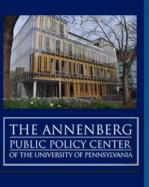


## Communicating Science About Topics Under National Discussion

Kathleen Hall Jamieson

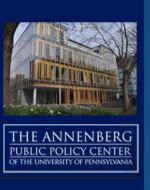
August 9, 2016

Kathleen Hall Jamieson



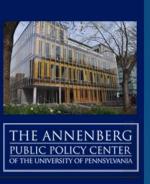
# How can we increase the likelihood that science findings will reach and be accepted by relevant audiences?

Kathleen Hall Jamieson



- 1. Press coverage doesn't necessarily yield public recall
- 2. Press releases can distort, confuse or reinforce findings
- 3. Effective release is accurate and translates into consistent headlines
- 4. Accuracy and use of knowledge, not number of hits, are what matters
- 5. Universities should police their releases

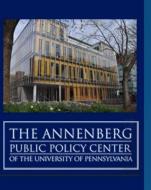
Kathleen Hall Jamieso



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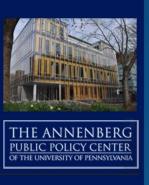


## Press coverage doesn't necessarily yield public recall

Despite extensive publicity of May 17, 2016
 NASEM GE report, only 18% were aware of its existence in May APPC national survey

Despite extensive publicity of June 8, 2016
 NASEM gene drive report, only 2% were aware of it in June APPC national survey

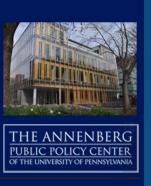
Kathleen Hall Jamieso



## Press coverage doesn't necessarily yield public recall

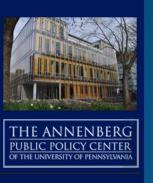
- For comparison: the week after the 2 major party conventions (7/29-8/1/2016)
  - 40% could name Pence as Trump's running mate
  - 39% could name Kaine as Clinton's running mate
  - 92% could name Clinton as Dem. nominee
  - 91% could name Trump as Rep. nominee

Kathleen Hall Jamieso



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- 5. Universities should police their releases

Kathleen Hall Jamieso



## Press releases can distort (hype), confuse or reinforce findings

- Press releases need to:
  - a) Be accurate and focused
  - b) Clearly communicate central consequential findings

Kathleen Hall Jamieson



**Kathleen Hall Jamieson** 

Annenberg
Public Policy Center





BMJ 2014;349:g7015 doi: 10.1136/bmj.g7015 (Published 9 December 2014)

Page 1 of 8

#### RESEARCH

### The association between exaggeration in health related science news and academic press releases: retrospective observational study

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Petroc Sumner professor<sup>12</sup>, Solveiga Vivian-Griffiths research assistant<sup>12</sup>, Jacky Boivin professor<sup>2</sup>, Andy Williams Iecturer<sup>2</sup>, Christos A Venetis senior Iecturer<sup>4</sup>, Aimée Davies research assistant<sup>2</sup>, Jack Ogden research assistant<sup>2</sup>, Leanne Whelan research assistant<sup>2</sup>, Bethan Hughes research assistant<sup>2</sup>, Fred Boy senior Iecturer<sup>5</sup>, Christopher D Chambers professor<sup>12</sup>

Card III University Brain Research Imaging Centre, School of Psychology, Card III University, Card III CF1 9.3.T, UK, "School of Psychology, Card III CF1 9.3.T, UK, "School of University, UK, "School of University of

#### Abstrac

Objective To identify the source (press releases or news) of distortions, exaggerations, or changes to the main conclusions drawn from research that could potentially influence a reader's health related behaviour.

Design Retrospective quantitative content analysis.

Setting Journal articles, press releases, and related news, with accompanying simulations.

Sample Press releases (n=462) on biomedical and health related science issued by 20 leading UK universities in 2011, alongside their associated peer reviewed research papers and news stories (n=668).

Main outcome measures Advice to readers to change behaviour, causal statements drawn from correlational research, and inference to humans from animal research that went beyond those in the associated peer reviewed papers.

Results 40% (0%) confidence interval 33% to 46%) of the press releases contained engagerated advice, 35% (26%) 64 40%) contained engagerated advice, 35% (26%) 64 40% (contained engagerated interview to humans from animal research. When press releases contained such consequential confidence (60%) confidence interview to humans from animal research. When press releases contained such engageration, 60% (60%) confidence interval 46% to 60%), 31% (70% confidence interval 46%) to 60%), 31% (70% confidence interval 46%) to 60%), 31% (70% confidence interval 46%) to 60% (60%) confidence interval 46% to 60%), 31% (70% confidence interval 46%) to 60% (60%) to 60% to 60% to 60% to 60% to 60%).

and 56 (15 to 211). At the same time, there was little evidence that exaggeration in press releases increased the uptake of news.

Conclusions Exaggeration in news is strongly associated with

Conclusions Exaggeration in news is strongly associated with exaggeration in press releases. Improving the accuracy of academic press releases could represent a key opportunity for reducing misleading health related news.

#### Introduction

The firming of health related information in the national and international media, and the way in which audiences decode it, has complex and potentially powerful that complex can be officially a support of the control of the contro

"Information subsidies" such as university press releases have long been used to deliver sallent aspects of selected research, 1" and as journalists are increasingly expected to produce more copy in less time" 1" these press releases have become the dominant link between enachemia and the media. 1" As such.

 $Correspondence \ to: P\ Summer \ or \ C\ D\ Chambers\ sumnerp@cardiff.ac.uk\ or\ chambersc1@cardiff.ac.uk$ 

Extra material supplied by the author (see http://www.bmj.com/content/349/bmj.g7015?tab=related#datasupp) Supplementary information

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## Distort (hype) in releases

Sumner et al. (2014) reviewed 462 biomedical & health related press releases issued by 20 leading UK universities in 2011

- Sumner, Vivian-Grittiths, Boivin, et al.

BMJ, 2014



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BMJ 2014;349;q7015 doi: 10.1136/bmi.q7015 (Published 9 December 2014)

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Results 4/%, 195%, confidence interval 33% to 144%) of the press refuses to contained ranges and afver, 33%, 195%, 044%) contained segagarized afver, 33%, 195%, 044%) contained segagarized causal disms, and 39%, 29% to 48%) contained segagarized inference to humans from ammire research. When press refuses contained such exaggarized no. 99%, (50% confidence interval 447% to 89%), 81%, 195

and 66 (15 to 211). At the same time, there was little evidence that exaggeration in press releases increased the uptake of news.

Conclusions Exaggeration in news is strongly associated with exaggeration in press releases. Improving the accuracy of academic press releases could recrease it ake consolutin for precision an ideading.

#### health related news.

The framing of health related information in the national and international media, and the way in which audiences decode it, has complex and potentially powerful impacts on healthcare utilisation and other health related behaviour in many countries. "The media also demonstrably influences the behaviour of scientists and doctores." Such impacts may often behaviour of scientists and doctores." Such impacts may often behaviour of scientists and doctores." Such impacts may often behaviour of scientists pay be difficult to predict and prove because the responses of audiences are complex and multiply determined.). This problem is not restricted to rare dramatic cases such as vaccination scares? I'the cumulative effect of everyday misreporting can confuse and erode public trust in science and medicine, with detrimental consequences." "Information subsidies" such as university press releases have

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Supplementary information

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## Distort (hype) in releases

"40% (95% confidence interval 33% to 46%) of the press releases contained exaggerated advice"

- "33% (26% to 40%) contained exaggerated causal claims"
- "36% (28% to 46%) contained exaggerated inference to humans from animal research"

- Sumner, Vivian-Grittiths, Boivin, et al.

BMJ, 2014



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Annenberg
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## Distort (hype) in releases

"When press releases contained such exaggeration, 58% (95% confidence interval 48% to 68%), 81% (70% to 93%), and 86% (77% to 95%) of news stories, respectively, contained similar exaggeration"

- Sumner, Vivian-Grittiths, Boivin, et al.

BMJ, 2014



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### Distort (hype) in releases

Brechman, Lee, and Capella (2009) examined 23 press releases about genetic research on cancer outcomes/behaviors and 71 related news items

> - Brechman, Lee, and Cappella Science Communication, 2009

**Kathleen Hall Jamieson** 

**Annenberg** 

**Public Policy Center** 

#### **Lost in Translation?**

Science Communication Volume 30 Number 4 June 2009 453-474 © 2009 SAGE Publications 10.1177/1075547009332649 nttp://scx.sagepub.com http://online.sagepub.com

A Comparison of Cancer-Genetics Reporting in the Press Release and Its Subsequent Coverage in the Press

Jean Brechman Chul-joo Lee Joseph N. Cappella University of Pennsylvania, Philadelphia

Understanding how genetic science is communicated to the lay public is of great import. To address this issue, this study examines the presentation of genetic research relating to cancer outcomes and behaviors (i.e., prostate cancer, breast cancer, colon cancer, smoking and obesity) in both the press release (n = 23) and its subsequent news coverage (n = 71). Data suggest that genetic discoveries are presented in a biologically deterministic and simplified manner 67.5% of the time. The introduction of deterministic language is attributed equally to both press releases and news coverage. Also, there are substantive differences between content introduced in the press release and content presented in subsequent press coverage; in fact, when two sources report on the same scientific discovery, the information is inconsistent more than 40% of the time. These findings suggest that the intermediary press release may serve as a source of distortion in the dissemination of science to the lav public.

Keywords: genetics; press release; lay press; science communication; science journalism

Inderstanding how science is communicated to the lay public is of great import given its impact on matters of both personal and public health (Friedman, Dunwoody, & Rogers, 1999; Lee & Scheufele, 2006; Logan,

Authors' Note: This study was made possible by Grant 5P50CA095856-05, Effects of Public Information in Cancer, Center of Excellence in Cancer Communication Research, from the National Cancer Institute. Its contents are solely the responsibility of the authors. Correspondence concerning this article should be addressed to Jean Brechman, Annenberg School for Communication, University of Pennsylvania, Philadelphia, PA; e-mail: jbrechman @asc.upenn.edu.



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Volume 30 Number 4 June 2009 453-474 © 2009 SAGE Publications 10.1177/1075547009332649 http://scx.sagepub.com hosted at http://online.sagepub.com

Science Communication

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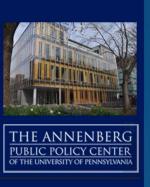
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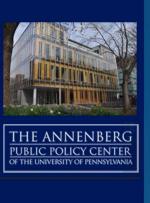
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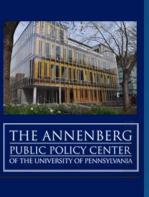
Did the press releases on these studies translate into clear, consistent headlines?

a) APPC gun violence in movies (Nov. 2013)

b) NASEM gene drive report (June 2016)

c) NASEM GE report (May 2016)

Kathleen Hall Jamieso Annenberg Public Policy Center



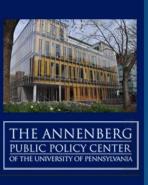
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Kathleen Hall Jamieson



Principle: Effective release is accurate and translates into clear, consistent headlines

 Did the November 2013 releases by <u>Pediatrics</u> and APPC on the "Gun Violence Trends in Movies" report pass this test?

Kathleen Hall Jamieson



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## American Academy of Pediatrics press release

Posted online and sent to the journal's contacts

**Kathleen Hall Jamieson** 

**Annenberg Public Policy Center**  - American Academy of Pediatrics Nov. 11 2013

#### American Academy of Pediatrics

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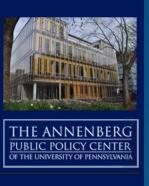
Help/Feedback

#### Gun Violence has Tripled in PG-13 Movies

11/11/2013 For Release: November 11, 2013

A study in Pediatrics has found violence in films has more than doubled since 1950, and the presence of gun violence in PG-13-rated films has more than tripled since the rating was introduced in 1985. The study, "Gun Violence Trends in Movies," in the December 2013 Pediatrics (published online Nov. 11), analyzed a sample of the top-grossing films for each of the years from 1950 to 2012. Trained analysts coded each film for the presence of violence and guns during each 5-minute segment of the movie. Researchers found an overall annual increase in gun violence from 1985 to 2012, but the trend differed by movie rating. Among films rated G and PG, gun violence decreased slightly. The rate of gun violence did not change for R-rated movies. Among films rated PG-13, gun violence increased. and since 2009 PG-13 movies have contained as much or more violence than R-rated movies. The study authors conclude that even if youth do not use guns, because of the increasing popularity of PG-13 movies, they are exposed to considerable gun portraval and violence, which may increase their aggressive behavior

The American Academy of Pediatrics is an organization of 60,000 primary care pediatricians, pediatric medical subspecialists and pediatric surgical specialists dedicated to the health, safety and well-being of infants, children, adolescents and young adults. For more information, visit www.aap.org.



## American Academy of Pediatrics press release

• HEADLINE: Gun Violence has Tripled in PG-13 Movies

1<sup>ST</sup> SENTENCES: "A study in Pediatrics has found violence in films has more than doubled since 1950, and the presence of gun violence in PG-13-rated films has more than tripled since the rating was introduced in 1985. The study, "Gun Violence Trends in Movies," in the December 2013 Pediatrics (published online Nov. 11), analyzed a sample of the top-grossing films for each of the years from 1950 to 2012."

Kathleen Hall Jamieso

Annenberg Public Policy Center

- American Academy of Pediatrics, Nov. 11, 2013



### APPC press release

 Posted online, sent to contacts, and disseminated via PR Newswire

Kathleen Hall Jamieson

Annenberg
Public Policy Center

- Annenberg Public Policy Center Nov. 11, 2013



FOR IMMEDIATE RELEASE November 11, 2013

CONTACT: Michael Rozansky, 215-746-0202, mrozansky@asc.upenn.edu

#### More gun violence seen in top-grossing PG-13 movies than in biggest R-rated films

Movie violence has more than doubled since 1950

PHILADELPHIA – The amount of gun violence in the top-grossing PG-13 movies has more than tripled since 1985, and in 2012 it exceeded the gun violence in the top-grossing R-rated movies, according to researchers at the Annenberg Public Policy Center and the Ohio State University.

The overall rate of violence in the biggest box-office movies has more than doubled since 1950, the researchers report in a new study.

The study, "Gun Violence Trends in Movies," published in the December issue of Pediatrics (online publication Nov. 11), shows that in 1985, the first full year of the PG-13 rating, the amount of gun violence in popular PG-13 movies was similar to that in movies rated G and PG. Since then, the gun violence in PG-13 movies has grown, and since 2009 it has rivaled the level of gun violence in R-rated movies.

"It's disturbing that PG-13 movies are filled with so much gun violence," said Dan Romer, director of the Adolescent Communication Institute of the Annenberg Public Policy Center (APPC) and a co-author of the study. "We know that movies teach children how adults behave, and they make gun use appear exciting and attractive."

The dramatic growth of gun violence in movies aimed at younger viewers is especially troubling, the researchers said, because of the "weapons effect," a finding that just the sight or depiction of a gun can make people behave more aggressively. "Because of the increasing popularity of PG-13 films, youth are exposed to considerable gun violence in movie scripts," the researchers said in the study. "The mere presence of guns in these films may increase the aggressive behavior of youth."

A G rating is "all ages admitted." PG means "parental guidance suggested" for young children. PG-13 stands for "parents strongly cautioned" for children under 13. R stands for "restricted," and children under age 17 must be accompanied by a parent or adult guardian.

By definition, a PG-13 movie is supposed to have less violence than an R-rated movie. The Motion Picture Association of America says on its website that the violence in a PG-13 movie "does not reach the restricted R category." This study shows that it does.





## APPC press release

 HEADLINE: More gun violence in top PG-13 movies than in biggest R-rated films

• 1<sup>ST</sup> SENTENCES: "The amount of gun violence in the topgrossing PG-13 movies has more than tripled since 1985, and in 2012 it exceeded the gun violence in the top-grossing R-rated movies, according to researchers at the Annenberg Public Policy Center and the Ohio State University. The overall rate of violence in the biggest box-office movies has more than doubled since 1950, the researchers report in a new study."

Kathleen Hall Jamieson

Annenberg
Public Policy Center

- Annenberg Public Policy Center, Nov. 11, 2013





#### **Kathleen Hall Jamieson**

Annenberg
Public Policy Center

### Coverage of gun violence study included:

### TV/cable/radio

- ABC's "World News with Diane Sawyer"
- "Good Morning America"
- CNN
- NPR
- CBS News
- FOX News
- NBC News

#### **International**

- Mirror UK
- Malta Today
- Agence France-Presse
- The Guardian

### **Print/online**

- Associate Press
- New York Times
- Los Angeles Times
- Wall Street Journal
- Washington Post
- TIME

#### Independent/advocacy sites & blogs

- Think Progress
- Screen Daily (UK)
- A.V. Club
- MyBrownBaby (parenting blog)



**Kathleen Hall Jamieson** 

**Annenberg Public Policy Center** 

## Los Angeles Times Ilines

the college student thought. they were after his cellphone, or maybe the ear. Then the men told them to

Almost all private rars in this shoot femous city back an embedded device that allows a security company to lock the engine of a stoles vehicle evanotely. In this case, though, when a bystander aierted the security rotupony and the our name to a standstill, the thugs ordered the young men into another car and drave them around Karachi to make nure they weren't being

That's when quinkland knewforsure: He was being kidsapped.

He and his friend were taken to a two-room house mean the Northurn Timous a neighborhood filled with poorly built one- and twostory structures where police are as rare as snow

Their phones and vallets. were taken and their legs thained to a bed. They were interrogated about family wealth and contact numbers, then besten so their relatives would hear their penie during ransom cells afterward. The three kidnappers demanded \$300,000 for the pair.

For six weeks, Qairckhani and his rhildhood See Karachi, A41

Sunny and warm. L.A. Basin: 82/50. AA6 Complete Index ... AA2



### A rapid-fire surge

A new report provides

year the rating was used.

Last year, PO-D films were netually more violent than

stunned," said Brad Bush-

man of Obio State Univer-

sity, on author of the report

published Monday in Pedi

stries, the issums) of the

American Academy of Pedi

stries. "The MPAA website

clearly says that R-rated

films rated 8.

"We were

High body counts and bloodshed are found in films that are rated a step below R, with firearms at the fore.

By JOHN HORN AND STEVEN ZEITCHIE

When the first "Die Hoof" and "Terminator" movies lended in theaters in the Billion, bodds were mited fit. But. their sequels arrived with PO-III marks -- even though the level of violence had actually escalated.

Critics have blasted Hollywood's movie ratings for years, claiming that the Motion Picture Assn. of America takes a prudish view of

significantly more violence The MPAA declined to comment. In the past it has sex and foul language but a defended its rating system very liberal one when it



high rate of gun violence, the study's authors say.

THE PG-12 "Inception," a sci-fi thriller with Joseph Gordon-Levitt, left, and Leonardo DiCaprio, has a

in PG-13 violence urge in PG-13 vio A flow regions provided as through evidence for that of the large of t

> s match R rating f Post, Nov. 11, 20

rampant in movi nce France-Press, Nov. 11, 2013



Are your aspirations bigger t

Typhoon Haiyan Veterans Day Iran Amazon Richie Incognito

The Washington 1905t Postty Politics Opinions Local Sports National Wo.



In the News

Amazon to begin Sundays



PHOTOS Philippines reeling after typhoon



PG-13 movies match R rating for violence, study says

By Brady Dennis, Updated: Monday, November 11, 12:01 AM E-mail the writer

YAHOO!

ws Home

litics

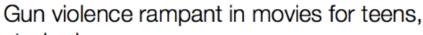
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By Kerry Sheridan

study shows

Search News









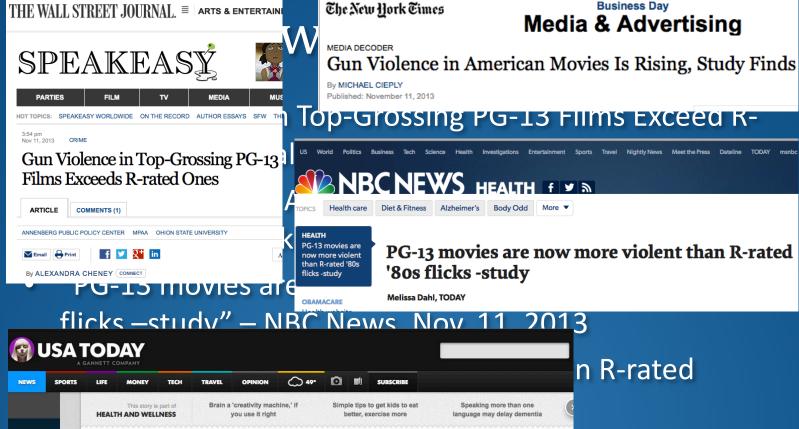












Gun violence in PG-13 films tops level in R-rated movies

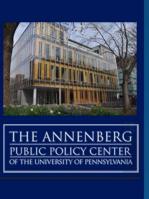
Michelle Healy, USA TODAY 12:04 a.m. EST November 11, 2013

**Kathleen Hall Jamieson** 

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Public Policy Center

141

122



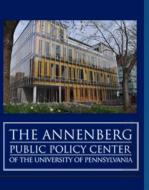
Did the press releases on these studies translate into clear, consistent headlines?

a) APPC gun violence in movies (Nov. 2013)

b) NASEM gene drive report (June 2016)

c) NASEM GE report (May 2016)

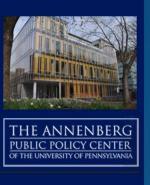
(athleen Hall Jamies Annenberg



## Principle: Effective release is accurate and translates into consistent headlines

 Did the June 2016 NASEM "Gene Drives on the Horizon" report pass this test?

Kathleen Hall Jamieson





Press release on NASEM June 2016 "Gene Drives on the Horizon" report

June 8, 2016

#### FOR IMMEDIATE RELEASE

Gene-Drive Modified Organisms Are Not Ready to Be Released Into Environment; New Report Calls for More Research and Robust Assessment

**Kathleen Hall Jamieson** 

Annenberg
Public Policy Center

organisms, the report says. Laboratory and field research is needed to refine gene drive mechanisms and better organisms, the report says. Laboratory and field research is needed to refine gene drive mechanisms and better understand how gene drives work from the molecular level through species and ecosystem levels. Meeting this need will require collaboration among multiple fields of study including molecular blodgy, population genetics, evolutionary blodgy, and ecology. In addition, open-access, online data banks and standard operating procedures should be established to share information and under research desion.

decisions about the development and potential application of gene-drive modified organisms, the committee that conducted the study and wrote the report recommended a collaborative, multidisciplinary, and cautionary approach to

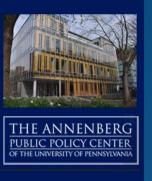
"Responsible research on gene drives and gene drive technology requires consideration of values and public engagement throughout the process," said committee or-bair Elizabeth Heltman, associate professor of medical ethics, Vanderbit University Medical Center's Center for Biomedical Ethics and Society. "From conducting basis research, to choosing a problem to address and an organism to modify, to devising strategies to pursue field testing safely, it is essential to examine each gene drive on a case-by-case basis and to engage stakeholders and the public in assessism their potential development."

The committee recommended a phased testing approach to gene drive research to guide research from the laboratory to the field. Because the goal of using a gene drive is to spread genetic information throughout a population rapidy, it is difficult to articipate its impact and important to minimize the potential for unintended consequences. Phased testing can facilitate evidence-based decision makina, with every step promoting careful study and evaluation.

Each proposed field test or environmental release of a gene-drive modified organism should be subject to robust ecological risk assessment before being approved, the report says. These assessments, which take into account the gene drive's characteristics, effects on humans and the environment, and local values and governance, are a key tool for determining a gene drive's impacts. As of May 2016, no ecological risk assessment has been conducted for a nene-drive modified organism.

Public engagement can help frame and define the potential harms and potential benefits of using a gene-drive modified

- NASEM, June 8 2016





## NASEM press release on report

WASHINGTON – The emerging science of gene drives has the potential to address environmental and public health challenges, but gene-drive modified organisms are not ready to be released into the environment and require more research in laboratories and highly controlled field trials, says a new report from the National Academies of Sciences, Engineering, and Medicine. To navigate the uncertainty posed by this fast-moving field of study and make informed decisions about the development and potential application of gene-drive modified organisms, the committee that conducted the study and wrote the report recommended a collaborative, multidisciplinary, and cautionary approach to research on and governance of gene drive technologies.

**Kathleen Hall Jamieson** 

Annenberg
Public Policy Center

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Public engagement can help frame and define the potential harms and potential benefits of using a gene-drive modified

- NASEM, June 8 2016



### NASEM press release – 1<sup>st</sup> paragraph

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Kathleen Hall Jamieso



#### Kathleen Hall Jamieson

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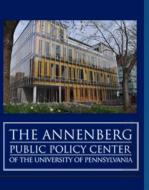
## NASEM gene drive report covered by certain major outlets & science publications

#### **General publications**

- National Public Radio (NPR)
- New York Times
- Washington Post
- PBS NewsHour
- NC State News
- Vox
- The Guardian (x3)
- Pulse Headlines
- Reason Magazine
- New Yorker Magazine
- KPBS

### **Science publications**

- Science Magazine
- Nature (x2)
- Popular Science
- STAT (x2)
- MIT Technology (x2)



## New York Times: Panel <u>endorses</u>? Or <u>supports</u> study of? Or gives <u>limited backing</u> to?

 ONLINE: "Panel Endorses 'Gene Drive' Technology That Can Alter Entire Species"

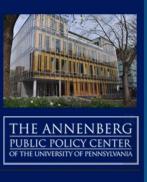
- Amy Harmon, New York Times (online), June 8, 2016

 PRINT: A1 "Science Panel Supports Study of Specieswide Gene Editing"

PRINT: A15 "Gene Editing to Alter Entire Species Gets Limited Backing From Science Panel"

- Amy Harmon, New York Times (print), June 9, 2016

Kathleen Hall Jamieso



### Washington Post headlines

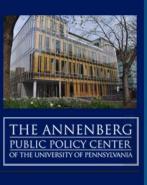
- ONLINE: "Genetically engineered bugs to fight malaria and Zika? Not so fast, experts say"
- PRINT: "National Academies: Too soon to release 'gene-drive' organisms into nature"

Genetically engineered bugs to fight malaria and Zika? Not so fast, experts say

Kathleen Hall Jamieson

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- Joel Achenbach, Washington Post June 8, 2016



### Other headlines

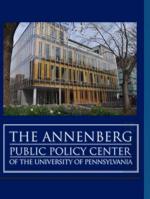
 "New Genetic Engineering Method Called Promising — And Perilous"

- Rob Stein, NPR, June 8, 2016

 "We Should Keep Modifying Organisms With 'Gene Drive', Report Says: It's Too Soon to Release Them into the Wild, However..."

- Kate Baggaley, Popular Science, June 8, 2016

Kathleen Hall Jamies



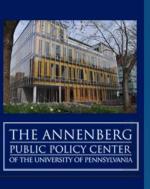
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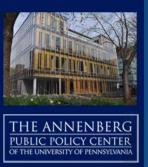
Annenberg



## Principle: Effective release is accurate and translates into consistent headlines

 Did the May 2016 NASEM "Genetically Engineered Crops: Experiences and Prospects" report pass this test?

Kathleen Hall Jamieson





current GE characteristics in crops is a major agricultural problem.

new crop varieties

#### NASEM press release on GE report

Presented modified version of the Report in Brief

May 17, 2016

#### Distinction Between Genetic Engineering and Conventional Plant Breeding Becoming Less Clear, Says New Report on GE Crops

**Kathleen Hall Jamieson** 

Annenberg
Public Policy Center

In releasing its report, the committee established a <u>website</u> that enables users to look up the places in the report that address comments received by the committee from the public, and also find the reasoning behind the report's main findings and recommendations. The committee focused on listening carefully and responding thoughtfully to members of the public who have concerns about GE crops and foods, as well as those who feel that there are great benefits to be had from GE crops." said Gold!

A tiered process for regulating new crop varieties should focus on a plant's characteristics rather than the process by which it was developed, the committee recommends in its report. New plant varieties that have intended or unintended novel

The committee used evidence accumulated over the past two decades to assess purported negative effects and purported benefits of current sold evidence in CE 1990, biologists have used genefic engineering to produce particular benefits of current souch as longer shelf life for fruit, higher vitamin content, and resistance to diseases. However, the characteristics in plantineers characteristics that allow are continued to the control of th

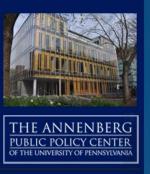
characteristics that may present potential hazards should undergo safety testing – regardless of whether they were developed using genetic engineering or conventional breeding techniques. New "omics" technologies, which dramatically increase the ability to detect even small changes in plant characteristics. will be critical to detecting unintended changes in

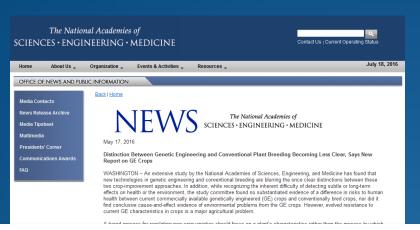
Effects on human health. The committee carefully searched all available research studies for persuasive evidence of deviers health effects directly stributable to consumption of foods devended from EC crops but fund none. Studies with animals and research on the chemical composition of GE foods currently on the market reveal no differences that would implicate a higher risk to human health and safety han from eating their non-GE counterparts. Though) long-risk ending epidemiological studies have not directly addressed GE food consumption, available epidemiological data do not show associations between any disease or chronic conditions and the consumption of GE foods.

There is some evidence that GE insect-resistant crops have had benefits to human health by reducing insecticide poisonings. In addition, several GE crops are in development that are designed to benefit human health, such as rice with increased beta-carotene content to help prevent blindness and death caused by vitamin A deficiencies in some developing nations.

Effects on the environment. The use of insect-resistant or herbicide-resistant crops did not reduce the overall diversity of

- NASEM, May 17 2016





#### NASEM press release on GE report

WASHINGTON – An extensive study by the National Academies of Sciences, Engineering, and Medicine has found that new technologies in genetic engineering and conventional breeding are blurring the once clear distinctions between these two crop-improvement approaches. In addition, while recognizing the inherent difficulty of detecting subtle or long-term effects on health or the environment, the study committee found no substantiated evidence of a difference in risks to human health between current commercially available genetically engineered (GE) crops and conventionally bred crops, nor did it find conclusive cause-and-effect evidence of environmental problems from the GE crops. However, evolved resistance to current GE characteristics in crops is a major agricultural problem.

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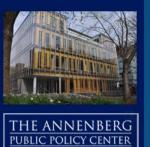
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Effects on human health. The committee carefully searched all available research studies for persuasive evidence of adverse health effects directly attributable to consumption of foods derived from GE crops but found none. Studies with animals and research on the chemical composition of GE foods currently on the market reveal no differences that would implicate a higher is to human health and safely than from eating their non-GE counterposits. Though long-term epidemiological studies have not directly addressed GE food consumption, available epidemiological data do not show associations between any disease or chronic conditions and the consumption of GE foods.

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Effects on the environment. The use of insect-resistant or herbicide-resistant crops did not reduce the overall diversity of

- NASEM, May 17 2016



#### NASEM press release – 1<sup>st</sup> paragraph

- "while recognizing the inherent difficulty of detecting subtle or long-term effects on health or the environment, the study committee found:"
  - "no substantiated evidence of a difference in risks to human health between current commercially available genetically engineered (GE) crops and conventionally bred crops"
  - "nor did it find conclusive cause-and-effect evidence of environmental problems from the GE crops"
- "However, evolved resistance to current GE characteristics in crops is a major agricultural problem"

Kathleen Hall Jamieso



#### NASEM GE report coverage included:

#### **General publications**

- Washington Post
- USA Today
- Associated Press
- NBC News
- New York Times
- Wall Street Journal

#### Food & agriculture sites

National Geographic's The Plate

**Kathleen Hall Jamieson** 



#### Conveyed message



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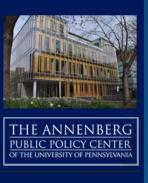
Scientists Say GMO Foods Are Safe, Public Skepticism Remains

but not curing hunger

By SETHBORENSTEIN May. 17, 2016 1:03 PM EDT

Report: Genetically altered food safe

THE BIG STORY



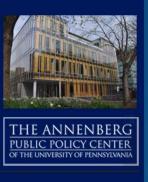
#### Headlines

#### Safe

"Genetically Modified Crops Are Safe, Report Says" Maggie Fox, NBC News, May 17 2016

"Genetically Engineered Crops Are Safe, Analysis
 Finds" - Andrew Pollack, The New York Times, May 17 2016

Kathleen Hall Jamieson



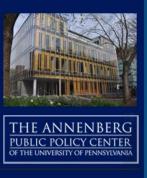
#### Headlines

#### Safe but...

 "Report: Genetically altered food safe but not curing hunger" - Seth Borenstein, Associated Press, May 17 2016

 "Science Group Vouches for GMO Foods: The report says genetically modified foods are safe for people and don't appear to harm the environment" - Jacob Bunge, Wall Street Journal, May 18 2016

Kathleen Hall Jamieso

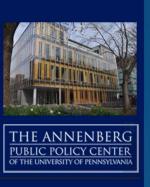


#### Headlines

#### Product, not process

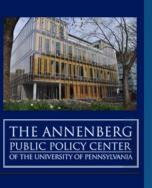
 — "Are GMO Crops Safe? Focus on the plant, not the process, scientists say" - Joel Achenbach, Washington Post, May 17 2016

**Kathleen Hall Jamieson** 



- 1. Press coverage doesn't necessarily yield public recall
- 2. Press releases can distort, confuse or reinforce findings
- 3. Effective release is accurate and translates into consistent headlines
- 4. Accuracy and use of knowledge, not number of hits, are what matters
- 5. Universities should police their releases

Kathleen Hall Jamieso

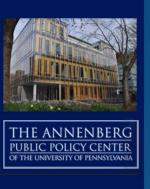


## Accuracy and use of knowledge, not number of hits, are what matters

Question: What is the intended audience?

- Audience for GE report should include policymakers deliberating about/reporters writing about labeling
- Audience for gun violence in movies should include Motion Picture Association of America

Kathleen Hall Jamieso



## GE report audience should include those involved in GMO labeling debate/coverage

- No reference to NASEM report in masscirculation mainstream July 2016 coverage of GMO labeling bill
  - Approved by the House on July 14, 2016, and signed by President Obama on July 29, 2016

Kathleen Hall Jamieso



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The New Hork Times

BUSINESS DAY

#### G.M.O. Labeling Bill Gains House Approval

By STEPHANIE STROM JULY 14, 2016



Gwyneth Paltrow and Gary Hirshberg, right, at the Capitol in 2015, with Senator Richard Blumenthal, left, and Senator Pat Leahy. Stephen Crowley, The New York Times

The House of Representatives voted on Thursday to require the labeling of foods that contain genetically engineered ingredients, clearing the bill's <u>final obstacle</u> before it heads to the White House, where President Obama is expected to sign it into law.

"Today's vote is a resounding victory not only for consumers and

## No reference to May NASEM GE report

 No mention of any findings from NASEM report on GE crop safety

> - Stephanie Strom, New York Times July 14 2016



#### No reference to May NASEM GE report



Federal regulators have approved the GMO seeds on the market, but environmentalists and natural food supporters say they can hurt the environment and rely on herbicides that could harm consumers.

**Kathleen Hall Jamieson** 

**Annenberg Public Policy Center**  - Heather Haddon, Wall Street Journal July 14 2016



whether any of the ingredients had their natural DNA altered, but will take years to phase in and will give companies the option of using straightforward language, digital codes or a symbol to be designed later

The terms are in contrast to a law that went into effect this month in

Charm of Montauk







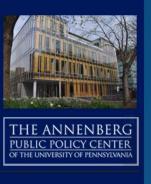












# How did NASEM report get into subsequent coverage of labeling legislation?

Piggy-backing scientific consensus into report of new survey

Kathleen Hall Jamieson



**Kathleen Hall Jamieson** 

Annenberg
Public Policy Center



FOR IMMEDIATE RELEASE

July 18, 2016

Contact: Michael Rozansky | michael.rozansky@appc.upenn.edu | 215-746-0202

#### Americans support GMO food labels but don't know much about safety of genetically modified foods

PHILADELPHIA – Americans widely support the mandatory labeling of genetically modified foods, which is required in a bill approved by Congress on July 14 and sent to the White House to await President Obama's signature.

But most Americans are unaware of the scientific consensus that there is no substantiated evidence showing that genetically modified foods are unsafe. And a majority of the public (58 percent) acknowledges having only a fair or poor understanding of genetically modified organisms (GMOs).

Those are among the findings of a recent survey of U.S. adults, which preceded Congressional approval of the GMO labeling bill and was conducted by researchers from the <u>Department of Life Sciences Communication</u> at the University of Wisconsin-Madison and the <u>Annenberg Public Policy Center</u> (APPC) of the University of Pennsylvania.

The vast majority of Americans (88 percent) support the mandatory labeling of foods containing GMOs, the survey found. In addition, 91 percent agree that people have the right to know when they buy or eat products that contain GMOs.

#### Lack of knowledge about GMOs

But fewer than 1 in 5 people (18 percent) were aware of <u>a report</u> on genetically engineered crops issued on May 17, the day the survey commenced, by a committee of the National Academies of Sciences, Engineering, and Medicine. The study committee <u>found</u> "no substantiated evidence of a difference in risks to human health between currently commercialized genetically engineered (GE) crops and conventionally bred crops..."

In the survey, only 1 in 5 people (22 percent) agreed that scientists have not found any risks to human health from eating genetically modified foods. Nearly half (48 percent) disagreed with that statement, while 25 percent neither agreed nor disagreed. Only 39 percent of people agreed that "GMO crops are safe to eat," while 27 percent disagreed with that statement, and 30 percent neither agreed nor disagreed.

The labeling bill approved by Congress calls for the use of on-package text, a symbol designed by the U.S. Department of Agriculture, or a digital QR code to designate food containing GMOs. A OR code, when scanned by a smartphone, can direct someone to a website with information.

## APPC ASK survey on GMO foods/labels

 58% acknowledge fair/poor understanding of GMOs

- APPC press release, ASK survey on GMO knowledge and food labels July 18 2016



**Kathleen Hall Jamieson** 

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Public Policy Center



FOR IMMEDIATE RELEASE

July 18, 2016

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Contact: Michael Rozansky | michael.rozansky@appc.upenn.edu | 215-746-0202

## APPC ASK survey on GMO foods/labels

Dominique Brossard &, a fall 2016 visiting scholar at the Annenberg
Public Policy Center and professor and chair in the Department of Life
Sciences Communication at the University of Wisconsin-Madison.

"Labeling is an important issue that still needs to be debated at the
national level," said Brossard, a member of the National Academies
committee that issued the GMO report. She found it "troubling" that only
1 in 5 people knew that scientists have not found evidence of adverse
health effects from eating GM foods.

(GE) crops and conventionally bred crops..."

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- APPC press release, ASK survey on GMO knowledge and food labels July 18 2016



Kathleen Hall Jamieson

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## Article about ASK survey

People want GMO food labeled — which is pretty much all they know about GMOs

The Washington Post

Those on the other side of the fence, including food companies and farming organizations, have pointed out that most scientists agree there is no concrete evidence to suggest that GMOs pose a risk. In fact, the National Academy of Sciences recently released a report summarizing years of research on genetically engineered crops.

The report concluded that there was "no substantiated evidence of a difference in risks to human health between currently commercialized genetically engineered (GE) crops and conventionally bred crops, nor did it find conclusive cause-and-effect evidence of environmental problems from the GE crops." However, it also pointed out that this doesn't necessarily mean all future GE plants will be safe and recommended that all newly introduced crops undergo safety testing.

chers got people drunk or high, ade a fascinating discovery now we respond Department sues to block two care mega-mergers cal difference between icans and Democrats that s the presidential campaig way too long to build new Games d Environment newsletter

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- Chelsea Harvey, Washington Post July 21 2016 organizations have argued that the safety of GMOs is uncertain, and that genetically modified foods could pose a risk to the environment and to the health of consumers.

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certain environmental groups in the United States for years. Many of these



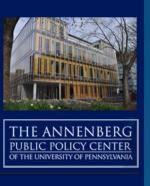
## Reporting on the ASK survey

Committee member
Dominique Brossard
quoted in press release
and interviewed for
coverage discusses NASEM
report

**Kathleen Hall Jamieson** 

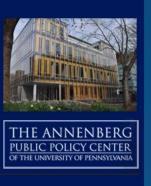
Annenberg Public Policy Center - Chelsea Harvey, Washington Post July 21 2016 The differences between these two responses, in particular, may help reveal some complexities in the way the American public feels about GMOs, said Dominique Brossard, chair of the Department of Life Sciences Communication at the University of Wisconsin at Madison, who was involved in the survey's design and analysis. (Brossard was also a committee member involved with the recent National Academy of Sciences report on genetically engineered crops.) These results suggest that some people think scientists disagree about the safety of GMOs — but are still willing to eat them, anyway.

"I am actually concerned about the fact that only 1 in 5 people know that scientists have not found evidence of adverse side effects [of genetically engineered crops]." she said, adding that these results may speak to the overall confusion Americans feel about the topic — an issue that has probably been exacerbated by the widespread and highly publicized debate among various organizations in the country.



# Audience for movie violence study should include those involved in the debate about gun violence and about violence in movies

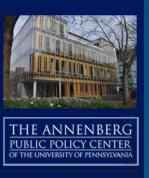
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## Influence of gun violence trends in movies study

- Led to conversations between scholars and influentials in the Hollywood community
- Continues to frame press reporting of violence in movies and the MPAA ratings system

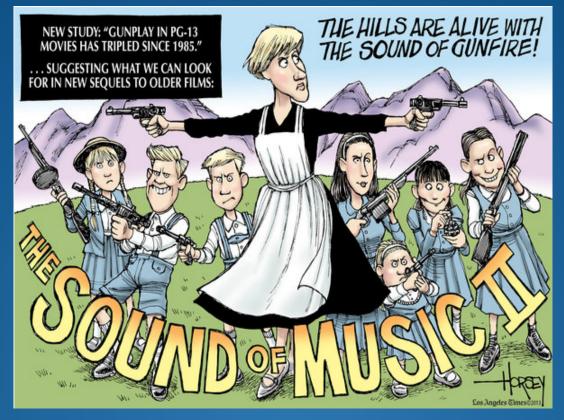
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#### Cartoon from LA Times



- David Horsey, Los Angeles Times Nov. 13 2013



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The Motion Picture Association of America cites its long-held position that parents, not studios, must decide what level of violence is appropriate for children to see. "The vast majority of academic studies do not provide direct ties to violence in entertainment leading to violence in real life," said Howard Gantman, an association spokesman.

Still, Hollywood sends mixed messages on the matter. Studios point to their ratings system, but the Annenberg Public Policy Center of the University of Pennsylvania, which tracks gun use in popular films, last year found that gun violence in top-selling PG-13 rated movies exceeded that in the best-selling R-rated movies.

"What we don't know is the kind of person who is susceptible to this influence," said Daniel Romer, who oversees the Annenberg research.

- Michael Cieply and Brooks Barnes, "'Rule Followers' Flock to a Convention Where Fake Violence Reigns" New York Times, July 26 2014 Fake Violence Reigns

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"weapons check" to make sure the arms are not deadly.

"I built these out of wood, aluminum, a couple of screws, some Super Glue," said Eric Garibay of Modesto, Calif., referring to a pair of swords and some metallic tubes and boxes that looked as if they might detonate

Nowhere is violence in entertainment more prominently on display than at Comic-Con. And yet, historically, all of the attendees have been strikingly well behaved.

"They are rule followers," Lt. Marshall White, a San Diego police officer, said of the Comic-Con masses. Lieutenant White, who oversees patrols at the convention, added, "To them, the police are superheroes."

This is the Comic-Con mystery — and it highlights the question at the heart of a prickly debate over violence in entertainment: Is violent behavior in



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**Entertainment** 





TV Goes Back To





#### Don't Think Twice director slams MPAA for rating Suicide Squad PG-13

Rating board's logic is 'confusing,' Mike Birbiglia says BY OLIVER GETTELL - @ 0 GETTELL











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This isn't the first time the prevalence of violence in PG-13 films has come under scrutiny. A 2013 study, for example, found that the level of gun violence in popular PG-13 movies exceeds that of R-rated movies.

**Kathleen Hall Jamieson** 

**Annenberg Public Policy Center** 

- Oliver Gettell Entertainment Weekly, Aug. 3 2016

"Suicide Squad has machine gun killings and bombings and got a PG-13 rating," Birbiglia wrote on Twitter. "@Dontthinkmovie gets an R because adults smoke pot. Confusing?"

Based on DC Comics' motley crew of the same name, Suicide Squad tells the story of a team of supervillains blackmailed into saving the world from an evil sorceress. Like many modern action tentpoles, it features extensive but mostly bloodless violence.

#### SEE ALSO

 Mike Birbiglia wants 'Don't Think Twice' to make you laugh — and cry

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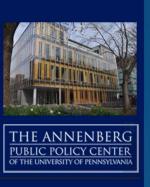




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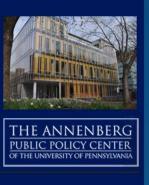
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- 5. Universities should police their releases

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# How can universities increase accuracy of press releases about their scholars' research?

Kathleen Hall Jamieson



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### "Self-correction in science at work"

- Alberts, Cicerone, et al., Science June 26 2015



Design principles for synthetic ecology p. 1425 •

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SCIENTIFIC INTEGRITY

#### Self-correction in science at work

Improve incentives to support research integrity

By Bruce Alberts, Ralph J. Cicerone, Stephen E. Feinberg, Alexander Kamh, Marcia McNutt, S. Robert M. Nerem, Randy Schelman, Richard Shiffrin, Victoria Stodden, Subra Suresh, Maria T. Zuber, Barbara Kline Pope, Kathleen Hall Jamieson 25.

cek after week, news outlets carry word of new scientific discoveries, but the media sometimes give suspect science equal play with substantive discoveries. Careful qualifications about what is known are lost in categorical headlines. Rare instances of incropoducibility are translated into concerns that sedence is broken. The Octooncerns that sedence is broken.

ber 2013 Economist headline proclaimed "Trouble at the lab: Scientists like to think of science as self-correcting. To an alarming degree, it is not "(). Yet, that article is also rich with instances of selence both policing itself, which is how the problems came to The Economist's attention in the first place, and addressing discovered lapses and irresproducibility concerns. In light of such issues and efforts, the U.S. National Academy of Sciences (XAS) and the Annenberg Retreat at Stamylands convened our group to examine ways to remove some of the current disincentives to high standards of intearity in science.

Like all human endeavors, science is imperfect. However, as Robert Merton noted more than half a century ago "the activities of scientists are subject to rigorous policing, to a degree perhaps unparalleled in any other field of activity" (2). As a result, as Popper argued, "science is one of the very few human activities—perhaps the only one—in which errors

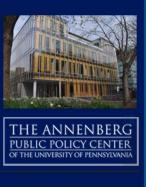
POLICY are systematically criticized and fairly often, in time, corrected?

(3). Instances in which scientists detect and address flaws in work constitute evidence of success, not failure, because they demonstrate the underlying protective mechanisms of science at work.

Still, as in any human venture, science writ large does not always live up to its ideals. Although attempts to replicate the 1998 Wakefield study alleging an association between autism and the MMR (measles,

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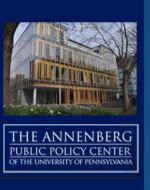


"Universities should insist that their faculties and students are schooled in the ethics of research, their publications feature neither honorific nor ghost authors, their public information offices avoid hype in publicizing findings, and suspect research is promptly and thoroughly investigated."

Kathleen Hall Jamieson

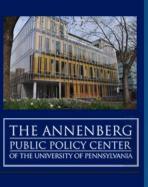
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- Alberts, Cicerone, et al., "Self-correction in science at work" Science, June 26 2015



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## Communicating Science About Topics Under National Discussion

Kathleen Hall Jamieson

August 9, 2016

Kathleen Hall Jamieson