

A word cloud in the shape of a large, stylized letter 'P'. The words are arranged in a circular pattern, with 'RESEARCH' and 'SCIENTIFIC' being the most prominent. Other words include 'TRUTH', 'INTEGRITY', 'TRUSTWORTHY', and 'RESEARCH'. The words are in various colors (brown, green, red, black) and orientations, creating a dynamic and visually engaging composition.

Chair

1

The pleasures and perils of scientific research



Credit and responsibility for scientific achievements

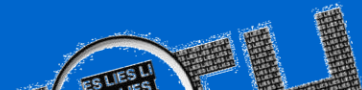


SCIENCE AND TRUTHFULNESS

- The only ethical principle which has made science possible is that the truth shall be told all the time.
- A false statement of fact, made deliberately, is the most serious crime a scientist can commit.



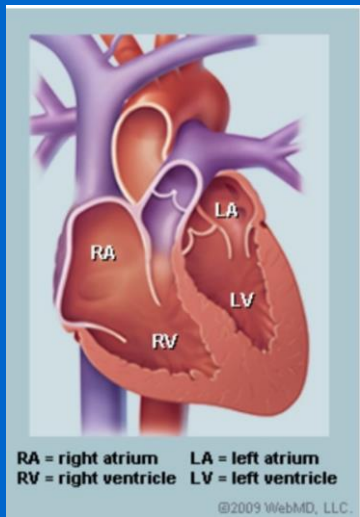
■ CP Snow. The Search



THE POWER OF RESEARCH:

“Studies have shown”





CARDIAC STEM CELLS (CSCs) RANDOMIZED TRIAL:

- ❖ Infusion of Cardiac Stem Cells increases heart's functional capacity, improves quality of life, and reduces size of heart scar
 - Results in substantial improvement in Left Ventricle systolic function
 - No adverse effects



Previous knowledge:

- ❖ Myocardial regeneration ceases at birth and cannot occur in adulthood





❖ Piero Anversa became legendary due to studies using cardiac stem cells to regrow the human heart



Home / News & Opinion

The Lancet Retracts Cardiac Stem Cell Clinical Trial Paper

The publication of the SCIPIO trial is among many by Piero Anversa's lab that Harvard Medical School flagged for fraudulent data.

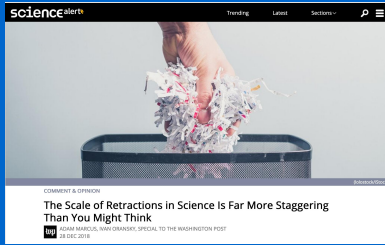
The publication of the SCIPIO trial is among many by Piero Anversa's lab that Harvard Medical School flagged for fraudulent data.

Mar 14, 2019
KERRY GRENS



1.3K

INTRODU

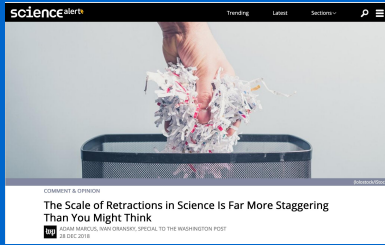


Fall from grace

❖ In 2017, Brigham and other hospitals had to pay the government US\$10 million to settle claims that Anversa and a colleague used bogus data to obtain their grant funding



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❖ In October 2018, Harvard Medical School and Brigham and Women's Hospital (Anversa's former institutions) asked journals to retract 31 of his lab's papers.



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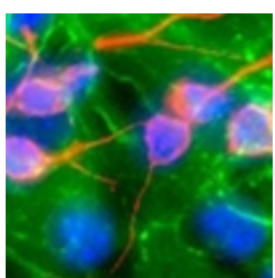
Call for 31 Anversa retractions by Harvard; heart stem cell concept broken? - The Niche

3-4 minutes



<https://ipscell.com/2018/10/call-for-31-anversa-retractions-by-harvard-heart-stem-cell-concept-broken/>





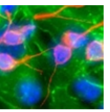
THE NICHE

KNOEPFLER LAB STEM CELL BLOG

Call for 31 Anversa retractions by Harvard; heart stem cell concept broken?

🕒 October 16, 2018 👤 Paul Knoepfler 📁 heart stem cell, retractions 💬 1





- ❖ Does this mean the end of the idea of endogenous adult heart stem cells?
- ❖ Where's the evidence that bone marrow cells could make heart cells
- ❖ How many millions of dollars of research funding have been wasted?
- ❖ How many patients have been put at risk unnecessarily?
- ❖ How many other researchers have been misled by the fake news?



New England Journal pulls one paper, probes two others from stem cell researcher

By ELIZABETH COONEY @cooney_liz / OCTOBER 17, 2018

- ❖ Several of Anversa's co-authors of the 2011 study "Evidence for human lung stem cells" asked the journal to retract their paper, citing an investigation by Harvard and the Brigham that concluded some of the images in the article were manipulated.

<https://www.statnews.com/2018/10/17/nejm-retract-stem-cell-anversa/>



New England Journal pulls one paper, probes two others from stem cell researcher

By ELIZABETH COONEY @cooney_liz / OCTOBER 17, 2018

❖ Investigation of Anversa's work at the Brigham found evidence consistent with fabrication of data and image manipulation

<https://www.statnews.com/2018/10/17/nejm-retract-stem-cell-anversa/>



New England Journal pulls one paper, probes two others from stem cell researcher

By ELIZABETH COONEY @cooney_liz / OCTOBER 17, 2018

- ❖ “Drs. Anversa and Leri stand by the scientific findings in their papers, including the existence and potential therapeutic benefits of cardiac stem cells.”
- ❖ Other research teams tried, but failed to reproduce results reported in Anversa’s papers

<https://www.statnews.com/2018/10/17/nejm-retract-stem-cell-anversa/>





❖ Outside investigators have found that these “c-kit positive” cells don’t have regenerative capabilities in adult rodent hearts.

<https://www.the-scientist.com/news-opinion/the-lancet-retracts-cardiac-stem-cell-clinical-trial-paper-65598>



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(lolostock/iStock)

COMMENT & OPINION

The Scale of Retractions in Science Is Far More Staggering Than You Might Think



ADAM MARCUS, IVAN ORANSKY, SPECIAL TO THE WASHINGTON POST
28 DEC 2018



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Opinion | More science than you think is retracted. Even more should be.

By Adam Marcus and Ivan Oransky December 26, 2018

❖ Columbia University settled a “fake news” case for \$9.5 million in 2016.



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https://www.washingtonpost.com/opinions/more-science-than-you-think-is-retracted-even-more-should-be/2018/12/26/dc14fa98-0950-11e9-a3f0-71c95106d96a_story.html

News

Duke University pays \$112m to settle claims that it knowingly used falsified data to obtain research grants

BMJ 2019 ; 364 doi: <https://doi.org/10.1136/bmj.l1422> (Published 27 March 2019)

Cite this as: BMJ 2019;364:l1422

Article Related content Metrics Responses

Owen Dyer

❖ Duke University in North Carolina will pay \$112.5m to settle allegations it allowed fraudulent data to be used in federal research grant claims.

❖ In 2013, research coordinator Erin Potts-Kant at Duke's Foster Lab, was arrested for spending the laboratory's research budget on internet purchases.

<https://www.bmj.com/content/364/bmj.l1422>



Science

conferences.

A scientist's fraudulent studies put patients at risk

By [Adam Marcus](#), Retraction Watch



SCIENTIFIC FAKE NEWS MISLEADS SCIENTISTS!

❖ Primary Prevention of Cardiovascular Disease with a Mediterranean Diet. N Engl J Med April 4, 2013 (Retracted in 2018)

❖ **2150 Citations!**

Conclusion

❖ Mediterranean diet, plus extra-virgin olive oil or nuts, results in substantial reduction in the risk of major cardiovascular events



SCIENTIFIC FAKE NEWS MISLEADS SCIENTISTS!

- ❖ Cardiac stem cells in patients with ischaemic cardiomyopathy (SCIPIO): initial results of a randomised phase 1 trial. LANCET, NOV 2011 (Retracted in 2019)

Conclusion

- ❖ Infusion of Cardiac Stem Cells led to increased heart function, improved quality of life, and reduced LV scar size

❖ 906 Citations!



SCIENTIFIC FAKE NEWS MISLEADS SCIENTISTS!

❖ Spontaneous human
adult stem cell
transformation. CANCER
RESEARCH, APR 15 2005
(Retracted in 2010)

Conclusion

❖ “Mutant stem cells may
lead to cancer”

❖ 742 Citations!



TOP 10 RETRACTED AUTHORS

Yoshitaka Fujii,

Japan

169

Joachim Boldt,

Germany

96

Die

Ne

Chen-yuan Peter

Chen, Taiwan

43

Yoshihiro Sato,

Japan

43

Hua Zhong, China

41

Shigeaki Kato,

Japan

39

DO YOU WANT TO SEE YOUR
NAME ON THIS LIST?

Hyung-in Moon,

South Korea

35

Jan Hendrik Schön,

United States

32



Credit and RESPONSIBILITY for scientific achievements

JOINT RESPONSIBILITY

CULTURE OF INTEGRITY



HAVE A NICE DAY!

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