

# Médias sociaux et communication savante

Vincent Larivière  
EBSI-UdeM

Usages et culture numériques

Université de Montréal

Faculté des arts et des sciences

2 mai 2014

NATURE | LETTER



[日本語要約](#)

## Video game training enhances cognitive control in older adults

J. A. Anguera, J. Boccanfuso, J. L. Rintoul, O. Al-Hashimi, F. Faraji, J. Janowich, E. Kong, Y. Larraburo, C. Rolle, E. Johnston & A. Gazzaley

[Affiliations](#) | [Contributions](#) | [Corresponding authors](#)

Nature **501**, 97–101 (05 September 2013) | doi:10.1038/nature12486

Received 16 January 2013 | Accepted 18 July 2013 | Published online 04 September 2013

- PDF
- Citation
- Reprints
- Rights & permissions
- Article metrics

Cognitive control is defined by a set of neural processes that allow us to interact with our complex environment in a goal-directed manner<sup>1</sup>. Humans regularly challenge these

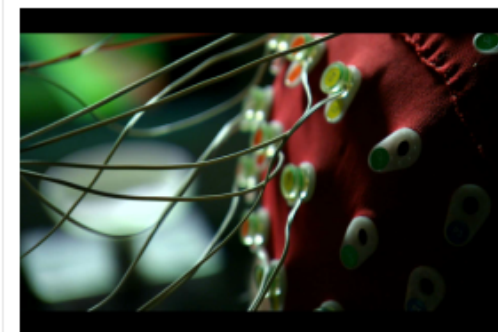
### Editor's summary

[العربية](#)

Our ability to multitask and our capacity for cognitive control decline linearly as we age. A new study shows that cognitive training can help repair this decline. In older adults aged between 60 and ...

### Related video

Rewing up brain skills



▶ PLAY ▶▶ 00:00 / 03:07

Total citations



Web of Science



CrossRef



Scopus

Online attention



Altmetric score (what's this?)

- Tweeted by 497
- On 39 Facebook pages
- Mentioned in 19 Google+ posts
- Picked up by 64 news outlets
- 1 Reddit
- Blogged by 26
- 1 F1000
- 2 Video

View less

J. A. Anguera, J. Boccanfuso, J. L. Rintoul, O. Al-Hashimi, F. F. Larraburo, C. Rolle, E. Johnston & A. Gazzaley

Affiliations | Contributions | Corresponding authors

Nature 501, 97–101 (05 September 2013) | doi:10.1038/nature12486  
Received 16 January 2013 | Accepted 18 July 2013 | Published online 04 September 2013

- PDF
- Citation
- Reprints
- Rights & permissions
- Article metrics

Cognitive control is defined by a set of neural processes that allow us to interact with our complex environment in a goal-directed manner<sup>1</sup>. Humans regularly challenge these



PLAY 00:00 / 03:07

OPEN ACCESS PEER-REVIEWED  
RESEARCH ARTICLE

7,527	17	45	17
VIEWS	CITATIONS	SAVES	SHARES

# The Effects of Aging on Researchers' Publication and Citation Patterns

Yves Gingras , Vincent Larivière, Benoît Macaluso, Jean-Pierre Robitaille

Published: December 29, 2008 • DOI: 10.1371/journal.pone.0004048

Article	About the Authors	Metrics	Comments	Related Content
---------	-------------------	---------	----------	-----------------

Download PDF

Print Share

- Abstract
- Introduction
- Methods
- Results
- Discussion
- Acknowledgments
- Author Contributions
- References

## Abstract

The average age at which U.S. researchers receive their first grant from NIH has increased from 34.3 in 1970, to 41.7 in 2004. These data raise the crucial question of the effects of aging on the scientific productivity and impact of researchers. Drawing on a sizeable sample of 6,388 university professors in Quebec who have published at least one paper between 2000 and 2007, our results identify two turning points in the professors' careers. A first turning point is visible at age 40 years, where researchers start to rely on older literature and where their productivity increases at a slower pace—after having increased sharply since the beginning of their career. A second turning point can be seen around age 50, when researchers are the most productive before their average scientific impact is at its lowest. Our results also show that older

- Subject Areas
- Aging
  - Careers
  - Careers in research
  - Creativity
  - Science policy

### Saved

2

43

7,527	17	45	17
VIEWS	CITATIONS	SAVES	SHARES

## Researchers' Publication and Citation Patterns

Jean-Pierre Robitaille

doi:10.1371/journal.pone.0004048

### Viewed

Total Article Views	HTML Page Views			PDF Downloads	XML Downloads	Totals
	PLOS	PMC	Totals			
7,527	6,145	335	6,480	842	165	1,007
<small>Dec 29, 2008 (publication date) through Feb 13, 2014*</small>						
				15.54% of article views led to PDF downloads		

Cumulative Views

Months

■ Compare average usage for articles published in 2008 in the subject area.

Anatomy and physiology | Show reference set

\*Although we update our data on a daily basis, there may be a 48-hour delay before the most recent numbers are available. PMC data is posted on a monthly basis and will be made available once received.

7

- Article
- Abstract
- Introduction
- Methods
- Results
- Discussion
- Acknowledgments
- Author Contributions
- References

### Discussed

17

1

1

Search

[Information on PLOS Article-Level Metrics](#)  
 Questions or concerns about usage data? [Please let us know.](#)

# Utilisation des médias sociaux

- Twitter en croissance
  - 230 millions d'utilisateurs actifs, 500 millions de tweets par jour
  - 39% d'augmentation des utilisateurs entre 09/2012 et 09/2013
  - 3% de la population mondiale (16% États-Unis)
- Utilisation par les chercheurs
  - 1 professeur sur 40 (Royaume-Uni et États-Unis)
  - 9% des chercheurs l'utilisent pour le travail

# Que mesure-t-on?

- Impact scientifique?
  - Disponible plus rapidement que les citations
- Impact social?
  - Diffusion de la science par le “public”
- Buzz?

Ces “indicateurs” sont de plus en plus utilisés dans l'évaluation de la recherche (et des chercheurs) aux États-Unis et en Europe.



# Quelques résultats...

## Articles les plus twittés:

Catastrophe / Internet et médias sociaux / Curiosité  
Découverte scientifique / Santé / Communication savante

Article	Journal	C	T
Hess et al. (2011). Gain of chromosome band 7q11 in papillary thyroid carcinomas of young patients is associated with exposure to low-dose irradiation	PNAS	9	963
Yasunari et al. (2011). Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident	PNAS	30	639
Sparrow et al. (2011). Google Effects on Memory: Cognitive Consequences of Having Information at Our Fingertips	Science	11	558
Onuma et al. (2011). Rebirth of a Dead Belousov–Zhabotinsky Oscillator	Journal of Physical Chemistry A	--	549
Silverberg (2012). Whey protein precipitating moderate to severe acne flares in 5 teenaged athletes	Cutis	--	477
Wen et al. (2011). Minimum amount of physical activity for reduced mortality and extended life expectancy: a prospective cohort study	Lancet	51	419
Kramer (2011). Penile Fracture Seems More Likely During Sex Under Stressful Situations	Journal of Sexual Medicine	--	392
Newman & Feldman (2011). Copyright and Open Access at the Bedside	New England Journal of Medicine	3	332
Reaves et al. (2012). Absence of Detectable Arsenate in DNA from Arsenate-Grown GFAJ-1 Cells	Science	5	323
Bravo et al. (2011). Ingestion of Lactobacillus strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve	PNAS	31	297