

Altmetrics in the NIH Biosketch: demonstrate the reach and influence of your research

Altmetric.com | @altmetric altmetric.com/explorer support@altmetric.com

Introductions

Liesa (Baltimore, MD)

Director of Market Development

20+ years working with scientific organizations to reach, serve and engage their customers and stakeholders



Patty (Chicago, IL) Senior Engagement Manager

5+ years as a librarian in hospital and academic environments, where she developed a passion for science communication and research impact.





Acknowledgements

Staff at Galter Health Sciences Library & Learning Center:

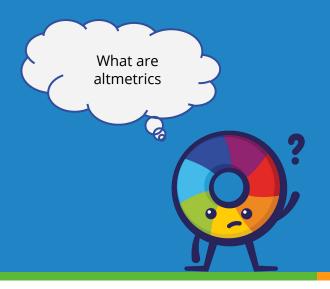
- Kristi Holmes, Library Director, Associate Professor, Preventive Medicine, Health and Biomedical Informatics Division
- Karen Gutzman, Head, Research Assessment and Communications
- Pamela Shaw, Biosciences & Bioinformatics Librarian



Today's agenda

- Poll
- Altmetrics basics
- Defining impact
- Finding pathways to impact using Altmetric
 - Example narratives and ways of incorporating metrics into your Biosketch
- Live demo
- Questions





Altmetrics basics

Most stakeholders that research is meant to reach **do not publish or do research**. They do **talk** about research.

Altmetric uncovers who they are...



General Public



Government & Policy Makers



Investigators





Practitioners



Advocacy/ Non-profits



Tech Transfer



Interested parties



ALTMETRICS



Indicators of non-traditional attention and engagement with digitally published research and scholarship.







Altmetric Attention Sources

What does the donut represent?

The Colors of the Donut

- Policy documents
- News
- Blogs
- Twitter
- Post-publication peer-reviews
- Facebook
- Sina Weibo
- Syllabi
- Wikipedia

- Google+
- LinkedIn
- Reddit
- Faculty1000
- Q&A (Stack Overflow)
- Youtube
- Pinterest
- Patents

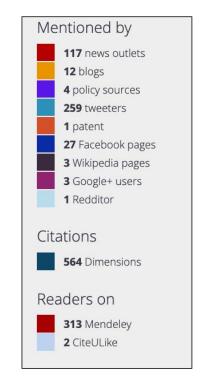


17 categories representing thousands of websites

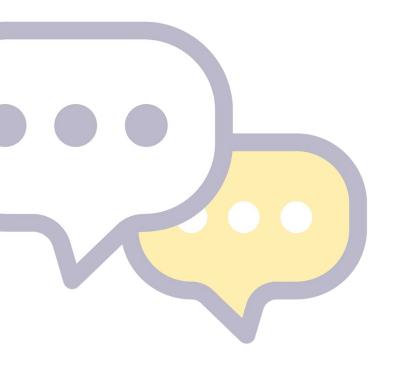


What does the score represent?





Mention type	Weight Points
News	8
Blogs	5
Twitter	1
Facebook	0.25
Sina Weibo	1
Wikipedia	3
Policy Documents (per source)	3
Patents	3
Q&A	0.25
F1000/ Publons/ Pubpeer	1
YouTube	0.25
Reddit/Pinterest	0.25
LinkedIn	0.5

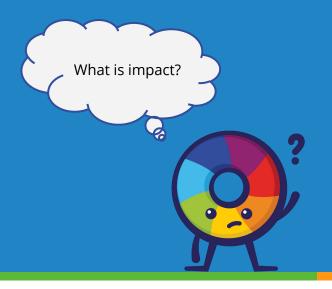


Context is key

Look at what people are saying, not just at the numbers

Attention ≠ positive impact or quality





Defining impact

Defining Impact

An 'effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia.'(1)





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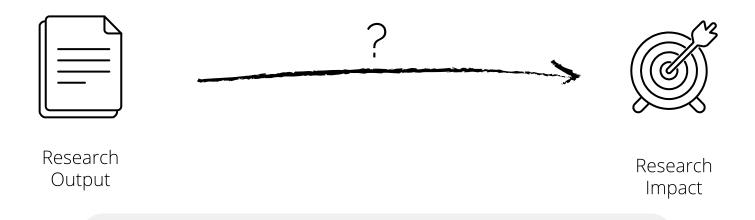
GOING BEYOND

"Dissemination is not impact: even if you have impressive numbers of reads, downloads, views or listens, how do you know if anyone learned anything from it, benefited, or did anything different as a result? **Keep asking, 'what happened next?**"
(1)



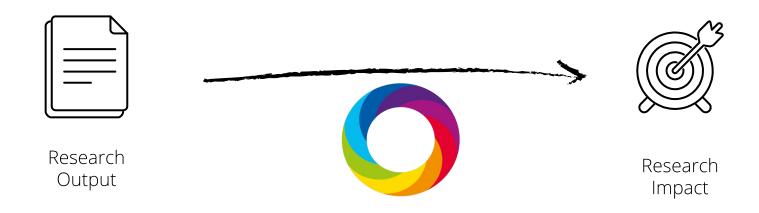
Altmetric ≠ Impact





Challenge: how to bridge the gap between the research and its impact?





Altmetric can be used to gather evidence to underpin the impact and add to the narrative



How to discover pathways to impact using Altmetric Explorer



Discover **pathways to impact** using Altmetric data, including:



Policy mentions



Patent mentions



Mass media mentions



Social media mentions





C. Contributions to Science

- The prevalence of peanut allergy among children in Western countries has doubled since 2005. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
 - a. Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy, NEJM, Feb 2015. 25705822
 - Impact of peanut consumption in the LEAP Study: Feasibility, growth, and nutrition, The Journal of Allergy and Clinical Immunology, October 2016. 27297994
 - Association of Staphylococcus aureus colonization with food allergy occurs independently of eczema severity, The Journal of Allergy and Clinical Immunology, August 2019. 31160034
 - d. Effect of Avoidance on Peanut Allergy after Early Peanut Consumption, NEJM, April 2016. 26942922





Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM DOI: 10.1056/NEJMoa1414850

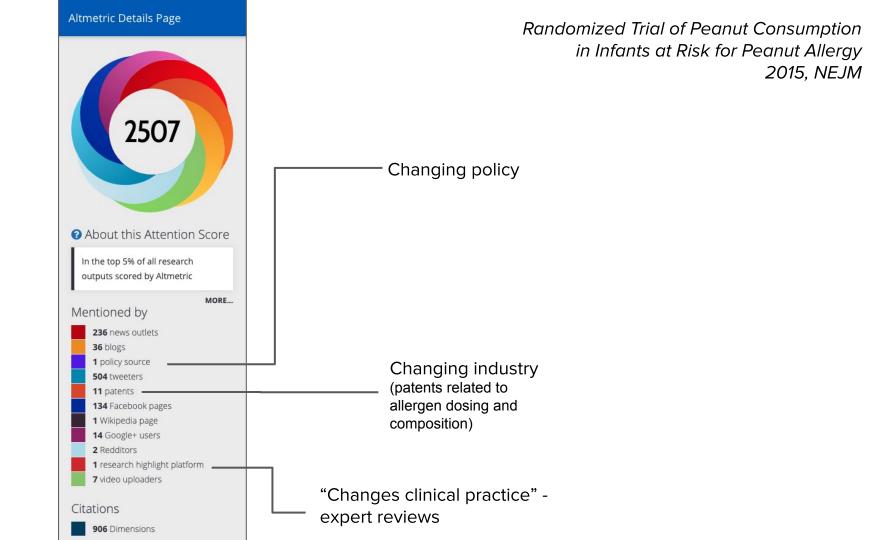
Purpose

"We evaluated strategies of peanut consumption and avoidance to determine which strategy is most effective in preventing the development of peanut allergy in infants at high risk for the allergy."

Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM DOI: 10.1056/NEJMoa1414850

Conclusion

"The early introduction of peanuts [first 11 months of life] significantly decreased the frequency of the development of peanut allergy among children at high risk for this allergy and modulated immune responses to peanuts."



Altmetric Details Page



About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE

Mentioned by

- 236 news outlets
- 36 blogs
- 1 policy source
- 504 tweeters
- 11 patents
- 134 Facebook pages
- 1 Wikipedia page
- 14 Google+ users 2 Redditors
- 1 research highlight platform
- 7 video uploaders

Citations

906 Dimensions

Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015. NEJM



Fairfax Allergy, Asthma and Sinus Clinic

Allergist

We are a full-service adult and pediatric allergy and asthma care center. We also have a location in Woodbridge, VA.

3903A Fair Ridge Dr Fairfax, VA 22033



Family Allergy Asthma & Sinus Care

Allergist

Family Allergy Asthma & Sinus Care

- 10370 Park Rd Ste 202 Charlotte, NC 28210
- http://www.AllergyForAll.co



Complete Pediatrics, PC

Pediatrician

Keeping Children Healthy

- 451 State St North Haven, CT 06473
- http://completepediatrics.net/



Allergy & ENT Associates of Middle TN

Family Medicine Practice

Allergy & ENT Associates of Middle Tennessee, PC provides a full range of services including treatment of head and neck cancer, sinus disease, allergies, sleep disorders and facial aesthetics in our Hermitage, Tennessee office

- 3901 Central Pike, Ste 351 Hermitage, TN 37076
- http://www.MyAllergyENT.c om/



Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM



Tweet by Greg Garner (@greggarner87)

7.2K followers

Watching Rotten on Netflix. Episode about food (esp peanut) allergies. And wouldn't you know it, the study by @rhoworld gets brought up as a promising potential in the fight against allergies. #LifeAtRho https://t.co/7s9KDO8Tej

MORE...



Tweet by Adam Cifu (@adamcifu)

15.9K followers

Covering this trial in "Critical Appraisal of the Landmark Medical Literature" tomorrow. One of the best examples of @medicalreversal. Feel like @VPrasadMDMPH and @barttels2 should be making guest appearances, https://t.co/IZpk5mPcqR

134 Face

134 Facebook pages

23.6K followers



Tweet by Faculty Opinions (@Facultyopinions)

Changes clinical practice: peanut consumption in first year of life prevents allergy in children already at risk http://t.co/ROukFDVUmX

Citations

906 Dimensions



Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM

The New Hork Times

New Product Is First to Claim It May Reduce Peanut Allergies



"The guidelines for how to approach allergens in children are changing, the science is changing, and it's important for parents to know."

Repeat for all the papers I cite in my Contributions to Science...



Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy

Article in New England Journal of Medicine, February 2015



Effect of Avoidance on Peanut Allergy after Early Peanut Consumption
Article in New England Journal of Medicine, April 2016



Impact of peanut consumption in the LEAP Study: Feasibility, growth, and...

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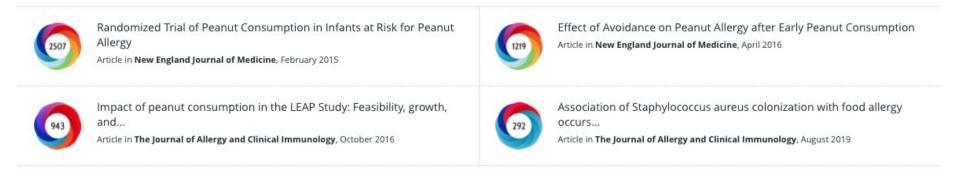


Association of Staphylococcus aureus colonization with food allergy occurs...

Article in The Journal of Allergy and Clinical Immunology, August 2019

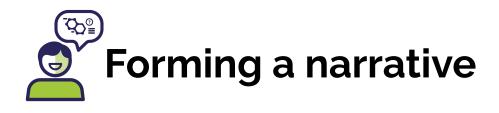


Repeat for all the papers I cite in my Contributions to Science...



...and put what I've learned into a narrative format





- Tailor your story for the intended purpose and audience.
- Think of your stories as a descriptive narrative of your research efforts and accomplishments.
- If using publication and citation data, use information from databases for descriptive content.
- If applicable, use a variety of article level metrics to supplement your publication data.
- Use Plain Language. Plain language is clear, concise, organized, and appropriate for the intended audience.



From: Becker Medical Library NIH Biosketch libguide https://beckerguides.wustl.edu/NIH_Biosketch



Forming a narrative

Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease...







Forming a narrative

Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease. This work has also influenced public discourse on the topic, and the results have been shared widely on Twitter, clinicians' Facebook pages, and mass media outlets including The New York Times and Washington Post, evidencing public awareness of this topic and translation to practice."





Forming a narrative

Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease. This work has influenced public discourse, and the results have been shared widely online, including in 721 news stories in 35 countries, 1,120 tweets, and 192 Facebook posts. This work was also rated as 'exceptional' and 'changes clinical practice' by 2 experts on Faculty Opinions."





C. Contributions to Science

- 1. The prevalence of peanut allergy among children in Western countries has doubled since 2005. This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease. This work has also influenced public discourse on the topic, and the results have been shared widely on Twitter, clinicians' Facebook pages, and mass media outlets including The New York Times and Washington Post, evidencing public awareness of this topic and translation to practice (Altmetric.com).
 - Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy, NEJM, Feb 2015. 25705822. RCR: 47; 377
 news stories
 - b. Impact of peanut consumption in the LEAP Study: Feasibility, growth, and nutrition, The Journal of Allergy and Clinical Immunology, October 2016. 27297994. **134 news stories; 7** patent mentions
 - Association of Staphylococcus aureus colonization with food allergy occurs independently of eczema severity, The Journal of Allergy and Clinical Immunology, August 2019. 31160034. 61 news stories; 133 tweets
 - d. Effect of Avoidance on Peanut Allergy after Early Peanut Consumption, NEJM, April 2016. 26942922. RCR 14; 7 patent mentions





Live Demo



How will you report on the impact of your research for your grant application or renewal?

Ask us about

The Altmetric CTSA Reporting Support Service

Help NCATS understand the impact of your hub's research

Liesa Ross
Director of Market Development, Americas
liesa@almetric.com

Questions?

Patty Smith, MLIS engagement@altmetric.com



Questions? support@altmetric.com