

Increasing Visibility & Documenting Research Impact

ANDREA DINKELMAN – SCIENCE LIBRARIAN - UNL LIBRARIES

MARCH 8, 2016

Outline

- Library Guide: Measure Your Research Impact
- Strategies for Increasing Visibility
- Measuring & Documenting Research Impact
 - Journal, Author, Article
- Altmetrics
- Telling Your Story

Measure Your Research Impact

<http://unl.libguides.com/researchimpact>

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Measure Your Research Impact: Home

This guide provides information and resources about how to measure research impact.

Enter Search Words

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Why Does Research Impact Matter?

Knowing how to find evidence of research impact and document its significance is important for many types of activities:

- Promotion & tenure documentation
- Grant proposals and renewals
- Completing progress reports for funding agencies
- Department and/or program reviews

Acknowledgement

Much of the content in this guide was taken or adapted from the guide, [Measure Your Research Impact](#), developed by the University Libraries.

What is Research Impact?

A number of research organizations have defined research impact. As defined by Research Councils UK, "impact is the demonstrable contribution that excellent research makes to society and the economy. This involves academic, societal, and economic impact." <http://www.rcuk.ac.uk/innovation/impact/>

The Australian Research Council definition is quite similar. "Research impact is the demonstrable contribution that research makes to the economy, society, culture, national security, public policy or services, health, the environment, or quality of life, beyond contributions to academia." <http://www.arc.gov.au/research-impact-principles-and-framework>

The National Science Foundation reviews proposals in terms of **broader impacts criterion**. These include:

- Advance discovery and understanding while promoting teaching, training, and learning
- Broaden participation of under-represented groups
- Enhance infrastructure for research and education
- Broaden dissemination to enhance scientific and technological understanding
- Benefits to society

Questions?



Andrea Dinkelman

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Strategies for Increasing Visibility



Image: <http://www.carriedale.com/3-ways-stand-out-without-being-obnoxious/>

Establish Your Identity

Use the same variation of your name throughout your academic and professional career. If your name is common, consider adding a middle name to distinguish it from other authors.

Distinguish yourself from other authors.

Uniqueness of a name establishes a “presence” for an author.

Check your name in *Web of Science* and *Scopus*. Are there others with the same name?

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Distinct Author Record Sets: 304

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Record Sets Last Updated: March 2, 2016 Page 1 of

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Records: 427 A Sampling of Publications by this Author:			
2. <input type="checkbox"/> REDDY JK Also published as: REDDY J REDDY JANARDAN K REDDY J K	Northwestern University	ONCOLOGY (105) BIOCHEMISTRY MOLECULAR BIOLOGY (86) CELL BIOLOGY (84) LIFE SCIENCES BIOMEDICINE OTHER TOPICS (49) PATHOLOGY (42)	1967 - 2014

Author last name "reddy", Author first name "jay" Edit

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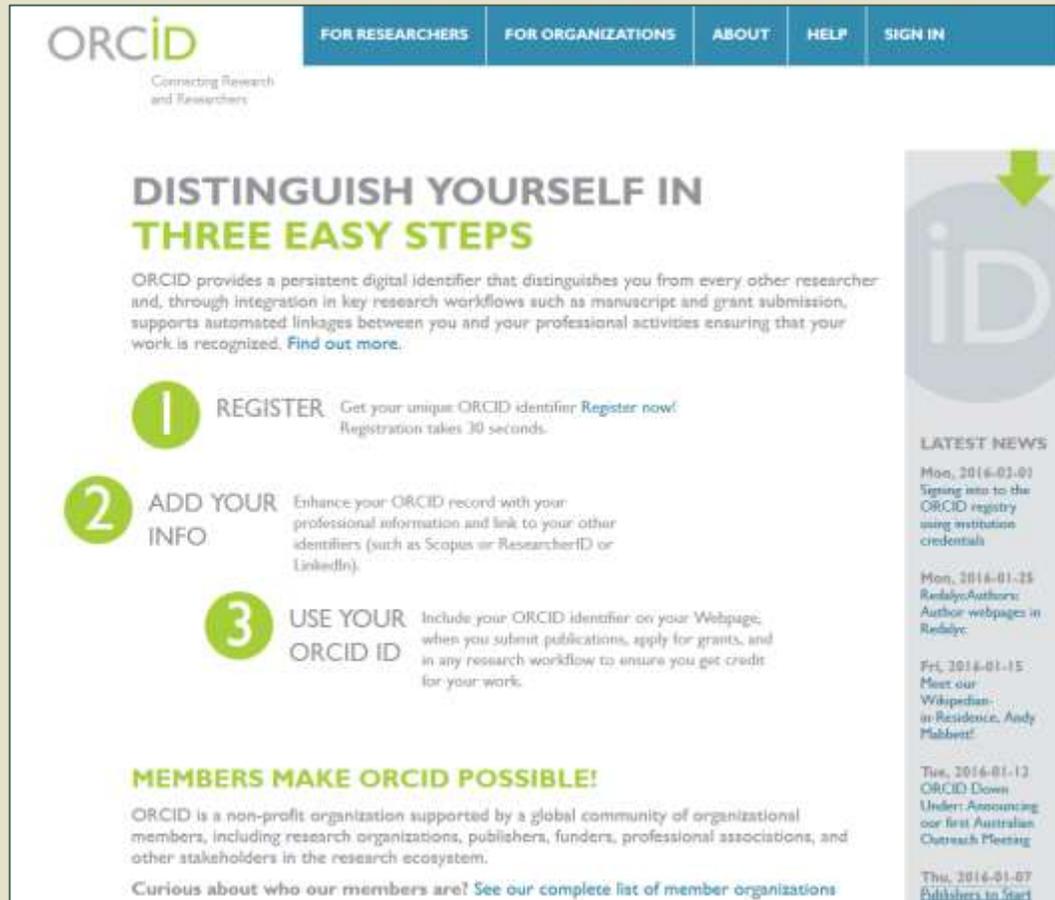
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<input type="checkbox"/> Reddy, Jay P.	1	Chemical Engineering	University of Leeds	Leeds	United Kingdom

Register for an ORCID ID.



The screenshot shows the ORCID website's registration process. At the top, there is a navigation bar with links for 'FOR RESEARCHERS', 'FOR ORGANIZATIONS', 'ABOUT', 'HELP', and 'SIGN IN'. The main heading is 'DISTINGUISH YOURSELF IN THREE EASY STEPS'. Below this, three numbered steps are listed: 1. REGISTER, 2. ADD YOUR INFO, and 3. USE YOUR ORCID ID. A 'LATEST NEWS' sidebar on the right contains several news items with dates and titles. At the bottom, there is a section for 'MEMBERS MAKE ORCID POSSIBLE!' with a link to see a list of member organizations.

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ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. [Find out more.](#)

- 1 REGISTER** Get your unique ORCID identifier. [Register now!](#)
Registration takes 30 seconds.
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- 3 USE YOUR ORCID ID** Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.

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In Situ Detection of Autoreactive CD4 T Cells in Brain and Heart Using Major Histocompatibility Complex Class II Dextramers

By: Massilamany, C (Massilamany, Chandirasegaran)^[1]; Gangaplara, A (Gangaplara, Arunakumar)^[1]; Jia, T (Jia, Ting)^[1]; Elowsky, C (Elowsky, Christian)^[2]; Li, QS (Li, Qingsheng)^[3,4]; Zhou, Y (Zhou, You)^[2]; Reddy, J (Reddy, Jay)^[1]

[Hide ResearcherID and ORCID](#)

Author	ResearcherID	ORCID Number
Reddy, Jay	K-7200-2014	http://orcid.org/0000-0003-4082-9254

JOVE-JOURNAL OF VISUALIZED EXPERIMENTS
Issue: 90
Article Number: e51679
DOI: 10.3791/51679
Published: AUG 2014
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Complement Component C5a Permits the Coexistence of Pathogenic Th17 Cells and Type I IFN in Lupus

Sudesh Pawaria*, Kritika Ramani*, Kelly Maers*, Youhua Liu†, Lawrence P. Kane†, Marc C. Levesque* and Partha S. Biswas*

Author Affiliations

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Abstract

Systemic lupus erythematosus (SLE) is a type I IFN (IFN-I)-driven autoimmune disorder with exaggerated B and Th cell responses. Th17 cells, a recently identified Th cell subset, have been strongly implicated in the pathogenesis of SLE. Because IFN-I suppresses the generation and expansion of Th17 cells in an IL-27-dependent manner, it is unclear how pathogenic Th17 cells are generated in SLE in the presence of an environment characterized by high IFN-I levels. In this study, we showed that activation of c5aR on murine macrophages blocked IFN-I-mediated IL-27 production, thus permitting the development of Th17 cells. C5aR activation on IFN-I-responsive macrophages inhibits IRF-1-mediated transactivation of IL-27 gene expression via the PI3K/Akt pathway. Consistently, C5aR-deficient mice exhibited increased IL-27 expression and fewer Th17 cells and consequently developed reduced lupus nephritis in comparison with wild-type mice. In support of these findings in mice, we found that C5a inhibited IFN-I-induced IL-27 production from macrophages of lupus subjects. Moreover, the level of serum C5a correlated with Th17 frequency in peripheral blood. Collectively, these data indicate an essential role for C5a in the generation of pathogenic Th17 responses in SLE. Thus, therapeutic strategies to block C5aR activation may be beneficial for controlling pathogenic Th17-mediated inflammation in SLE.

This article is featured in *In This Issue*, p.3179

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This Article

Published online before print
August 22, 2014, doi:
10.4049/jimmunol.1401122

The Journal of Immunology
October 1, 2014
vol. 193 no. 7 3179-3195

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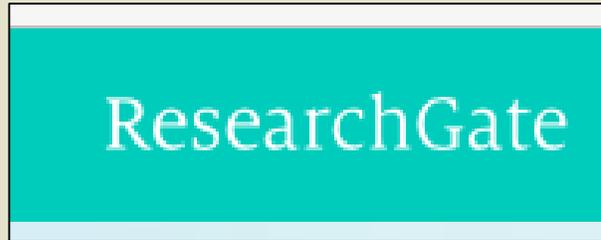
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- Also known as:** A. Dinkelman, A. L. Dinkelman
- Other IDs:** Scopus Author ID: 15847510600
- Employment (2):**
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Scopus Librarian
Source: Andrea L. Dinkelman | Created: 2016-02-10
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2011 | journal-article
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EID: 2-s2.0-79960986384
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Studies that found a citation advantage	46
Studies that found no citation advantage	17
Studies that were inconclusive, found non-significant data or measured other things than citation advantage for articles	7

Source: <http://sparceurope.org/oaca/>

Publish and Share Research Data

The screenshot shows the USDA Ag Data Commons Beta website. At the top left is the USDA logo and the text "Ag Data Commons Beta" and "ARS National Agricultural Library". On the top right are links for "Datasets", "About", "News", and "Log In/ Register". Below the header is a banner for the "Highlighted Program: Long Term Agroecosystem Research" with a search bar. A left sidebar lists "Topics" such as Agricultural Products, Agroecosystems & Environment, Animals & Livestock, Bioenergy, Food & Nutrition, Genomics & Genetics, Maps & Multimedia, and Plants & Crops. The main content area features "Highlighted Datasets" with three cards: an aerial view of a farm, blueberries, and a beetle. Below this is a "News" section with a date "2/23/16: New and Improved Functionality".

<https://data.nal.usda.gov/>

Ag Data Commons (ADC) provides access to a wide variety of open data relevant to agricultural research. We are a centralized repository for data already on the web, as well as for new data being published for the first time.

Measuring & Documenting Research Impact: Journal, Article, & Author



Image: <http://www.parksandrecreation.org/2013/April/Measuring-Performance--Impact-vs--Output/>

Journal Impact

Journal Impact Factor: measure of the frequency with which the average article in a journal has been cited in a particular year

The impact factor of a journal is calculated by dividing the number of current year citations to the source items published in that journal during the previous two years.

American Journal of Clinical Nutrition

Journal Impact Factor ⓘ	
Cites in 2014 to items published in:	2013 = 1948
	2012 = 2500
Sum:	4448
Number of items published in:	2013 = 332
	2012 = 325
Sum:	657
Calculation:	$\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{4448}{657} = \mathbf{6.770}$

Journal Citation Reports (JCR)

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Journals from: **subject categories NUTRITION & DIETETICS** [VIEW CATEGORY SUMMARY LIST](#)

Sorted by: **Impact Factor**

Journals 1 - 20 (of 77) ◀◀ [1 | 2 | 3 | 4] ▶▶▶

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⁱ					
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life
<input type="checkbox"/>	1	PROG LIPID RES	0163-7827	4825	10.015	12.204	2.500	22	8.1
<input type="checkbox"/>	2	ANNU REV NUTR	0199-9885	4699	8.359	9.660	0.500	18	>10.0
<input type="checkbox"/>	3	AM J CLIN NUTR	0002-9165	51613	6.770	7.328	1.510	339	9.6
<input type="checkbox"/>	4	NUTR REV	0029-6643	5837	6.076	5.708	0.958	71	7.3
<input type="checkbox"/>	5	ADV NUTR	2161-8313	1390	5.386	6.413	0.702	94	2.6
<input type="checkbox"/>	6	P NUTR SOC	0029-6651	4458	5.273	4.321	0.948	58	9.4
<input type="checkbox"/>	7	CRIT REV FOOD SCI	1040-8398	5935	5.176	6.028	1.250	112	8.9
<input type="checkbox"/>	8	INT J OBESITY	0307-0565	19644	5.004	5.283	1.113	231	8.6
<input type="checkbox"/>	9	CLIN NUTR	0261-5614	6603	4.476	4.533	0.762	164	6.4
<input type="checkbox"/>	10	INT J BEHAV NUTR PHY	1479-5868	4829	4.111	5.596	0.545	156	4.2

Not all journals have impact factors.

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A number of times each year we are asked why NSE does not have an impact factor. NSE is not eligible for a Thomson Scientific® impact factor due to its non-technical content. Recently impact factors are being looked at from various angles. Impact factors are not always a genuine means to measure a journal's worth. In fact, some deliberate manipulation of impact factors has occurred to falsely inflate some journals' impact. In reality, impact factors are just one way to measure a journal's importance. Other significant measures include the influence it has on education policy, how widely its papers are distributed and read, and the overall number of times a paper is cited by other researchers, even beyond the two-year period used to calculate an impact factor.

Impact factors vary by discipline.

Journal Citation Reports®

Journal Summary List

Sorted by: Impact Factor

Journals 1 - 20 (of 133)

Ranking is based on your journal and self selections.

Mark	Rank	Abbreviated Journal Title <small>(click for journal information)</small>	ISSN	JCR Data (j)					Eigenfactor® Metrics (j)		
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-Life	Eigenfactor® Score	Article Influence® Score
	1	TRANSFUSION EMERG DIS	1865-1674	1111	2.944	2.626	0.578	80	2.9	0.00413	0.726
	2	MSD VET ENTOMOL	0269-282X	2646	2.800	2.603	0.326	74	>10.0	0.00263	0.741
	3	VET RES	0920-4249	3879	2.615	3.520	0.463	123	6.4	0.00754	1.026
	4	VET COMP ONCOL	1470-5810	562	2.722	2.344	0.429	20	4.7	0.00154	0.644
	5	FISH SHELLFISH IMMUN	1850-4646	8732	2.674	2.996	0.367	370	5.3	0.01364	0.348
	6	VET MICROBIO	0378-1135	13252	2.513	2.870	0.557	409	8.1	0.02761	0.797
	7	VET PARASITOL	0304-4037	14372	2.490	2.635	0.461	434	8.7	0.02084	0.353
	8	ILAR J	1884-2020	1280	2.393	2.138	0.393	46	8.2	0.00188	0.649
	9	EQUINE VET J	0425-1444	3900	2.374	2.198	0.475	120	>10.0	0.00652	0.506
	10	ZOOBIOL PUBLIC HEALTH	1863-1959	1269	2.369	2.189	0.443	70	4.2	0.00434	0.672
	11	MED MYCOL	1369-3786	3334	2.335	2.325	0.400	105	5.7	0.00831	0.481
	12	PREV VET MED	0167-5877	4921	2.167	2.267	0.465	226	7.0	0.00878	0.618
	13	J FEIGH DIS	0140-7775	1760	2.056	2.112	0.378	119	9.9	0.00509	0.590
	14	COMP IMMUNOL MICROB	0147-9571	1411	2.015	2.214	0.318	44	6.8	0.00282	0.643
	15	VET CLIN N AM-FEEDIA	0749-0720	1406	2.000	2.217	0.343	35	>10.0	0.00215	0.484
	16	J MED ENTOMOL	0022-3585	7228	1.953	2.084	0.315	168	>10.0	0.00763	0.541
	17	J VET INTERN MED	0891-6640	3880	1.879	2.287	0.287	223	7.5	0.00942	0.626
	18	VET PATHOL	0300-9916	4488	1.869	1.976	0.949	99	>10.0	0.00226	0.802
	19	ANIMAL	1751-7211	3346	1.841	2.040	0.506	253	4.1	0.01107	0.509
	20	TRICHOGENOLOGY	0993-891X	13332	1.798	2.154	0.486	320	9.0	0.01455	0.519



Journal of Veterinary Cardiology

Volume 17, Issue 2, June 2015, Pages 77–82



Commentary

Weighing the impact (factor) of publishing in veterinary journals

Mary M. Christopher, DVM, PhD, Dipl ACVP, Dipl ECVP

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doi:10.1016/j.jvc.2015.01.002

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Abstract

The journal in which you publish your research can have a major influence on the perceived value of your work and on your ability to reach certain audiences. The impact factor, a widely used metric of journal quality and prestige, has evolved into a benchmark of quality for institutions and graduate programs and, inappropriately, as a proxy for the quality of individual authors and articles, affecting tenure, promotion, and funding decisions. As a result, despite its many limitations, publishing decisions by authors often are based solely on a journal's impact factor. This can disadvantage journals in small disciplines, such as veterinary medicine, and limit the ability of authors to reach key audiences. In this article, factors that can influence the impact factor of a journal and its applicability, including precision, citation practices, article type, editorial policies, and size of the research community will be reviewed. The value and importance of veterinary journals such as the Journal of Veterinary Cardiology for reaching relevant audiences and for helping shape disciplinary specialties and influence clinical practice will also be discussed. Lastly, the efforts underway to develop alternative measures to assess the

Author & Article Impact

Citation Searching Tools: Use the following to gather information about author impact (h-index) and article impact (times cited).

- Web of Science Core Collection
- Scopus
- Google Scholar

Web of Science Core Collection & Scopus can be used to create citation reports that include “times cited” information and h-index.

Caveat: The information obtained can vary greatly!

Author Metrics

h-index

- “The h-index is an index that attempts to measure both the productivity and citation impact of the published body of work of a scientist or scholar. The index is based on the set of the scientist's most cited papers and the number of citations that they have received in other publications.”
<http://en.wikipedia.org/wiki/H-index>
- developed by J.E. Hirsch and published in *Proceedings of the National Academy of Sciences of the United States of America* 102 (46): 16569-16572 November 15, 2005.

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Citing Articles without self-citations [?]: 1631

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h-index [?]: 30

Sort by: Times Cited – highest to lowest
◀ Page 1 of 18 ▶

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1. **Assessment of stress during handling and transport**
By: Grandin, T
 Conference: Symposium on Effects of Stress in Farm Animals at the 87th Annual Meeting of the ASAS Location: ORLANDO, FL Date: JUL 26, 1995
 Sponsor(s): ASAS

	2012	2013	2014	2015	2016	Total	Average Citations per Year
	238	240	399	223	19	2823	76.30
1. Assessment of stress during handling and transport	39	33	43	25	2	370	18.50

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Grandin, Temple
Colorado State University, Department of Animal Science, Fort Collins, United States
Author ID: 55825780300

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How farm animals react and perceive stressful situations such as handling, restraint, and transport	Grandin, T., Stoeley, C.	2015	Animals	0
Beef cattle welfare in the USA: identification of priorities for future research	Tucker, C.B., Coetzee, J.F., Stockley, J.M., ... Grandin, T., Schwartzkopf-Genswein, K.S.	2015	Animal Health Research Reviews	0
Implementing effective standards and scoring systems for assessing animal welfare on farms and slaughter plants (Book Chapter)	Grandin, T.	2016	Improving Animal Welfare: A Practical Approach: 2nd Edition	0
Welfare during transport of livestock and poultry (Book Chapter)	Grandin, T.	2016	Improving Animal Welfare: A Practical Approach: 2nd Edition	0

Scopus Scopus: SciVal URL Catalog Search Register Login Help

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Analyze author output

Grandin, Temple
Colorado State University, Department of Animal Science, Fort Collins, United States
Author ID: 55825780300

Documents (135) h-index (29) Citations (2780) Co-authors (150)

by source by type by year by subject area

Documents by source

Source	Documents
Applied Animal Behaviour Science	14
Journal of the American Veterinary Association	12
Journal of Animal Science	11
Livestock Handling and Transport	9
Improving Animal Welfare: A Practical Approach	8
Livestock Handling and Transport	7
Genetics and the Behavior of Domestic Animals	6
Meat Science	6
Paper American Society of Animal Production	6
Journal of Animal Development and Biology	4
Journal of Dairy Science	3
Irish Veterinary Journal	2
Journal of Food Protection	2
ADAC Publications	2
Professional Animal Scientist	2
Animals	2
Applied Animal Ethics	2
Veterinary Clinician of North America	2
Other	37.3%
Applied Animal ...	10.4%
Journal of the ...	9.0%
Journal of Anim...	8.2%
Livestock Handl...	7.0%
Improving Anima...	6.7%
Livestock Handl...	6.2%
Meat Science	4.5%
Genetics and th...	4.5%
Journal of Aust...	3.0%
Paper American ...	4.5%

Google Scholar



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Professor of Epidemiology, Iowa State University
Epidemiology, Food Safety, Infectious Disease, Research Synthesis, ISU-VDPAM
Verified email at iastate.edu - Homepage

Title	Cited by	Year
Research synthesis in veterinary science: Narrative reviews, systematic reviews and meta-analysis A O'Connor, J Sargeant The Veterinary Journal 206 (3), 261-267	1	2015
A critical review and meta-analysis of the magnitude of the effect of anthelmintic use on stocker calf production parameters in Northern US States P Baltzell, T Engelken, AM O'Connor Veterinary parasitology 214 (1), 2-11		2015
Review: Assessment of completeness of reporting in intervention studies using livestock: an example from pain mitigation interventions in neonatal piglets A O'Connor, R Anthony, L Bergamasco, JF Coetzee, RS Ozikamunhenga, ... animal, 1-11		2015
Management Factors Associated with Operation-Level Prevalence of Antibodies to Cache Valley Virus and Other Bunyamwera Serogroup Viruses in Sheep in the United States MT Meyers, CS Bahnson, M Hanlon, C Kopral, S Sriainlapaudom, ... Vector-Borne and Zoonotic Diseases 15 (11), 683-693		2015
Introduction to the special issue: Diseases, dilemmas, decisions: Epidemiological tools to find answers for difficult disease control problems. SCHWABE 2014 Symposium Honoring the Legacy of Dr Roger Morris. AM O'Connor, KD Stark Preventive veterinary medicine 122 (1-2), 211-212		2015

Google Scholar

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Citation indices	All	Since 2011
Citations	958	710
h-index	19	15
i10-index	28	24



Co-authors [View all](#)

Hans Coetzee, BVSc, Cert CHP, PhD, ...
Suzanne Millman

i10-index: The number of publications with at least 10 citations. This metric is unique to Google Scholar.

Article-Level Metrics

- Metrics based on **use** of the work or its **subsequent application**.
- **Examples:**
 - **Views** online
 - **Downloads**
 - **Citations** to works in **published** literature
 - Citations represent formal knowledge transfer of research findings via published literature
- Some publishers provide this information (e.g. PLoS, Biomed Central, Elsevier/ScienceDirect via author's dashboard, UNL Digital Commons)



4471
Total accesses

Online Download Statistics By Month

	Abstract/Extract	Full-Text	PDF
TOTAL DOWNLOADS	1718	105	196
TOTAL DOWNLOADS 2014	1718	105	196
Nov 2014 (month to date)	13	1	1
Oct 2014	92	14	12
Sep 2014	74	15	8
Aug 2014	89	9	6
Jul 2014	94	16	6
Jun 2014	138	17	16
May 2014	326	15	29
Apr 2014	443	16	47
Mar 2014	449	2	71

Article-Level Metrics

Viewed ?

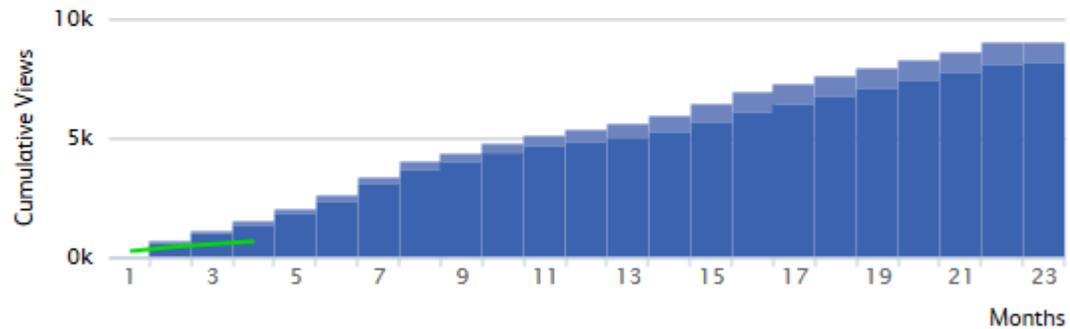
Total Article Views

9,060

Jan 29, 2013 (publication date) through Nov 7, 2014*

	HTML Page Views	PDF Downloads	XML Downloads	Totals
PLOS	7,060	1,080	33	8,173
PMC	652	235	n.a.	887
Totals	7,712	1,315	33	9,060

17.05% of article views led to PDF downloads



■ Compare average usage for articles published in 2013 in the subject area: ?

Agriculture | 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.

- Citing Articles

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- [Citing articles via Web of Science \(11\)](#)
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Cited ?

 20	 11	 9	 13	 10
 Search				

Altmetrics

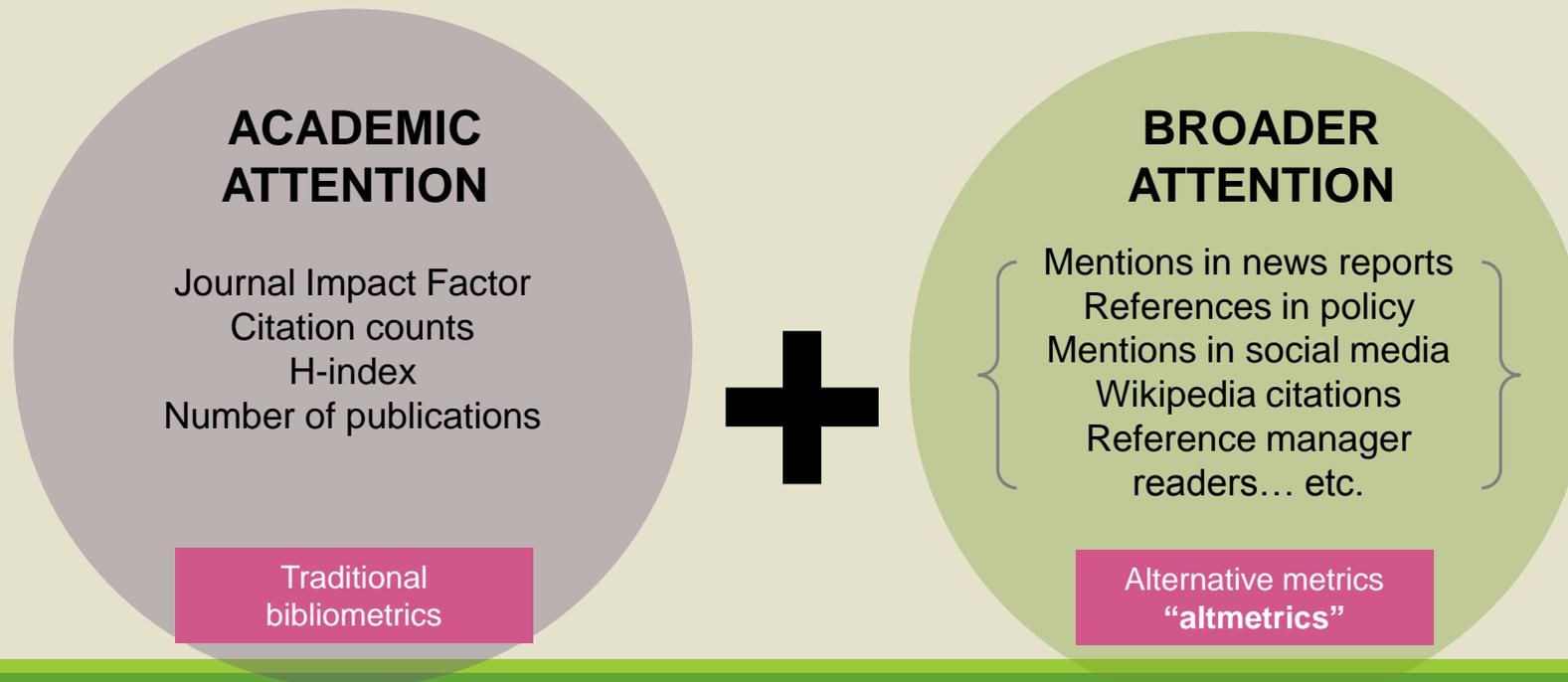
“The study and use of **non-traditional scholarly impact measures** that are based on activity in web-based environments.”

--PLOS Altmetrics Collection,

<http://www.ploscollections.org/article/browseIssue.action?issue=info:doi/10.1371/issue.pcol.v02.i19>

Altmetrics

- Attention to research outputs in non-traditional sources, e.g. policy documents, news, blogs and social media
- *Indicators* of research impact
- Help understand how research is being received and used
- Complementary to traditional citation-based analysis



Why altmetrics?

- Real-time, immediate feedback on attention to scholarly content
- Track attention to a broad range of research outputs, e.g. articles, posters, data sets, working papers
- Showcase attention to a research output beyond academia
- Provide a more coherent understanding of research attention

“Altmetrics expand our view of what impact looks like, but also of what’s making the impact. This matters because **expressions of scholarship are becoming more diverse.**”

-J. Priem, D. Taraborelli, P. Groth, C. Neylon (2010), *Altmetrics: A manifesto*, 26 October 2010. <http://altmetrics.org/manifesto>

Journal of Experimental Biology

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EDITORIAL

Article-level metrics – it's not just about citations

Michaela J. P. Handel

Journal of Experimental Biology 2014 217: 4271–4272; doi: 10.1242/jeb.117150

Article

Figures & tables

Info & metrics

PDF

The burden on modern-day researchers is huge – not only do they have to plan and carry out their research and teach/train the future generation of researchers but also there is increasing pressure to publish and publicise the outcome of their research while obtaining funding for future studies. Research institutions and funding bodies are becoming ever more demanding in their assessment of research quality, which in turn impacts career progression and research funding. In addition to proving that their work is read and cited by their scientific peers, it is becoming increasingly important for researchers to show the societal impact of their research (public interest yields funding).

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PERSPECTIVE

Article-Level Metrics and the Evolution of Scientific Impact

Cameron Neylon, Shirley Wu

Published: November 17, 2009 • DOI: 10.1371/journal.pbio.1000242

nature

International weekly journal of science

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NATURE | COMMENT



Altmetrics: Value all research products

Heather Piwowar

Nature 493, 159 (10 January 2013) | doi:10.1038/493159a

Published online 09 January 2013

PDF

Citation

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Article metrics

A new funding policy by the US National Science Foundation represents a sea-change in how researchers are evaluated, says Heather Piwowar.

Subject terms: Publishing • Policy • Media formats

What a difference a word makes. For all new grant applications from 14 January, the US National Science Foundation (NSF) asks a principal investigator to list his or her research “products” rather than “publications” in the biographical sketch section. This means that, according to the NSF, a scientist’s worth is not dependent solely on publications. Data sets, software and other non-traditional research products will count too.

There are more diverse research products now than ever before. Scientists are developing and releasing better tools to document their workflow, check each other’s work and share information, from data repositories to post-publication discussion systems. As it gets easier to publish a wide variety of material online, it should also become easy to recognize the breadth of a scientist’s intellectual contributions.

But one must evaluate whether each product has made an impact on its field — from a data set on beetle growth, for instance, to the solution to a colleague’s research problem posted on a question-and-answer website. So scientists are developing and assessing alternative metrics, or

Scopus Altmetrics

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PLOS ONE
Volume 8, Issue 1, 29 January 2013, Article number e54092
Open Access

Acaricide, Fungicide and Drug Interactions in Honey Bees (*Apis mellifera*) (Article)

Johnson, R.M. , Delignat, L.[†], Skogfjeld, B.D.[†], Ellis, M.D. 

[†] Department of Entomology, University of Nebraska - Lincoln, NE, United States

[View additional affiliations](#)

[View references \(76\)](#)

Abstract

Background: Chemical analysis shows that honey bees (*Apis mellifera*) and hive products contain many pesticides derived from various sources. The most abundant pesticides are acaricides applied by beekeepers to control Varroa destructor. Beekeepers also apply antimicrobial drugs to control bacterial and microsporidial diseases. Fungicides may enter the hive when applied to nearby flowering crops. Acaricides, antimicrobial drugs and fungicides are not highly toxic to bees alone, but in combination there is potential for heightened toxicity due to interactive effects. Methodology/Principal Findings: Laboratory bioassays based on mortality rates in adult worker bees demonstrated interactive effects among acaricides, as well as between acaricides and antimicrobial drugs and between acaricides and fungicides. Toxicity of the acaricide tau-fluvalinate increased in combination with other acaricides and most other compounds tested (15 of 17) while amitraz toxicity was mostly unchanged (1 of 15). The sterol biosynthesis inhibiting (SBI) fungicide prochloraz elevated the toxicity of the acaricides tau-fluvalinate, coumaphos and fenpyroximate, likely through inhibition of detoxicative cytochrome P450 monooxygenase activity. Four other SBI fungicides increased the toxicity of tau-fluvalinate in a dose-dependent manner, although possible evidence of P450 induction was observed at the lowest fungicide doses. Non-transitive interactions between some acaricides were observed. Sublethal amitraz pre-treatment increased the toxicity of the three P450-detoxified acaricides, but amitraz toxicity was not changed by sublethal treatment with the same three acaricides. A two-fold change in the toxicity of tau-fluvalinate was observed between years, suggesting a possible change in the genetic composition of the bees tested. Conclusions/Significance: Interactions with acaricides in honey bees are similar to drug interactions in other animals in that P450-mediated detoxication appears to play an important role. Evidence of non-transitive, year-to-year variation and induction of detoxication enzymes indicates that pesticide interactions in bees may be as complex as drug interactions in mammals. © 2013 Johnson et al.

Indexed keywords

EMTREE drug terms: acaricide; amitraz; coumaphos; cytochrome P450; fenpyroximate; fluvinalate; fungicide; prochloraz; thymol; unclassified drug

EMTREE medical terms: *Apis mellifera*; article; chemical interaction; chemical pest control; controlled study; detoxication; enzyme induction; enzyme inhibition; LD 50; nonhuman; protein function

MeSH: Acaricides; Animals; Anti-infective Agents; Beekeeping; Bees; Cytochrome P-450 Enzyme System; Drug Interactions; Fungicides; Industrial; Honey; Metabolic Detoxication; Drug; Nitriles; Pesticides; Pyrethrins; Toluidines; Varroidae

Medline is the source for the MeSH terms of this document

Chemicals and CAS Registry Numbers: amitraz, 33089-61-1; coumaphos, 56-72-4; cytochrome P450, 8035-51-2; fluvinalate, 09409-94-5; prochloraz, 67747-09-5; thymol, 89-83-8; Acaricides; Anti-infective Agents; Cytochrome P-450 Enzyme System, 8035-51-2; Fungicides; Industrial; Nitriles; Pesticides; Pyrethrins; Toluidines; amitraz, 33144-50-178; fluvinalate, 364G5003VC

ISSN: 10822263 | Source type: Journal | Original language: English
DOI: 10.1371/journal.pone.0054092 | PubMed ID: 23382869 | Document type: Article

References (76) [View in search results format](#)

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Bogdanov, S.
1 **Contaminants of bee products**
(2006) *Apidologie*, 37 (1), pp. 1-18. Cited 186 times.
<https://doi.org/10.1051/apidologie/0000011>

Cited by 54 documents:

- Are bee diseases linked to pesticides? - A brief review
Sánchez-Bayle, F., Cloutier, C., Parnassidis, P. (2016) *Environment International*
- Divergent forms of endoplasmic reticulum stress trigger a robust unfolded protein response in honey bees
Johnson, S.A., Hicks, F.E., McFarland, M. (2016) *Journal of Insect Physiology*
- Measuring cytochrome P450 activity in aquatic invertebrates: a critical evaluation of in vitro and in vivo methods
Gottard, M., Hirschmann, A., Cedergreen, H. (2016) *Ecotoxicology*

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Related documents

- Pesticides and honey bee toxicity - USA
Johnson, R.M., Ellis, M.D., Mullin, C.A. (2010) *Apidologie*
- Honey bee toxicology
Johnson, R.M. (2016) *Annual Review of Entomology*
- Standard methods for toxicology research in *Apis mellifera*
Medrzycki, P., Gilbert, H., Juszczyk, J. (2012) *Journal of Apicultural Research*

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Metrics

- 54 Citations [View reference](#)
- 9.83 Field-Weighted Citation Impact
- 80 Mendeley Readers [View reference](#)
- 19 Tweets [View reference](#)
- 3 Posts on Facebook [View reference](#)

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Scopus Metric Details

The screenshot shows the Scopus interface for a specific article. At the top, there is a navigation bar with 'Scopus', 'SoW!L', 'UNL Catalog Search', 'Register', 'Login', and 'Help'. The article title is 'Acaricide, Fungicide and Drug Interactions in Honey Bees (Apis mellifera)' with a 'Back to article' link. Below the title are tabs for 'Overview', 'Citations', 'Scholarly Activity', and 'Social Activity'. The 'Overview' tab is active, displaying six key metrics in a grid: Citation Count (54), Field-Weighted Citation Impact (9.83), Citation Benchmarking (99th percentile), Mendeley Readers (80), Twitter (19 tweets), and Facebook (3 posts). Below this is the 'Engagement highlights' section, which is divided into 'Scholarly Activity' (80 readers from 1 source) and 'Social Activity' (22 mentions from 2 sources). Each highlight includes a description, a list of top disciplines or demographics, and a benchmark comparison bar. The page footer includes 'Select data provided by altmetrics.com'.

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Acaricide, Fungicide and Drug Interactions in Honey Bees (*Apis mellifera*) [Back to article](#)
(2013) PLoS ONE, 8(1), art. no. e54992.

Overview Citations Scholarly Activity Social Activity
Mendeley, CiteULike, etc. Twitter, Facebook, etc.

Overview [About Snowball Metrics](#)

Citation Count 54 Cited by in Scopus

Field-Weighted Citation Impact 9.83

Citation Benchmarking 99th percentile
Compared to Agricultural and Biological Sciences (all) articles of the same age and document type

Mendeley 80 Readers

Twitter 19 Tweets

Facebook 3 Posts

Engagement highlights

Scholarly Activity - 80 readers from 1 source
Downloads and posts in common research tools
Mendeley: 80 Readers
Top Discipline: Biological Sciences
Top Demographic: Other
[Save to Mendeley](#)

Social Activity - 22 mentions from 2 sources
Mentions characterized by rapid, brief engagement on platforms used by the general population, such as Twitter, Facebook, and Google+
15 tweets from 14 accounts
3 Facebook posts from 3 accounts

Benchmark highlights
Based on 80 readers from 1 source
Compared to Agricultural and Biological Sciences (all) articles of same age and document type
All Scholarly Activity - 80 [View all Scholarly Activity](#)

Benchmark highlights
Based on 22 mentions from 2 sources
Compared to Agricultural and Biological Sciences (all) articles of same age and document type
All Social Activity - 22 [View all Social Activity](#)

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Altmetrics: Journal of Food Science

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Journal of Food Science
A Publication of the Institute of Food Technologists

Quantification of Pizza Baking Properties of Different Cheeses, and Their Correlation with Cheese Functionality

Xiao Ma¹, Murat O. Balaban², Lu Zhang², Emma A.C. Emanuelsson-Patterson⁴ and Bryony James^{2*}

Article first published online: 21 JUL 2014
DOI: 10.1111/1750-3841.12540
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Altmetrics 384

Abstract | **Article** | **References** | **Cited by**

Keywords: color uniformity, machine vision, pizza baking, principal component analysis

Abstract
The aim of this study is to quantify the pizza baking properties and performance of different cheeses, including the browning and blistering, and to investigate the correlation to cheese properties (rheology, free oil, transition temperature, and water activity). The color, and color uniformity of different cheeses (Mozzarella, Cheddar, Colby, Edam, Emmental, Gruyere, and Provolone) were quantified, using a machine vision system and image analysis techniques. The correlations between cheese appearance and attributes were also evaluated, to find that cheese properties including elasticity, free oil, and transition temperature influence the color uniformity of cheeses.

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Quantification of Pizza Baking Properties of Different Cheeses, and Their Correlation with Cheese Functionality

Overview of attention for article published in Journal of Food Science

384

SUMMARY | **Notes** | **Blogs** | **Twitter** | **Facebook** | **Google+** | **Reddit**

Title: Quantification of Pizza Baking Properties of Different Cheeses, and Their Correlation with Cheese Functionality
Published in: Journal of Food Science
DOI: 10.1111/1750-3841.12540
Printed ID: 12540001
Abstract: The aim of this study is to quantify the pizza baking properties and performance of different cheeses...

Twitter Demographics

Geographical breakdown

Country	Count	As %
United States	105	27%
Japan	7	2%
United Kingdom	7	2%
France	6	2%
Netherlands	4	1%
Australia	4	1%
Italy	4	1%

Springer: Providing book metrics

The screenshot displays the Bookmetrix interface for the book "Food Safety Risks from Wildlife" (2016). The page is divided into several sections:

- Header:** Bookmetrix logo and navigation links: "ABOUT THIS PAGE" and "SHARE".
- Book Information:** Editors (Michele Jay-Russell, Michael P. Doyle), ISBN (9783319244426), DOI (10.1007/978-3-319-24442-6), Disciplines (Medicine, Environmental Sciences, Public Health, Food Science & Nutrition), and Subdisciplines (Health Informatics, Environmental Health, Public Health).
- Activity Summary:** A row of colored boxes showing: Citations (0), Mentions (6), Readers (2), Downloads (959), and Reviews (0).
- Chapter Activity:** A table showing activity for each chapter, with columns for Citations, Mentions, Readers, and Downloads.
- Online Mention Summary:** A section with a circular chart showing 5 tweets and 1 Facebook post, and a "SEE ALL MENTIONS..." button.
- Mentions Over Time:** A line graph showing activity over time.

Section	Citations	Mentions	Readers	Downloads	Reviews
Summary	0	6	2	959	0
Chapter 1	0	0	0	80	
Chapter 2	0	3	0	179	
Chapter 3	0	0	0	70	
Chapter 4	0	3	0	72	
Chapter 5	0	0	0	76	
Chapter 6	0	0	0	76	

Altmetric Bookmarklet

The screenshot shows a web browser window with the URL <http://www.altmetric.com/products/free-tools/bookmarklet/>. The page displays the article "Risk Factors for Overweight/Obesity in Preschool Children: An Ecological Approach" from the journal "Childhood Obesity". The Altmetric bookmarklet menu is open, showing options like "View Bookmarks Sidebar", "Show All Bookmarks", "View Pocket List", "Subscribe to This Page", "Bookmarks Toolbar", "Unsorted Bookmarks", "Recently Bookmarked", "Recent Tags", "Mozilla Firefox", and "Altmetric.it" (which is circled in red). The article title is "Risk Factors for Overweight/Obesity in Preschool Children: An Ecological Approach" by Dotti A. Dev, Brent A. McBride, Barbara H. Fiese, Blake L. Jones, and Hyunkeun Cho. The article is published in "Childhood Obesity", October 2013, 9(5): 399-408. doi:10.1089/oh.2012.0150.



<https://www.altmetric.com/products/free-tools/bookmarklet/>

Telling Your Story

Office of Academic Affairs | University of Nebraska-Lincoln
Documentation Format for Promotion and/or Tenure



III. Appendices (to be prepared by candidate)

Candidates should only include:

- Significant and relevant information
- Information referred to in the Candidate Section
- Information required by your college

A. Possible examples of supporting evidence for the quality and effectiveness of teaching:

1. Student evaluations
2. Course portfolio
3. Number of undergraduate advisees
4. Curriculum/course development
5. Student achievement/outcomes
6. Number of graduate students produced
7. International activity
8. SOTL activities (Scholarship of Teaching and Learning)

B. Possible examples of supporting evidence of the quality of scholarly, professional, and creative activity:

1. Publications (including electronic)
2. Performances/exhibitions
3. Reviews
4. Citations
5. Funded grant proposals

C. Possible examples of supporting evidence of the quality and significance of professional and institutional service, outreach activities:

1. Editorships
2. Committee service (Department, College, University)
3. Leadership in professional organizations
4. Community service related to assignment

D. Possible examples of supporting evidence of the quality and significance of extension activities:

1. EARS (Extension Accomplishments Reporting System)
2. Citations
3. Programming highlights and impacts
4. Publications
5. Funded grant proposals

Documentation Format for Promotion and/or Tenure

<http://svcaa.unl.edu/faculty/promotion-tenure>

Check with your department for additional guidelines, recommendations, and best practices.

CV

Trevor Branch, University of Washington
Included Web of Science & Google
Scholar metrics. Included some
altmetrics for specific publications.

Dr. Trevor A. Branch
Curriculum Vitae

3.1 PEER-REVIEWED JOURNAL ARTICLES

Summary: 59 papers, 27 first-authored, 862 pages, 15 pages per paper.

Since starting as assistant professor: 33 papers, 8 first-authored.

Metrics (Web of Science): 1615 citations, 30 citations per item, h-index 16.

Metrics (Google Scholar): 3185 citations, i10-index 48, h-index 26.

Note 1: superscripts indicate collaborators in the School of Aquatic and Fishery Sciences since being appointed an assistant professor (2010): colleagues¹, graduate students in my lab², other graduate students³, research staff⁴, and post-docs⁵.

Note 2: citation counts in bold and annotations are from Web of Science, using Cited Reference Search for unlisted journals.

2014 (7)

59. Monnahan², C. C., T. A. Branch, and A. E. Punt¹. 2014. Do ship strikes threaten the recovery of endangered eastern North Pacific blue whales? *Marine Mammal Science* doi: 10.1111/mms.12157, 19 pages. **Highest Altmetric score (309) of any paper published in *Marine Mammal Science*, reflecting widespread media coverage (20% of effort, idea, funding, supervision)**
58. Melnychuk, M. C., T. E. Essington¹, T. A. Branch, S. S. Heppell, O. P. Jensen, J. S. Link, S. J. D. Martell, A. M. Parma, J. G. Pope, and A. D. M. Smith. 2014. Which design elements of individual quota fisheries help to achieve management objectives? *Fish and Fisheries* doi: 10.1111/faf.12094, 17 pages. (5% of total effort)
57. Szuwalski³, C. S., K. A. Vert-pre³, A. E. Punt¹, T. A. Branch, and R. Hilborn¹. 2014. Examining common assumptions about recruitment: a meta-analysis of recruitment dynamics for worldwide marine fisheries. *Fish and Fisheries* doi:10.1111/faf.12083, 16 pages. (5% of total effort)
56. Stachura³, M. M., T. E. Essington¹, N. J. Mantua, A. B. Hollowed, M. A. Haltuch, P. D. Spencer, T. A. Branch, and M. J. Doyle. 2014. Linking Northeast Pacific recruitment synchrony to environmental variability. *Fisheries Oceanography* 23:389-408, 20 pages. (5% of total effort)
55. Monnahan², C. C., T. A. Branch, K. M. Stafford, Y. V. Ivashchenko, and E. M. Oleson. 2014. Estimating historical eastern North Pacific blue whale catches using spatial calling patterns. *PLOS ONE* 9:e98974, 21 pages. (30% effort, idea, funding, writing, supervision)
54. Double, M. C., V. Andrews-Goff, K. C. S. Jenner, M.-N. Jenner, S. M. Laverick, T. A. Branch, and N. J. Gales. 2014. Migratory movements of pygmy blue whales (*Balaenoptera musculus brevicauda*) between Australia and Indonesia as revealed by satellite telemetry. *PLOS ONE* 9:e93578, 11 pages. (5% effort, prediction, analysis, writing)
53. Hilborn¹, R., D. J. Hively⁴, O. P. Jensen⁵, and T. A. Branch. 2014. The dynamics of fish populations at low abundance and prospects for rebuilding and recovery. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsu035, 11 pages. (10% effort, analysis, writing)

CV

Ethan White,

<http://whitelab.weecology.org/user/3>

Includes links to publications, slide decks, software via GitHub

The screenshot shows the profile page for Ethan White on the Weecology website. The header features the logo for 'THE WHITE LAB DATA INTENSIVE ECOLOGY' and three circular icons: a mathematical equation $\lambda = -1 - \left[\frac{1}{n} \sum_{i=1}^n \log\left(\frac{x_i}{n}\right) \right]^{-1}$, a map of the United States with a color-coded overlay, and a row of server racks. A navigation bar below the header contains links for RESEARCH, MEMBERS, PUBLICATIONS, SOFTWARE, DATA, GRANTS, BLOG, WEECOLOGY, and JOIN US.

Ethan White

Personal information

Name
Ethan White

Academic Position
Faculty

CV
<https://github.com/ethanwhite/CV/raw/master/CV.pdf>

Research Interests
My research focuses on data-intensive questions in ecology, using large ecological datasets, advanced statistical/machine learning methods, and theoretical modeling to understand ecological patterns. I am a [Moore Investigator in Data-Driven Discovery](#), am active on [Twitter](#) and [GitHub](#), [blog about ecology and open science](#), and serve on the [Data Carpentry](#) and [Impactatory](#) boards of directors, the [Software Carpentry](#) advisory board, and the editorial boards of PLOS One and PeerJ. Checkout my [Impactatory](#) and [Google Scholar](#) profiles to see what I've been up to.

Contact Information
Email: ethan@weecology.org
Phone: 435-797-2097
Address: Department of Biology, Utah State University, 5305 Old Main Hill, Logan, UT 84322

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- Programming for Biologists

SEARCH

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Ethan White

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Ethan White
Ethan is an Associate Professor at Utah State University and a Moore Investigator in Data-Driven Discovery. He studies ecological systems using data-intensive approaches and is actively involved in open and computational science. Ethan serves on the board of directors of Data Carpentry and Impactstory, and editorial boards of PLOS One and PeerJ.

Open Access
Global Reach

University of Florida

Selected works

Best Practices for Scientific Computing
(2014) Wilson, Aruliah, Brown, Chue Hong, Davis, Guy, Haddock, Huff, Mitchell, Plumbley, Waugh, White, et al. PLoS Biology
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viewed

Evaluating a general theory of macroecology
(2013) figshare.
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EcoData Retriever
(2011) GitHub. Quickly download, clean up, and install ecological datasets into a database management system
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Key profile metrics

137.8k	views across 60 articles
162	stars across 14 software products
140	forks across 14 software products
176	views across 14 slide decks
2.6k	tweets across 60 articles

Cost: \$5/month

Using Metrics: Grant Proposals- Describing Relevant Publications

Delgado-Baquerizo, M., F. T. Maestre, et al. 2013. Decoupling of soil nutrient cycles as a function of aridity in global drylands. *Nature* 502: 672-676.

Using the network of sites deployed in the framework of the BIOCOM project, this study reports a negative effect of aridity on the concentration of organic C and total N, but a positive effect on that of inorganic P, in dryland soils worldwide. Aridity was negatively related to plant cover, which may favor the dominance of physical (i.e. wind-blown sands that abrade exposed rock surfaces) over biological (i.e. litter decomposition) processes. The results of this study indicate that the predicted increase in aridity with climate change by the end of this century will uncouple the C, N and P cycles in dryland soils, thus negatively affecting the provision of key ecosystem services by drylands, such as the buildup of soil fertility and carbon fixation.

This article has attracted lots of attention from scientists since its publication, as it was the object of a “News & Views” in *Nature* (Wardle, 2013, *Nature* 502: 628-629), and has been viewed more than 6300 times since its publication two months ago (see <http://goo.gl/EuHYOv> for details). This article has also been widely discussed in the social media, as indicated by an Altmetric score of 151, which makes it scoring higher than 99% of its contemporaries and includes it into the top 5% of all the articles tracked by Altmetric (more than 1,730,000; see <http://goo.gl/f3fu3A> for details). This study has also received substantial attention by newspapers, magazines, web pages and blogs from around the world (see <http://goo.gl/CU2hSR> for a selection of news).

Source: <http://maestrelab.blogspot.com.es/2014/11/how-i-use-altmetrics-data-in-my.html>

Research Lab Website



- Lab Home
- Podcasts
- Projects
- Publications
- Carpenter Bio
- Faculty Positions
- Videos

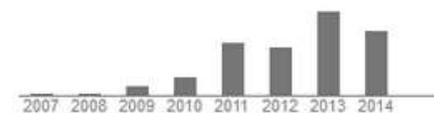
Christopher R. Carpenter, MD: Emergency Medicine Research Lab Home



Dr. Christopher R. Carpenter, M.D., has over [55 publications](#) indexed in SCOPUS. The publication types include 26 articles, nine notes, seven editorials, three letters, one book, one Book Chapter and one conference paper, published in over 22 different journals. His co-authors represent three different countries from affiliations such as Johns Hopkins University, Harvard Medical School, McMaster University, Universität Bern, to name a few. Dr. Carpenter's 55 documents have been cited 372 times in 283 subsequent publications. The citations represent nine publication types published in over 160 different journals, ten languages, and authors from over 30 countries representing various affiliations world-wide. His [Google Scholar h-Index](#) is 14, which places him within the Top 5% of EM clinical researchers in the United States. He also has authored ten textbook chapters and co-authored his first textbook in 2013.

Currently, he is an Associate Editor for *Academic Emergency Medicine* and *Annals of Internal Medicine's ACP Journal Club*. He served as Guest Editor for *Clinics in Geriatric Medicine*. You can review his publication portfolio on [Google Scholar](#), [ORCID](#), or [Researcher ID](#).

Citation indices	All	Since 2009
Citations	776	742
h-index	17	17
i10-index	25	25



Research Impact: Expanding the Definition

Professional Biologist

Biology Needs a Modern Assessment System for Professional Productivity

LUCINDA A. McDADE, DAVID R. MADDISON, ROBERT GURALNICK, HEATHER A. PIWOWAR, MARY LIZ JAMESON, KRISTOFER M. HELGEN, PATRICK S. HERENDEEN, ANDREW HILL, AND MORGAN L. VIS

Stimulated in large part by the advent of the Internet, research productivity in many academic disciplines has changed dramatically over the last two decades. However, the assessment system that governs professional success has not kept pace, creating a mismatch between modes of scholarly productivity and academic assessment criteria. In this article, we describe the problem and present ideas for solutions. We argue that adjusting assessment criteria to correspond to modern scholarly productivity is essential for the success of individual scientists and of our discipline as a whole. The authors and editors of this article consent to a number of actions that constitute steps toward ensuring that all forms of scholarly productivity are credited. The emphasis here is on systematic biology, but we are not alone in experiencing this mismatch between productivity and assessment. An additional goal in this article is to begin a conversation about the problem with colleagues in other subdisciplines of biology.

Keywords: academic assessment, systematic biology, scientific productivity, digital objects, curation of natural history collections

The nature of research productivity in many disciplines has changed dramatically over the last two decades and will continue to evolve. However, change in the modes and venues of scholarly productivity comes with the attendant risk of a mismatch between the nature of this productivity and the assessment and reward structures that govern professional success. At a recent series of four workshops on the future of systematics and biodiversity research, participants discussed the remarkable mismatch between professional productivity in systematics—both traditionally and in the twenty-first century—and the prevailing academic assessment system. Here, we describe the problem and also present some potential solutions. We know that the systematics community is not alone in experiencing this mismatch, and we invite our colleagues in other subdisciplines of the biological sciences to join us in seeking solutions.

Peer-reviewed publications are a major form of productivity in systematics, but systematic biologists increasingly contribute knowledge in nontraditional ways as well. Systematists contribute actively to the Tree of Life Web Project (<http://tolweb.org>), the Encyclopedia of Life (<http://eol.org>), and other Web-based compendia of systematic knowledge. They also submit data to central repositories from which data can be retrieved and used by others; these include GenBank (www.ncbi.nlm.nih.gov/genbank) and Morphbank (<http://www.morphbank.org>), as well as distributed biodiversity database initiatives (e.g., the Global Biodiversity Information

species conservation, invasive species, infectious diseases, climate change), and access to these data empowers research and discovery across a broad disciplinary spectrum.

Systematic biologists also contribute in other nontraditional ways common to all sciences. Many now maintain Web sites on which research results are reported; many also create and maintain other digital resources (e.g., databases, online keys, identification aids) and teaching aids. Some write software or devise laboratory tools that are extensively used by a diversity of scientists and educators. Many produce scholarly contributions that appear only online (e.g., the new generation of “Red List” assessments of species status led by the International Union for Conservation of Nature [IUCN]). Some develop interdisciplinary and transdisciplinary research programs that bind heretofore disparate fields of science (e.g., proteomics, genomics, bioinformatics, systematics). These kinds of research productivity are increasingly contributed by the rising generation of students and postdoctoral scholars, as well as by more established professionals.

However, somewhat remarkably, systematic biologists continue to compete for jobs and strive toward tenure and promotion in academia largely under the model for professional credit used during the last century. This model counts peer-reviewed publications and calculates “*h*” using some function of the number of publications, the quality of the journals in which those publications appear, and the impact of the publications on the field as measured by citation indices. These metrics have

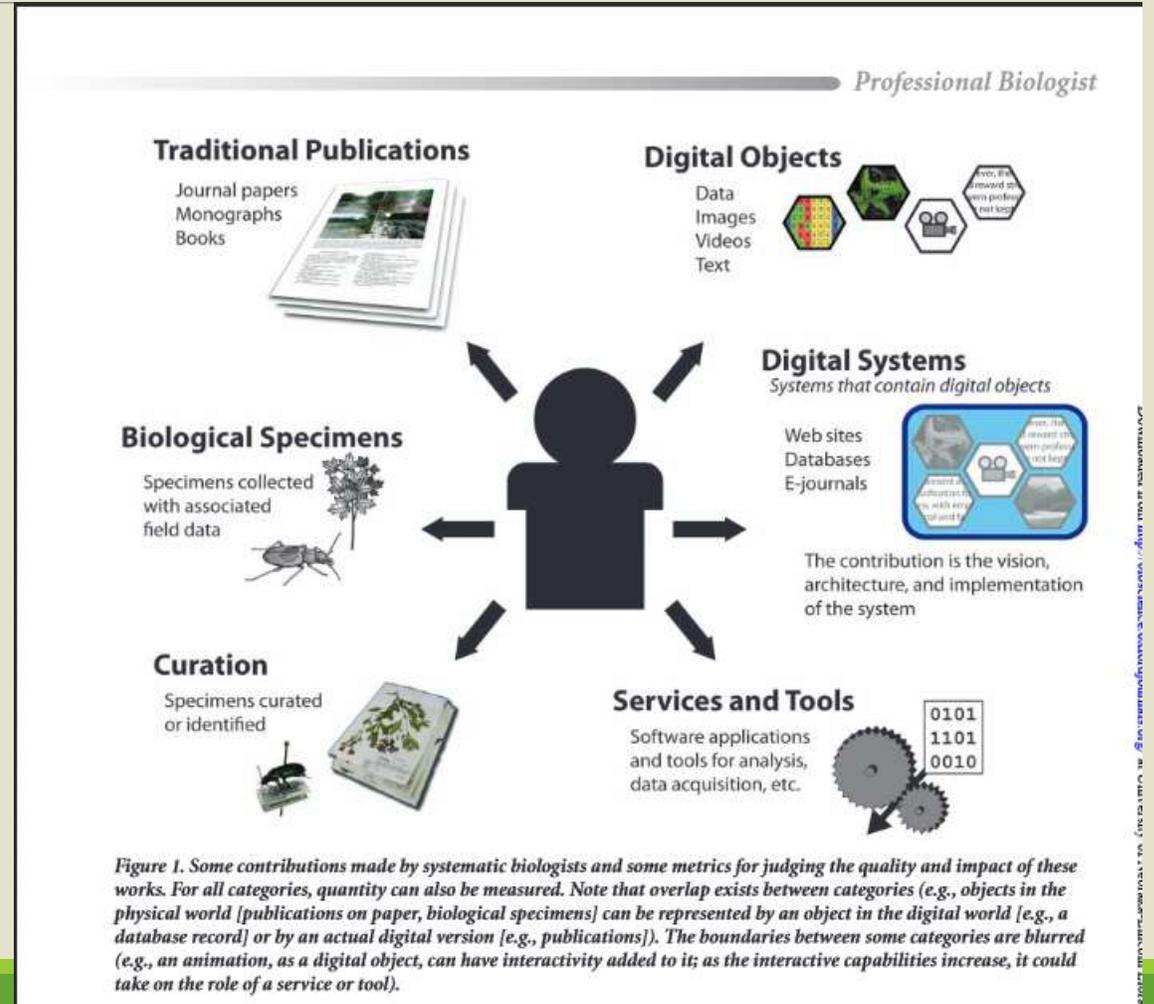


Figure 1. Some contributions made by systematic biologists and some metrics for judging the quality and impact of these works. For all categories, quantity can also be measured. Note that overlap exists between categories (e.g., objects in the physical world [publications on paper, biological specimens] can be represented by an object in the digital world [e.g., a database record] or by an actual digital version [e.g., publications]). The boundaries between some categories are blurred (e.g., an animation, as a digital object, can have interactivity added to it; as the interactive capabilities increase, it could take on the role of a service or tool).

Becker Medical Library Model for Assessment of Research Impact

ASSESSING THE **IMPACT** OF RESEARCH
A Bernard Becker Medical Library Project

THE MODEL //
HOW TO USE //
ENHANCING YOUR IMPACT //
INFORMATION AND RESOURCES //

THE MODEL FOR ASSESSMENT OF RESEARCH IMPACT IS A FRAMEWORK FOR **TRACKING DIFFUSION** OF RESEARCH OUTPUTS AND ACTIVITIES TO LOCATE INDICATORS THAT DEMONSTRATE EVIDENCE OF BIOMEDICAL RESEARCH IMPACT.

Advancement of Knowledge

How were research output and activities **USED**? How was **AWARENESS** of research output demonstrated?

Clinical Implementation

How was **TRANSLATION** of research output and activities into clinical applications demonstrated?

Legislation and Policy

How did research output and activities **INFLUENCE** or **RESULT** in enactment of public law, guidelines, standards or policy?

Economic Benefit

What economic outcomes were **PRODUCED** from research output and activities?

Community Benefit

How was community health **ENHANCED** as a result of research output and activities?



<https://becker.wustl.edu/impact-assessment>

Sarli CC, Dubinsky EK, Holmes KL. Beyond citation analysis: a model for assessment of research impact. J Med Libr Assoc. 2010 Jan;98(1):17-23. doi: 10.3163/1536-5050.98.1.008. PubMed PMID: 20098647



RESEARCH OUTPUTS AND ACTIVITIES	Research Outputs and Activities are products and/or activities resulting from basic or clinical biomedical research.
Indicators	Examples
Biological Materials	Biological material identified or developed as a result of the research study.
Books or Book Chapters	Books or book chapters resulting from the research study.
Collaborations	Collaborative relationships resulting from the research study. Collaborative relationships can be classified in a number of ways: <ul style="list-style-type: none"> • Type of collaboration? <ul style="list-style-type: none"> ○ Number of collaborations ○ Number of departments or disciplines represented ○ Number of institutions represented ○ Duration • Type of partner? <ul style="list-style-type: none"> ○ Community

COMMUNITY BENEFIT	Community Benefit is the enhancement of well-being to the community as a result of research outputs and/or activities.
Indicators	Evidence
Awareness and Identification of Risk Factors	Research study findings lead to public awareness of risk factors of a disease, disorder, condition or behavior. Research study findings lead to identification of risk factors of a disease, disorder, condition or behavior.
Consumer Health Information	Research study findings result in patient decision materials to assist with healthcare decision-making. Research study findings are cited in materials for patients or the public.
Health Care Quality Access and Evaluation	Research study findings result in increased performance, quality, and consistency in the delivery of health care services.
Health Promotion	Research study findings leads to enhancement of health promotion activities among community members.
Lifestyle Intervention	Research study findings leads to identification of a lifestyle intervention.
Measurement Instruments	Measurement instrument generated by the research study used by consumers.
Partnerships	Research study forms partnership with Community or other group to address a community-based need.
Pharmaceutical Preparations	Drug generated by the research study used by consumers.
Private Healthcare Benefit Plans	Research study cited in private insurance benefit plan in support of coverage.
Public Healthcare Benefit Plans	Research study cited in a public insurance benefit plan in support of coverage.
Standard of Care	Research study findings result in clinically effective approach in the standard of care for a disease, disorder or condition.

Examples of Outputs and Activities

Academic/Professional Status	Editor-In-Chief of a Journal	Licenses
Administrative Activities	Evaluation Activities	Material Transfer Agreements
Advisory Council Memberships	Funding Agency Council	Media Activities
Algorithms	Grant Awards: Co-Investigator	Medical Devices
Animal Research Protocols	Grant Awards: Current	Membership and/or Service (elected or volunteer) in Professional Organizations
Audio or Video Products	Grant Awards: Dollar Amount (Total)	Membership to an Elected Society
Awards	Grant Awards: Funded	Mentoring Activities
Biological Materials	Grant Awards: In Preparation	Methodology
Book Editor	Grant Awards: Key Personnel	National Awards or Prizes
Book Reviewer	Grant Awards: Multiple-Principal Investigator	National Committee Service
Books/Book Chapters	Grant Awards: Principal Investigator	Outreach Efforts
Case Reports	Grant Awards: Renewed	Pamphlets, Handouts, or Other Educational Materials
Certifications	Grant Awards: Submitted	Patents
Clinical Activities	Grant Awards: Type of Award (federal, state, private, industry, foundation)	Pharmaceuticals
Clinical Guidelines	Grant Awards: Under Review	Policy Documents
Clinical Methods for Improved Clinical Care	Grant Reviewer	Publications
Clinical Research Protocol	Grey Literature	Research Training Efforts
Clinical Teaching Activities	Guideline Development	Review Articles
Collaborations	Honorific Lectures	Reviewer or Advisor for a Dissertation
Committee Activities (local, regional or national)	Honors or Awards	Scientific Advisory Board Membership
Community Advisory Board	Intellectual Property	Software
Community-Based Activity or Service	Inventions	Study Sections
Computer Programs	Investigational New Drug (IND) Applications	Symposia
Conference or Meeting Organizer	Invited Articles	Systematic Reviews
Conference Proceedings/Meeting Abstracts	Invited Book Editor	Task Force Participation
Consultancy Efforts	Invited Letters	Teaching Activities
Continuing Education	Invited Presentations	Technical Reports
Contributed Presentations	Invited Systematic Reviews	Tenure Status
Course Evaluations	Journal Advisory Board	Testimony/Expert Witness
Curricula Development	Journal Articles (animal vs. human)	Textbooks
Data	Journal Editor	Trade Publications
Data and Research Materials	Journal Reviewer	Training Program Efforts
Editor of a Special Journal Issue	Laboratory Techniques or Methods	Volunteer Activities
		White Papers

Questions?

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Measure Your Research Impact guide:
<http://unl.libguides.com/researchimpact>

Discussion Questions

1. Do you use social media for your research? If yes, why do you find them useful? What do you use them for?
2. What methods/strategies are you currently using to track and document research impact?
3. Have you encountered any challenges/issues in tracking/documenting research impact?

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 - 3: Piwowar H. Altmetrics: Value all research products. *Nature*. 2013 Jan 10;493(7431):159. doi: 10.1038/493159a. PubMed PMID: 23302843.
 - 4: Carpenter CR, Cone DC, Sarli CC. Using publication metrics to highlight academic productivity and research impact. *Acad Emerg Med*. 2014 Oct;21(10):1160-72. doi: 10.1111/acem.12482. PubMed PMID: 25308141.