

CNIC PhDay 22nd November 2019



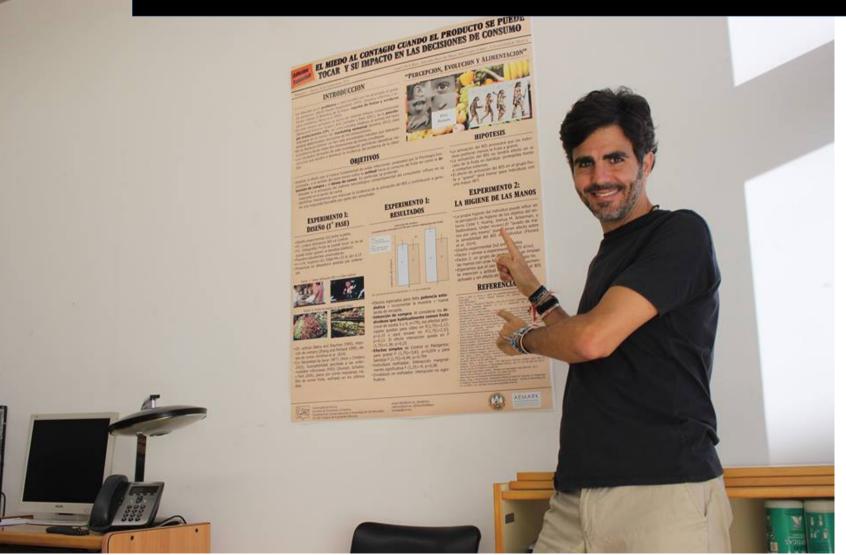
A Short Trip Around the Research Misconduct: Framework and Stories of Dishonesty

Angel Abril-Ruiz @aabrilru http://angel.abrilruiz.es





Personal motivation on research misconduct



Some participants doing a experiment. 15 April 2015



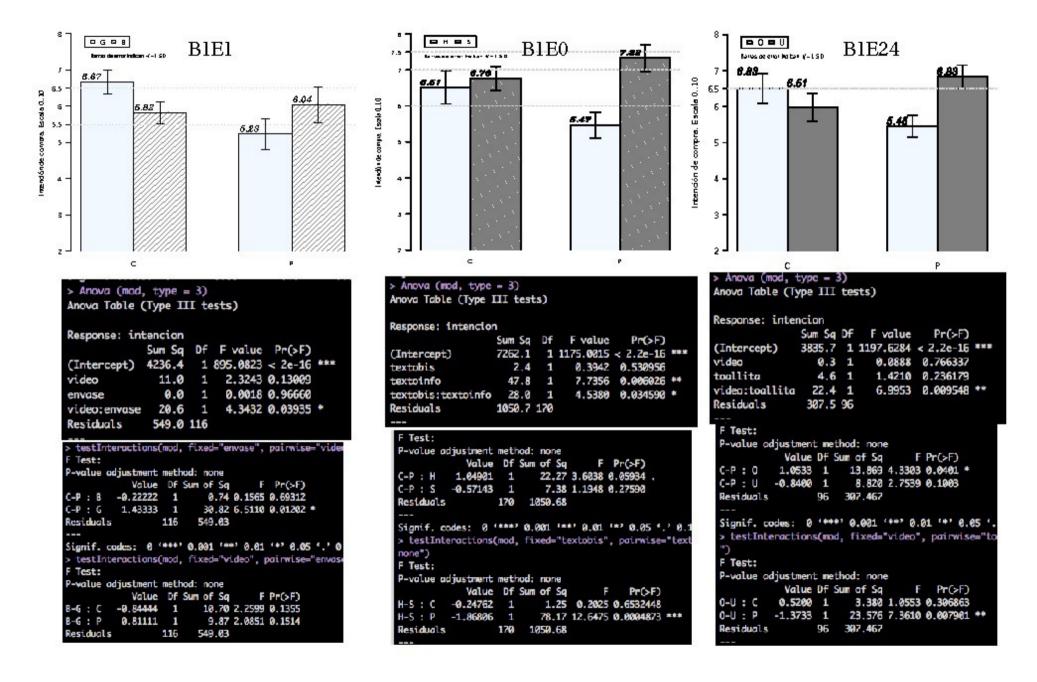
This presentation is downloadable from: http://bitly.com/CNIC22NOV19



Participants watching a video manipulation and using wipes (towels one use) (2° manipulation). April 2016

- Around 4000 people impacted with pretests, pilots and experiments.
- Around 500 people participated in face-to-face experiments.
- •4 experiments 2x2 between subjects
- 4 studies
- •2 Congresses: 1 poster; 2 working papers
- several pretests + video productions + resources for manipulations + ...

Gráficas finales experimentos tesis @aabrilru.7JUL16





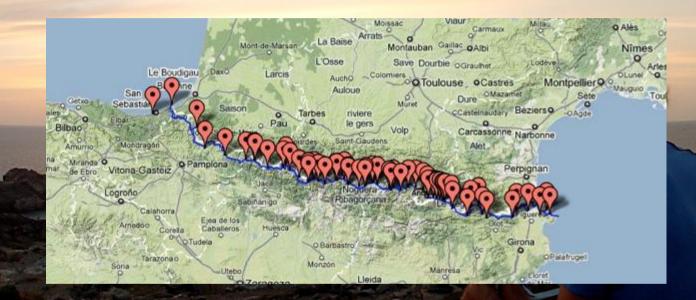
My bottomless pit...

C Profest

Source:https://www.portalfruticola.com/noticias/2016/ 05/05/como-hacer-pozos-profundos-consideracionestecnicas-y-legales/

«Amanece en Cap de Creus» Inicio del GR 11. 850Km hasta Cabo Higuer

17/08/2017, 06:58h



«Amanece en Cap de Creus» Inicio del GR 11. 850Km hasta Cabo Higuer

17/08/2017,06:58h

850 Km 40.000 m d+ 20 days (one mountain marathon per day) Without using shelters

«Amanece en Cap de Creus» Inicio del GR 11. 850Km hasta Cabo Higuer

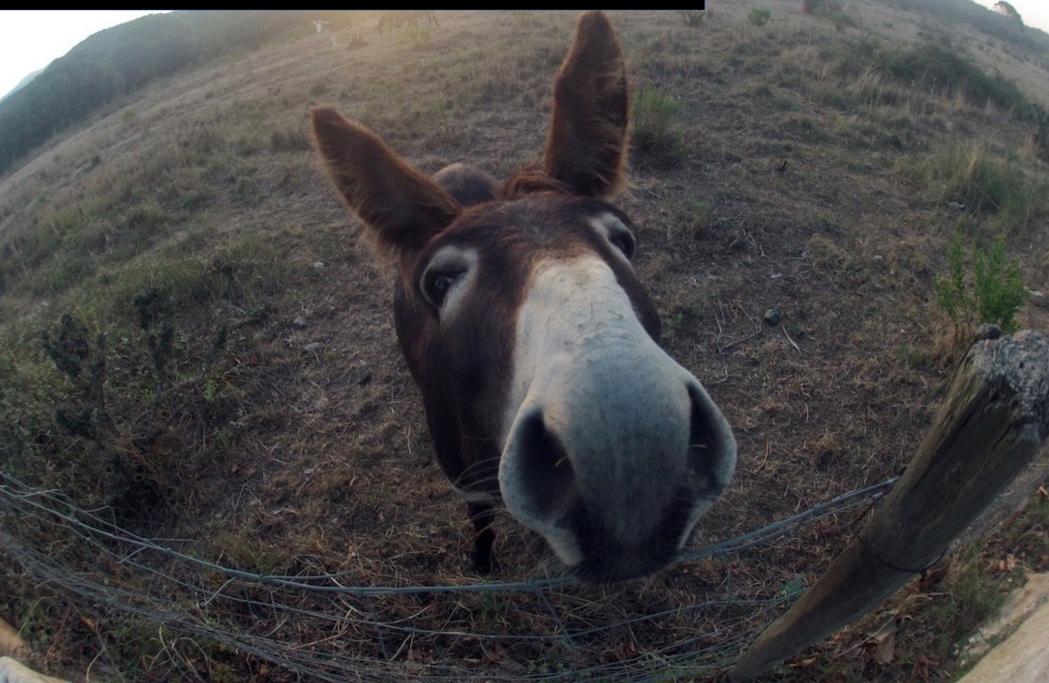
17/08/2017, 06:58h

I cried every day...





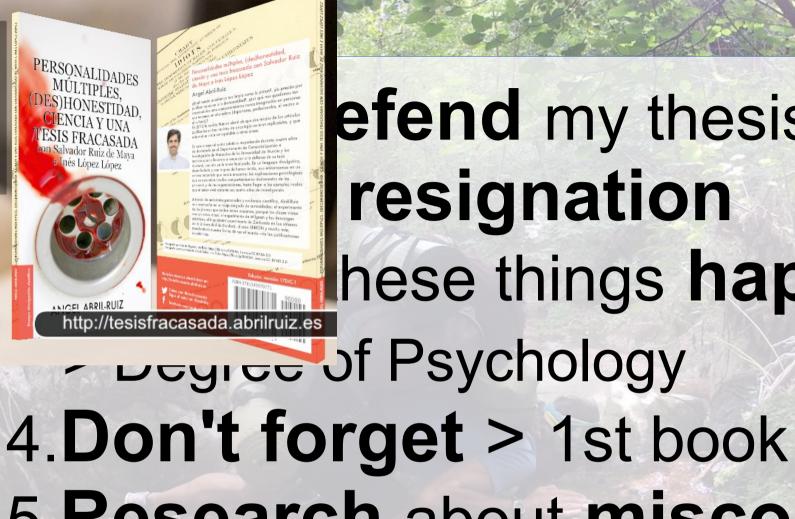
Who really am I? :)





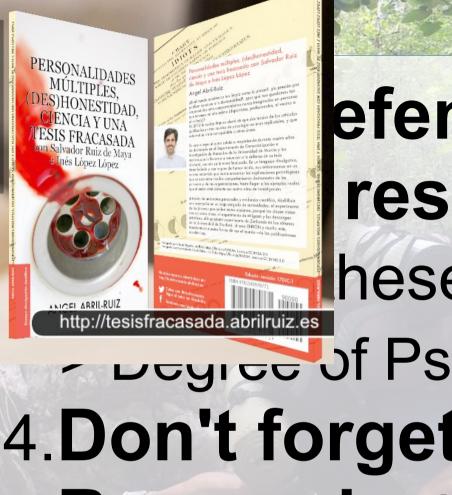
But little by little the SMILE came back...

1.Not to defend my thesis 2.Letters of resignation 3.Why do these things happen? > Degree of Psychology 4.Don't forget > 1st book 5.Research about misconduct 6.To share the results >2nd book

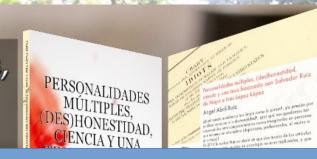


5.Research about misconduct 6.To share the results >2nd book

efend my thesis resignation hese things happen?



efend my thesis resignation hese things hannen? ANGEL ABRIL-RUIZ - Degree of Psychology MANZANAS PODRIDAS 4.Don't forget > 1st bc 5.Research about mis 6.To share the results





Both books are Creative Commons and available for free download

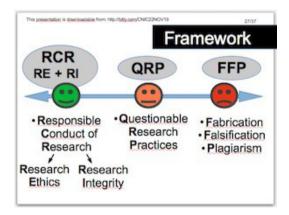


This presentation is downloadat

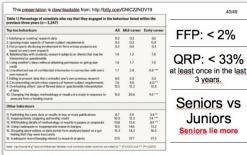
A breath... So far...



Part 1: Personal motivation



Part 2: Framework What is what?



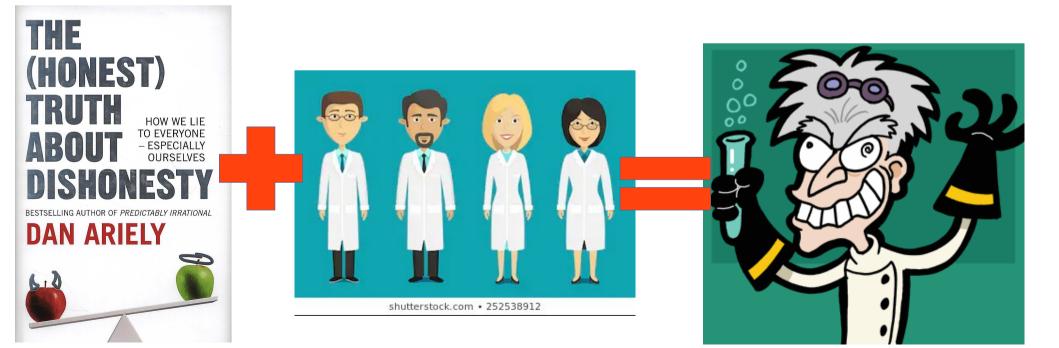
Martinson, B., Anderson, M. & de Vries, R. Scientists behaving badly. Nature 435, 737–738 (2005) DOI:10.1038/435737a

Part 3: Evidence Some studies



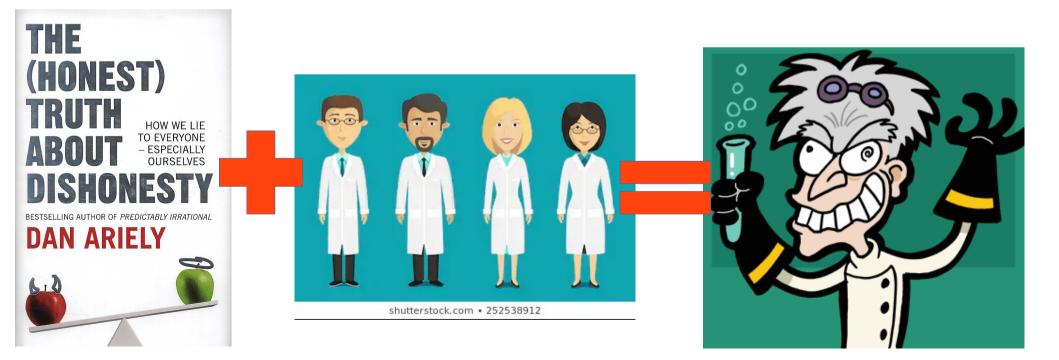
Syllogism (logic)

1.A lot of people lie.



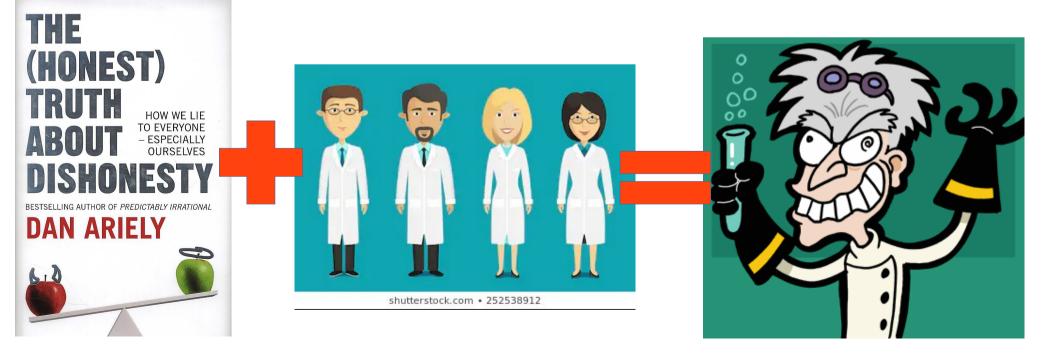
Syllogism (logic)

1.A lot of people lie.2.Scientists are people.



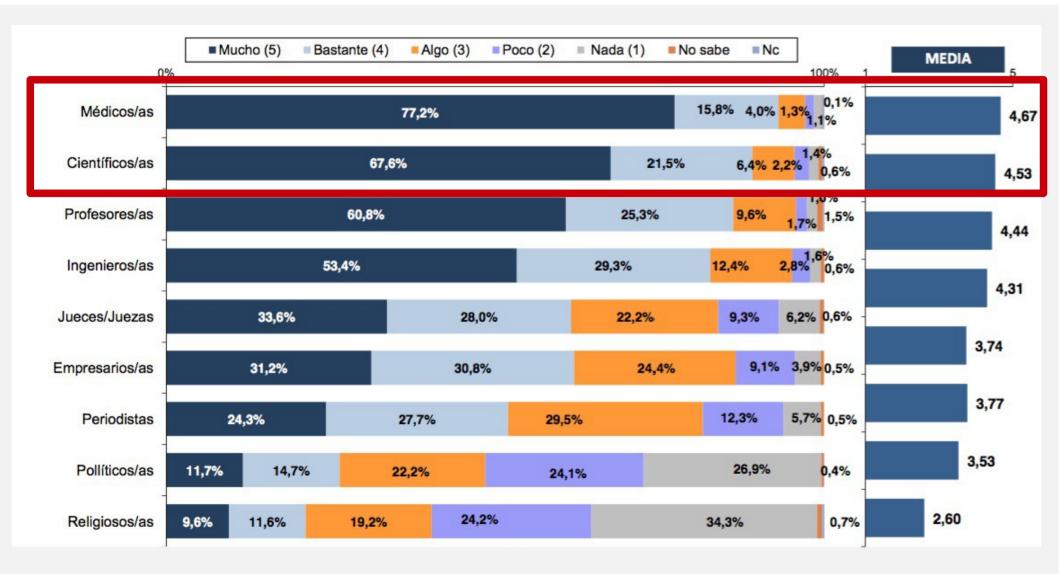
Syllogism (logic)

1.A lot of people lie.2.Scientists are people.3.A lot of scientists lie.



B.3. Imagen social de la profesión científica

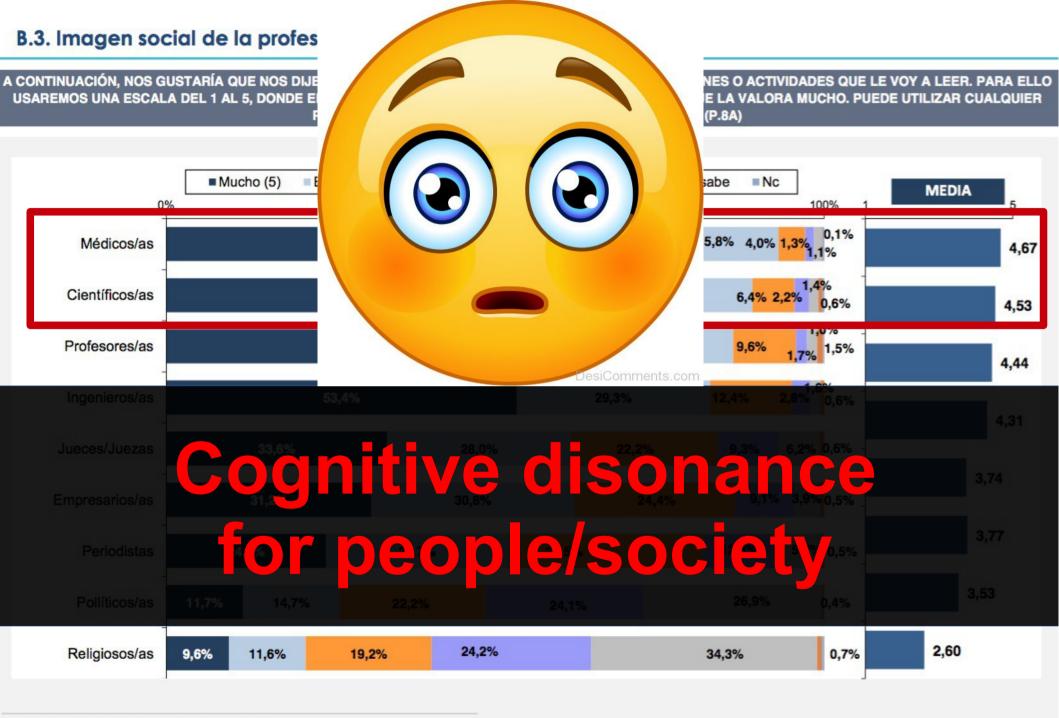
A CONTINUACIÓN, NOS GUSTARÍA QUE NOS DIJERA EN QUÉ MEDIDA VALORA CADA UNA DE LAS PROFESIONES O ACTIVIDADES QUE LE VOY A LEER. PARA ELLO USAREMOS UNA ESCALA DEL 1 AL 5, DONDE EL 1 SIGNIFICA QUE USTED LA VALORA MUY POCO Y EL 5 QUE LA VALORA MUCHO. PUEDE UTILIZAR CUALQUIER PUNTUACIÓN INTERMEDIA PARA MATIZAR SUS OPINIONES. (P.8A)



Base: Total de personas entrevistadas (n=5.200).



source: https://icono.fecyt.es/sites/default/files/filepublicaciones/18/epscyt2018_informe_0.pdf source: https://www.desicomments.com/smileys/strange-smiley-pic/18 – INFORME DE RESULTADOS 147



Base: Total de personas entrevistadas (n=5.200).



source: https://icono.fecyt.es/sites/default/files/filepublicaciones/18/epscyt2018_informe_0.pdf source: https://www.desicomments.com/smileys/strange-sniley-pic/18 - INFORME DE RESULTADOS 147



Commentary Published: 08 June 2005

Scientists behaving badly

Brian C. Martinson, Melissa S. Anderson & Raymond de Vries

Nature 435, 737–738 (2005)Download Citation ⊥3829 Accesses545 Citations131 AltmetricMetrics >>

Surveys over 3247 US-NIH funded researchers

33% of the participants (scientists) **admited** Questionable Research Practices

LEADERSHIP http://bitly.com/CNIC22NOV19 **PROBLEMS IN** THE LAB

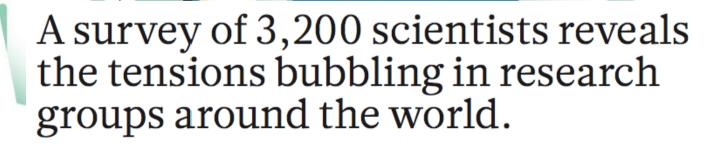
30/84

BY RICHARD VAN NOORDEN

A survey of 3,200 scientists reveals the tensions bubbling in research groups around the world.

LEADERSHIP http://bitly.com/CNIC22NOV19 31/84 PROBLEMSIN BY RICHARD VAN NOORDEN THE LAB Example of the component of the

«Some hard numbers on science's leadership problems», Nature (2018) DOI: 10.1038/d41586-018-05143-8

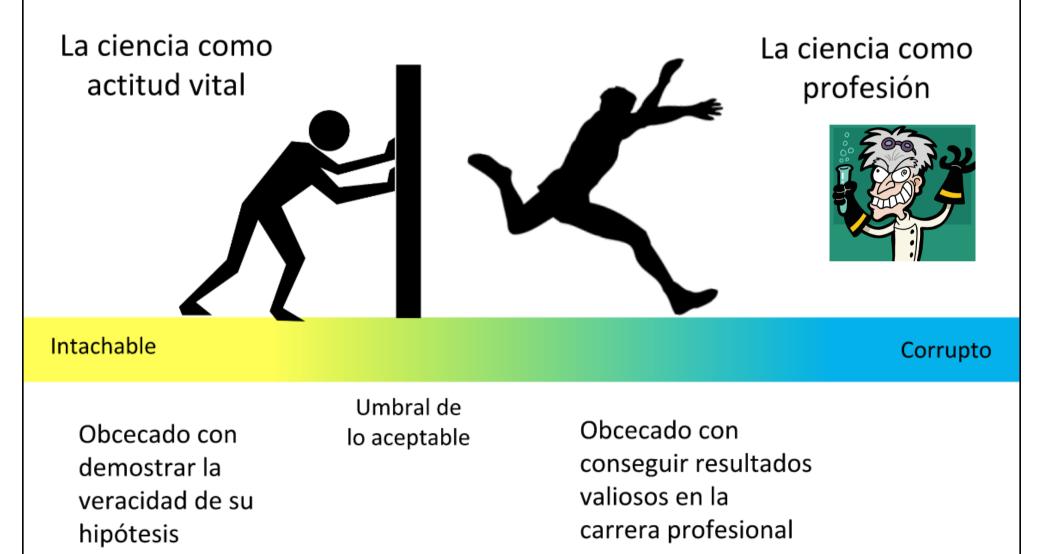


And 70% of non-PI respondents said that in the past 12 months they had 'often' or 'occasionally' felt pressured to produce a particular result



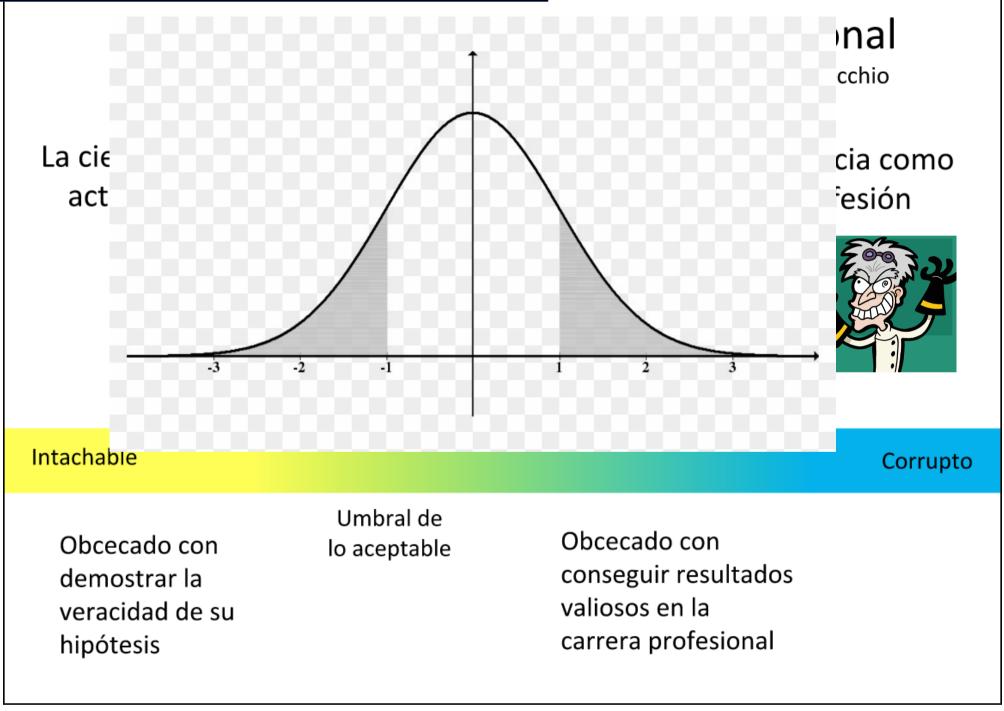
Las dos modalidades de engaño personal

Siguiendo a F. di Trocchio

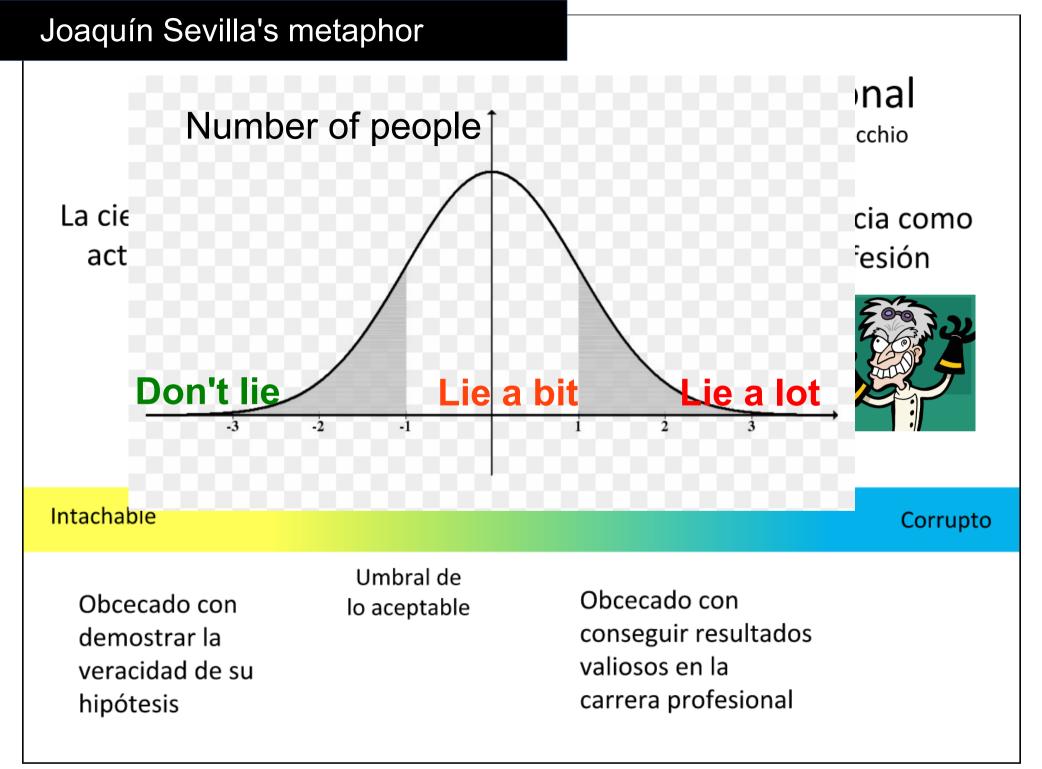


http://joaquinsevilla.blogspot.com/2017/03/ciencia-patologica-y-patologia-editorial.html

Joaquín Sevilla's metaphor



http://joaquinsevilla.blogspot.com/2017/03/ciencia-patologica-y-patologia-editorial.html



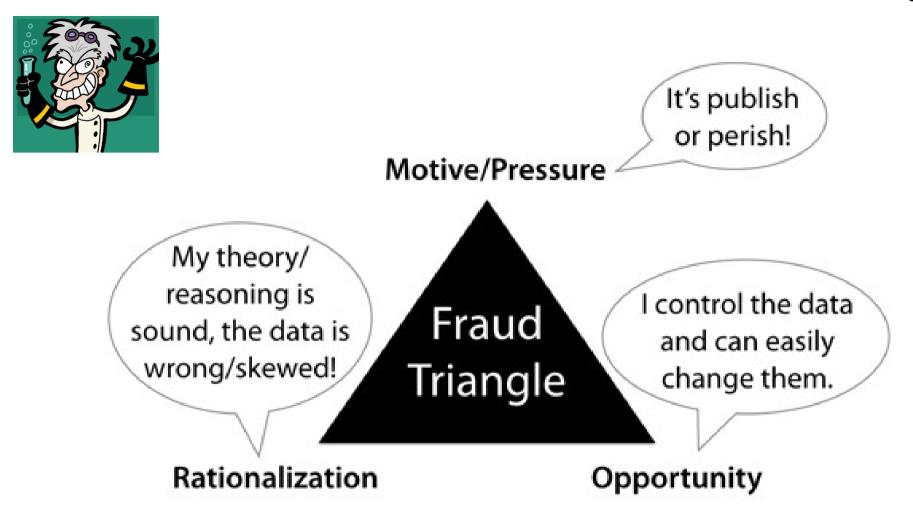
http://joaquinsevilla.blogspot.com/2017/03/ciencia-patologica-y-patologia-editorial.html

Number of people The problem of the aggregated behaviour

Obcecado con demostrar la veracidad de su hipótesis Umbral de lo aceptable

Obcecado con conseguir resultados valiosos en la carrera profesional

http://joaquinsevilla.blogspot.com/2017/03/ciencia-patologica-y-patologia-editorial.htm



Fraud Triangle (by Donald R. Cressey) adapted to Scientific Misconduct

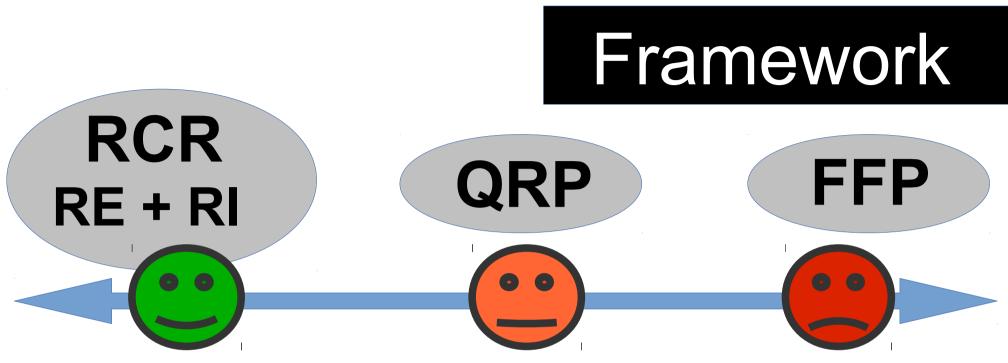
Adapted by Daniel Wessel. Available from: http://www.organizingcreativity.com/2014/08/using-the-fraud-triangle-to-explain-scientific-misconduct/



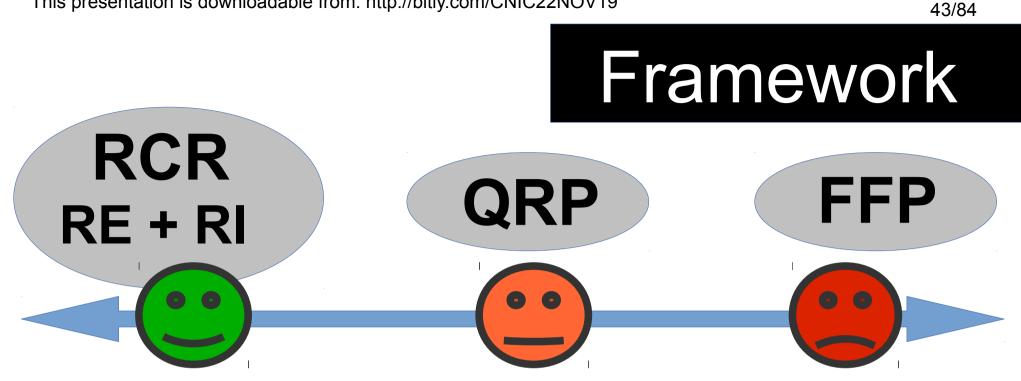
Adapted by Daniel Wessel. Available from: http://www.organizingcreativity.com/2014/08/using-the-fraud-triangle-to-explain-scientific-misconduct/

Be careful: "integrity" is different to "ethics"

Research msconduct



- Responsible
 Quantical Conduct of Foundation
 Research Foundation
 Research Research Research Foundation
 Ethics Integrity
- Questionable
 Research
 Practices
- Fabrication
- Falsification
 - Plagiarism



 Response Conduc Researd Research -2 -1 2 **E**thics

abrication alsification Plagiarism

FFP

65 FR 76260

Executive Office of the President (OSTP) Federal Policy on Research Misconduct

Research misconduct is defined as fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.

- Fabrication is making up data or results and recording or reporting them.
- Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
- **Plagiarism** is the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.

Research misconduct does not include honest error or differences of opinion.

https://www.govinfo.gov/app/details/FR-2000-12-06/00-30852/summary



Questionable Research Practices

Leslie K. John et al. (2012)

1.In a paper, failing to report all of a study's dependent measures.

2.Deciding whether to collect more data after looking to see whether the results were significant.

3.In a paper, failing to report all of a study's conditions.

- 4. Stopping collecting data earlier than planned because one found the result that one had been looking for.
- 5.In a paper, "rounding off" a p value (e.g., reporting that a p value of .054 is less than .05).

6.In a paper, selectively reporting studies that "worked".

- 7.Deciding whether to **exclude data** after looking at the impact of doing so on the results.
- 8.In a paper, reporting an unexpected finding as having been predicted from the start.
- 9.In a paper, claiming that results are unaffected by demographic variables (e.g., gender) when one is actually unsure (or knows that they do).
- 10.Falsifying data. <--- FFP!

«Measuring the Prevalence of Questionable Research Practices With Incentives for Truth Telling». Leslie K. John et al. DOI: 10.1177/0956797611430953

QRPs

Questionable Research Practices

Leslie K. John et al. (2012)

- 1. Re-running a study that didn't work, getting a significant result, and failing to report the study that didn't work.
- 2. Failing to report all of a study's conditions in a write-up.
- 3. Failing to report dependent measure(s) that showed null effects or effects that contradicted one's hypothesis.
- 4. Deciding whether to collect more data after looking to see whether the results were significant.
- 5. Stopping collecting data earlier than planned because one found the result that one had been looking for.
- 6. Reporting an unexpected finding as having been predicted from the start.
- 7. Falsifying data.
- 8. Dropping cases based on unplanned criteria, after looking at the results.
- 9. Reporting that a marginally significant p-value was, in fact significant (e.g. reporting that an observed p value of 0.06 was actually 0.049)
- 10.Failing to report condition(s) that showed null effects or effects that contradicted one's hypothesis.
- 11. Failing to get new IRB (i.e. research ethics) approval after having made significant changes to an initially-approved study.
- 12. Changing stimuli mid-way through running a study and failing to report this in a write-up.
- 13. Failing to keep data containing identifying information secure (e.g. failing to store them in a locked place).
- 14. Running a study without obtaining IRB (i.e. research ethics) approval.
- 15. Running a study without obtaining IRB (i.e. research ethics) approval, and reporting that one had, in fact, obtained it.
- 16.Preventing a person from participating in a study because one believed the person would not provide evidence in support of one's hypothesis.
- 17. Deciding which condition to assign a subject to in a 'randomized' study.
- 18.Excluding data (e.g., the last 10 subjects) just to make the results significant.
- 19.Reporting in a write-up that a research assistant was blind to the hypotheses when in fact, he or she was not.
- 20. Ignoring violations of model assumptions (e.g. of normality of distribution) when the results were consistent with one's hypothesis.
- 21. Failing to debrief participants in a study where debriefing was warranted.
- 22.Letting data coders know the hypothesis prior to having them code the data.
- 23.Reporting an interpretation of the data that one doesn't really believe.
- 24. Using a research idea from someone (e.g. a colleague or student) and failing to properly acknowledge them.
- 25.Deciding whether to exclude outliers after seeing how their exclusion affects the hypothesized results.

«Measuring the Prevalence of Questionable Research Practices With Incentives for Truth Telling». Leslie K. John et al. DOI: 10.1177/0956797611430953

More specifically

HARKing

Hypotesizing After Results are Known p-hacking, data dredging, data fishing, data snooping, data butchery

Fudging, massaging, cooking

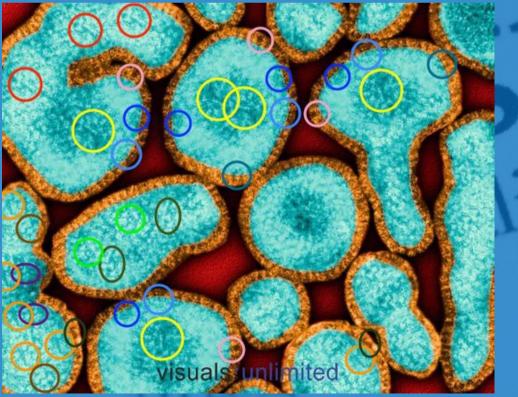
Cherry picking data

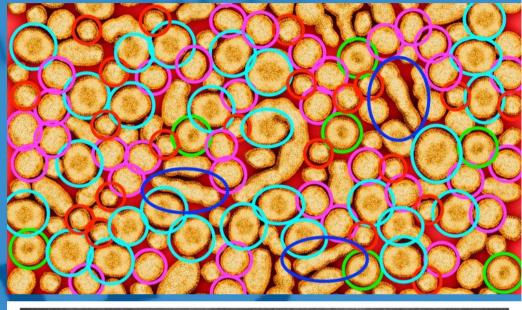
Salami or trivial publication, salami slicing

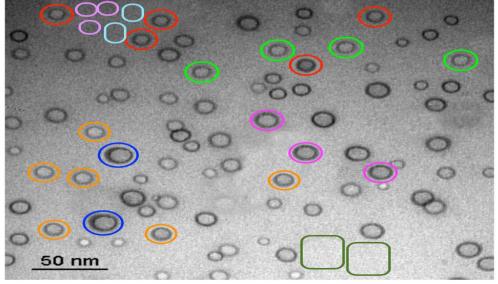
Publication Verification Bias Bias

...and in Biology...

photoshoping







https://threadreaderapp.com/thread/1127260133015183360.html https://twitter.com/MicrobiomDigest/status/1173107685593513984



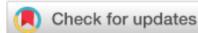
...and in Biology...

The Prevalence of Inappropriate Image Duplication in Biomedical Research Publications

Elisabeth M. Bik, Arturo Casadevall, Ferric C. Fang

L. David Sibley, Editor

DOI: 10.1128/mBio.00809-16



The images from a total of **20,621** papers published in 40 scientific journals from 1995 to 2014 were visually screened. Overall, **3.8%** of published papers **contained problematic figures**, with at least half exhibiting features suggestive of **deliberate manipulation**.

...and in Biology...

photoshoping

Elisabeth Bik

@MicrobiomDigest

https://www.the-scientist.com/news-opinion/ey e-for-manipulation--a-profile-of-elisabeth-bi k-65839



Elisabeth *Lab Fairy* Bik 🤣 @MicrobiomDigest

I am taking a year off from paid work to focus more on my science misconduct volunteer work. Science needs more help to detect image duplication, plagiarism, fabricated results, and predatory publishers.

Traducir Tweet

5:23 p. m. · 26 abr. 2019 · Twitter for Android

398 Retweets 3,3 K Me gusta





, ↑,
Ċ



1.0



0 6

Elisabeth *Lab Fairy* Bik 🤣 @MicrobiomDigest · 26 abr.

 \sim

En respuesta a @MicrobiomDigest

17, 28

Most of the work detecting these problems in science papers is done by volunteers like me. It takes perseverance and patience. Many journals, authors, and academic institutions will not take action.



Elisabeth *Lab Fairy* Bik @ MicrobiomDigest · 26 abr. Even if they respond, It might take years before papers with serious flaws are corrected. All that time, those papers are not flagged by the journals, and others researchers might cite them or base their research on them.

180



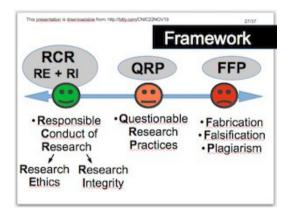
https://twitter.com/MicrobiomDigest/status/1121796872794820610

This presentation is downloadat

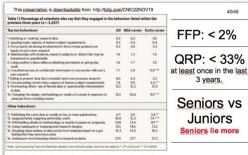
A breath... So far...



Part 1: Personal motivation



Part 2: Framework What is what?



Martinson, B., Anderson, M. & de Vries, R. Scientists behaving badly. Nature 435, 737–738 (2005) DOI:10.1038/435737a

Part 3: Evidence Some studies

- Claxton, L. D. (2005). Scientific authorship: Part 1. A window into scientific fraud? Mutation Research/Reviews in Mutation Research, 589(1), 17-30. DOI: 10.1016/j.mrrev.2004.07.003Martinson, B., Anderson, M. & de Vries, R. Scientists behaving badly. Nature 435, 737–738 (2005) DOI:10.1038/435737
- Steneck, N. H. (2006). Fostering integrity in research: Definitions, current knowledge, and future directions. Science and Engineering Ethics, 12(1), 53-74. DOI: 10.1007/PL00022268
- Fanelli, D. (2009). How Many Scientists Fabricate and Falsify Research? A Systematic Review and Meta-Analysis of Survey Data.
 PLOS ONE, 4(5), e5738. DOI: 10.1371/journal.pone.0005738
- John, L. K., Loewenstein, G., & Prelec, D. (2012). Measuring the Prevalence of Questionable Research Practices With Incentives for Truth Telling. Psychological Science, 23(5), 524-532. DOI: 10.1177/0956797611430953

- Carlisle, J. B. (2017). Data fabrication and other reasons for nonrandom sampling in 5087 randomised, controlled trials in anaesthetic and general medical journals. Anaesthesia, 72(8), 944-952. DOI: 10.1111/anae.13938
- Brown, «Nicholas J. L.», & Heathers, «James A. J.» (2017). The GRIM Test: A Simple Technique Detects Numerous Anomalies in the Reporting of Results in Psychology. Social Psychological and Personality Science, 8(4), 363-369. https://doi.org/10.1177/1948550616673876
- Brainard, J., & You, J. (2018, octubre 18). What a massive database of retracted papers reveals about science publishing's 'death penalty'. Science | AAAS. Recuperado de https://www.sciencemag.org/news/2018/10/what-massive-databaseretracted-papers-reveals-about-science-publishing-s-death-penalty
- Grieneisen, M. L., & Zhang, M. (2012). A comprehensive survey of retracted articles from the scholarly literature. PloS one, 7(10), e44118. DOI: DOI: 10.1371/journal.pone.0044118

- Banks, G. C., Rogelberg, S. G., Woznyj, H. M., Landis, R. S., & Rupp, D. E. (2016). Editorial: Evidence on Questionable Research Practices: The Good, the Bad, and the Ugly. Journal of Business and Psychology, 31(3), 323-338. DOI: 10.1007/s10869-016-9456-7
- Bik, E. M., Casadevall, A., & Fang, F. C. (2016). The Prevalence of Inappropriate Image Duplication in Biomedical Research Publications. MBio, 7(3), e00809-16. DOI: 10.1128/mBio.00809-16loannidis, J. P. A. (2005). Why Most Published Research Findings Are False. PLOS Medicine, 2(8), e124. DOI: 10.1371/journal.pmed.0020124
- Baker, M. (2016). 1,500 scientists lift the lid on reproducibility. Nature News, 533(7604), 452. DOI: 10.1038/533452
- Baker, M. (2016, abril 22). Problematic images found in 4% of biomedical papers. Nature News. https://doi.org/10.1038/nature.2016.19802
- Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. Science, 349(6251). DOI: 10.1126/science.aac4716

This presentation is downloadat

How to estimate?

1) Surveys

2) Big data

3) Number of retractions

Table 1 Percentage of scientists who say that they engaged in the behaviour listed within the previous three years (n = 3,247)

Top ten behaviours	All	Mid-career	Early-career
1. Falsifying or 'cooking' research data	0.3	0.2	0.5
Ignoring major aspects of human-subject requirements	0.3	0.3	0.4
 Not properly disclosing involvement in firms whose products are based on one's own research 	0.3	0.4	0.3
 Relationships with students, research subjects or clients that may be interpreted as guestionable 	14	1.3	1.4
Using another's ideas without obtaining permission or giving due credit	1.4	1.7	1.0
 Unauthorized use of confidential information in connection with one's own research 	1.7	2.4	0.8 ***
7. Failing to present data that contradict one's own previous research	6.0	6.5	5.3
8. Circumventing certain minor aspects of human-subject requirements	7.6	9.0	6.0 **
Overlooking others' use of flawed data or questionable interpretation of data	12.5	12.2	12.8
 Changing the design, methodology or results of a study in response to pressure from a funding source 	15.5	20.6	9.5***
Other behaviours			
11. Publishing the same data or results in two or more publications	4.7	5.9	3.4**
12. Inappropriately assigning authorship credit	10.0	12.3	7.4 ***
13. Withholding details of methodology or results in papers or proposals	10.8	12.4	8.9 **
14. Using inadequate or inappropriate research designs	13.5	14.6	12.2
 Dropping observations or data points from analyses based on a gut feeling that they were inaccurate 	15.3	14.3	16.5
16. In adequate record keeping related to research projects	27.5	27.7	27.3

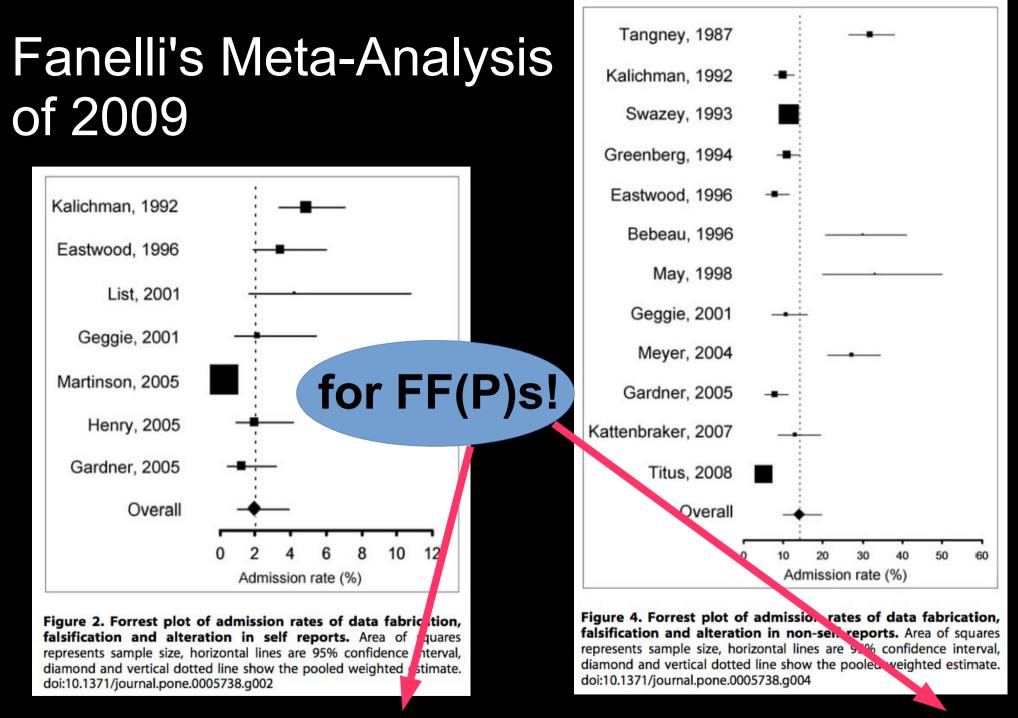
Note: significance of χ^2 tests of differences between mid- and early-career scientists are noted by ** (P<0.01) and *** (P<0.001).

FFP: < 2%

QRP: < 33% at least once in the last 3 years.

Seniors vs Juniors Seniors lie more

Martinson, B., Anderson, M. & de Vries, R. Scientists behaving badly. Nature 435, 737–738 (2005) DOI:10.1038/435737a



Self-reports: 2%

Non Self-reports: 14%

Fanelli's Meta-Analysis of 2009





self-report

non self-report

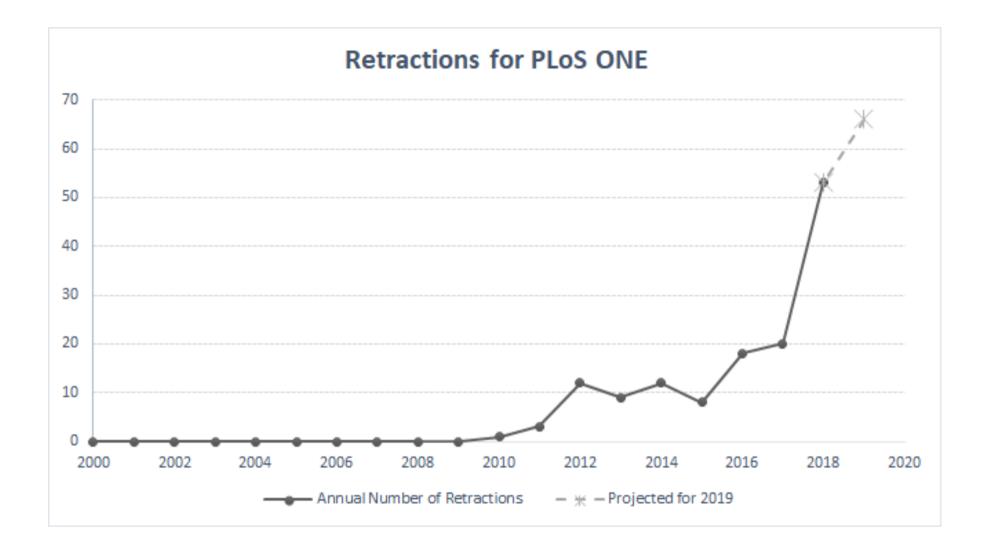
Number of retractions



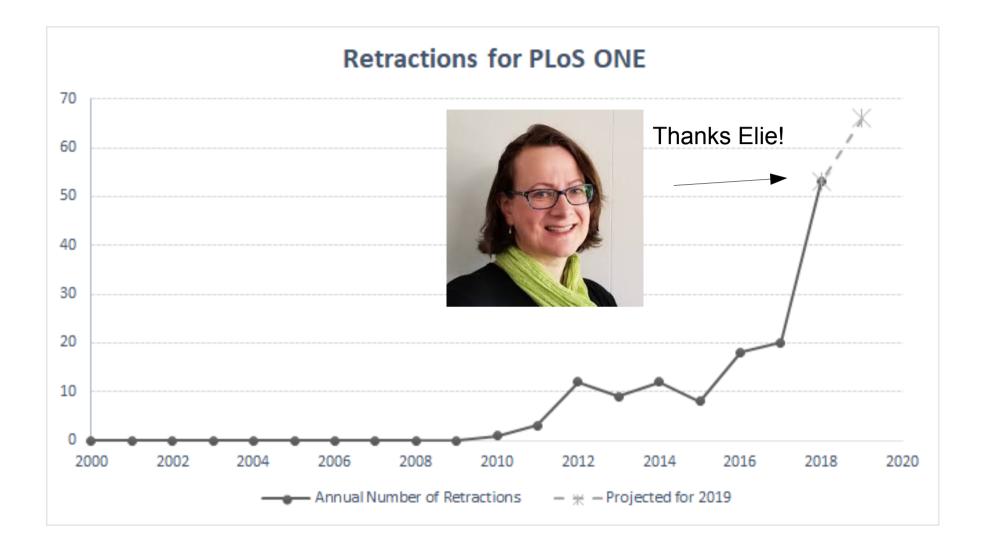
*The rate appears to decline after 2015, but numbers are almost certainly incomplete because of delays in publishing retractions.

(GRAPHIC) J. YOU/SCIENCE; (DATA) RETRACTION WATCH AND NSF; METHODOLOGY

Source: https://www.sciencemag.org/news/2018/10/what-massive-database-retracted-papers-reveals-about-science-publishing-s-death-penalty



Source: https://retractionwatch.com/2019/04/25/how-one-journal-became-a-major-retraction-engine/



Source: https://retractionwatch.com/2019/04/25/how-one-journal-became-a-major-retraction-engine/

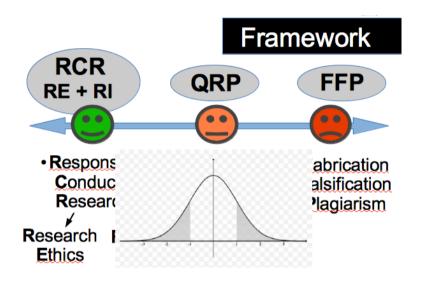
62/84

Retraction Watch

Leaderboard

1.Yoshitaka Fujii (total retractions: 183) 2.Joachim Boldt (97) 3. Yoshihiro Sato (87) 4.Jun Iwamoto (67) 5.Diederik Stapel (58) 6.Yuhji Saitoh (53) 7.Adrian Maxim (48) 8.Chen-Yuan (Peter) Chen (43) 9.Fazlul Sarkar (41) 10.Hua Zhong (**41**)

In short...



Few people lie a lot a lot of people lie a few

This presentation is downloadat

And finally

Table 1 Percentage of scientists who say that they engaged in the previous three years ($n = 3,247$)				
Top ten behaviours	All	Mid-career	Early-career	FFP: < 2%
1. Falsifying or 'cooking' research data	0.3	0.2	0.5	FFP. 5 2%
2. Ignoring major aspects of human-subject requirements	0.3	0.3	0.4	
 Not properly disclosing involvement in firms whose products are based on one's own research 	0.3	0.4	0.3	
 Relationships with students, research subjects or clients that may be interpreted as questionable 	14	1.3	1.4	QRP: < 33%
 Using another's ideas without obtaining permission or giving due credit. 	1.4	1.7	1.0	
 Unauthorized use of confidential information in connection with one's own research 	17	2.4	0.8 ***	at least once in the last
7. Failing to present data that contradict one's own previous research	6.0	6.5	5.3	3 years.
8. Circumventing certain minor aspects of human-subject requirements	7.6	9.0	6.0**	o jours.
 Overlooking others' use of flawed data or questionable interpretation of data 	12.5	12.2	12.8	and a state of the state of the
 Changing the design, methodology or results of a study in response to pressure from a funding source 	15.5	20.6	95	Coniero
Other behaviours				Seniors vs
11. Publishing the same data or results in two or more publications	4.7	5.9	3.4**	Juniors
12. Inappropriately assigning authorship credit	10.0	12.3	Z4 *** 89 **	JUDIOLS
13. Withholding details of methodology or results in papers or proposals 14. Using inadequate or inacorportiste research designs	10.8	12.4	12.2	ournord
 Using inadequate or inappropriate research designs Dropping observations or data points from analyses based on a gut 	153	14.0	12.2	Seniors lie more
feeling that they were inaccurate				Settions he more
16. In adequate record keeping related to research projects	275	27.7	27.3	

Martinson, B., Anderson, M. & de Vries, R. Scientists behaving badly. Nature 435, 737–738 (2005) DOI:10.1038/435737a

Part 4: Someone worried?









WORLD CONFERENCES ON RESEARCH INTEGRITY





WORLD CONFERENCES ON RESEARCH INTEGRITY

Singapore Statement on Research Integrity

Preamble. The value and benefits of research are vitally dependent on the integrity of research. While there can be and are national and disciplinary differences in the way research is organized and conducted, there are also principles and professional responsibilities that are fundamental to the integrity of research wherever it is undertaken.

PRINCIPLES

Honesty in all aspects of research Accountability in the conduct of research Professional courtesy and fairness in working with others Good stewardship of research on behalf of others

RESPONSIBILITIES

1. Integrity: Researchers should take responsibility for the trustworthiness of their research.

2. Adherence to Regulations: Researchers should be

10. Public Communication: Researchers should limit professional comments to their recognized expertise when engaged in public discussions about the application and importance of research findings and



UK Research Integrity Office

UKRIO



TUTKIMUSEETTINEN NEUVOTTELUKUNTA

FORSKNINGSETISKA DELEGATIONEN

FINNISH NATIONAL BOARD ON RESEARCH INTEGRITY TENK UK Research Integrity Office



UKRIO



TUTKIMUSEETTINEN NEUVOTTELUKUNTA

FORSKNINGSETISKA DELEGATIONEN

FINNISH NATIONAL BOARD ON RESEARCH INTEGRITY TENK UK Research Integrity Office



UKRIO

<text>

for Research Integrity stands for

TUTKIMUSEETTINEN NEUVOTTELUKUNTA

FORSKNINGSETISKA DELEGATIONEN

FINNISH NATIONAL BOARD ON RESEARCH INTEGRITY TENK



for Research Integrity stands for

objective

LUXEMBOURG AGENCY FOR RESEARCH INTEGRITY



About ENRIO

Members

Activities

Resources

Networks

Country **ENERI** Reports

ENRIO Congress

ENRIO European Network of **Research Integrity Offices**

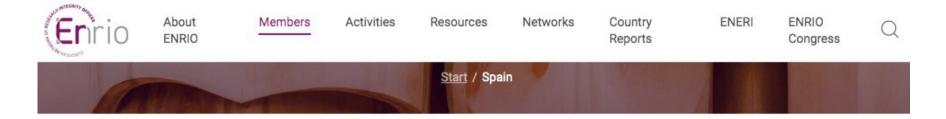
ENRIO brings together experts who are dealing with questions about research integrity.

More about ENRIO

000

We are ENRIO.

This presentation is downloadable from: http://bitly.com/CNIC22NOV19



76/84

Ethics Committee of the Spanish National Research Council (CSIC)

Founding year	2007
History	The Ethics Committee of the Spanish National Research Council (CSIC) was created by Royal Decree 1730/2007 as a permanent and advisory collegiate body tasked with reflecting, issuing reports and making recommendations on ethical principles concerning research. The Committee is not a decision making Body. The Operating Rules and the initial composition of the CSIC Ethics Committee were approved by CSIC Governing Board Resolution dated July 28, 2008. Since then, the Committee has been renewed once. Currently, the Committee has eleven members.
ENRIO member since	2011
Structure	Established by Royal Decree



77/84



Study at About the

Research at

Quick links

About EUR

Research Inte



Research Integrity

Strategy and policy

- > Strategy 2024
- Strategy 2014-2018
- Integrity
 - Professionalism
 - > Teamwork
 - > Fair play
 - Scientific Integrity

Integrity coordinators Dilemma game

- > Undesirable behaviour
- > Contact
- > Regulations and guidelines

Scientific Integrity

Strategy and policy

Within Erasmus University Rotterdam, everyone involved in education and research is responsible for maintaining our scientific integrity. Compliance with the general principles of a professional scientific approach is required at all times.

Integrity

78/84

Scientific Integrity

The Netherlands Code of Conduct for Scientific Practice elaborates these principles, which are also recognised by the EUR and apply as guidelines for the university.

- Netherlands Code of Conduct for Research Integrity [™]
- The complaints procedure is recorded in the <u>EUR Scientific Integrity</u> <u>complaints procedure</u>.
- The National Board for Research Integrity (<u>LOWI</u>[™]) advises on complaints relating to violations of scientific integrity. The LOWI only handles complaints about which the institute has already made a decision. (Regulations LOWI in Dutch only)

Scientific research confidential advisor

You can contact the scientific research confidential advisor, professor Patrick Groenen with questions concerning scientific integrity, suspicion of violation of scientific integrity or misconduct. The advisor can be reached via Riëtte te Lindert Msc,

secretary: coordinator.scientificintegrity@eur.nl of (010) 408 8805

The pursuit of excellent re

Summarizing

1) Scientists are people

Summarizing

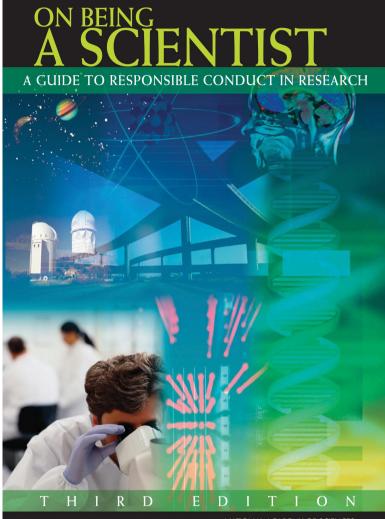
Scientists are people People lie

Summarizing

Scientists are people People lie Change is possible:

new generations + new education = new culture





I encourage you :)



NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF ENGINEERING, AND INSTITUTE OF MEDICINE OF THE NATIONAL ACADEMES video: https://youtu.be/fNMWd-AX42o

The scientific enterprise is built on a foundation of trust. Society trusts that scientific research results are an honest and accurate reflection of a researcher's work. Researchers equally trust that their colleagues have gathered data carefully, have used appropriate analytic and statistical techniques, have reported their results accurately, and have treated the work of other researchers with respect. When this trust is misplaced and the professional standards of science are violated, researchers are not just personally affronted—they feel that the base of their profession has been undermined. This would impact the relationship between science and society.

On Being a Scientist: A Guide to Responsible Conduct in Research presents

Thanks! aabrilru@gmail.com