

# **Supporting the Impact of Health Sciences Research in Trinity**

Niamh Brennan  
Research Informatics, Trinity College Dublin

September 15th, 2016, TBSI

# Bibliometrics



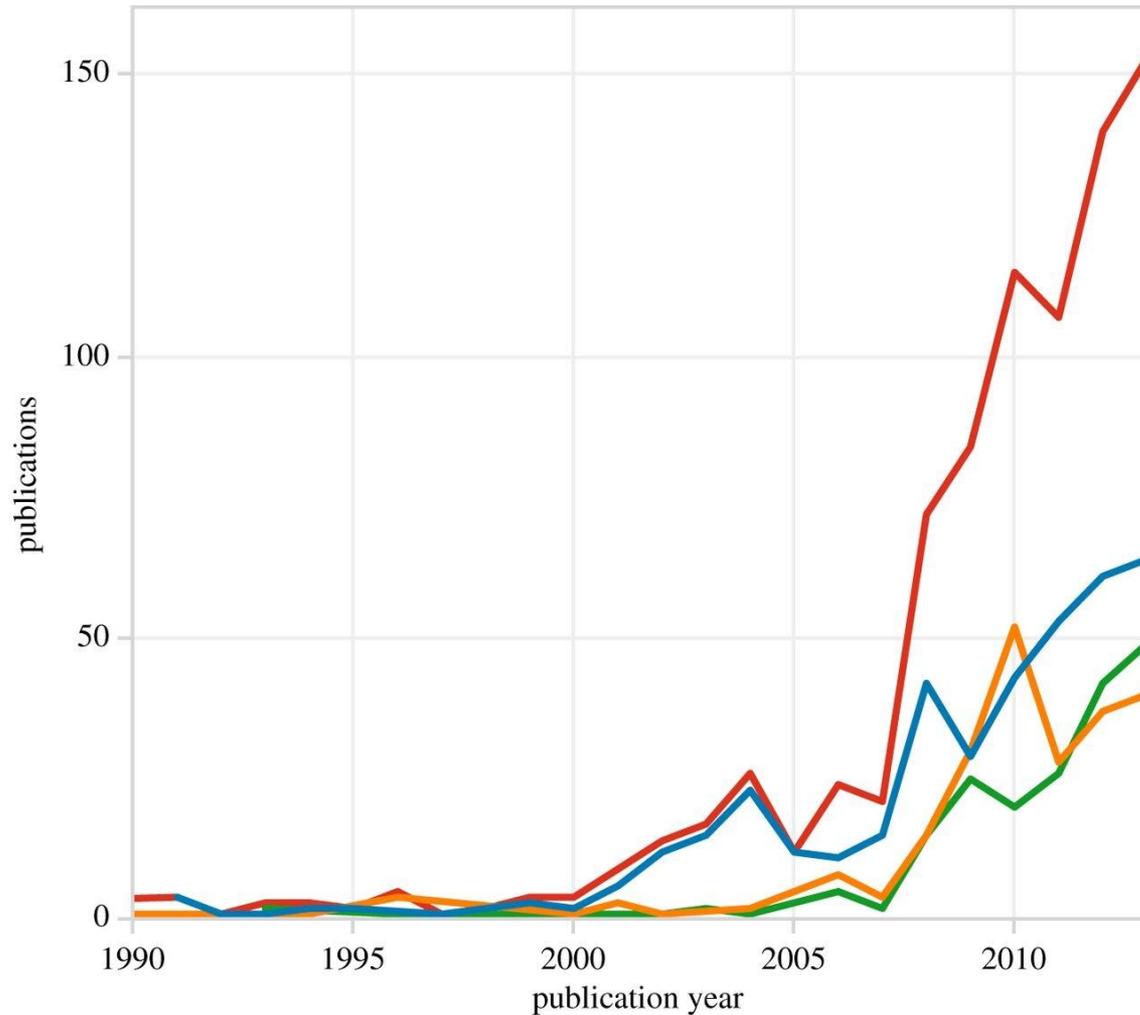
SciVal



THOMSON REUTERS  
Web of Science

# Institutional Data

From local CRIS (Current Research Information Systems)



Trinity's Research Support System is the sole source of data on research inputs & outputs by institutional units, schools, departments... linked to HR data...

# Case Studies

## Search REF Impact Case Studies

Browse the index below or search all Case Studies using keywords [e.g. "NHS"].

Search

See all case studies

Learn about [advanced search options](#) and read our [Terms of Use](#).

### Browse the index

Submitting Institution

Unit of Assessment

Summary Impact Type

Research Subject Area

Impact UK Location

Impact Global Location

### Submitting Institution ?

 View by region

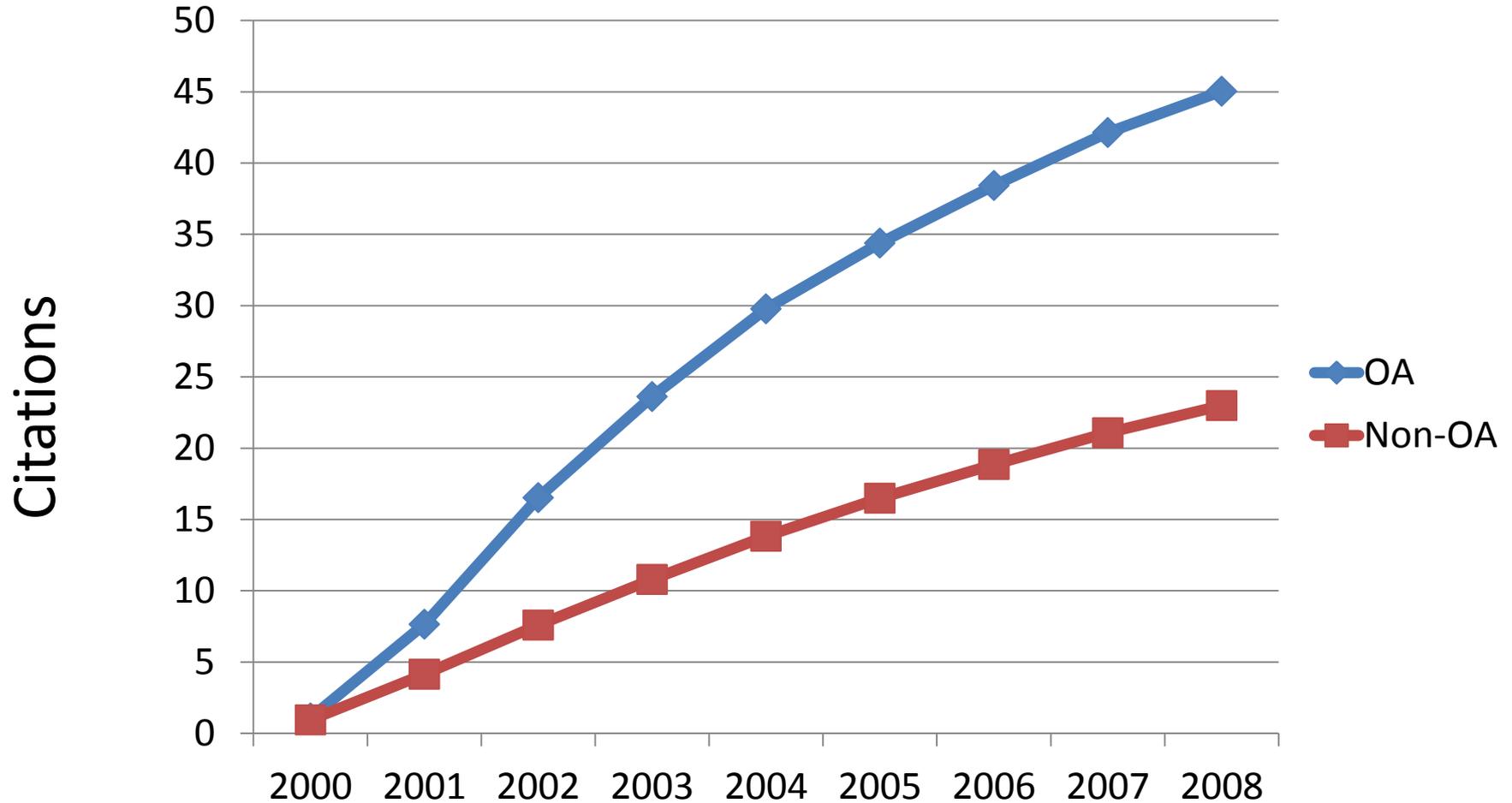
 View by income category ?

<u>East</u>	(453)	<u>East Midlands</u>	(435)
<a href="#">Anglia Ruskin University</a>	(32)	<a href="#">Bishop Grosseteste University</a>	(6)
<a href="#">University of Bedfordshire</a>	(24)	<a href="#">De Montfort University</a>	(15)
<a href="#">University of Cambridge</a>	(227)	<a href="#">University of Derby</a>	(21)
<a href="#">Cranfield University</a>	(23)	<a href="#">University of Leicester</a>	(86)
<a href="#">University of East Anglia</a>	(64)	<a href="#">University of Lincoln</a>	(35)

# Open Access



# Clinical medicine





**2017:** ‘...opening up by default all scientific data produced by future projects under the €77 billion Horizon 2020 research and innovation programme, to ensure that the scientific community can re-use the enormous amount of data they generate.’

# ReCap: H2020 Open Data Requirements

All H2020 programmes & mandatory from January 2017

## Proposal stage:

*These questions are asked on the **proposal** form:*

- What type of data will the project generate?
- What kinds of standards will be used?
- How will be data be shared & made available for verification & re-use? If the data cannot be made available, explain why.
- How will the data be curated and preserved?

## Project stage:

*The following will be required for **all** funded projects:*

- Initial Data Management Plan: 6 months after project begins
- Mid-term Data Management Plan (DMP)
- Final DMP

## Post project...



## EC's Open Research Data Pilot

### Open Research Data Pilot

If your project is part of the Open Research Data Pilot (check your grant agreement), these are the minimal requirements:

- Write a data management plan. Use existing tools like Digital Curation Center's DMP online [dmponline.dcc.ac.uk](http://dmponline.dcc.ac.uk) which contains templates for H2020.
- Deposit data in a data repository. Check out [www.re3data.org](http://www.re3data.org), a global a registry of data repositories. If you cannot find one, use OpenAIRE/CERN's catch-all repository [www.Zenodo.org](http://www.Zenodo.org).
- Provide information on the tools needed to use the raw data to validate the results (or provide the tools directly).

OpenAIRE compiles and maintains a list of resources that help you out in understanding and implementing the requirements of the Data Pilot.

For start you may download our Data Pilot factsheet at [www.openaire.eu/services-factsheets](http://www.openaire.eu/services-factsheets) and check out our support pages at [www.openaire.eu/opendatapilot](http://www.openaire.eu/opendatapilot).

**Can you opt in?** Find the H2020 areas that the projects are automatically part of the pilot at [www.openaire.eu/opendatapilot](http://www.openaire.eu/opendatapilot). Projects in other areas can participate on a voluntary basis.

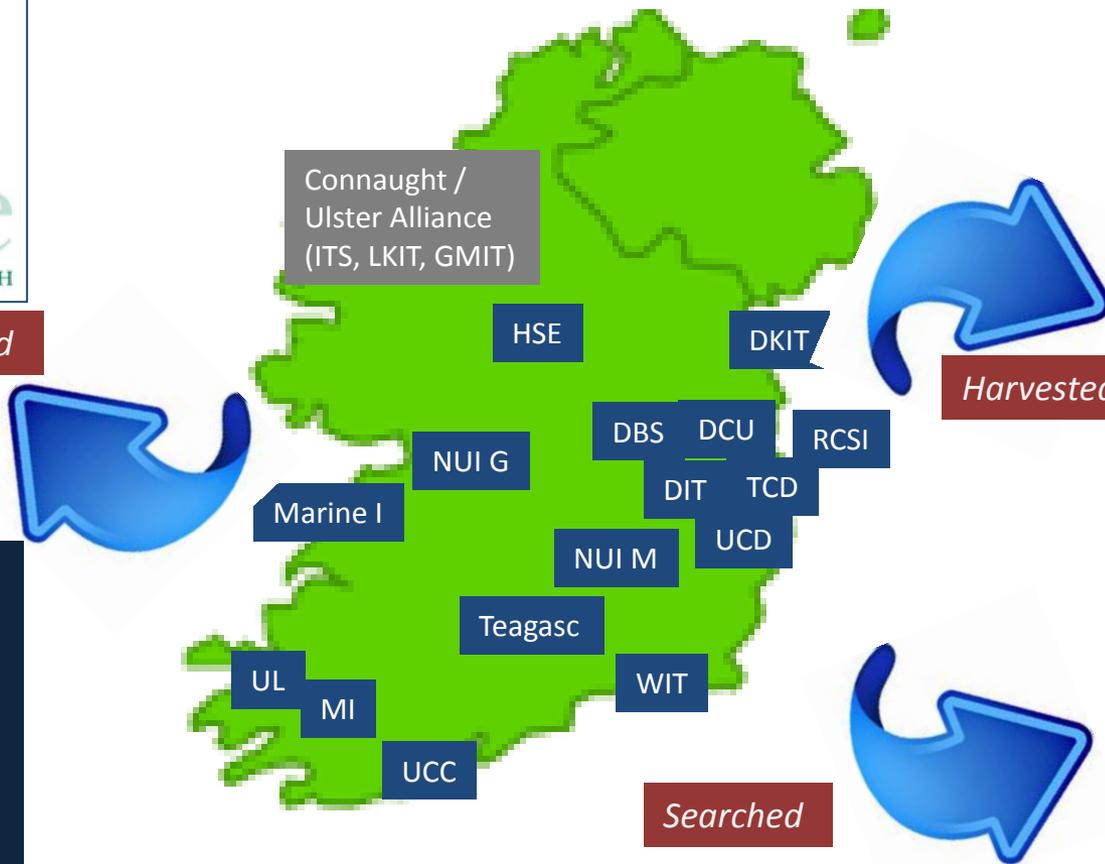
**Can you opt out?** With the right justification, projects may at any stage opt out of the Pilot. For more information, see [www.openaire.eu/opendatapilot](http://www.openaire.eu/opendatapilot).

<https://www.openaire.eu/services-factsheets>

# Ireland's Open Access Repository Network



Harvested



- Greater discoverability
- Higher impact
- All research outputs

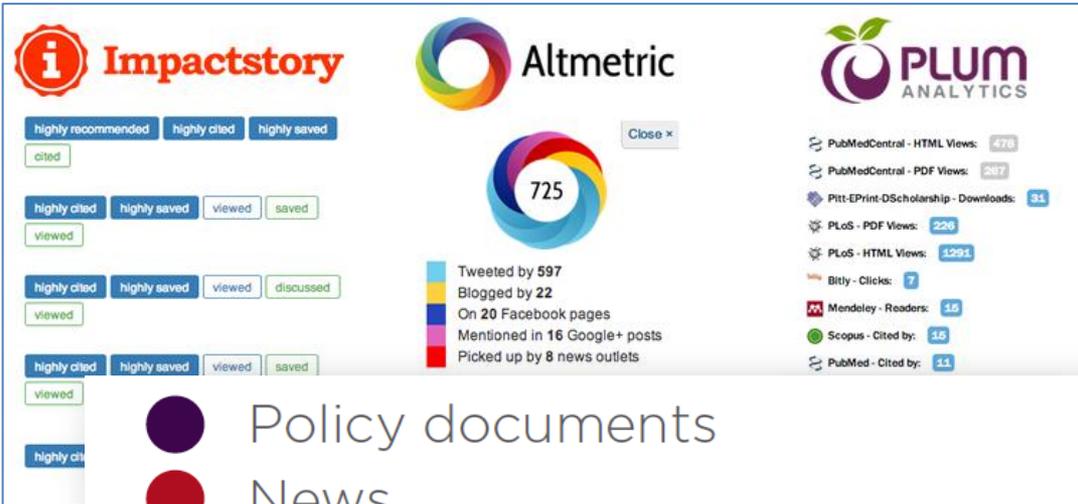
- Ireland's OA Repository network: 26+ institutions
- All universities, many other research institutes
- National Open Access Portal: RIAN (<http://rian.ie>) – RIAN: Higher Education Authority- funded



**“Open Access to research publications, research data and educational resources: an new trinity for a new Enlightenment”**

**- John Willinsky (Stanford University)**

# Alternative metrics for public engagement: tracking news media, social media, wikipedia references, policy paper references and more.



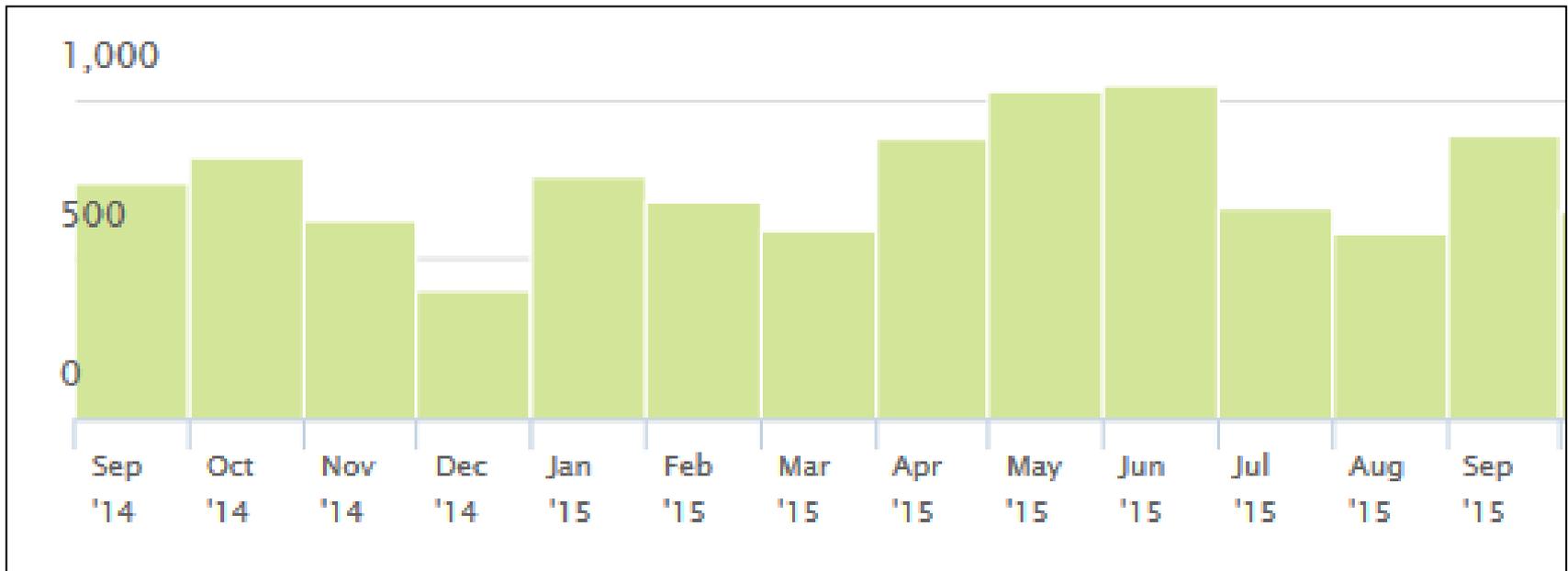
- Policy documents
- News
- Blogs
- Twitter
- Post-publication peer-reviews
- Facebook
- Sina Weibo
- Wikipedia
- Google+
- LinkedIn
- Reddit
- Faculty1000
- Q&A (stack overflow)
- Youtube
- Pinterest

Image

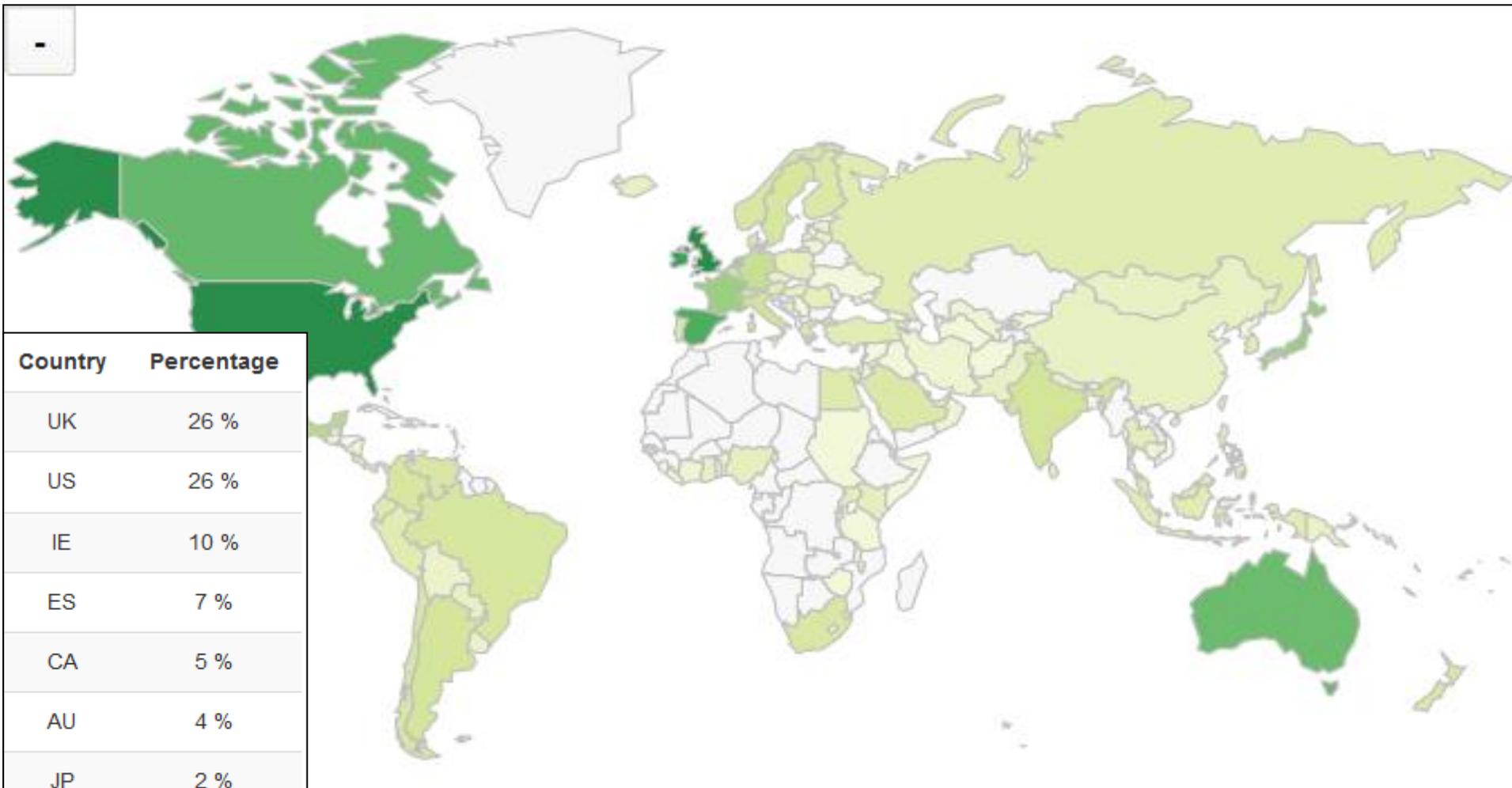
# TCD FHS societal reach and influence

FHS papers have generated over 21,000 social media mentions, news stories, policy document citations or Wikipedia references over the past 2 years.

- 21,125** Overall mentions
- 1,033** News stories
- 17,925** Twitter mentions
- 13** Policy document references (*underestimate*)
- 77** Wikipedia references



## Location of 17,925 Twitter mentions of FHS papers 2014-2016



**Country**    **Percentage**

UK            26 %

US            26 %

IE            10 %

ES            7 %

CA            5 %

AU            4 %

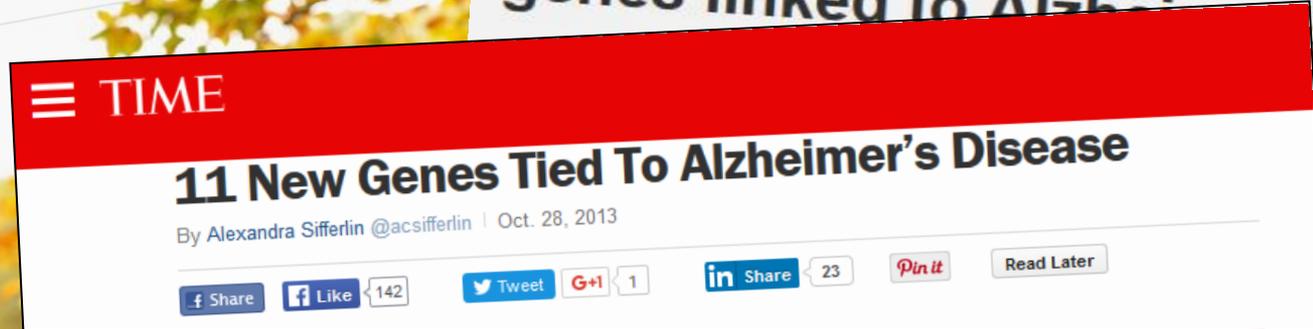
JP            2 %

FR            2 %

NL            2 %

Other        15 %

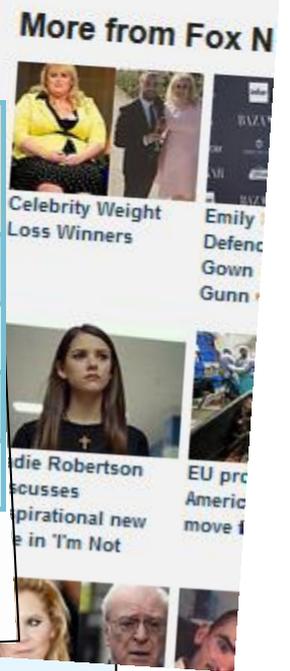
This paper has generated 46 news stories in 38 news sources including The New York Daily News, The Guardian, the Daily Mail..



### Demographic breakdown of this paper's Twitter mentions

Members of the public	65%
Scientists	23%
Practitioners (doctors, other healthcare professionals)	7%
Science communicators (journalists, bloggers, editors)	5%

The researchers, who published their study in the journal *Nature Genetics*, plan to expand the data set to look for rare variants of the genes that may help to explain the different ways the disease can develop. That may also yield clues for better drugs as well. Currently, medications can only reduce some of the cognitive symptoms of Alzheimer's without affecting its basic disease-causing processes.



[Citation](#) [Reprints](#)

Interdisciplinarity

# How Interdisciplinary are you? – the Nature Quiz

## 1. A cell is...

- a place to hold a prisoner
- a source of electrical energy, as in a battery
- the basic unit of a living organism
- a set of experimental conditions, often representing one of several treatment groups

“80% of the research case studies that were submitted [to the UK REF] to show significant impact were interdisciplinary in nature”

“One striking aspect is the impact interdisciplinary research can achieve”

“...can lead to the generation of deeper and longer standing impact than would be possible for researchers working in isolation”

**“INTERDISCIPLINARY RESEARCH IS ON THE RISE”**

**INTERDISCIPLINARY RESEARCH TAKES TIME TO HAVE AN IMPACT**

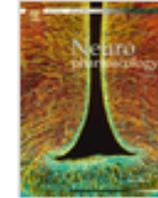
**SOME FIELDS ARE MORE INTERDISCIPLINARY THAN OTHERS ...  
AND SO ARE SOME COUNTRIES**





## Neuropharmacology

Volume 89, February 2015, Pages 193–203



First-in-class thyrotropin-releasing hormone (TRH)-based compound binds to a pharmacologically distinct TRH receptor subtype in human brain and is effective in neurodegenerative models

Julie A. Kelly<sup>a</sup>, Noreen T. Boyle<sup>b, 1</sup>, Chiara Stefanini<sup>d</sup>, Oliviero L. Gobbo<sup>e</sup>, Gaia A. Walsh<sup>h</sup>, Alice Vajda<sup>a</sup>, Margaret M. Goggin<sup>a</sup>, David J. Brayden<sup>g</sup>, John J. Callanan<sup>k, g</sup>, Keith O'Boyle<sup>n</sup>, Carvell H. Williams<sup>o</sup>, Orla Hardiman

[+ Show more](#)

Choose an option to locate/access this article

School of Psychology  
School of Biochemistry & Immunology  
School of Medicine  
School of Computer Science & Statistics  
School of Genetics & Microbiology



School of Social Sciences &  
Philosophy  
School of Psychology  
School of Medicine  
School of Education

# Growing Up in Ireland

National Longitudinal Study of Children

## THE LIVES OF 9-YEAR-OLDS

CHILD COHORT



International Journal of

# Geriatric Psychiatry

Research Article

## Dementia in primary care: the first survey of Irish general practitioners

Suzanne Cahill<sup>1,\*</sup>, Maeve Clark<sup>1</sup>, Cathal Walsh<sup>2</sup>, Henry O'Connell<sup>3</sup> and Brian Lawlor<sup>4</sup>

Version of Record online: 13 MAR 2006

DOI: 10.1002/gps.1464

Copyright © 2006 John Wiley & Sons, Ltd.

Issue



International Journal of  
Geriatric Psychiatry

Volume 21, Issue 4, pages  
319–324, April 2006

School of Nursing & Midwifery  
School of Social Work & Social Policy  
School of Medicine  
School of Computer Science &  
Statistics



ELSEVIER

Contents lists available at ScienceDirect

# Ageing Research Reviews

Journal homepage: [www.elsevier.com/locate/arr](http://www.elsevier.com/locate/arr)



Review

## The impact of cognitive training and mental stimulation on cognitive and everyday functioning of healthy older adults: A systematic review and meta-analysis



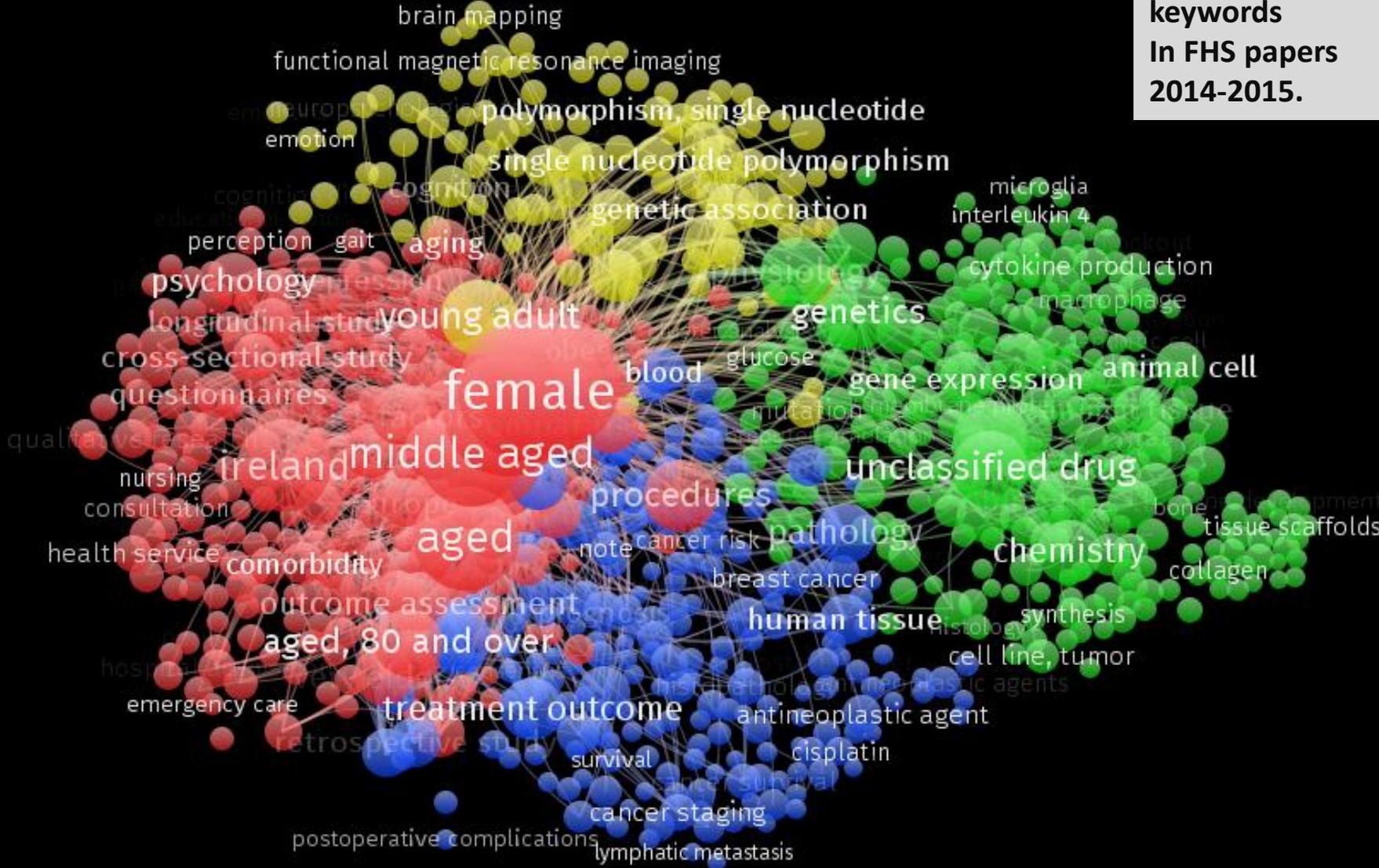
Michelle E. Kelly<sup>a,\*</sup>, David Loughrey<sup>a</sup>, Brian A. Lawlor<sup>a</sup>, Ian H. Robertson<sup>a</sup>,  
Cathal Walsh<sup>b</sup>, Sabina Brennan<sup>a</sup>

<sup>a</sup> The NEIL Programme, Institute of Neuroscience, Trinity College Dublin, Dublin 2, Ireland

<sup>b</sup> Department of Statistics, Trinity College Dublin, Dublin 2, Ireland

School of Psychology  
Research Institutes -FEMS  
School of Medicine  
School of Computer Science &  
Statistics

Mapping of co-occurrence of keywords  
In FHS papers  
2014-2015.





## Check...

- Your research profile.
- Your ORCID ID.
- Your representation in bibliometric databases.
- Journal selection – examine citation networks.
- Open Access- to publications AND data (where possible).
- Use citation tracking tools in bibliometric databases.
- Use alternative impact tools.
- Promote your work via social media and by every means possible.
- Conferences & meetings – and parties! [e.g. Captain James Cook & cure for scurvy – almost 300 years after its discovery].

## References

- Digital Science (March 2016) The Societal and Economic Impacts of Academic Research: international perspectives on good practice and managing evidence (Digital Research reports). Available at: [https://figshare.com/articles/Digital\\_Research\\_Report\\_The\\_Societal\\_and\\_Economic\\_Impacts\\_of\\_Academic\\_Research\\_International\\_perspectives\\_on\\_good\\_practice\\_and\\_managing\\_evidence/3117928](https://figshare.com/articles/Digital_Research_Report_The_Societal_and_Economic_Impacts_of_Academic_Research_International_perspectives_on_good_practice_and_managing_evidence/3117928)
- Jones, Alun, Cleere, Liam : Furthering the Research impact of UCD: Report of the Beyond Publications Committee. University College Dublin, 2014-05. Available at: <http://hdl.handle.net/10197/7292>
- Nature (2015), How interdisciplinary are you? [quiz]. Available at: <http://www.nature.com/news/how-interdisciplinary-are-you-1.18362>
- NISA. (2016a). Factsheet 16: Measuring impact and engagement in university research. Available at: [www.innovation.gov.au/page/measuringimpact-and-engagement-university-research](http://www.innovation.gov.au/page/measuringimpact-and-engagement-university-research)
- Van Norden, Richard (2015), Interdisciplinary research by the numbers, Nature, September 15 2015. Available at : <http://www.nature.com/news/interdisciplinary-research-by-the-numbers-1.18349>