Patients and

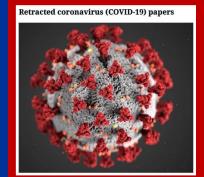
 Associated Mortality," preprint posted on April 10, 2020 in medRxh; withdrawn on

 April 15, 2020.
- "Theoretical novel COVID-19 vaccination risk of rare and severe adverse events
 versus COVID-19 mortality." published on October 1, 2020 in Early Human
 Development: retracted sometime in March, 2021. See our coverage here.
- "The way in which COVID-19 changed behaviour on social media in Malta," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- 101. "The Spanish Flu, COVID-19 and Malta's reactions: Contrasts and similarities," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
 102. "To wear or not to wear? Adherence to face mask use during the COVID-19 and
- Spanish Influenza pandemics, "published on November 12, 2020 in Early Human Development: retracted sometime in March, 2021. See our coverage here. 03. "Treatment Besponse to Hydroxychloroquine, Lopinavir/Rilonavir, and Antibiotics for Moderate COVID 19: A First Report on the Pharmacological Outcomes from South Kores' preprint posted May 18, 2020 in medicity, and with-

- 104. "Uncanny similarity of unique inserts in the 2019-nCoV spike protein to HIV-1 <u>gp120 and Gag</u>," preprint posted January 31, 2020 in bioRxiv and withdrawn February 2, 2020. More context <u>here</u>. 105. "Usefulness of Ivermectin in COVID-19 Illness," preprint posted on April 19, 2020
- on SSRN: Social Science Resource Network, retracted sometime thereafter.

 106. "Vaccine hesitancy among Maltese Healthcare workers toward influenza and novel COVID-19 vaccination." published on October 1, 2020 in Early Human
- Development; retracted on sometime in March, 2021. See our coverage here.

 107. "Vaccine hesitancy in Maltese family physicians and their trainees vis-à-vis in-fluenza and novel COVID-19 vaccination," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage
- 108. "Vaccine hesitancy in the University of Malta Faculties of Health Sciences, Dentistry and Medicine vis-4-vis influenza and novel COVID-19 vaccination," published on November 12, 2020 in Early Human Development; retracted sometime in March, 2021. See our coverage here.
- "Vitamin D Level of Mild and Severe Elderly Cases of COVID-19: A Preliminary Report," preprint posted on May 5, 2020 in SSRN: Social Science Resource Network unknown date of retraction.
- 110. "Vitamin D supplementation could possibly improve clinical outcomes of patients infected with Coronavirus-2019 (COVID2019)," preprint posted on April 9, 2020 in SSRN: Social Science Resource Network; unknown date of retraction.



Total of 264!!

Journal/Editor Responsibilities

Is the Lancet complicit in research fraud?

This blog was written jointly by Patricia Murray, Professor of Stem Cell Biology and Regenerative Medicine, University of Liverpool, UK and Peter Wilmshurst.

The editor of a medical journal that charges readers for access to articles whilst knowingly keeping fraudulent articles on its website is as guilty of financial fraud as an art dealer who knowingly sells forged artworks, but there is no moral equivalence. The complicity in fraud by the editor of the medical journal may also cause death and harm to patients.

Identical samples in Fig.4 of Gonfiotti et al (2014) and Fig 3K of Badylak et al (2012) Fig. 3K in Badylak et al (2012). Laminii staining at 1 year after transplantation. after transplantation. Immunostaining of airway immunoreactivity against anti-laminin. Rotate 90° left

If the inset in Fig. 4 of Gonfiotti et al (2014) (outlined in red) is rotated 90° to the left, it is clear that it is identical to Fig. 3K in Badylak et al (2012). It appears that the colour has been modified in the 2014 paper to increase the levels of red/cyan, but the sample itself is

PubPeer

The **PubPeer** Foundation is a California-registered public-benefit corporation with nonprofit status in the US. The overarching goal --- is to improve the quality of scientific research by enabling innovative approaches for community interaction---pubpeer.com is a service run for the benefit of its readers and commenters, who create its content. Our current focus is maintaining and developing the **PubPeer** online platform for post-publication peer review.

Gamma-tocotrienol promotes TRAIL-induced apoptosis through reactive oxygen species/extracellular signal-regulated kinase/p53-mediated upregulation of death receptors

Molecular Cancer Therapeutics (2010) - 12 Comments

pubmed: 20682650 doi: 10.1158/1535-7163.mct-10-0277 issn: 1538-8514 issn: 1535-7163

Ramaswamy Kannappan, Jayaraj Ravindran, Sahdeo Prasad, Bokyung Sung, Vivek R. Yadav, Simone Reuter, Madan M. Chaturvedi, Bharat B. Aggarwal

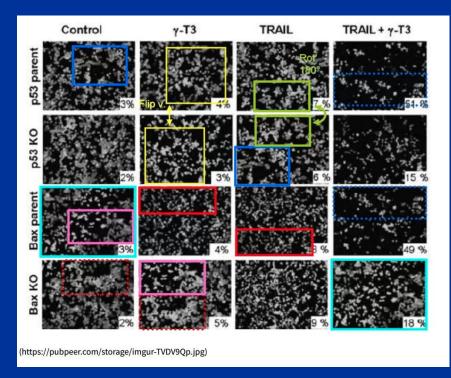
#1 Paul S Brookes commented 6 years ago

Seeing this beautiful example of "creative image management" highlighted on Twitter (actually had over 100 retweets at last count)....

https://pubpeer.com/publications/B0EE98F42E52EE4F8B130E20059699

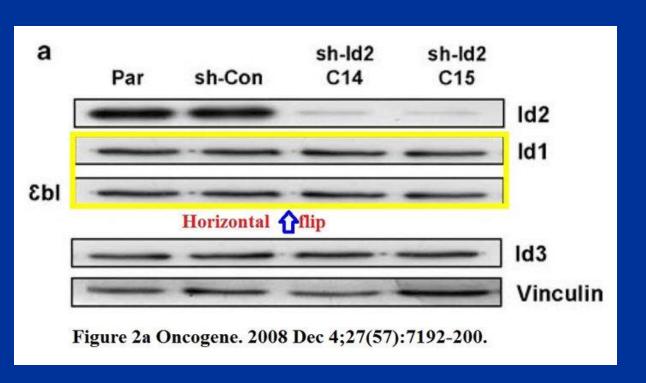
(https://pubpeer.com/publications/B0EE98F42E52EE4F8B130E20059699)

... reminded me of this one that's been sitting in the archives for a few years. It's really one of my favorite examples of the art. Should be in all the textbooks.



Not everything on PubPeer is fraud. Mistakes can be made, and corrected. Read the comments and decide for yourself.

Not Everyone on PubPeer is Evil



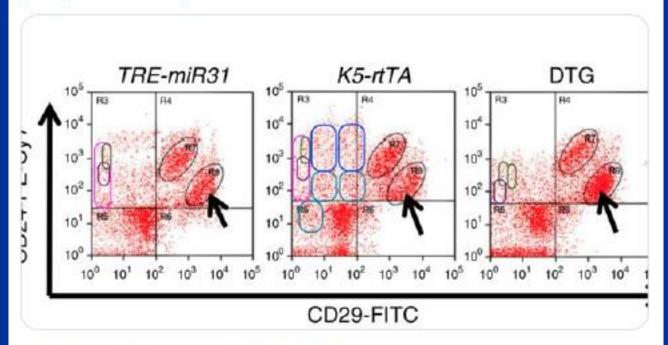
"Following the publication of this Article, it was brought to the attention of the Authors that a control for shRNA knock-down of Id2 in Fig. 2 was a duplicated and reversed set of bands from another control in the Figure. The row of bands on the western blot for Id3 is the same blot for Id1 knock-down, but "flipped" horizontally. This does not change the conclusions of the manuscript. The authors have submitted a revised Fig. 2, omitting this band, as they no longer have access to the reagents and cannot repeat this part of the experiment."

Gray.....Ellis



Oh dear. @NatureComms making #BadEditorialDecision here by issuing a correction. "The original version of this Article contained an error in Fig. 4. In the original Fig. 4a, different quadrants [...] contained similar unexplained groups of data points."

pubpeer.com/publications/3...



RESEARCH ARTICLE

Do individual and institutional predictors of misconduct vary by country? Results of a matched-control analysis of problematic image duplications

Daniele Fanellio¹*, Matteo Schleicher¹, Ferric C. Fang², Arturo Casadevall³, Elisabeth M. Bik⁴

- 1 Department of Methodology, London School of Economics and Political Science, London, United Kingdom, 2 Department of Laboratory Medicine and Pathology, University of Washington School of Medicine, Seattle, Washington, United States of America, 3 Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States of America, 4 Harbers Bik LLC,
- * email@danielefanelli.com

Sunnyvale, CA, United States of America

PLOS 2022

Abstract

Pressures to publish, perverse incentives, financial interest and gender are amongst the most commonly discussed risk factors for scientific misconduct. However, evidence of their association with actual data fabrication and falsification is inconclusive. A recent case-controlled analysis of articles containing problematic image duplications suggested that country of affiliation of first and last authors is a significant predictor of scientific misconduct. The same analysis found null or negative associations with individual proxies of publication rate, impact and gender. The latter findings, in line with previous evidence, failed to support common hypotheses about the prevalence and causes of misconduct, but country-level effects may have confounded these results. Here we extend and complete previous results by comparing, via matched-controls analysis, articles from authors in the same country. We found that evidence for individual-level risk factors may be significant in some countries, and null or opposite in others. In particular, in countries where publications are rewarded with cash incentives, and especially China, the risk of problematic image duplication was higher for more productive, more frequently cited, earlier-career researchers working in lower-ranking institutions, in accordance with a "misaligned incentives" explanation for scientific misconduct. However, a null or opposite pattern was observed in all other countries, and especially the USA, UK and Canada, countries where concems for misaligned incentives are commonly expressed. In line with previous results, we failed to observe a statistically significant association with industry funding and with gender. This is the first direct evidence of a link between publication performance and risk of misconduct and between university ranking and risk of misconduct. Commonly hypothesised individual risk factors for scientific misconduct, including career status and productivity, might be relevant in countries where cashreward policies generate perverse incentives. In most scientifically active countries, however, where other incentives systems are in place, these patterns are not observed, and



Scientific misconduct is more common in countries that reward authors with cash incentives.

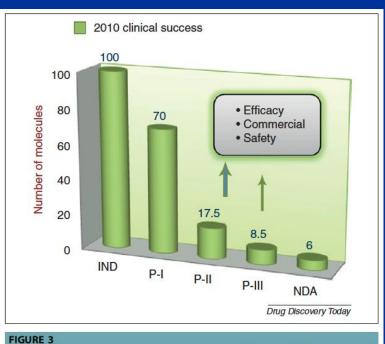
Peer Review History: PLOS recognizes the benefits of transparency in the peer review process; therefore, we enable the publication of all of the content of peer review and author responses alongside final, published articles. The editorial history of this article is available here: https://doi.org/10.1371/journal.pone.0255334

In Summary, Your Best, Most Concise, and Timely Resources on Data Integrity and Interesting Stories are.... Retraction Watch and PubPeer

- Retraction Watch
 - Editors comment on retracted papers
- PubPeer
 - Peers comment on papers (sometimes names disclosed, sometime not)
 - Up to you to determine validity of "concerns"

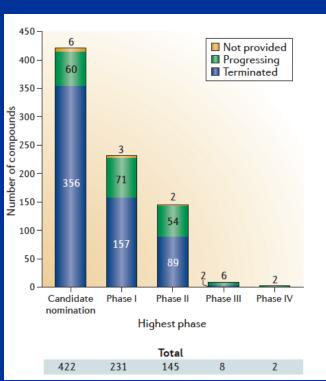
Note: The US Office of Research Integrity has very limited and focused information limited to those found guilty of misconduct

Drug Development Failure Rates are Too High! (duh)



Productivity trend during 2009 and 2010. The clinical rate of success is depicted as percentage surviving at each clinical phase based on attrition observed during 2009 and 2010.

Khanna, Drug Disc Today, 2012

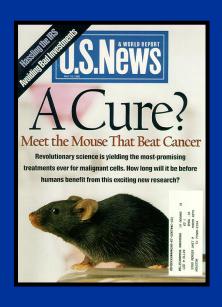


Waring, Nat Rev Drug Disc, 2015

-On average, it costs over a billion dollars to take a drug through Phase III, and the time to do this is 13-15 yrs. -To improve upon this dismal ~5% success rate, we must have more confidence in data from very early in the drug development process*

* A more recent publication listed this at ~3.5% for cancer

Why Haven't We Made Greater Strides in Treating Patients With Metastatic Disease?





- Perhaps the data leading to clinical trials are not as sound as they should be
 - What is the cause of this?



Bob Radinsky, PhD MDACC (1989-2000) → Amgen (2000)

"Lee, do you realize that most of what's published in academia cannot be reproduced?"

"Glenn Begley has been prospectively collecting this data from studies done at Amgen"

Glenn's results: Only 6 of 53 (11%) studies could be reproduced



Reports on Issues With Data Reproducibility



Re-tested 70+ drugs from 221 independent studies¹

- → 0 reproduced
- → Minocycline: effective in four separate ALS mouse studies worsened symptoms in a clinical trial of more than 400 patients²



Sponsored replication of 12 spinal cord injury studies

→ 2/12 successfully reproduced³



Conducted in-house target validation studies

→ 14/67 reproduced⁴

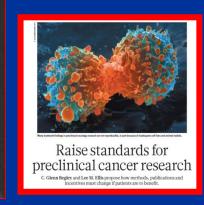


Attempted to reproduce 53 "landmark" oncology publications

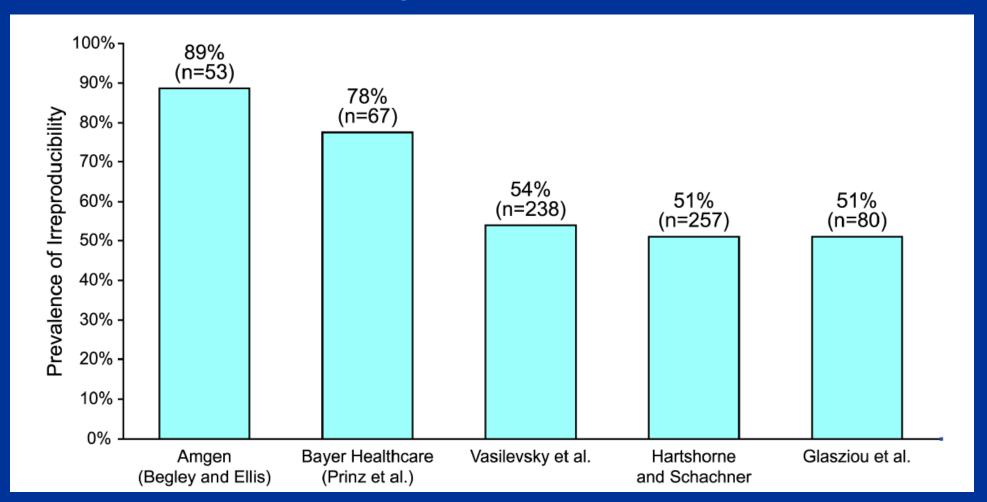
→ 6/53 reproduced⁵

- 1. Scott et al. Amyotroph Lateral Scler. 9, 4-15 (2008).
- 2. Gordon et al. Lancet Neurol. 6, 1045-1053 (2007).
- 3. Stuart et al. Experimental Neurology 233, 597-605 (2012).

- Prinz et al. Nat Rev Drug Discov. 10, 712 (2011).
- 5. Begley and Ellis. Nature. 483, 531-3 (2012).



The Prevalence of the Lack of Reproducibility in *Recently* Published Studies



Is Amgen's Data on Data Reproducibility, Reproducible?

Errington et al. eLife 2021;

REPRODUCIBILITY IN CANCER BIOLOGY

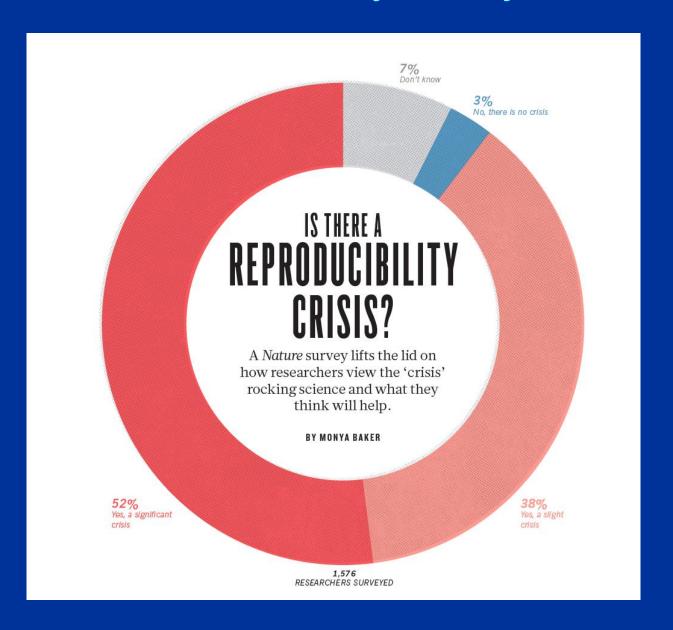
Challenges for assessing replicability in preclinical cancer biology

50/193 = 26% reproducibility rate

Abstract We conducted the Reproducibility Project: Cancer Biology to investigate the replicability of preclinical research in cancer biology. The initial aim of the project was to repeat 193 experiments from 53 high-impact papers, using an approach in which the experimental protocols and plans for data analysis had to be peer reviewed and accepted for publication before experimental work could begin. However, the various barriers and challenges we encountered while designing and conducting the experiments meant that we were only able to repeat 50 experiments from 23 papers. Here we report these barriers and challenges. First, many original papers failed to report key descriptive and inferential statistics: the data needed to compute effect sizes and conduct power analyses was publicly accessible for just 4 of 193 experiments. Moreover, despite contacting the authors of the original papers, we were unable to obtain these data for 68% of the experiments. Second, none of the 193 experiments were described in sufficient detail in the original paper to enable us to design protocols to repeat the experiments, so we had to seek clarifications from the original authors. While authors were extremely or very helpful for 41% of experiments, they were minimally helpful for 9% of experiments, and not at all helpful (or did not respond to us) for 32% of experiments. Third, once experimental work started, 67% of the peer-reviewed protocols required modifications to complete the research and just 41% of those modifications could be implemented. Cumulatively, these three factors limited the number of experiments that could be repeated. This experience draws attention to a basic and fundamental concern about replication – it is hard to assess whether reported findings are credible.

TIMOTHY M ERRINGTON*, ALEXANDRIA DENIS[†], NICOLE PERFITO[‡], ELIZABETH IORNS AND BRIAN A NOSEK

Nature Survey, May 2016



The Spectrum of Reporting Preclinical and Clinical Data

Not all non-reproducible events are due to evil people

Honest Sloppy Selective Reporting Falsification Fabrication

What are the consequences?

- Clinical trials that are bound to fail
- Wasted time and effort of investigators and trainees
- A waste of money to try build on studies that are not sound
- Loss of confidence from our community

The Spectrum of Reporting Preclinical and Clinical Data

Honest Sloppy Selective Reporting Falsification Fabrication

- Inappropriate Stats
- Cell line contamination/drift
- Journals don't like negative data
 - Therefore, PIs don't like negative data

Selective Reporting of Laboratory Studies

- Journals prioritize "positive" results
 - If a drug works in 2 cell lines, and does not in 8, we only see the results on the 2 cell lines
- Students, post-docs, <u>and</u> faculty need publications for advancement
 - "Publish or perish"
 - In many labs, 2 trainees work on the same project competing with each other...guess who wins?
- Therefore, we tend to report only the "positive" data and ignore the negative data

CAREER COLUMN • 04 OCTOBER 2019

Highlight negative results to improve science

Publishers, reviewers and other members of the scientific community must fight science's preference for positive results — for the benefit of all, says Devang Mehta.

The pressure to publish a positive story can also lead scientists to spin their results in a better light, and, in extreme instances, to commit fraud and manipulate data. In fields such as biotechnology and genomics, social scientists have already pointed out that hyping up the science could foster unrealistic expectations in an already sceptical public, counter-intuitively leading to greater distrust when real-world advances come at a slower pace.

We need reviewers and publishers to commit to publishing negative results in their journals. We need academic conferences to embrace honest discussions of failed experiments. We need funding agencies to support scientists who produce/report *negative results*. And, as scientists, we must acknowledge that all reliable studies should be reported (and accessible), irrespective of its outcome.

The Spectrum of Reporting Preclinical and Clinical Data The more difficult issue to address

Honest Sloppy Selective Reporting

Falsification Fabrication

Let's Talk About "Misconduct"

Do Investigators Intentionally Falsify or Fabricate Data?

To: Ellis,Lee M

Dear Sir,

I read your article titled "Raise standards for preclinical cancer research" published in Nature. I felt so happy to learn that the scientific community has been realizing a fact that people in cancer research field have been publishing fraud/non-reproducible data.

I lost my father, 2 of my uncles, aunt and two sister-in-laws because of cancer. Above bitter experiences made me to dedicate my life in finding solution to cancer. With a well-defined career goal of finding treatment to cancer, I entered into cancer research. After completion of Ph.D. from a Nobel Laureate group in Germany, I went to US to work on cancer. As a postdoc in the US, I had to change 7 research labs in 7 years due to the following reason:

PI's wanted me to produce falsified data and I refused to do so. Many PIs fired me as soon as they realized that I don't do wrong things. To cover them up, they sabotaged my professional life as well personal character.

Situation in cancer research field is so bad that nearly 90% of scientists in cancer research field, especially in the US, have been publishing fraud data.

- 1) Publish fraud data
- 2) Meet all legal requirements to get grants from funding agencies
- 3) Lobby with the members of funding agency study sections by offering donations, effortless favor and get grants
- 4) Bargain high salaries with institutions where they are working using funding as bait

Does Misconduct Occur in the Clinic? Dr. Baggerly will "wow" you with his talk on this!!

The Anil Potti retraction record so far

Tracking retractions as

with 16 comments

A <u>60 Minutes segment Sunday on Anil Potti</u> has drawn national attention to the case, so we thought this would be a good time to compile all of the retractions and corrections in one place.

Duke has <u>said</u> that about a third of Potti's 40-some-odd papers would be retracted, and another third would have "a portion retracted with other components remaining intact," so this list will continue to grow. We'll update it as we hear about new changes.

Retractions:

- "Gene-expression patterns predict phenotypes of immune-mediated thrombosis," in Blood
- "Upregulated Oncogenic Pathways in Patients Exposed to Tobacco Smoke May Provide a Novel Approach to Lung Cancer Chemoprevention," in CHEST
- "Characterizing the Clinical Relevance of an Embryonic Stem Cell Phenotype in Lung Adenocarcinoma," in Clinical Cancer Research
- "An Integrated Genomic-Based Approach to Individualized Treatment of Patients With Advanced-Stage <u>Ovarian Cancer</u>" in the *Journal of Clinical Oncology* (JCO)
- 5. "Pharmacogenomic Strategies Provide a Rational Approach to the Treatment of Cisplatin-Resistant Patients With Advanced Cancer" also in the JCO
- 6. "Gene Expression Signatures, Clinicopathological Features, and Individualized Therapy in Breast Cancer" in the Journal of the American Medical Association (JAMA)
- 7. "Validation of gene signatures that predict the response of breast cancer to neoadjuvant chemotherapy: a substudy of the EORTC 10994/BIG 00-01 clinical trial," in *The Lancet Oncology*
- 8. "Genomic signatures to guide the use of chemotherapeutics," in Nature Medicine
- 9. "A Genomic Strategy to Refine Prognosis in Early-Stage Non-Small-Cell Lung Cancer," in the New England Journal of Medicine (NEJM)
- "An Integrated Approach to the Prediction of Chemotherapeutic Response in Patients with Breast Cancer" in PLoS ONE
- 11. "A genomic approach to colon cancer risk stratification yields biologic insights into therapeutic opportunities" in the *Proceedings of the National Academy of Sciences* (PNAS)



Dr. Anil Potti is an oncologist in Grand Forks, North

Dakota. He is a Board Certified Medical Oncologist and Clinician and takes special interest in serving patients with blood and cancer problems. An alumnus of the University of North Dakota, he has received numerous awards like the Alpha Omega Alpha (AOA) Award, Resident of the Year Award and several Outstanding Teacher of the Year Awards. Presently, Dr. Potti looks forward to dedicating his efforts to helping cancer patients and their families in this region. As he says, "sure, the weather may be cold, but the people sure are warm."

Ivan Oransky
RetractionWatch.com

Famous Fraudulent Papers The Impacted Patient's Lives!

- Breast cancer and bone marrow transplants
 - Bezwoda et al. 1999 ASCO Annual Meeting
- Autism and vaccines
 - Wakefield et al. 1998 The Lancet
- Stem cells and tracheal transplants
 - Macchiarini et al. Karolinska, The Lancet

Vaccines and Autism Wakefield, et al. Lancet 1998

- •Wakefield did not conduct the study according to ethical standards for research.
- •Wakefield lied in the *Lancet* paper when he wrote that the participating children were referred independently after being diagnosed with IBD or other major GI issues. In fact, many of the children were chosen specifically by Wakefield, and others were recruited with the help of the same lawyer who was paying him to conduct the study.
- •Wakefield subjected vulnerable autistic and other developmentally challenged children to a variety of difficult GI tests, including colonoscopy and lumbar puncture (i.e., spinal tap), without any medical indication to benefit the children.
- •Even before publication of the study, Wakefield was working on patenting his own version of a measles vaccine, which he would sell at a great profit as a supposedly "safe" alternative to the MMR vaccine. The father of one of the children in Wakefield's study was a cofounder of the planned business that would market this product.
- •Unrelated to the particular paper in question, the GMC panel also found that Wakefield had paid children at his own son's birthday party £5 each so he could draw their blood for use in his research. He later joked about this during a lecture.

 https://badgut.org/information-centre/a-z-digestive-

topics/andrew-wakefield-vaccine-myth/

And more including financial conflict of interest

No Institute Is Immune!

Journal retracts 7 papers by MD Anderson cancer researcher long under investigation

An MD Anderson Cancer Center researcher who has been under investigation by the institution for at least several years has had seven papers retracted from a single journal. Bharat Aggarwal told us in 2012 that MD Anderson was investigating his work, but in 2013 threatened to sue us for reporting on the case. Aggarwal is ... Continue reading \rightarrow

MD Anderson postdoc faked results of Novartis anti-cancer compound study

A former postdoc at MD Anderson Cancer Center faked the results of a mouse study of a Novartis compound designed to fight brain tumors, according to the Office of Research Integrity (ORI). Jun Fu "admitted to knowingly and intentionally falsifying Figure 8a" in "Novel HSP90 Inhibitor NVP-HSP990 Targets Cell-Cycle Regulators to Ablate Olig2-Positive Glioma Tumor–Initiating ... Continue

A cancer researcher said she collected blood from 98 people. It was all her own.

A researcher collected her own blood and forged the labels so it would appear to be samples from nearly 100 people, according to a new finding of research misconduct released today by the U.S. Office of Research Integrity (ORI). The former researcher at the University of Texas MD Anderson Cancer Center swapped her own blood ... Continue reading \rightarrow

Data fabrication by ex-Harvard researcher takes down paper on Huntington's disease

Harvard teaching hospital to pay \$10 million to settle research misconduct allegations

Brigham and Women's Hospital and its parent healthcare network have agreed to pay \$10 million to the U.S. government to resolve allegations it fraudulently obtained federal funding. The case, which involves three former Harvard stem cell researchers, dates back several years. In 2014, Circulation retracted a paper by Piero Anversa, Annarosa Leri, and Jan Kajstura, ... Continue reading →

Two more retractions appear for prominent MIT cancer researcher Robert Weinberg

with 8 comments

As PIs, we have to keep track of data in real time, not just when ready for submission to CNS.

Two identical retraction notices have popped up for MIT professor Robert Weinberg, a highly-cited cancer researcher who had a retraction and a correction in 2013, both in Cancer Cell.

These two new retractions, in *Genes and Development*, stem directly from <u>another paper by Weinberg and colleagues in *Cell* that will apparently be retracted, as the "same analytical methodology was used," according to the notices [see bottom of the post for an update].</u>

MD Anderson noted in 87 instances in search of Retraction Watch Database 10/16/22

Retraction Watch search

The Retraction Watch Leaderboard

Who has the most retractions? Here's our unofficial list (see notes on methodology), which we'll update as more information comes to light:

- Yoshitaka Fujii (total retractions: 183) See also: <u>Final report of investigating committee</u>, <u>our reporting</u>, <u>additional coverage</u>
- 2. Joachim Boldt (164) See also: Editors-in-chief statement, our coverage
- 3. Hironobu Ueshima (121) See also: our coverage
- 4. Yoshihiro Sato (110) See also: our coverage
- 5. Ali Nazari (96) See also: our coverage
- 6. Jun Iwamoto (85) See also: our coverage
- 7. Diederik Stapel (58) See also: our coverage
- 8. Yuhji Saitoh (56) See also: our coverage
- 9. Adrian Maxim (48) See also: our coverage
- Chen-Yuan (Peter) Chen (43) See also: SAGE, our coverage
- 11. Shahaboddin Shamshirband (42) See also: our coverage
- 12. Fazlul Sarkar (41) See also: our coverage
- 13. Hua Zhong (41) See also: journal notice
- 14. Shigeaki Kato (40) See also: our coverage
- 15. James Hunton (37) See also: our coverage
- Hyung-In Moon (35) See also: our coverage
- Antonio Orlandi (34) See also: <u>our coverage</u>
- 18. <u>Dimitris Liakopoulos</u> (33) (NB: We're counting a book he co-authored as a single retraction. The book has 13 retracted chapters with DOIs that are not included in this figure.) See also: our coverage
- 19. Amelec Viloria aka Jesus Silva (33) See also: our coverage
- 20. Jose L Calvo-Guirado (32) See also: our coverage
- 21. Jan Hendrik Schön (32) See also: our coverage
- 22. Naoki Mori (31) See also: our coverage
- 23. Bharat Aggarwal (30) See also: our coverage
- 24. Soon-Gi Shin (30) See also: our coverage
- 25. Victor Grech (29) See also: our coverage
- 26. Tao Liu (29) See also: our coverage
- 27. Cheng-Wu Chen (28) See also: our coverage
- 28. A Salar Elahi (27) See also: our coverage
- 29. Prashant K Sharma (27) See also: our coverage
- 30. Richard L E Barnett (26) See also: our coverage

We note that all of the top 30 are men, which agrees with the general findings of a 2013 paper suggesting that men are more likely to have papers retracted for fraud.

An IRB Approved Survey Conducted at The MD Anderson Cancer Center

OPEN & ACCESS Freely available online



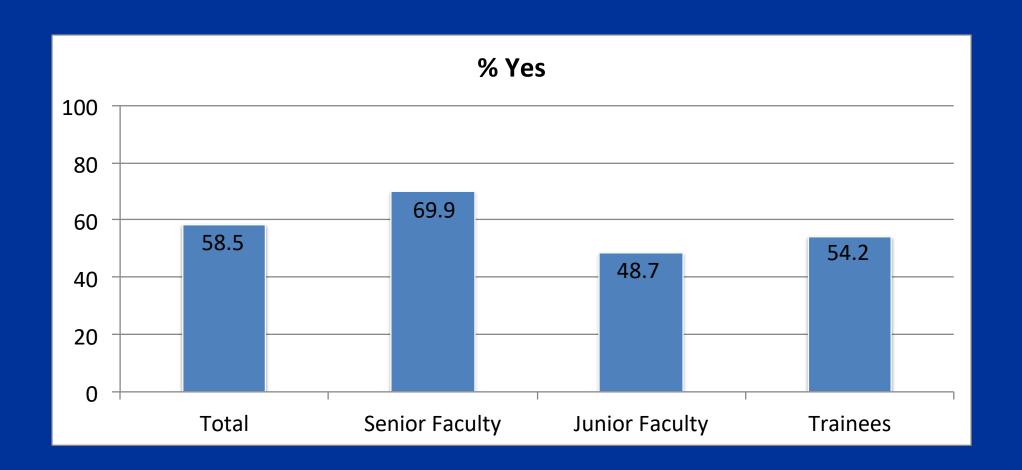
A Survey on Data Reproducibility in Cancer Research Provides Insights into Our Limited Ability to Translate Findings from the Laboratory to the Clinic

Aaron Mobley¹, Suzanne K. Linder², Russell Braeuer¹, Lee M. Ellis^{1,3}*, Leonard Zwelling⁴*

240 responses in 6 hrs 311 responses after 3 days

IRB Approved Protocol
PI: Len Zwelling, MD
Co-PI: Lee Ellis

Have You Ever Tried To Reproduce A Finding From A Published Paper And Not Been Able To Do So?



Driving Forces for Irreproducible Data

(>90 respondents-Trainees Only)

- Were you ever pressured to publish findings of which you had doubt?
 - **22%**
- Have you noted pressure from a mentor to prove that his/her hypothesis was correct, even though the data you generated may not support the hypothesis?
 - **31%**
- Are you aware of mentors who require a high impact publication before a trainee can leave the lab?
 - **49%**

Selected Comments From the Survey

- crumbling of integrity and value bean counters judging science by journal names institutional failure on dealing with alleged fraud.
- Everything here in US is screwed up. There is nothing to do other than move out.
 Who publishes more deserve respect, while others who are honest and cast
 doubt about their own results (or third party results) as condenmed. There is no way
 out. It is either join the "bright team" or be labeled as incompetent.
- ... my previous mentor and also our current neighbor lab PI push too much to produce best data all the time. .. sometimes it make trainee consider manipulates data only to escape from stress. Especially, many international trainees (postdoc) also have VISA issue. Thus, PI starts push them with visa issue trainees feel a lot of stress and eventually it make them can do whatever PI WANT.
- From my experience, no one will help you if you stand up for what is right.The system is unfortunately broken
- Pressure isfrom the job market and funding dynamics. The impact factor insanity is destroying science. A small group of powerful editors and friends control everything.

A Survey on Data Reproducibility and the Effect of Publication Process on the Ethical Reporting of Laboratory Research

Delphine R. Boulbes¹, Tracy Costello², Keith Baggerly³, Fan Fan¹, Rui Wang¹, Rajat Bhattacharya¹, Xiangcang Ye¹, and Lee M. Ellis^{1,4}

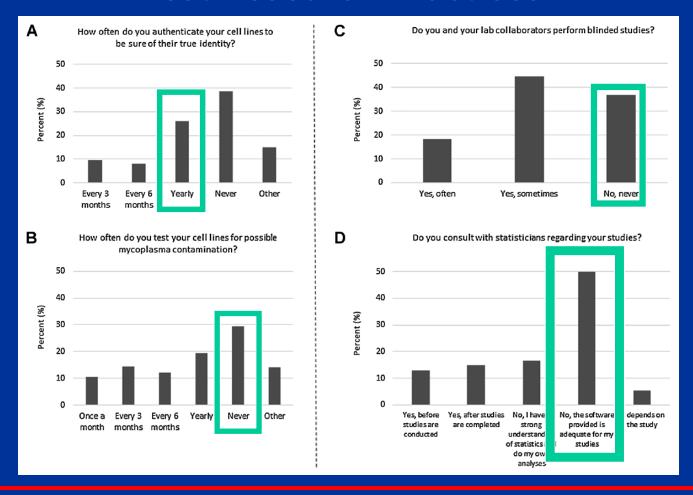
Clin Cancer Res; 2018

Population Characteristics (n=467)

Students 10.7% Postdocs 89.3%

Cancer Biology 60.6%

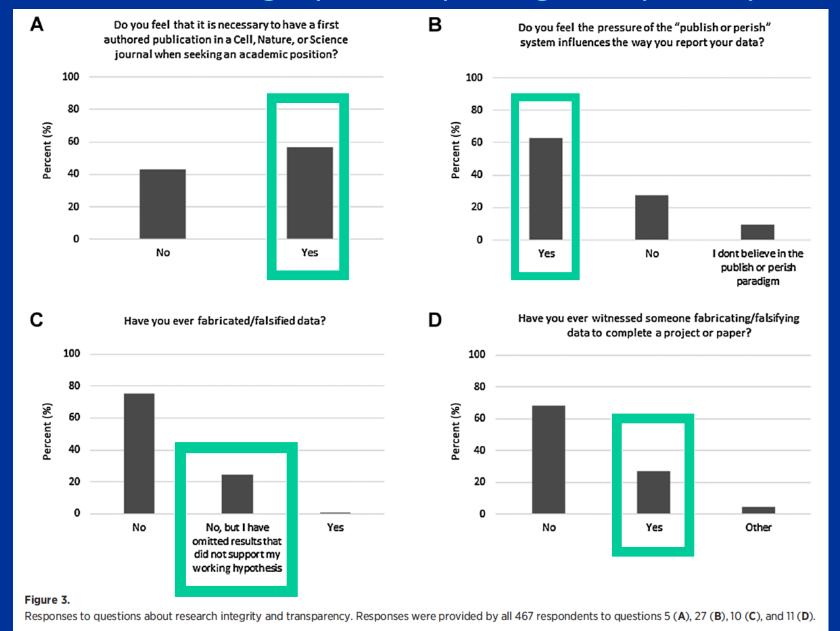
Best Research Practices



Take home points

- < 50% of investigators verify cell lines at least every year
- Just over half test for mycoplasma yearly
- < 20% of investigators perform blinded studies as a routine
- < 50% consult with a statistician</p>

Research Integrity and Reporting Transparency



The Publication Process

- For 35% of participants, the revision process was >12 months for a high impact journal
- The cost of revision was >25K (40%) and >100K in 10%
- In 25% of those surveyed, the manuscript did not improve significantly after revision

(in their opinion)

Comment in Pubpeer

The findings of this paper are not particularly surprising. But I thought the conclusions and discussion was solidly grounded in the evidence they found. Your supervisor can tell you all they like that your career advancement doesn't depend on your results as long as you do good work, but then you see the big weightings on publication record in your fellowship application and you know what the real deal is. Unfortunately as sensible as the conclusions are, I see the likelihood of their implementation any time soon as likely as my negative results getting into Nature.

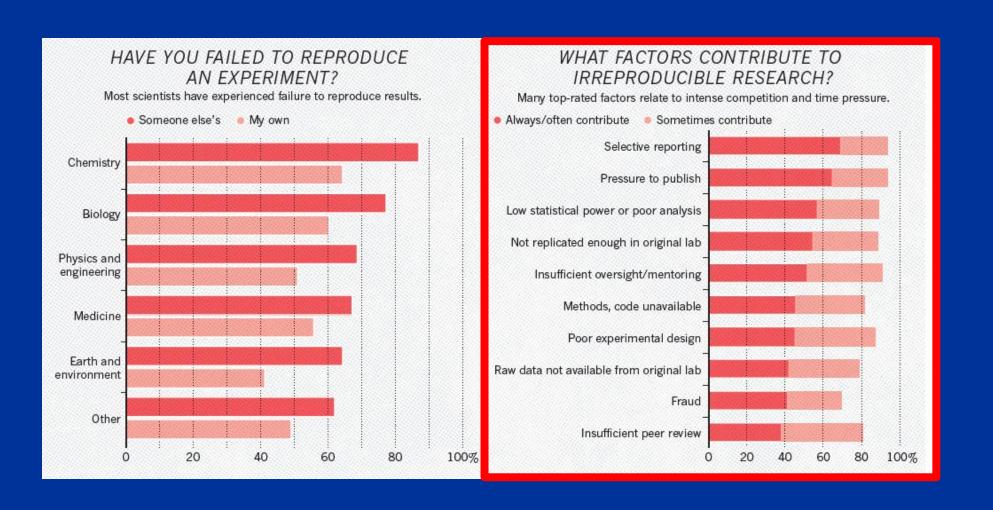
The Erosion of Research Integrity: The Need For a Culture Change

- Integrity of laboratory research and how this impacts clinical outcomes
 - The issue at hand
 - The spectrum
 - Why does this occur?
 - What can we do to fix this?

Causes of "Massaging" of Data

Trainees	Faculty
Occurs when trainees have a strong mentor - trainees do not want to challenge the hypothesis of the mentor - sometimes this is cultural - it is hard to challenge a mentor in the US when English is a 2nd language	"Publish or Perish" has morphed into only getting recognition for pubs in CNS (Cell, Nature, Science) – -Promotion and tenure for young faculty -Endowed Chairs for established investigators
Need high impact publications to obtain a job (or many pubs)	Grants: Preliminary data (Biosketch) for subsequent grants – some institutes require faculty to bring in 90-100% of salary off of grants
Cannot leave that lab as a post-doc, or cannot complete thesis as a student, unless you have a high impact publication	Stature and gratification (human nature)
	Financial gain: Patents and sublicensing

Nature Survey, May 2016



Let's Talk About High Impact Publications and "Impact Factor Mania"

And what this does to our culture!

Quote to a Post-Doc From a Successful Physician Scientist

"You are nothing unless you publish in CNS!"

Causes for the Persistence of Impact Factor Mania

mBio 2014

Arturo Casadevall, Ferric C. Fangb

Departments of Microbiology & Immunology and Medicine, Albert Einstein College of Medicine, Bronx, New York, USA^a; Departments of Laboratory Medicine and Microbiology, University of Washington School of Medicine, Seattle, Washington, USA^b

"...associating the value of research with the journal where the work was published rather than the content of the work itself. The mania is causing profound distortions in the way science is done that are deleterious to the overall scientific enterprise."

distortions in the way science is done that are deleterious to the overall scientific enterprise. In this essay, we consider the forces responsible for the persistence of the mania and conclude that it is maintained because it disproportionately benefits elements of the scientific enterprise, including certain well-established scientists, journals, and administrative interests. Our essay suggests steps that can be taken to deal with this debilitating and destructive epidemic.

Should we eliminate the Impact Factor?

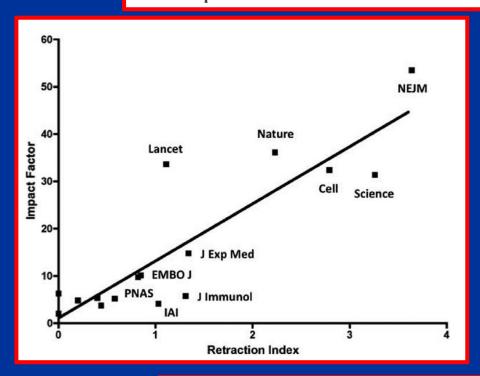
Nathan S. Blow, Ph.D., Editor-in-Chief, BioTechniques

EDITORIAL

Fang and Casadevall Infection and Immunity, 2011

Retracted Science and the Retraction Index

Articles may be retracted when their findings are no longer considered trustworthy due to scientific misconduct or error, they plagiarize previously published work, or they are found to violate ethical guidelines. Using a novel measure that we call the "retraction index," we found that the frequency of retraction varies among journals and shows a strong correlation with the journal impact factor. Although retractions are relatively rare, the retraction process is essential for correcting the literature and maintaining trust in the scientific process.



The higher the impact factor, the higher the retraction index (also in the New York Times)

"A man who has committed a mistake, and doesn't correct it, is committing another mistake."

—attributed to Confucius

Misconduct accounts for the majority of retracted scientific publications PNAS, 2012

Ferric C. Fang a,b,1 , R. Grant Steen c,1 , and Arturo Casadevall d,1,2

Departments of ^aLaboratory Medicine and ^bMicrobiology, University of Washington School of Medicine, Seattle, WA 98195; ^cMediCC! Medical Communications Consultants, Chapel Hill, NC 27517; and ^dDepartment of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461

Edited by Thomas Shenk, Princeton University, Princeton, NJ, and approved September 6, 2012 (received for review July 18, 2012)

Nobel winner declares boycott of top science journals

Randy Schekman says his lab will no longer send papers to Nature, Cell and Science as they distort scientific process

How journals like Nature, Cell and Science are damaging science

Monday 9 December 2013 14.42 EST

Leading academic journals are distorting the scientific process and represent a "tyranny" that must be broken, according to a Nobel prize winner who has declared a boycott on the publications.

Schekman criticises Nature, Cell and Science for artificially restricting the number of papers they accept, a policy he says stokes demand "like fashion designers who create limited-edition handbags." He also attacks a widespread metric called an "impact factor", used by many top-tier journals in their marketing.

Final, Final Comment on Impact Factor Mania

Strive for Nature
But Don't Lie or Die for Nature

(or compromise your ethics)

The Erosion of Research Integrity: The Need For a Culture Change

- Integrity of laboratory research and how this impacts clinical outcomes
 - The issue at hand
 - The spectrum
 - Why does this occur?
 - What can we do to fix this?

Overall, We Need to Be Kinder as Reviewers, Mentors, and Editors

- Research can be challenging when we are seeking significant gains in knowledge!
 - And sometimes, the unexpected findings may be the most interesting findings!
- We should not torture our trainees to the point where they "massage" data in order to satisfy the PI, have a paper published in a high impact journal, or both!
- Pls need to implement best research practices and not just expect a CNS paper to land on your desk
 - PIs should have updates and input from start to finish.



Case Summary: Ahvazi, Bijan

Case Summary: Chen, Li

Case Summary: Cokonis, Melanie

Case Summary: Deb, Kaushik

Case Summary: Dzhura, Igor

Case Summary: Freeman, Helen C.

Case Summary: Fu, Jun

Case Summary: Patel, Parag

Case Summary: Suzuki, Makoto

Case Summary: Takahashi, Takao

Case Summary: Warne, James P.

Case Summary: Xing, H. Rosie

Case Summary: Zou, Zhihua

Home About ORI News & Events Research Misconduct RCR Resources Programs Home >> Research Misconduct >> Case Summaries Case Summaries This page contains cases in which administrative actions were imposed due to findings of research misconduct. The list only includes those who CURRENTLY have an imposed administrative actions against them. It does NOT include the names of individuals whose administrative actions periods have expired.

October, 2022

https://ori.hhs.gov/ frequently-askedquestions

2016

Case Summary: Cullinane, Andrew R.

2018

Case Summary: Baughman, Brandi M.

Case Summary: Floutub Maria Cristina Miron

2015

Case Summary: Anderson, David Case Summary: Asherin, Ryan

Case Summary: Bitzegeio, Julia

Case Summary: Blaylock, Brandi Lyn

Case Summary: Briones, Teresita L

Case Summary: Dasmahapatra, Girija

Case Summary: Fujita, Ryousuke

Case Summary: Geraedts, Maria C.P.

Case Summary: Kang, Bin

Case Summary: Littlefield, Peter

Case Summary: Massè, Julie

Case Summary: Potti, Anil

Case Summary: Reddy, Venkata J.

Case Summary: Xiao, Dong

And, in 2021, there was a case of misconduct in the TMC!

2017

Case Summary: Baughman, Brandi

Case Summary: Chegini, Nasser

Case Summary: Chetram, Mahandranauth

Case Summary: El-Remessy, Azza Case Summary: Endo, Matthew

Case Summary: Mirchandani, Alec

Case Summary: Sauer, Frank

Case Summary: Sen, Shiladitya Case Summary: Skau, Colleen T. Case Summary: Srivastava, Rakesh

Case Summary: Wang, Li

2019

Case Summary: Cruikshank, William W.

Case Summary: Malhotra, Deepti Case Summary: Neumeister, Alexander

Case Summary: Potts Kant, Erin N. Case Summary: Yakkanti, Sudhakar 2020

Case Summary: Downs, Charles A.

se Summary: Fulford, Logan

se Summary: Jaiswal, Anil Kumar

se Summary: Jayant, Rahul Dev se Summary: Kim, Shin-Hee

se Summary: Nemani, Prasadarao

se Summary: Panka, David

Case Summary: Tataroglu, Ozgur

Case Summary: Wan, Yihong

Case Summary: Wang, Zhiwei

2021

-3 cases

2022 -9 cases

so far

Are We Doing Enough to Punish Those Who Violate Our Trust? What are the consequences of being found guilty of misconduct?

Most Common ORI Actions

- Retract paper(s)
- Have research supervised for 3 yrs
- No service on committees for 2-3 yrs
- Most can still receive NIH funding
- For those found guilty of fraud, we must have a punishment that fits the crime.
- What is the deterrent for such behavior?
- Indeed, the entire system needs an overhaul, but let's start with making outright fraud something that can be deterred by tough punishment and prohibits this person from ever having the chance to do this again.
 - This is, of course, even more important for clinical fraud

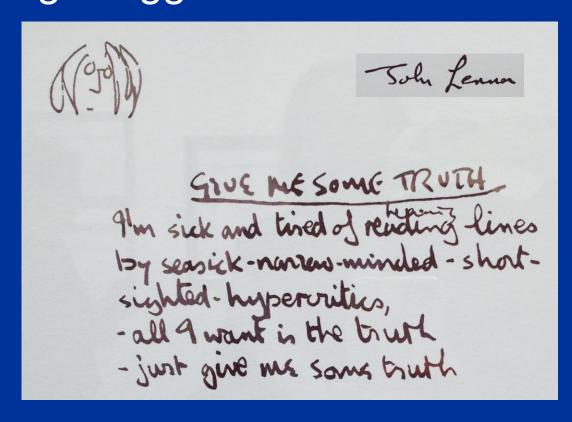
The Primary Inquiry Rests With Your NIH Funded Institution What the Office of Research Integrity Does

- Implements PHS regulations requiring institutions responds to allegations of research misconduct
- Assures institutions requesting PHS we mechanisms in place to deal with allegations
- Provides assistance and Tolking to institutions
- Can perform own:
- Leaves prince on sibility with the individual institutions.
- Institute Sesearch Integrity Officer
 - -MLCC: W. Plunkett

Mechanism for Addressing Misconduct Is Institutional Dependent

- Allegations may be brought to Department Sold, Division Head, or to the Provost and Texture Vice President (EVP)
- Provost & EVP and Resegration
 assess the allegation
- Information-control and initial fact finding.
 - Copyline And Inquiry Panel of at least 3 faculty chosen by EVP and the Res Integrity Officer.

"....you've uncovered a thorny problem in academia—selfishness. In moments of weakness or at the extremes, this creates an undertow away from integrity in science and public health. This is the single biggest limitation in our field,...."



THE RIGHT TO SEARCH FOR TRUTH IMPLIES ALSO A DUTY: ONE MUST NOT CONCEAL ANY PART OF WHAT ONE HAS RECOGNIZED TO BE TRUE.

The Economics of Reproducibility in Preclinical Research

Leonard P. Freedman^{1*}, Iain M. Cockburn², Timothy S. Simcoe^{2,3}

1 Global Biological Standards Institute, Washington, D.C., United States of America, 2 Boston University School of Management, Boston, Massachusetts, United States of America, 3 Council of Economic Advisers, Washington, D.C., United States of America

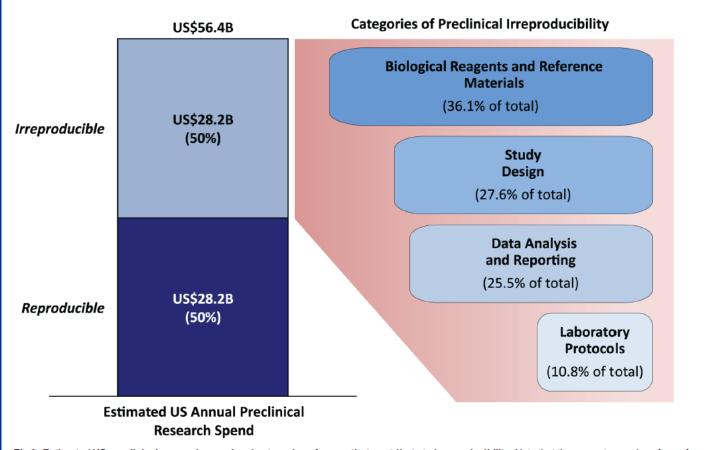
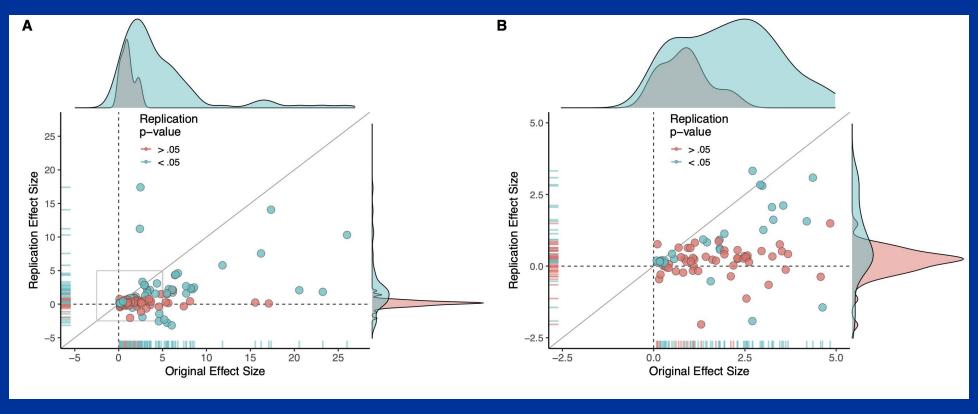


Fig 2. Estimated US preclinical research spend and categories of errors that contribute to irreproducibility. Note that the percentage value of error for each category is the midpoint of the high and low prevalence estimates for that category divided (weighted) by the sum of all midpoint error rates (see S1 Dataset). Source: Chakma et al. [18] and the American Association for the Advancement of Science (AAAS) [19].

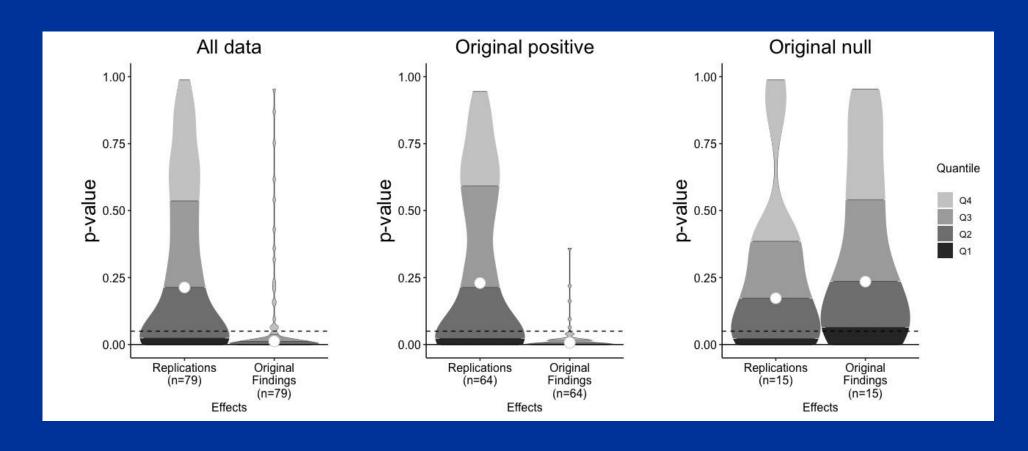
Replication effects compared with original effects



Replications 85% smaller on average

Zoomed in on effect sizes <5

Replication p values compared with original p values



Meta-analysis conclusions

- Replication effects were much weaker than originals
- "Success" was low across replication criteria with variability due, in part to liberalness of the test
- Positive results were half as likely to replicate as null results
- Animal and non-animal declines similar magnitudes animal effects lower success rate because small original effect sizes
- There is room for improvement

Stimulus-triggered fate conversion of somatic cells into pluripotency

Haruko Obokata^{1,2,3}, Teruhiko Wakayama³†, Yoshiki Sasai⁴, Koji Kojima¹, Martin P. Vacanti^{1,5}. Hitoshi Niwa⁶. Masavuki Yamato⁷ & Charles A. Vacanti¹

Science Insider/AAAS August 6, 2014

Senior RIKEN scientist involved in stem cell scandal commits suicide

MATUKE | NEWS

A six-person committee — three RIKEN scientists, two university researchers and a lawyer — looked at six problems. Four were dismissed as innocent errors, but in two cases the committee found that Obokata had manipulated data in an intentionally misleading fashion. They branded it scientific misconduct.

01 April 2014 Updated: 02 April 2014, 01 April 2014

The Problem of Irreproducible Bioscience Research Jeffrey S. Flier

Perspectives in Biology and Medicine, Volume 65, Number 3, Summer 2022, pp. 373-395 (Article)

What is the Impact of Retracted Clinical Papers on Patients?

Retractions in the medical literature: how many patients are put at risk by flawed research?

R Grant Steen

J Med Ethics (2011)

Table 1 Summary of the i	mpact of 180	retracted clinical papers
	Number	Average per retracted paper
Citations of retracted papers		
Total citations	5503	30.6
Research-related citations	5143	28.6
Post-retraction citations	1973	11.0
Retraction-related citations	360	2.0
Review papers	1372	7.6
Patient studies	851	4.7
Subjects enrolled in retracted paper	ers	
Total subjects	28 783	160.8
Patients at risk	17 783	99.3
Patients treated	9189	51.3
Subjects enrolled in secondary pa	pers	
Total subjects	445 064	2472.6
Patients at risk	165 588	919.9
Patients treated	70 501	391.7

Table 4 Comparison of st	tudies retracted fo	r fraud and f	for error	
	Fraud (n = 70) average	SD	Error (n=110) average	SD
Citations per retracted paper				
Total citations	34.8	77.8	29.0	83.5
Research-related citations	31.4	75.4	27.8	82.9
Post-retraction citations	8.6	12.6	12.8	29.7
Retraction-related citations	3.4	10.8	1.2	1.4
Review papers	8.9	22.9	7.1	21.5
Patient studies	5.9	9.7	4.2	8.0
Subjects enrolled in retracted pa	pers			
Total subjects	147.0	291.5	163.2	411.8
Patients at risk	125.9	281.7	84.4	143.7
Treated patients	96.2	277.1	24.2	72.6
Subjects enrolled in secondary p	papers			
Total subjects	1,318.1	4648.7	3,272.4	25678.1
Patients at risk	1,075.2	4496.5	857.7	3883.5
Treated patients	882.4	4504.1	103.9	438.4

- Retracted papers impacted an average of 2,600 patients/paper
- When papers were retracted for fraud, ~1,500 patients were impacted ***This does not take into account patients impacted by fraudulent or faulty **preclinical** studies!!

Meta-analysis conclusions

- Replication effects were much weaker than originals
- "Success" was low across replication criteria with variability due, in part to liberalness of the test
- Positive results were half as likely to replicate as null results
- Animal and non-animal declines similar magnitudes animal effects lower success rate because small original effect sizes
- There is room for improvement

Retraction Watch Database: MD Anderson Cancer Center and Retractions

ISSN 2692-465X		Please see this	<u>user guide</u> before you get			Orie	inal Paper	
Author(s):	Type to search	Country(s)		•	From Date:	To:	mar r aper	
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Reason(s) for Retraction:				•	DOI:			
Subject(s):		Article Type(s)	:	•		Retraction or Oth	er Notices	
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Retraction or Other No	tices	Reason(s)	Author(s)	Or	iginal Paper	Retraction or Other Notices	Article Type(s)	Countries
Title/Subject(s)/Journal — Publisher/Affiliation(s)	/Retraction Watch Post URL(s)			Date/I	PubMedID/DOI	Date/PubMedID/DOI	Nature of Notice	Paywalled? Notes
Conversion of epithelial-to-mesenchymal transiti	on to mesenchymal-to-epithelial		Shuo Chen	03/08/2018		02/04/2022	Research Article	China
ransition is mediated by oxygen concentration in (BLS) Biology - Cancer; (BLS) Biology - Cellular	pancreatic cancer cells	Data +Concerns/Issues About	Xi Chen Wei Li	29731878 10.3892/ol.2	010 0210	35242235 10.3892/ol.2022.13227	Retraction	United States No
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Department of General Surgery, The Second Affili	ated Hospital of Medical College,	+Objections by Third Party	Wan Run Lin Jiancang Ma		rticle has been			
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Department of Surgical Oncology, The University Center, Houston, TX 77030, USA	of Texas MD Anderson Cancer							
TBCRC026: Phase II Trial Correlating Standardia	zed Uptake Value With	+Error in Analyses	Roisin M Connolly	02/05/2019		05/17/2021	Clinical Study	United States
Pathologic Complete Response to Pertuzumab an	d Trastuzumab in Breast Cancer	+Retract and Replace	Jeffrey P Leal Lilia Solnes	30721110 10 1200/ICC	0.2018.78.7986	33999659 10.1200/JCO.21.00752	Retraction	Yes
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Mayo Clinic, Rochester, MN			Jennifer Specht Anna Marie Stornniolo					
Baylor College of Medicine, Houston, TX 6University of Washington, Seattle, WA		-	Vicente Valero					
Indiana University, Indianapolis, IN			Christos Vaklavas Ian E Krop					
The University of Texas MD Anderson Cancer Cer University of Alabama at Birmingham, Birmingha	nter, Houston, TX m. AL		Eric P Winer					
Dana-Farber Cancer Institute, Boston, MA			Melissa Camp Robert S Miller					
Washington University in St Louis, St Louis, MO			Antonio C Wolff					
			Ashley Cimino-Mathews Ben H Park					
			Richard L Wahl Vered Steams					
The Akt inhibitor KP372-1 suppresses Akt activit	ty and cell proliferation and	+Concerns/Issues About	Mahitosh Mandal	05/03/2005		02/18/2021	Research Article	United States
induces apoptosis in thyroid cancer cells		Data	Seungwon Kim Maher N Younes	15870708		33603199 10.1038/s41416-021-01299-9	Retraction	No
(BLS) Biochemistry; (BLS) Biology - Cancer; (BL British Journal of Cancer — Springer - Natur	S) Biology - Cellular; e Publishing Group	+Duplication of Image +Manipulation of Images	Samar A Jasser	10.1038/sj.bj	JC.0002595	10.1038/941410-021-01299-9		
Department of Head and Neck Surgery, The Unive	rsity of Texas MD Anderson	+Original Data not Provided	Adel K El Naggar Gordon B Mills		rticle has been			
Cancer Center, Houston, TX, USA Department of Pathology, The University of Texas	MD Anderson Cancer Center.	Provided	Jeffrey N Myers	retract	ed and there are 9 ents on PubPeer (by:			
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				Biskre	ensis)			
identification of de novo mutations in prenatal ne	urodevelopment-associated	+Copyright Claims	Shan Jiang	09/01/2020		12/01/2020	Research Article	China
genes in schizophrenia in two Han Chinese patier	t-sibling family-based cohorts	+Lack of Approval from Third Party	Daizhan Zhou Yin Ying Wang	32873781	398-020-00987-z	33262330 10.1038/s41398-020-01116-6	Retraction	United States No
(BLS) Genetics; (HSC) Medicine - Obstetrics/Gyn Pediatrics; (HSC) Medicine - Psychiatry;		I mile Party	Peilin Jin	10.1036/941	350-020-00967-Z	10.1030/941390-020-01110-0		IND
Translational Psychiatry - Springer - Nature	Publishing Group		Chunling Wan	1				
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Institute of Neuropsychiatric Science and Systems Biological Medicine, Shanghai Jiao						
Tong University, Shanghai, China						
MD Anderson Cancer Center UT Health Graduate School of Biomedical Sciences, Houston, TX, 77030, USA						
Human Genetics Center, School of Public Health, The University of Texas Health						
Science Center at Houston, Houston, TX, 77030, USA 410 AI, LLC, 10 Plummer Ct, Germantown, MD, 20876, USA						
Neoadiuvant chemotherapy as a comprehensive treatment in patients with	+Error in Analyses	Xian Feng Wei	03/18/2020	10/09/2020	Clinical Study	China
laryngeal and hypopharyngeal carcinoma (HSC) Medicine - Oncology; (HSC) Medicine - Otorhinolaryngology; (HSC)	+Error in Methods	Akanksha Srivastava Peng Lin	32186224 10.1080/00016489.2020.1737330	33034259 10 1080/00016489 2020 1817662	Retraction	United States No
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Acta Otolaryngologica — Taylor and Francis Department of Otorhinolaryngology Head and Neck, Tianjin First Central Hospital,		Shengchi Zhang Xin Peng				
Tianjin, China		Chuan Liu Limei Liu				
Department of Head and Neck Surgery, University of Texas MD Anderson Cancer Center, Houston, TX, USA		Limei Liu Li Rong Wu				
Center, Houston, TX, USA Department of Otorhinolaryngology, The First Affiliated Hospital of Chongqing		Guo Jun Li				
Medical University, Chongqing, China		Yun Cheng Li				
Department of Ophthalmology, Yuhuangding Hospital of Qingdao University, Yantai, China						
Department of Radiation Oncology, Nanjing Medical University Affiliated Cancer						
Hospital, Jiangsu Cancer Hospital, Jiangsu Institute of Cancer Research, Nanjing, China						
Department of Otorhinolaryngology, Union Hospital, Tongji Medical College,						
Huazhong University of Science and Technology, Wuhan, China miR-34a blocks osteoporosis and bone metastasis by inhibiting osteoclastogenesis	C	San V Parada Ari	06/25/2014	06/01/2020	Letter	United States
and Tgif2	Data	Wei Wei	25043055	32483375	Research Article	No No
(BLS) Biology - Cellular; (BLS) Genetics; (HSC) Medicine - Orthopedics;		Hoang Dinh Huynh	10.1038/nature13375	10.1038/s41586-020-2273-1	Retraction	
Nature Springer - Nature Publishing Group Department of Pharmacology, The University of Texas Southwestern Medical Center,	-	Zixue Jin Xunde Wang	1 comment on PubPeer			
Dallas, 75390, Texas, USA		Tsung Cheng Chang	(by: Actinopolyspora			
Department of Molecular Biology, The University of Texas Southwestern Medical Center, Dallas, 75390, Texas, USA		Xian Jin Xie Lin He	Biskrensis)			
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Dallas, 75390, Texas, USA Department of Clinical Sciences, The University of Texas Southwestern Medical	-	Anil K Sood				
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Division of Cellular and Developmental Biology, Molecular and Cell Biology Department, University of California at Berkeley, Berkeley, 94705, California, USA		Yihong Wan				
Department of Gynecologic Oncology and Reproductive Medicine. The University of						
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http://retractionwatch.com/2020/06/01/nature-retracts-study-touted-as-step-toward- treatments-for-bone-diseases/						
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paper-rays-federal-watchdog-as-university-rescinds-professorships/ Identification of Novel Biomarkers for Pancreatic Cancer Using Integrated	+Breach of Policy by	Xuan Zhang	02/22/2016	03/10/2020	Research Article	China
Transcriptomics With Functional Pathways Analysis	Author	Pan Tong	26909671	30443987	Retraction	United States
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