

Making the case for sharing with indicators of research data impact

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Library Connect webinar:
How to assist researchers in sharing their research data
22 October 2015



Motivation

Mandates get things done, but grudgingly.

To get high quality data sharing, we need to make it **rewarding**.

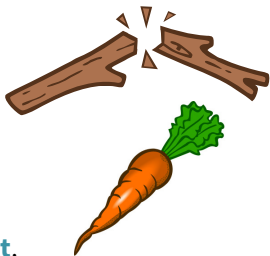
We need to demonstrate that datasets have **impact**.

CASRAI Dataset-Level Metrics:

http://www.casrai.org/Dataset_Level_Metrics

NISO Altmetrics Initiative:

http://www.niso.org/topics/tl/altmetrics_initiative/



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PLoS Article-Level Metrics (ALM/Lagotto)


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Data from: The first multi-gene phylogeny of the Macrostromorpha sheds light on the evolution of sexual and asexual reproduction in basal Platyhelminthes

Publication Date	2015
Type	Dataset
Publisher	Dryad Digital Repository
Authors	Toon Janssen, Dita B. Vizoso, Gregor Schulte, D. Timothy J. Littlewood, et al
DOI	http://doi.org/10.5061/dryad.b5908
Publisher URL	http://datadryad.org/resource/doi:10.5061/dryad.b5908
DataONE	http://dx.doi.org/10.5061/dryad.b5908?ver=2015-07-10T16:10:27.186-04:00

References Events Details Recommendations

▼ All Relations - ▼ All Sources -

The first multi-gene phylogeny of the Macrostromorpha sheds light on the evolution of sexual and asexual reproduction in basal Platyhelminthes 

October 02, 2015. <http://doi.org/10.1016/j.ympcv.2015.06.004>
References <http://doi.org/10.5061/dryad.b5908> via DataCite Data


Janssen et al. 2015 MPE dataset dryad


2015. <http://doi.org/10.5061/dryad.b5908/1>
Is part of <http://doi.org/10.5061/dryad.b5908> via DataCite Data

<http://wmdc.lagotto.io/>



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Publication Process with OA

Publication Year: 2012

Researchers: [Jason B. Colditz](#)

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Tweets ▾

33

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33

Likes ▾

9

Facebook

9

+1s ▾

8

Google+

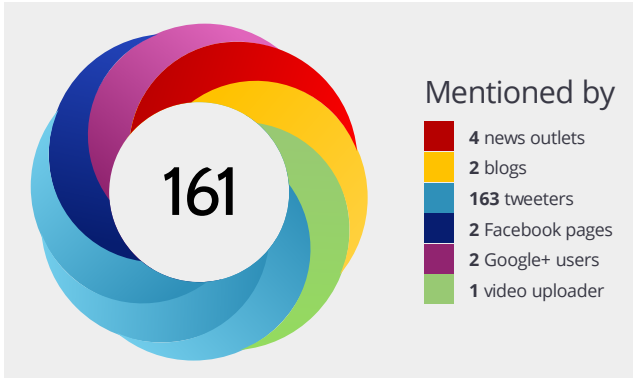
8

- ▶ Usage
- ▶ Captures
- ▶ Mentions
- ▶ Social media
- ▶ Citations

<http://plu.mx/>



Altmetric



<http://www.altmetric.com/>



ImpactStory

Holly Bik

- Overview
- Map
- Twitter fans
- articles (25)
- datasets (9)**
- posters (1)
- slide decks (17)
- software products (7)
- webpages (5)

9 Datasets

 10.9k views

 25 tweets

 6 shares

 Show tweets (23)

Sorting by default ▾

A Research-Driven Data Visualization Framework for High-Throughput Environmental Sequence Data

(2013) [figshare](#).

 view dataset

highly viewed

highly discussed

highly viewed

discussed

Data from: Dramatic shifts in benthic microbial eukaryote communities following the Deepwater Horizon oil spill

(2012) [Bik](#), Halanych, Sharma, et al. *Dryad Digital Repository*.

 view dataset

highly viewed

highly discussed

highly viewed

cited

PhyloSift: Phylogenetic analysis of genomes and metagenomes

(2013) [figshare](#).

 view dataset

highly viewed

highly viewed

discussed

discussed

<https://impactstory.org/>



Other notable services



Google Scholar

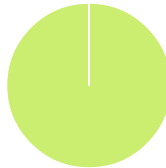


9.13

RG Score

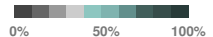
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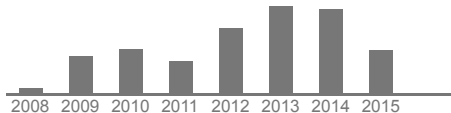
Other notable services



Google Scholar



Citation indices	All	Since 2010
Citations	421	364
h-index	11	10
i10-index	15	12



Google Scholar – <https://scholar.google.co.uk/>



Other notable services



Google Scholar



Christopher A. McMahon



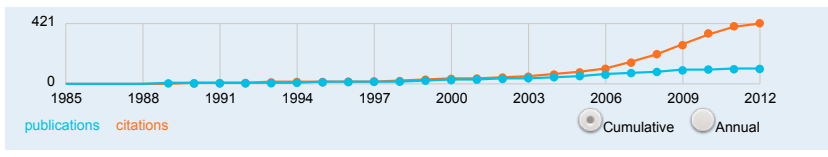
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Publications: [116](#) | Citations: [499](#)

Fields: [Social Issue](#), [Software Engineering](#), [Philosophy](#)

Collaborated with [991 co-authors](#) from 1989 to 2012 | Cited by [884 authors](#)



Microsoft Academic Search –
<http://academic.research.microsoft.com/>



Data papers and data journals



Data papers

UAV Survey Data from Clifton Camp
(ST56557330), Bristol, UK

Authors: [Stephen Gray](#) 

Murphy, F., Jefferies, N., & Ingraham, Thomas. (2015). *Giving Researchers Credit for their Data: Jisc Research Data Spring, July 2015* (version 3).

Available from Figshare:

<http://doi.org/10.6084/m9.figshare.1483297>



figshare

	A	B	
1	key	name	smiles
2	1	2-(2,4-dinitrobenzyl)pyridine	c1ccnc(c1
3	2	2-(1-piperidinyl)aniline	c1ccc(c(c1
4	3	2-(1-piperazinyl)pyrimidine	c1cnc(nc1
5	4	2-(1-piperazinyl)phenol	c1ccc(c(c1
6	5	2-(1-cyclohexenyl)ethylamine	C1CCC(=
7	6	2-(1-boc-4-piperidinyloxy)-n-methylacetamide	CC(C)(C)X
8	7	2-(1-boc-4-piperidinyloxy)-n-cyclopropylacetamide	CC(C)(C)X
9	8	2-(1-boc-4-piperidinyloxy)-n,n-dimethylacetamide	CC(C)(C)X

Sheet1 Sheet2 (empty) Sheet3 (empty)

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<http://dx.doi.org/10.6084/m9.figshare.1031637>
 Retrieved 08:40, Oct 05, 2015 (GMT)

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Authors

Jean-Claude Bradley
 Antony Williams
 Andrew Lang

Tags

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- melting point
- open notebook science

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Final thoughts

Encourage data sharing at your institution:

- ▶ Make it as easy as possible to deposit data
- ▶ Provide stable bibliographic information and an identifier – this makes tracking citations easier
- ▶ Show depositors numbers of views and downloads
- ▶ Make these statistics available to other services via an API

Researchers are more likely to take care over sharing if they can see it makes a difference!



Further information

Ball, A. & Duke, M. (2015). *How to track the impact of research data with metrics*. Edinburgh, UK: Digital Curation Centre. Retrieved from <http://www.dcc.ac.uk/resources/how-guides/track-data-impact-metrics>

FORCE11, Data Citation Synthesis Group. (2014). *Joint declaration of data citation principles*. Retrieved from <https://www.force11.org/datacitation>

Ball, A. & Duke, M. (2015). *How to cite datasets and link to publications*. Edinburgh, UK: Digital Curation Centre. Retrieved from <http://www.dcc.ac.uk/resources/how-guides/cite-datasets>