



# HOW DO YOU SOLVE A PROBLEM LIKE **SCHOLARLY** PEER REVIEW?



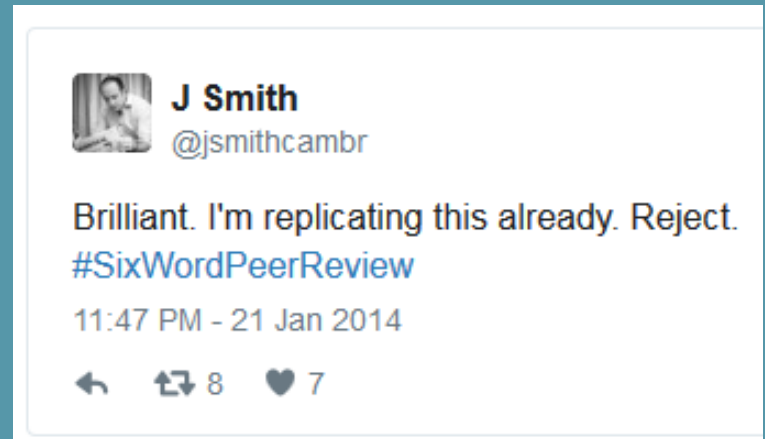
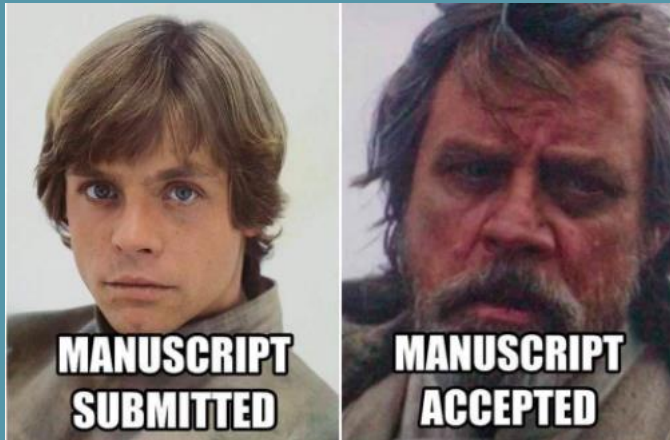




# TODAY

- Strengths
- Weaknesses
- Considerations
  - Research
  - Teaching

# PEER REVIEW BASHING





# DEFINITIONS

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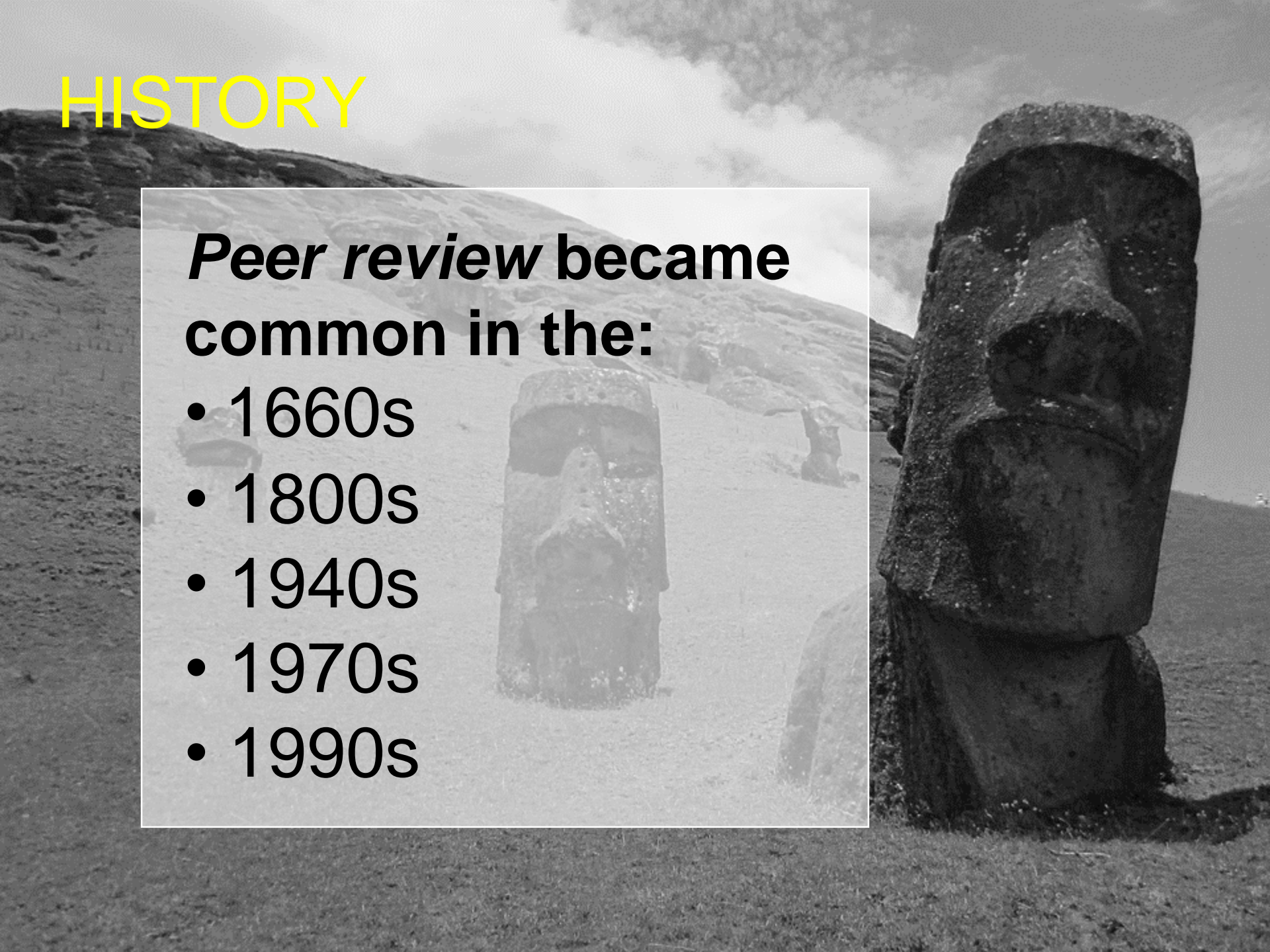
## PEER REVIEW



# HISTORY

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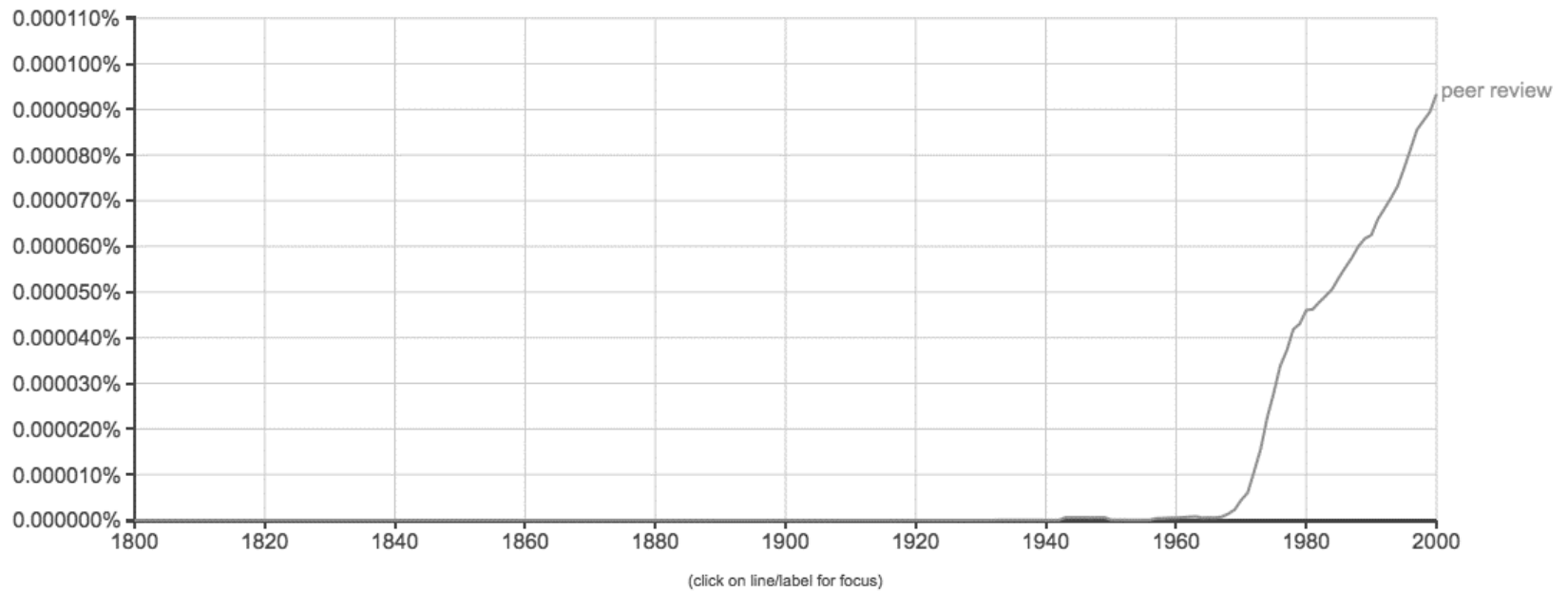
- 1660s
- 1800s
- 1940s
- 1970s
- 1990s



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between  and  from the corpus  with smoothing of



# STRENGTHS

A black and white photograph of a statue of a man on a horse, likely a historical figure, with three text boxes overlaid. The statue is shown from the chest up, facing right. The horse's head is in the foreground, and the man's face is in profile. The background is a cloudy sky.

Enriches Work

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Separates the Wheat from the Chaff



# WEAKNESSES



Reviewer Bias / Fallibility

Slows Down Science

Poorly Executed

Everything Gets Published Eventually...



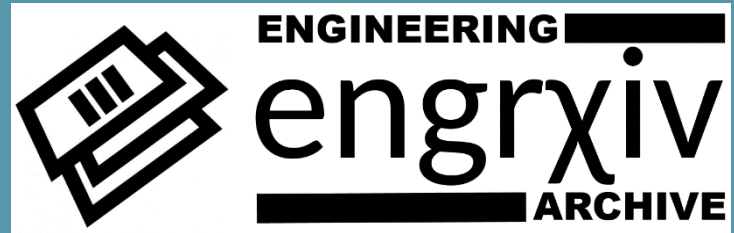
# RESEARCH

# CONSIDERATIONS

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OPINION ARTICLE

**Surgical education and adult learning: Integrating theory into practice [version 1; referees: 3 approved]**

Prem Rashid

Author affiliations

Grant information

**Abstract**

Surgical education continues to evolve from the master-apprentice model. Newer methods of the process need to be used to manage the dual challenges of educating while providing safe surgical care. This requires integrating adult learning concepts into delivery of practical training and education in busy clinical environments. A narrative review aimed at outlining and integrating adult learning and surgical education theory was undertaken. Additionally, this information was used to relate the practical delivery of surgical training and education in day-to-day surgical practice. Concepts were sourced from reference material. Additional material was found using a PubMed search of the words: 'surgical education theory' and 'adult learning theory medical'. This yielded 1351 abstracts, of which 43 articles with a focus on key concepts in adult education theory were used. Key papers were used to formulate structure and additional cross-referenced papers were included where appropriate. Current concepts within adult learning have a lot to offer when considering how to better deliver surgical education and training. Better integration of adult learning theory can be fruitful. Individual teaching surgical units need to rethink their paradigms and consider how each individual can contribute to the education experience. Up skilling courses for trainers can do much to improve the delivery of surgical education. Understanding adult learning concepts and integrating these into day-to-day teaching can be valuable.

Corresponding author: Prem Rashid

How to cite: Rashid P. Surgical education and adult learning: Integrating theory into practice [version 1;

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Version(s)	1	2	3
Version 1 published 14 Feb 2017	✓ read report	✓ read report	✓ read report

Version 1

Referee Report 08 Mar 2017

Matthew Winter, Gosford District Hospital, Gosford, NSW, Australia

✓ Approved

A very useful contribution to the literature to engage both supervisors and trainees alike. This paper addresses the importance of critically analysing our approach to surgical education and training while focusing on the theories of adult learning to guide such ... [Continue reading](#)

REPORT A CONCERN

Respond or Comment

Referee Report 07 Mar 2017

Mohan Arianayagam, Nepean Private Hospital, Sydney, NSW, Australia

✓ Approved

This is a well written and well researched piece on surgical education. The article reviews current educational theory which is certainly very useful for a surgical audience and also highlights the challenges of teaching in a busy surgical service and ... [Continue reading](#)

REPORT A CONCERN

Source: <https://f1000research.com/articles/6-143/v1>

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TEACHING

CONSIDERATIONS

# Investigate Retracted Articles

## Retraction Watch

Tracking retractions as a window into the scientific process

### Search Results

#### Top 10 most highly cited retracted papers

without comments

Ever curious which retracted papers have been most cited by other scientists? Below, we present the list of the 10 most highly cited retractions. Readers will see some familiar entries, such as the infamous *Lancet* paper by Andrew Wakefield that [originally suggested a link between autism and childhood vaccines](#). You'll note that many papers — including the #1 most cited paper — received more citations after they were retracted, which [research has shown is an ongoing problem](#). As always, we will update the list as more information comes to light.

Article	Year of retraction	Cites before retraction	Cites after retraction	Total cites from journals indexed by Web of Science
<b>1. <a href="#">Visfatin: A protein secreted by visceral fat that mimics the effects of insulin</a>. SCIENCE, JAN 21 2005</b>				
<i>Fukuhara A, Matsuda M, Nishizawa M, Segawa K, Tanaka M, Kishimoto K, Matsuki Y, Murakami M, Ichisaka T, Murakami H, Watanabe E, Takagi T, Akiyoshi M, Ohtsubo T, Kihara S, Yamashita S, Makishima M, Funahashi T, Yamanaka S, Hiramatsu R, Matsuzawa Y, Shimomura I.</i>	<a href="#">2007</a>	247	776	1023
<b>2. <a href="#">Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children</a>. LANCET, FEB 28 1998</b>				
<i>Wakefield AJ, Murch SH, Anthony A, Linnell J, Casson DM, Malik M, Berelowitz M, Dhillon AP, Thomson MA, Harvey P, Valentine A, Davies SE, Walker-Smith JA.</i>	<a href="#">2010</a>	675	308	983

Source: <http://retractionwatch.com>

## BMC Evolutionary Biology



Software

Open Access

### TREEFINDER: a powerful graphical analysis environment for molecular phylogenetics

Gangolf Jobb\*<sup>1</sup>, Arndt von Haeseler<sup>2,3</sup> and Korbinian Strimmer<sup>1</sup>

Address: <sup>1</sup>Department of Statistics, University of Munich, Ludwigstr. 33, D-80539 Munich, Germany, <sup>2</sup>Department of Computer Science, University of Dusseldorf, Universitätsstr. 1, D-40225 Dusseldorf, Germany and <sup>3</sup>John von Neumann Institute for Computing, Forschungszentrum Jülich, D-52425 Jülich, Germany

Email: Gangolf Jobb\* - [gangolf@treefinder.de](mailto:gangolf@treefinder.de); Arndt von Haeseler - [haeseler@cs.uni-duesseldorf.de](mailto:haeseler@cs.uni-duesseldorf.de); Korbinian Strimmer - [strimmer@stat.uni-muenchen.de](mailto:strimmer@stat.uni-muenchen.de)

\* Corresponding author

Published: 28 June 2004

Received: 16 March 2004

BMC Evolutionary Biology 2004, 4:18 doi:10.1186/1471-2148-4-18

Accepted: 28 June 2004

This article is available from: <http://www.biomedcentral.com/1471-2148/4/18>

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#### Abstract

**Background:** Most analysis programs for inferring molecular phylogenies are difficult to use, in particular for researchers with little programming experience.

**Results:** TREEFINDER is an easy-to-use integrative platform-independent analysis environment for molecular phylogenetics. In this paper the main features of TREEFINDER (version of April 2004) are described. TREEFINDER is written in ANSI C and Java and implements powerful statistical approaches for inferring gene tree and related analyses. In addition, it provides a user-friendly graphical interface and a phylogenetic programming language.

**Conclusions:** TREEFINDER is a versatile framework for analyzing phylogenetic data across different platforms that is suited both for exploratory as well as advanced studies.

#### Background

Computational inference of molecular phylogenies has a wide spectrum of applications in the analysis of DNA sequences, ranging from systematic biology to population genetics and comparative genomics [1].

As a result, a large body of theoretical methodology has developed [2], along with numerous specialist software packages. However, often the most advanced of these computer programs typically provide only a very Spartan user interface and hence are too difficult to use without additional training, especially for novices in phylogeny. One notable exception is the popular commercially distributed PAUP\* software [3] that implements both powerful probabilistic methods for modeling and inferring gene trees and at the same time offers a friendly graphical

user interface (GUI). Unfortunately, this GUI is currently available only on the Macintosh platform.

On the other hand, a more experienced user will quickly outgrow the limits of a graphical user interface. Consequently, to facilitate complex sequence analysis corresponding scripting languages have been developed. For example, in PAUP\* all elements of its GUI can also be invoked on the command line. However, for the rapid deployment of specialized phylogenetic analysis tools one still needs the additional flexibility of a programming rather than scripting language.

Therefore, in an integrative general-purpose phylogenetic analysis environment ideally several complementary objectives are taken into account:

Source: DOI: 10.1186/1471-2148-4-18



# Compare Pre-, Post-, & Final Versions

The image displays three versions of an article titled "How Troubling is our Inheritance - A review of genetics and race in the social sciences" by Philip Cohen.

**Left Panel (Preprint):** The article is hosted on SocArXiv Preprints. The title is "How Troubling is our Inheritance - A review of genetics and race in the social sciences" by Philip Cohen. It was added on July 13, 2016, and last edited on July 13, 2016. The article text is visible, starting with "Most social scientists who study race discount the possibility that racial biology plays a major role in the determination of social behavior and inequality. However, the foundation for this consensus may be weak. There is no firm evidence to support the importance of racial biology, and the notion is widely associated with racism, which makes the question of whether racial biology influences social behavior and inequality seem both tangential and tainted by stigma. This, along with their (our) lack of training in and interaction with biological sciences, presumably discourages social scientists from concerning themselves with the biology of race. One consequence of this avoidance is that the field is thin and relatively open. As genomic science progresses, it creates opportunities for discovery and exploration, but also for misappropriation and manipulation by scientific racists (Ossorio and Duster 2005). In this article I address a question that frames this issue, namely, is there variation between races in the biological basis for social behavior? After outlining my perspective in the introduction, I explore one approach, that of science writer Nicholas Wade in his 2014 book, *A Troublesome Inheritance: Genes, Race and Human History*. I conclude with some implications of this approach for social science research."


**Middle Panel (Postprint):** The article is hosted on SAGE journals. The title is "How Troubling Is Our Inheritance? A Review of Genetics and Race in the Social Sciences" by Philip N. Cohen. It was first published on August 10, 2015. The article text is visible, starting with "This article addresses the argument that there is variation between races in the biological basis for social behavior. The article uses Nicholas Wade's popular book, *A Troublesome Inheritance*, as the point of departure for a discussion of attendant issues, including the extent to which human races can be definitively demarcated biologically, the extent to which genetics is related to contemporary definitions of race, and the role of natural selection as a possible mechanism for change in modern societies. My critical review of the theory and evidence for an evolutionary view of racial determinism finds that genetics does not explain the relative status and well-being of


**Right Panel (Final Version):** The article is hosted on SAGE journals. The title is "How Troubling Is Our Inheritance? A Review of Genetics and Race in the Social Sciences" by Philip N. Cohen. It was first published on August 10, 2015. The article text is visible, starting with "This article addresses the argument that there is variation between races in the biological basis for social behavior. The article uses Nicholas Wade's popular book, *A Troublesome Inheritance*, as the point of departure for a discussion of attendant issues, including the extent to which human races can be definitively demarcated biologically, the extent to which genetics is related to contemporary definitions of race, and the role of natural selection as a possible mechanism for change in modern societies. My critical review of the theory and evidence for an evolutionary view of racial determinism finds that genetics does not explain the relative status and well-being of

Source: <https://osf.io/preprints/socarxiv/mvvhkc>

Source: <https://doi.org/10.1177/0002716215587673>

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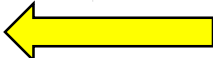
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## Association between blood lead and blood pressure: a population-based study in Brazilian adults

Ana Carolina Bertin de Almeida Lopes, Ellen Kovner Silbergeld, Ana Navas-Acien, Rachel Zamoiski, Ailton da Cunha Martins Jr., Alissana Ester Iakmiu Camargo, Mariana Ragassi Urbano, Arthur Eumann Mesas and Monica Maria Bastos Paoliello

*Environmental Health* 2017 16:27 | DOI: 10.1186/s12940-017-0233-5 | © The Author(s). 2017  
Received: 9 July 2016 | Accepted: 3 March 2017 | Published: 14 March 2017



 [Open Peer Review reports](#) 

### Abstract

#### Background


Environmental lead exposure among adults may increase blood pressure and elevate the risk of hypertension. The availability of data on blood lead levels (BLL) in adult Brazilian population is scarce and population-based studies are important for screening the population exposure and also to evaluate associations with adverse health effects. The goal of this study was to examine the association of BLL with blood pressure and hypertension in a population-based study in a city in Southern Brazil.

Source: DOI: 10.1186/s12940-017-0233-5

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## Habitat and social factors shape individual decisions and emergent group structure during baboon collective movement

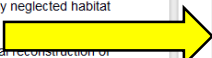
Ariana Strandburg-Peshkin , Damien R Farine, Margaret C Crofoot, Iain D Couzin


Princeton University, United States; Max Planck Institute for Ornithology, Germany; University of Konstanz, Germany; University of Oxford, United Kingdom; University of California, Davis, United States; Smithsonian Tropical Research Institute, Panama

DOI: <http://dx.doi.org/10.7554/eLife.19505>  
Published January 31, 2017  
Cite as eLife 2017;6:e19505

### 1-1 Abstract

For group-living animals traveling through heterogeneous landscapes, collective movement can be influenced by both habitat structure and social interactions. Yet research in collective behavior has largely neglected habitat influences on movement. Here we integrate simultaneous tracking of wild baboons within a troop with a 3-dimensional reconstruction of their habitat to identify key drivers of baboon movement. A previously unexplored social influence – baboons' preference for locations that other



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OPINION ARTICLE

Surgical education and adult learning: Integrating theory into practice [version 1; referees: 3 approved]

Prem Rashid

Author affiliations

Grant information

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Surgical education continues to evolve from the master-apprentice model. Newer methods of the process need to be used to manage the dual challenges of educating while providing safe surgical care. This requires integrating adult learning concepts into delivery of practical training and education in busy clinical environments. A narrative review aimed at outlining and integrating adult learning and surgical education theory was undertaken. Additionally, this information was used to relate the practical delivery of surgical training and education in day-to-day surgical practice. Concepts were sourced from reference material. Additional material was found using a PubMed search of the words: 'surgical education theory' and 'adult learning theory medical'. This yielded 1351 abstracts, of which 43 articles with a focus on key concepts in adult education theory were used. Key papers were used to formulate structure and additional cross-referenced included where appropriate. Current concepts within adult learning have a lot to offer when considering how to better deliver surgical education and training. Better integration of adult learning theory can be fruitful. Individual teaching surgical units need to rethink their paradigms and consider how each individual can contribute to the education experience. Up skilling courses for trainers can do much to improve the delivery of surgical education. Understanding adult learning concepts and integrating these into day-to-day teaching can be valuable.

Corresponding author: Prem Rashid

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1 Kathryn Rzetelski-West, West Coast Urology, Australia

2 Mohan Arianayagalingam, Nepean Private Hospital, Australia

3 Matthew Winter, St George's District Hospital, Australia

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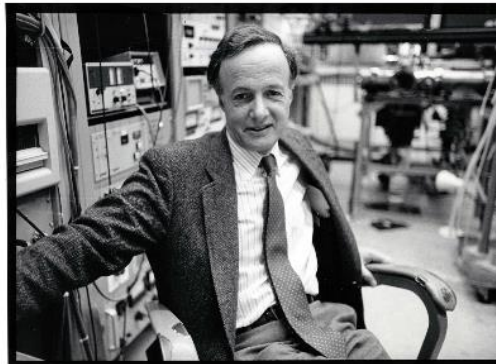
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# Discuss Rejection

6. Nobel Prize in Chemistry (1986) awarded to John Polanyi for: elucidating the dynamics of chemical elementary processes.

**Rejection:** "*Physical Review Letters* rejected the paper as lacking scientific interest. Shortly thereafter they rejected T. Maiman's report of the first operating laser, on the same grounds. Polanyi read about this second rejection, quite by chance, while holidaying on an island in Georgian Bay. On returning to Toronto in September of 1960 he submitted the identical manuscript to the *Journal of Chemical Physics*, where it was promptly published."



John Polanyi, Image from Steven Behal (1968)



QUESTIONS?



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- Why peer review needs a good going over  
<https://www.theguardian.com/higher-education-network/2015/oct/28/why-peer-review-needs-a-good-going-over>