Supporting the Impact of Health Sciences Research in Trinity

Niamh Brennan
Research Informatics, Trinity College Dublin

September 15th, 2016, TBSI
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 all Case Studies...  

Search  

See all case studies

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## Browse the index

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<th>Impact Global Location</th>
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Clinical medicine

Data: Gargouri & Harnad, 2010
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

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 which contains templates for H2020.

- Deposit data in a data repository. Check out 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.

- 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 https://www.openaire.eu/services-factsheets and check out our support pages at 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. 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.
Ireland’s Open Access Repository Network

- Greater discoverability
- Higher impact
- All research outputs

- Ireland’s OA Repository network: 26+ institutions
- All universities, many other research institutes
“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.
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

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
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<tr>
<td>UK</td>
<td>26 %</td>
</tr>
<tr>
<td>US</td>
<td>26 %</td>
</tr>
<tr>
<td>IE</td>
<td>10 %</td>
</tr>
<tr>
<td>ES</td>
<td>7 %</td>
</tr>
<tr>
<td>CA</td>
<td>5 %</td>
</tr>
<tr>
<td>AU</td>
<td>4 %</td>
</tr>
<tr>
<td>JP</td>
<td>2 %</td>
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<tr>
<td>FR</td>
<td>2 %</td>
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<tr>
<td>NL</td>
<td>2 %</td>
</tr>
<tr>
<td>Other</td>
<td>15 %</td>
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Demographic breakdown of this paper’s Twitter mentions

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<tr>
<th></th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Members of the public</td>
<td>65%</td>
</tr>
<tr>
<td>Scientists</td>
<td>23%</td>
</tr>
<tr>
<td>Practitioners (doctors, other healthcare professionals)</td>
<td>7%</td>
</tr>
<tr>
<td>Science communicators (journalists, bloggers, editors)</td>
<td>5%</td>
</tr>
</tbody>
</table>

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.
Interdisciplinarity
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

http://www.nature.com/news/how-interdisciplinary-are-you-1.18362
“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
Number of cross-school co-authored publications in TCD per school*. 

Number of TCD Schools who have NOT co-authored a paper with at least one other TCD school = ZERO

*Source: TCD RSS

**Purple** - Arts, Humanities, Social Sciences
**Blue** – Engineering, Mathematics, Sciences
**Green** – Health Sciences
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, Noreen T. Boyle, Chiara Stefanini, Oliviero L. Gobbo, Gaia A. Walsh, Alice Vajda, Margaret M. Goggin, David J. Brayden, John J. Callanan, Keith O'Boyle, Carvell H. Williams, Orla Hardiman

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School of Psychology
School of Biochemistry & Immunology
School of Medicine
School of Computer Science & Statistics
School of Genetics & Microbiology
Dementia in primary care: the first survey of Irish general practitioners

Suzanne Cahill¹,²†, Maeve Clark¹, Cathal Walsh², Henry O'Connell³ and Brian Lawlor⁴

Version of Record online: 13 MAR 2006
DOI: 10.1002/gps.1464

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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\textsuperscript{a, *}, David Loughrey\textsuperscript{a}, Brian A. Lawlor\textsuperscript{a}, Ian H. Robertson\textsuperscript{a}, Cathal Walsh\textsuperscript{b}, Sabina Brennan\textsuperscript{a}

\textsuperscript{a} The NEIL Programme, Institute of Neuroscience, Trinity College Dublin, Dublin 2, Ireland
\textsuperscript{b} Department of Statistics, Trinity College Dublin, Dublin 2, Ireland
Check...

- Your research profile.
- Your ORCID ID.
- Your representation in bibliometric databases.
- 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

- Nature (2015), How interdisciplinary are you? [quiz]. Available at: http://www.nature.com/news/how-interdisciplinary-are-you-1.18362