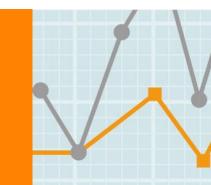


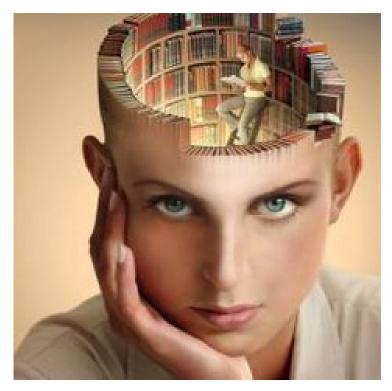
Libraries in the Information Age Improving Library Feedback

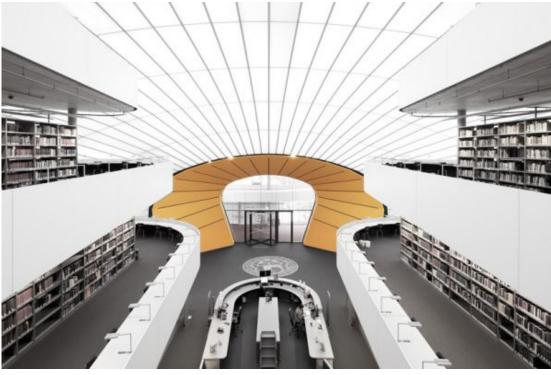


Library Connect, November 2016 Ruarri Rogan, r.rogan@elsevier.com Solutions Enablement

Introduction: Why feedback?	5 min	S
Feedback for RESEARCHERS	8 mins	Part 1
Feedback for PURCHASERS Current Feedback Systems Future Developments	8 mins 4 mins	
What Feedback Tells Us Trends in backfiles Possible explanations The role of the librarian	8 mins 4 mins 4 mins	Part 2
Questions	10 mins	

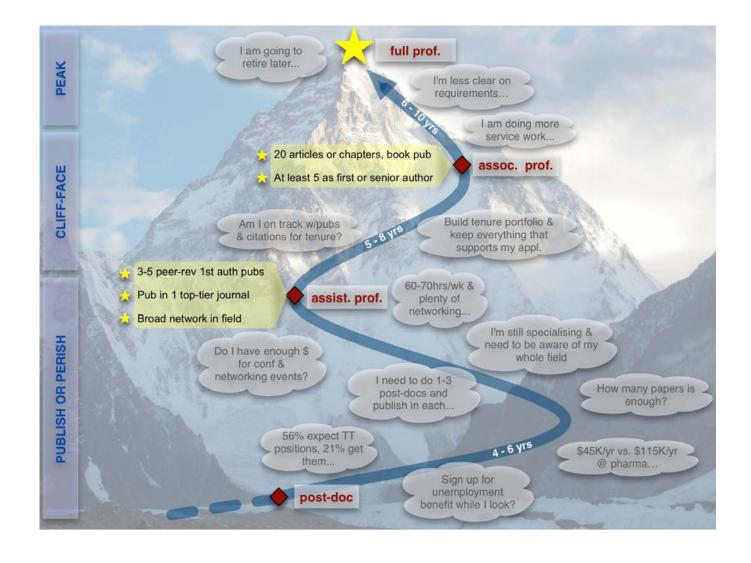
Feedback: the library as brain





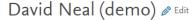
Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	
Feedback for PURCHASERS Current Feedback Systems Future Developments	8 mins 4 mins	Part 1
What Feedback Tells Us Trends in backfiles Possible explanations The role of the librarian	8 mins 4 mins 4 mins	Part 2
Questions	10 mins	

The Need for Feedback









Professor Pedit

Senior Group Leader and Professor of Surgical Oncology

Edit

University of Cambridge 🤌 Edit

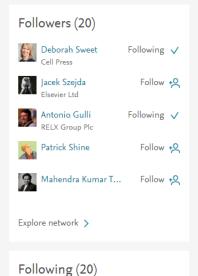




I am a urological surgeon and translational researcher by training and background and spent over 11 years at the Universty of Cambridge developing the clinical urological services there and forming a new translational research group.

I am now working at Elsevier as Senior Vice President for Research, where I shall be

View more

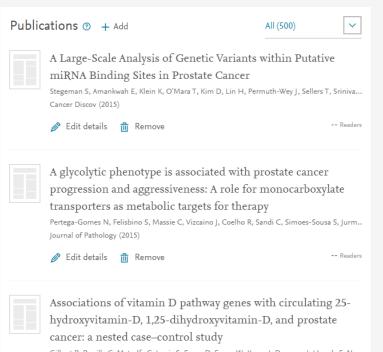


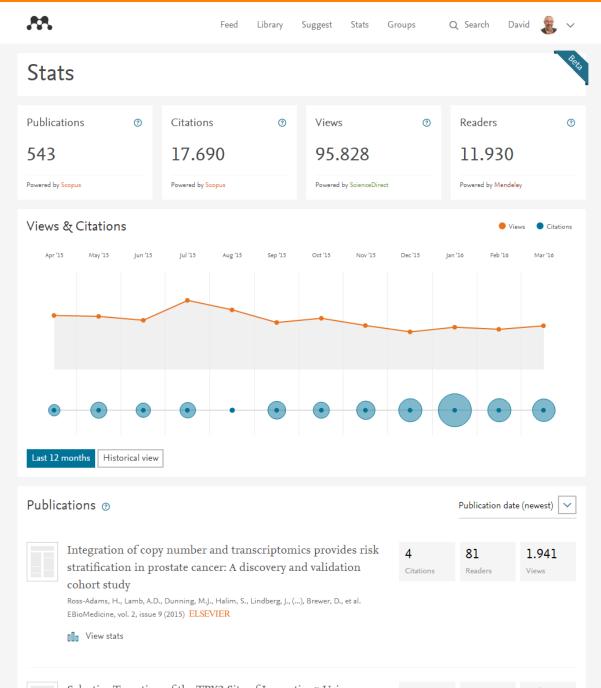
Following <

Following <

Rose L'Huillier

🧝 jim slaton





View more

My mentions in the media ③



Healthy-looking prostate cells mask cancer-causing mutations View article

✓

March 2, 2015 | Cancer Research UK (United Kingdom)

"more about the beginnings of prostate cancer, so we can tackle the disease at its roots." Professor David Neal, study author at the University of Cambridge, said: "The discovery of widespread changes"

Show related mentions (5) ✓



Prostate cancer sufferers may need healthy-looking cells treated too View article 🗷

March 3, 2015 MSN Canada (Canada)

"tissue has either been treated with radiotherapy or surgically removed. Professor David Neal, at the University of Cambridge, said: "The discovery of widespread changes in these normal looking cells"



Article of the month: Targeting the androgen receptor View article 7

March 5, 2014 | BJUI (United Kingdom)

"of the androgen receptor (AR) in prostate cancer Alastair D. Lamb, Charlie E. Massie and David E. Neal Cambridge University Department of Urology, Addenbrooke's Hospital and Cancer Research UK"



Prostate cancer breakthrough British scientists discover WHY the disease

spreads View article ↗

April 2, 2015 | UK Nigeria Online (United Kingdom)

"David Neal said some suitable drugs already exist, and that new ones are being developed all the time. However, he cautioned that it will be three to five years before the latest knowledge can be"



Study Affirms Lethal Prostate Cancer Can Spread From Other Metastatic Sites

View article **⊿**

April 1, 2015 | Newswise (United States)

"Eeles from the Institute of Cancer Research, London; Douglas Easton from the University of Cambridge in the U.K.; Hayley C. Whitaker and David E. Neal from Cancer Research UK; and the International Cancer"

View more



Are any publications missing from this overview?

Library Suggest Stats Groups

Q Search David



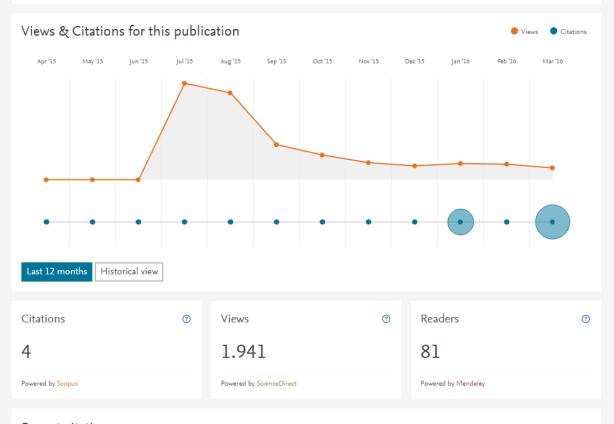
≺ Back to Stats



Integration of copy number and transcriptomics provides risk stratification in prostate cancer: A discovery and validation cohort study

Ross-Adams, H., Lamb, A.D., Dunning, M.J., Halim, S., Lindberg, J., (...), Brewer, D., et al.

EBioMedicine, vol. 2, issue 9 (2015) ELSEVIER



Recent citations

66 Gene regulatory mechanisms underpinning prostate cancer susceptibility

Whitington, T., Gao, P., Song, W., Ross-Adams, H., Lamb, A.D., (...), Wiklund, F., et al.

Nature Genetics, vol. 48, issue 4 (2016)

Where are your readers coming from? Last month, most views came from United States of America. Your biggest overall audience is from United States of America. Overall views





ELSEVIER I 11₁

Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	
Feedback for PURCHASERS		Part 1
Current Feedback Systems	8 mins	
Future Developments	4 mins	
What Feedback Tells Us Trends in backfiles Possible explanations The role of the librarian	8 mins 4 mins 4 mins	Part 2
Questions	10 mins	
	_	J

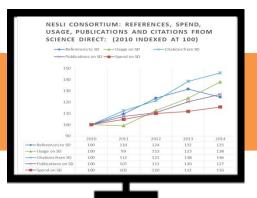
Questions our customers tell us that they're faced with:

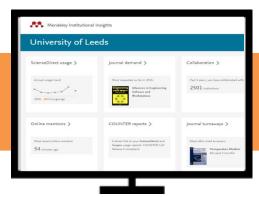
- 1. Help me understand and communicate value of your products
- 2. Help me generate stories to share with my community of researchers and students.
- 3. Help me stay up to date with new developments and offerings.

ELSEVIER

Product Insights for Customers







1. COUNTER usage reports.

Being a founding member Elsevier has always supported COUNTER and reported in a compliant way via our website and SUSHI protocol

Since 2002

2. Personalised value analytics

Multiple metrics regarding research outcomes at institutional level using the power of Scopus.

3. Product Insights for Customers.

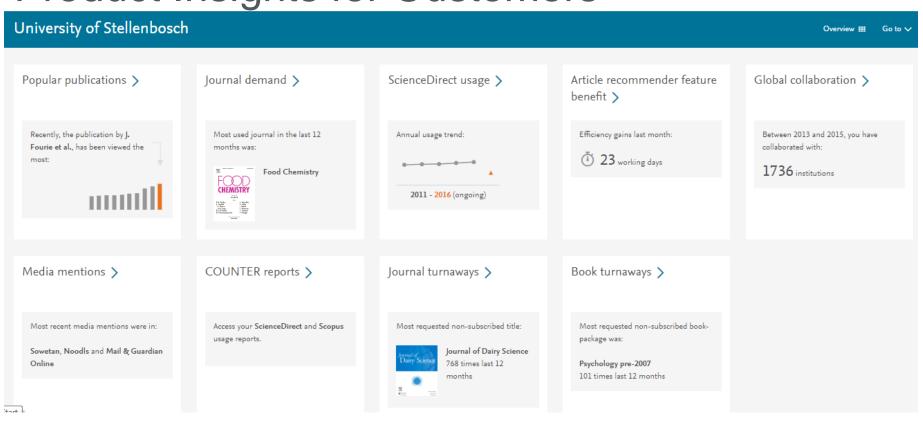
Free personalised value analytics at institutional level using the power of Scopus, Mendeley and big data analytics

From now on

Since 2012

ELSEVIER

Product Insights for Customers



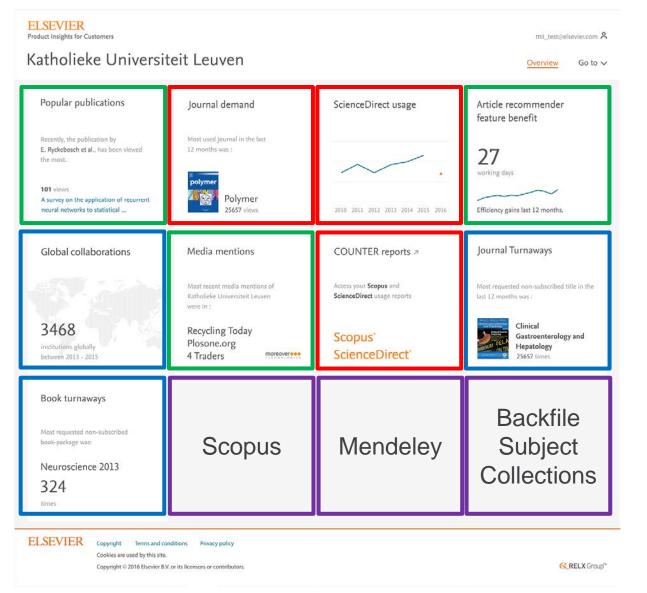
Dashboard

RuarriRogan A

ELSEVIER I 15

Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	
Feedback for PURCHASERS Current Feedback Systems	8 mins	Part 1
Future Developments	4 mins	
What Feedback Tells Us Trends in backfiles Possible explanations The role of the librarian	8 mins 4 mins 4 mins	Part 2
Questions	10 mins	

Future Developments

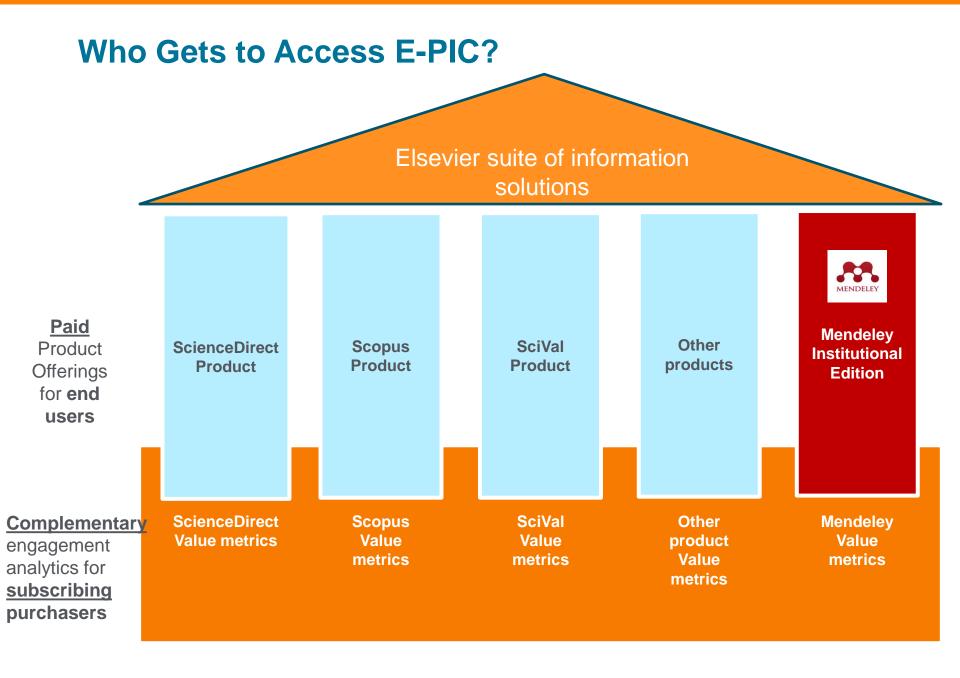


Value communication

Update on new tools & content

Story Telling & Education

Near future widgets



Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	
Feedback for PURCHASERS Current Feedback Systems Future Developments	8 mins 4 mins	Part 1
What Feedback Tells Us		
Trends in backfiles	8 mins	
Possible explanations The role of the librarian	4 mins	
The role of the librarian	4 mins	Part 2
Questions	10 mins	

New technology opens up older content

"In 2013... 13% of citations were to articles >= 20 years old... an increase of 36% since 1990... Now that finding and reading relevant older articles is about as easy as finding and reading recently published articles, significant advances aren't getting lost on the shelves and are influencing work worldwide for years after."

Google Inc., November 2014

On the Shoulders of Giants: The Growing Impact of Older Articles

Alex Verstak, Anurag Acharya, Helder Suzuki, Sean Henderson, Mikhail Iakhiaev, Cliff Chiung Yu Lin, Namit Shetty

Google Inc.

November 4, 2014

Abstract

In this paper, we examine the evolution of the impact of older scholarly articles. We attempt to answer four questions. First, how often are older articles cited in scholarly papers and how has this changed over time. Second, how does the impact of older articles vary across different fields of scholarship. Third, is the change in the impact of older articles accelerating or slowing down. Fourth, are these trends different for much older articles.

To answer these questions, we studied citations from articles published in 1990-2013. We computed the fraction of citations to older articles from articles published each year as the measure of impact for the study. For this study, we considered articles that were published at least 10 years before the citing article as *older articles*. To explore how changes in citation

Trends in backfiles

"Literature Citations in the Int



Science Home News Journals

Literature Citations in the Internet Era

SHARE

4







Narrower Fo

LETTERS edited by Jenniler Sills

J. A. EVANC'S REPORT "ELECTRONIC PUBLICATION AND THE WARROWING OF SCIENCE AND scholarship" (18 July, p. 395) suggests that (i) the average age of citations to scientific papers dropped over the years as more electronic papers became accessible and (ii) the citations are concentrated on a smaller proportion of papers and journals. Such conclusions are not warranted by Evans's data.

To measure the evolution of the average (or median) age of the references contained in papers, one has to look at all the references in all published papers and observe the evolution of their age over time. As we have shown using Thomson Reuters's Web of Science data for the period 1900 to 2004 (for a total of 500 million references in 25 million papers), the average (and median) age of all references began to decrease in 1945 but has increased steadily since the mid-1906s. This trend is visible in all steadily since the mid-1906s. This trend is visible in all

sciences, including the social sciences and the humanities (1, 2). The median age of references in fields of science and engineering moved from 4.5 years in 1955 to

ing moved from 4.5 years in 1955 to more than 7 years in 2004, and in medical sciences it increased from 4.5 to 5.5 during the same period (1). In fact, Evans's conclusions only reflect a transient phenomenon related to recent access to online publications and to the fact that the method used does not take into account time delays between citation year and publication year. Our data also show that

in disciplines in which online access has been available the longest (such as nuclear physics and astrophysics), the age of references declines for a number of years in the 1990s, but then increases from 2000 to

of references occurses for a numeer of years in the 1990s but men increases from 2000 to 2007, the last available year of our data set. We have also measured the concentration of citations (and journals) by three different methods, including the one used by Evans. All three measures elearly show that concentration is in fixet declining for papers as well as for journals (3). Although many factors affect citation practices, two things are clear: Researchers are increasingly relying on older science, and citations are increasingly dispersed across a larger proportion of papers and journals.

YVES GINGRAS,1+ VINCENT LARIVIÈRE,1 ÉRIC ARCHAMBAULT?

*Observatoire des Sciences et des Sechnologies (OST), Centre Interuniversitaire de Recherche sur la Science et la Technologie (CRST), Université du Québec à Monthal, CP 8888, Soccursale Centre-ville, Monthal, QC H3C 3P8, Canada. *Science-Betrix 13358 Avenue de Mont-Rayal K, Montria, QC KH3 (16, Canada.

*To whom correspondence should be addressed. E-mail: gingras.yves@uqam.ca

Reference

- V. Larivière, E. Archambault, Y. Gingras, J. Am. Soc. Information Sci. Technol. 59, 288 (2008).
 V. Larivière, E. Archambault, Y. Gingras, in Proceedings of ISSI 2007, D. Tores-Salinas, H. F. Moed, Eds. ICSK, Madrid, 2007).
- V. Larivière, Y. Gingras, E. Archambault, "The decline in the concentration of citations, 1900–2007" (http://arxiv.org/pdf/0809.5250).

SHARE



Be More Effi

IN HIS REPORT "EL! and the narrowing of

(18 July, p. 395), J. A that electronic publi

ship. He found the

included fewer, mor

ever, Evans gives us

he suggests that the the days of paper-onl

an unintended conse

Contrary to what Ev

that scientists' narrow

evolution by natura

species, relatively fi

Similarly, in science

affect subsequent si

growth of electronic

ing the scientific co

Scientists may be sp

literature that is extr

Before we bemoan th

terns that Evans has

Visiting Scholar, Departn Studies, Cornell University

of such changes.

kbw35@cornelLedu

Science has frequ

is a good sign.

this is actually detrin









European Southern Observator

Older papers are increasingly remembered—and cited

By John Bohannon | Nov. 4, 2014 . 12:00 PM

D. L. Hull, Science and Selection (Cambridge Univ. Press Cambridge, 2003).

To Each Citation, a Purpose THE REPORT BY J. A. EVANS ("ELECTRONIC

publication and jt. a. Evan's Cectivorities publication and the narrowing of science and scholarship," 18 July, p. 395) claims that electronic publication "may accelerate consensus and narrow the range of findings and ideas built upon." But do the currently available data support this chilling conclusion?

Evans's argument is based on evidence that with electronic access, fewer papers and fewer older papers are cited, and that cited papers are less broad and diverse. To understand these itation

elying are

rature cience,

The decline in the concentration of citations, 1900-2007

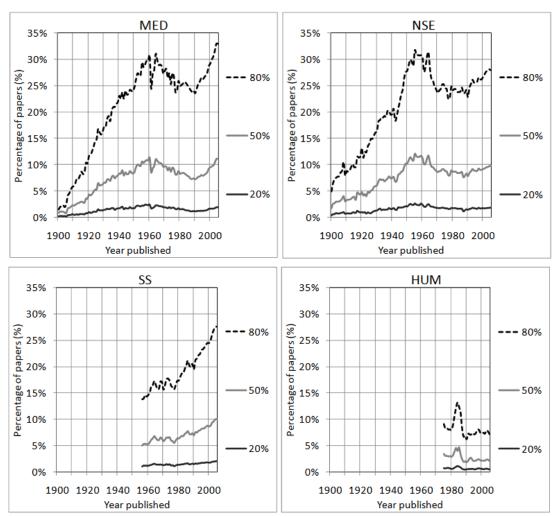
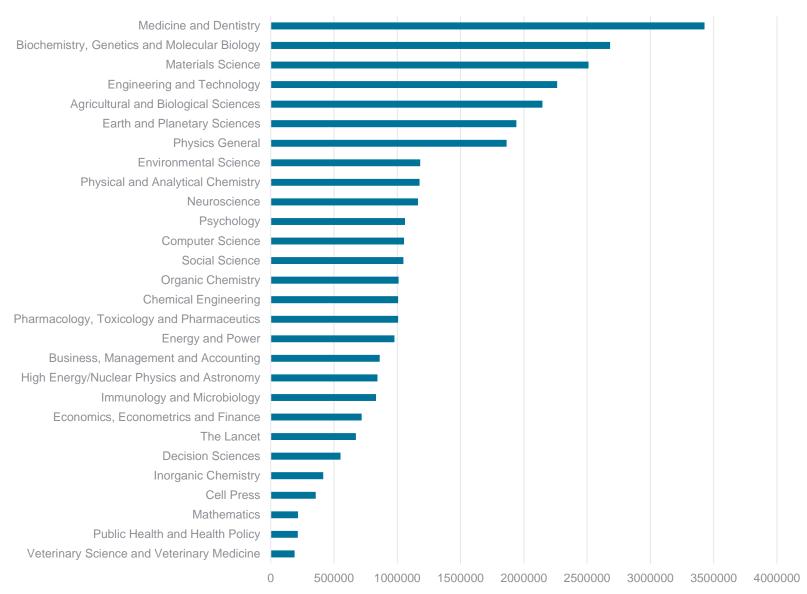


Figure 2. Percentage of papers needed to obtain 20%, 50% and 80% of the citations received using a two-year citation window, by field, 1900-2005

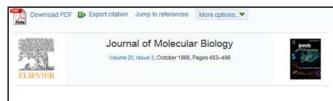
Trends in backfiles

Turnaways By Backfile Subject Package - Global - 2015



Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	
Feedback for PURCHASERS Current Feedback Systems Future Developments	8 mins 4 mins	Part 1
What Feedback Tells Us		
Trends in backfiles	8 mins	
Possible explanations	4 mins	
The role of the librarian	4 mins	Part 2
Questions	10 mins	

Hypothesis 1: Technology has reinvigorated history



Host specificity of DNA produced by *Escherichia coli* 9. Host-controlled modification of bacteriophage fd *

Werner Arber

Institute of Molecular Biology University of Geneva, Switzerland

Abstract

Host-controlled modification is shown to occur with four related male-specific bacteriophage strains containing single-stranded DNA: fd, f1, M13 and F12. All four phages are restricted and modified in bacteria with B host specificity, the first three also in P1-tysogenic cells. None of the phages is restricted in strains with K host specificity or carrying the episome RTF-2. The bacterial characters $_{R}m_{b}$ which control the B host specificity or A DNA, are also responsible for restriction and modification of phage fd. The apparent difference in K restriction, which is encountered by λ , but not by fd, is thought to find lits explanation in the small molecular size of fd DNA, on which K specificity sites might be lacking. Indeed, restriction and modification act on the DNA of fd: DNA from fd phages which infect restricting host cells is partially broken down to acid-soluble products. On the other hand, one-cycle growth of fd. B on non-restricting and non-modifying K^{2} m^{2} bacteria yields, among a majority of progeny of fd. K^{2} m^{2} phage, some phage particles with parental B host specificity, and they also have parental DNA as shown by density labelling of the infecting phage. The efficiency of such transfer of parental fd.B DNA was found to be 0.12 if measured after 18 minutes incubation of the infected cells. The implication of this transfer on the mechanism of phage DNA replication is discussed.

References

Arber, 1965 W. Arber

Ann. Rev. Microbiol, 19 (1965), p. 365

View Record in Scopus | Full Text via CrossRef | Cited By in Scopus (21)

Arber and Dussoix, 1962 W. Arber, D. Dussoix

J. Mol. Biol, 5 (1962), p. 18

Article | The PDF (1185 K) | View Record in Scopus | Cited By in Scopus (45)

Arber and Lataste-Dorolle, 1961 W. Arber, C. Lataste-Dorolle Path, Microbiol, 24 (1961), p. 1012 Metadata and abstracts available in html, references (CrossRef), cited by (Scopus), etc.

Every article is completely searchable and indexed by search engines and abstract databases

PDF in great quality, with images, printable, one click to Mendeley.

J. Mol. Biol. (1966) 20, 483-496

Host Specificity of DNA produced by Escherichia coli 9. Host-controlled Modification of Bacteriophage fd

WERNER ARRER

Institute of Molecular Biology University of Geneva, Switzerland

(Received 11 May 1966)

Host-controlled modification is shown to occur with four related male-specific bacteriophage strains containing single-stranded DNA: fd, f1, M13 and F12. All four phages are restricted and modified in bacteria with B host specificity, the first three also in P1-lysogenic cells. None of the phages is restricted in strains with K host specificity or carrying the episome RTF-2. The bacterial characters $r_b m_b$ which control the B host specificity of λ DNA, are also responsible for restriction and modification of phage fd. The apparent difference in K restriction, which is encountered by λ , but not by fd, is thought to find its explanation in the small molecular size of fd DNA, on which K specificity sites might be lacking. Indeed, restriction and modification act on the DNA of fd: DNA from fd phages which infect restricting host cells is partially broken down to acid-soluble products. On the other hand, one-cycle growth of fd.B on non-restricting and non-modifying Kr*m" bacteria yielda, among a majority of progeny of fd.Kr-mphage, some phage particles with parental B host specificity, and they also have parental DNA as shown by density labelling of the infecting phage. The efficiency of such transfer of parental fd.B DNA was found to be 0-12 if measured after 18 minutes incubation of the infected cells. The implication of this transfer on the mechanism of phage DNA replication is discussed.

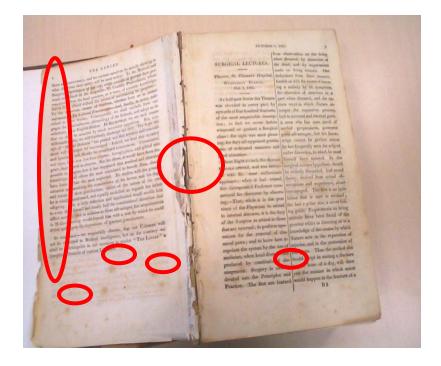
1. Introduction

Occurrence of host-controlled modification with a bacteriophage strain carrying its genetic information on a single-stranded DNA molecule was recently observed by Hoffmann-Berling (personal communication), who found that his phage 6d (Hoffmann-Berling, Marvin & Dürwald, 1963) is restricted in male strains of Eackerickia coli B, in which the rare plaque formers undergo host-controlled modification. This means that fd.B, grown on B, is no longer restricted on B. In this respect, fd behaves like phage \(\lambda\) (Arber & Dussoix, 1962). However, fd.B does not encounter any restriction in E. coli K12, whereas \(\lambda\) is restricted in the host \(K12\).

A number of independent isolates of male-specific bacteriophages has been shown to be very closely related to phage fd (Zinder, Valentine, Roger & Stoeckenius, 1963; Hofschneider, 1963; Salivar, Trageloff & Pratt, 1964). In particular, they all have the form of a flexible rod of some 8000 Å length and 50 Å diameter (Marvin & Hoffmann-Berling, 1963; Hofschneider, 1963; Zinder et al., 1963). They contain a single-stranded DNA molecule of some 5000 nucleotides only (Hoffmann-Derling, Marvin & Dürwald, 1963; Salivar et al., 1944), the molecular weight of which, namely about 1-6×10°.

483

Hypothesis 1: Technology has reinvigorated history Elsevier's Investment in rescue & digitisation of classic content



Case in point: The Lancet – **Volume 1, Number 1, 1823**

OCTOBER 5, 1823.

SURGICAL LECTURES.

WEDNESDAY EVENING, Oct. 1, 1823.

class: the sight was most pleas- great advantages; but his knowing, for they all appeared gentlemen of cultivated manners and he has frequently seen the subject good education.

this distinguished Professor comthat are external; to perform operations for the removal of dismedicine, when local diseases are lost parts. Thus the method she produced by constitutional de- would adopt in uniting a fracture rangement. Surgery is usually in the bone of a dog, will show divided into the Principles and you the manner in which union Practice. The first are learned would happen in the fracture of a

from observations on the living when diseased, by dissection of the dead, and by experiments made on living animals, Our Theatre, St. Thomas's Hospital, deductions from these sources, furnish us with the means of knowing a malady by its symptoms, the alteration of structure in a Ar half-past Seven this Theatre part when diseased, and the vawas crowded in every part, by rious ways in which Nature atupwards of four hundred Students, tempts the reparative process, of the most respectable descrip- both to external and internal parts. tion; in fact we never before A man who has seen much of witnessed so genteel a Surgical morbid preparations, possesses ledge cannot be perfect unless under dissection, in which he must About Eight o'clock, Sir Astley himself have assisted. In the Cooper arrived, and was receiv- surgical science hypothesis should ed with the most enthusiastic be entirely discarded. And sound applause; when it had ceased, theory, derived from actual observations and experience, alone menced his discourse by observe encouraged. The first is an ignising,-That, while it is the pra- fatuus that is sure to mislead; vince of the Physician to attend the last a polar star, a never failto internal diseases, it is the duty ing guide. Experiments on living of the Surgeon to attend to those animals have been found of the greatest utility in directing us to a knowledge of the means by which eased parts; and to know how to Nature acts in the reparation of regulate the system by the use of injuries, and in the restoration of

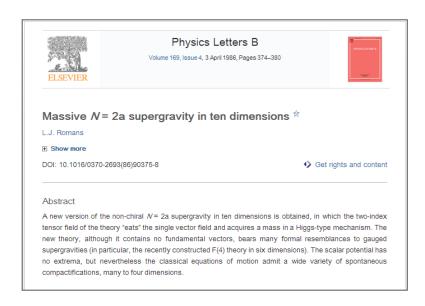
Hypothesis 2a: Some ideas are ahead of their time 'aka Sleeping beauties'

The Sleeping Beauty

- L.J. Romans, Physics Letters B
- Published in 1986.
- Article only cited 10 years after publication
- Then cited intensively more than 60 times

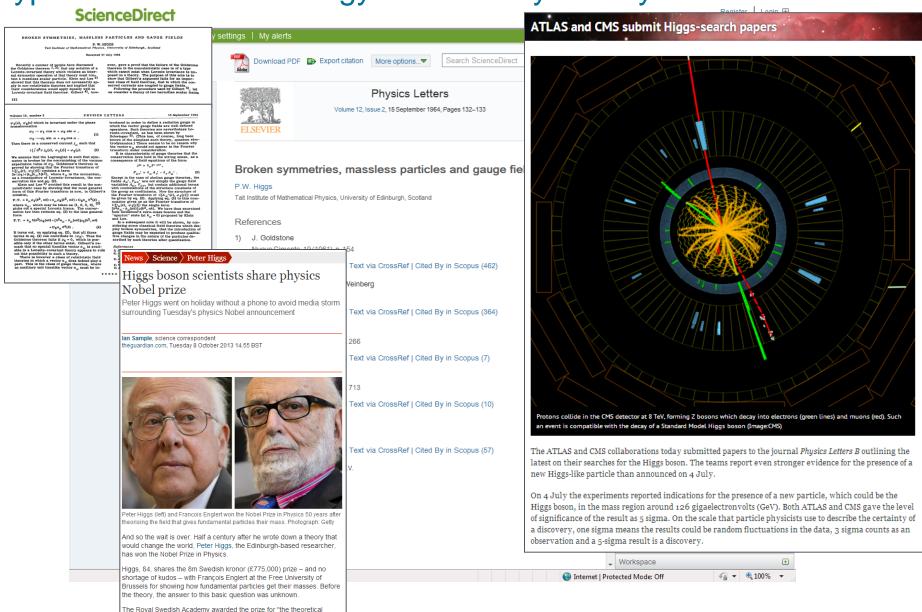
The Prince

J. Polchinski, Physics Review Letters 75
Published in 1995
Picked up Romans' articles





Hypothesis 2b: Technology is not always ready for science



discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles, and which recently was confirmed

Hypothesis 3: It's an issue of funding

"a growing cited half-life might also reflect major structural shifts in the way science is funded and the way scientists are rewarded. A gradual move to fund incremental and applied research may result in fewer fundamental and theoretical studies being published. Giving credit to these founders may require authors cite an increasingly aging literature." Phil Davies

Basic Research Often Mocked, Targeted for Budget Cuts Due to Lack Of Public Understanding

To protect funding for basic research, the foundation for all science applications, scientists need to do a better job explaining the value of their work, panelists said at the AAAS Forum on S&T Policy.

66 The great beyond: will the UK science budget be cut by 40%? Jenny Rohn



Introduction: Why feedback?	5 mins	
Feedback for RESEARCHERS	8 mins	Dowt 4
Feedback for PURCHASERS Current Feedback Systems Future Developments	8 mins 4 mins	Part 1
What Feedback Tells Us		
Trends in backfiles	8 mins	
Possible explanations	4 mins	
The role of the librarian	4 mins	
		Part 2
Questions	10 mins	
		J



Thank you!

For queries about E-PIC, speak to me afterward, or e-mail me at r.rogan@elsevier.com

