



Twitting science: the viewpoint of scientists

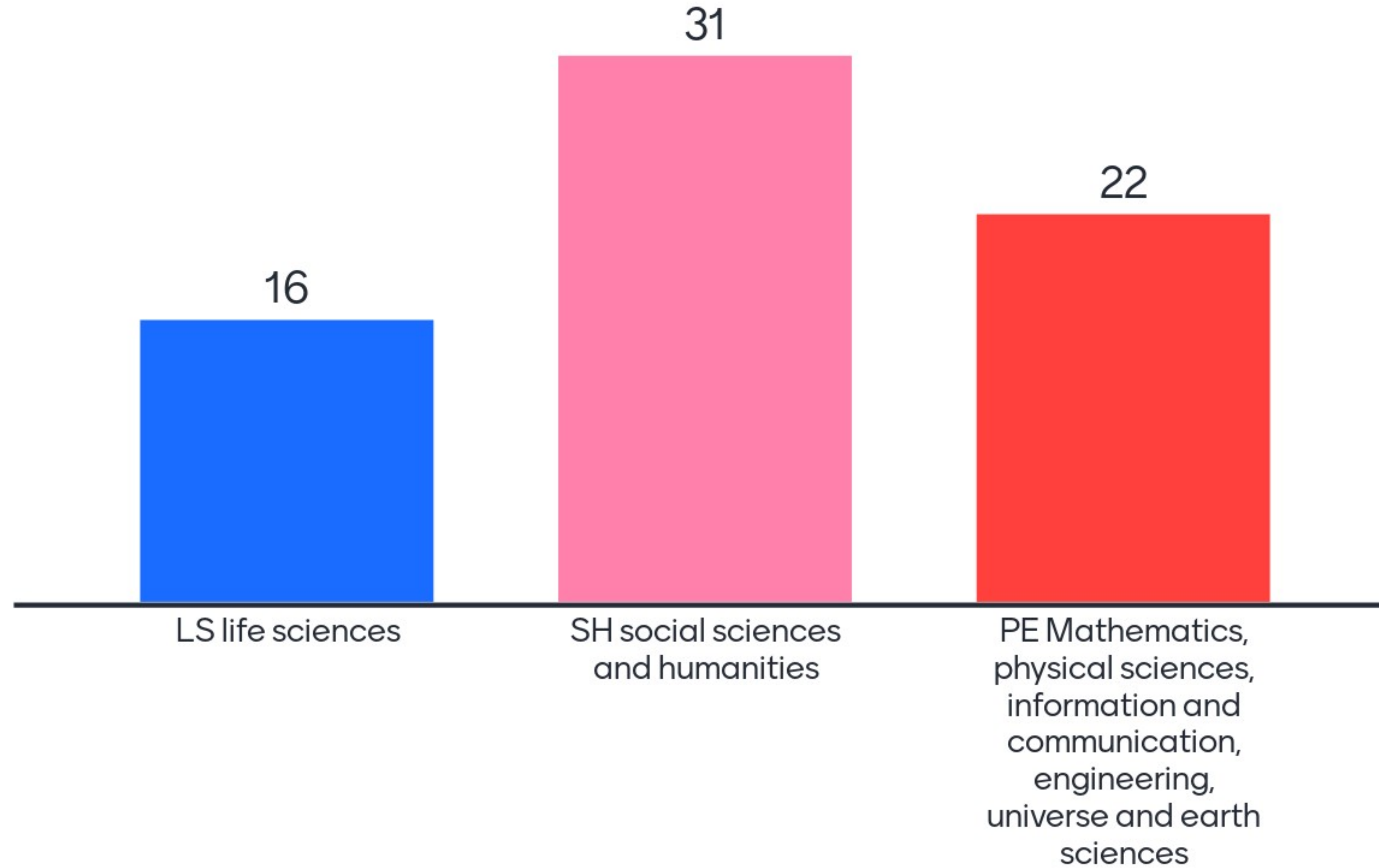
Silvia Piconese

immunologist @ Sapienza University

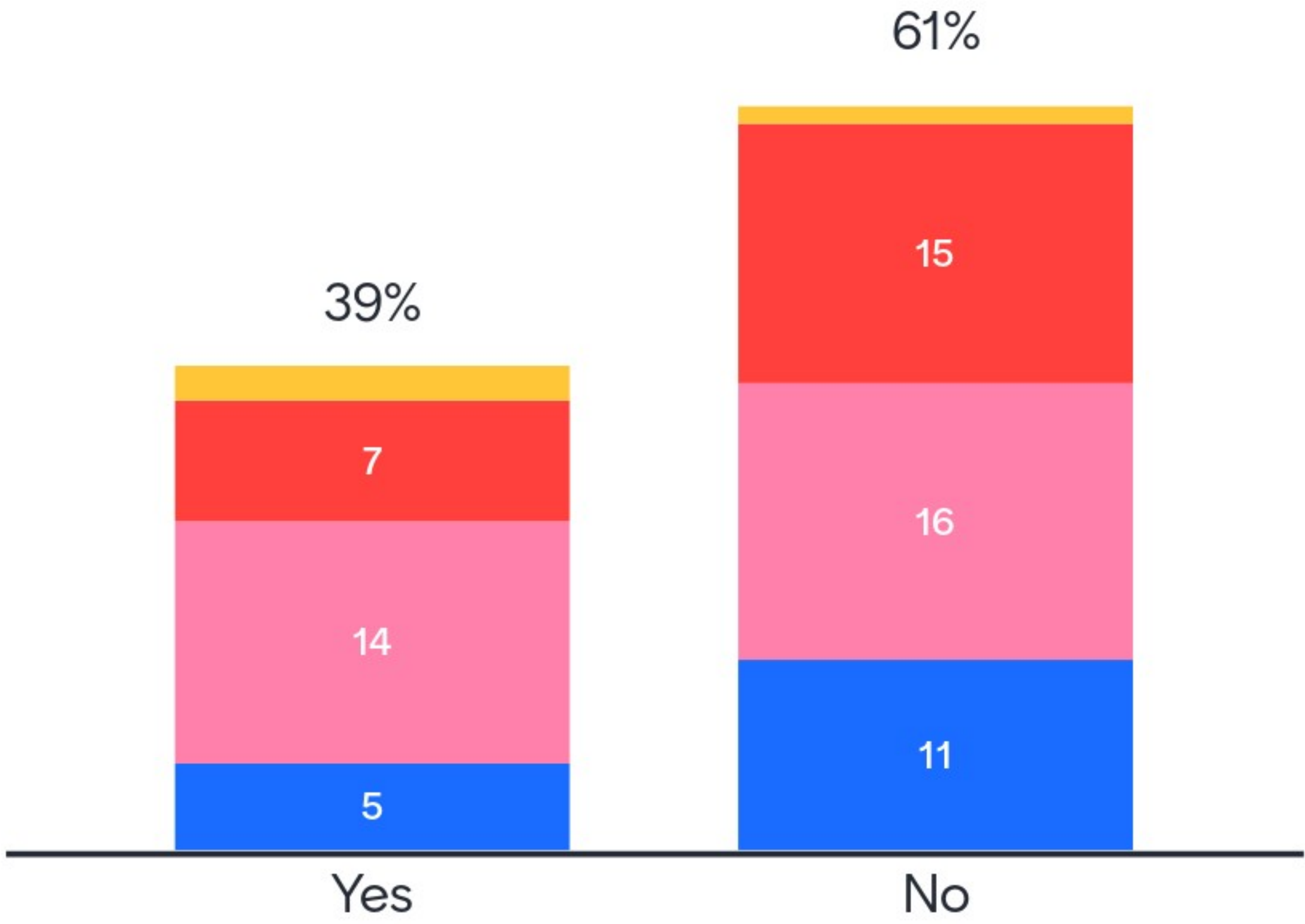


Instructions

Which is the area of your PhD?



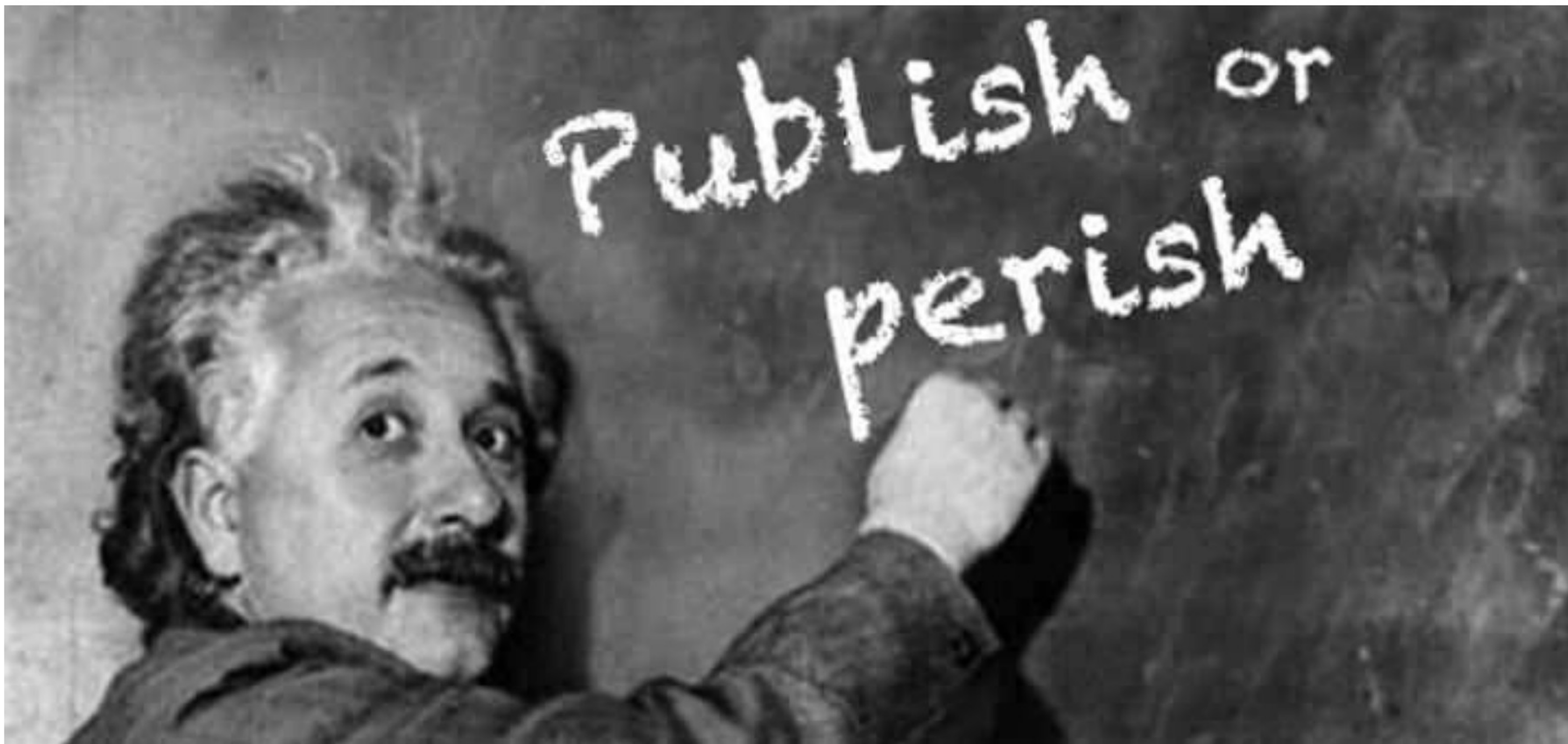
Have you have ever attended a communication course?

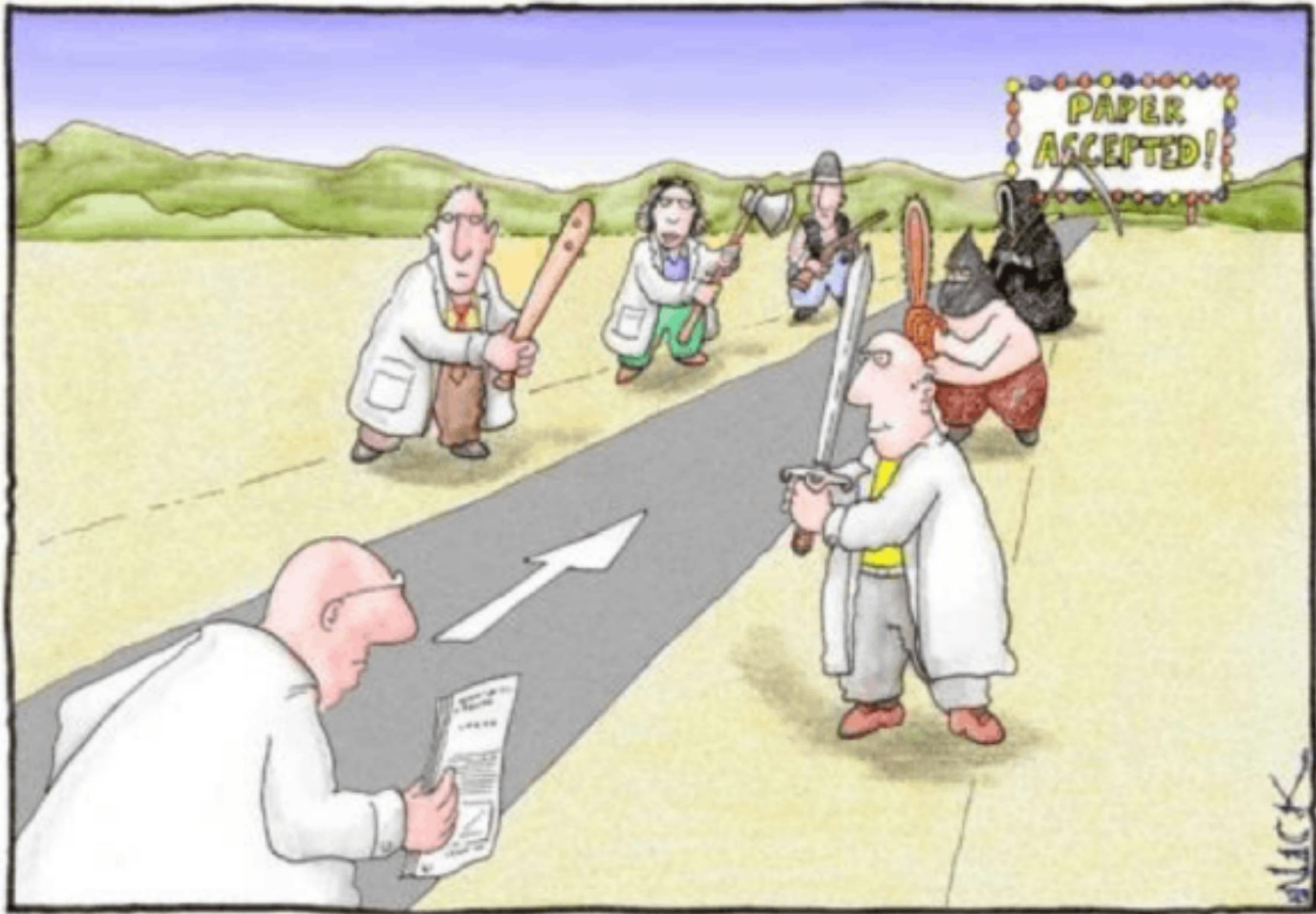


Which is the area of your PhD?

- LS life sciences
- SH social sciences and humanities
- PE Mathematics, physical sciences, information and communication, engineering, universe and earth sciences

The process of scientific publication





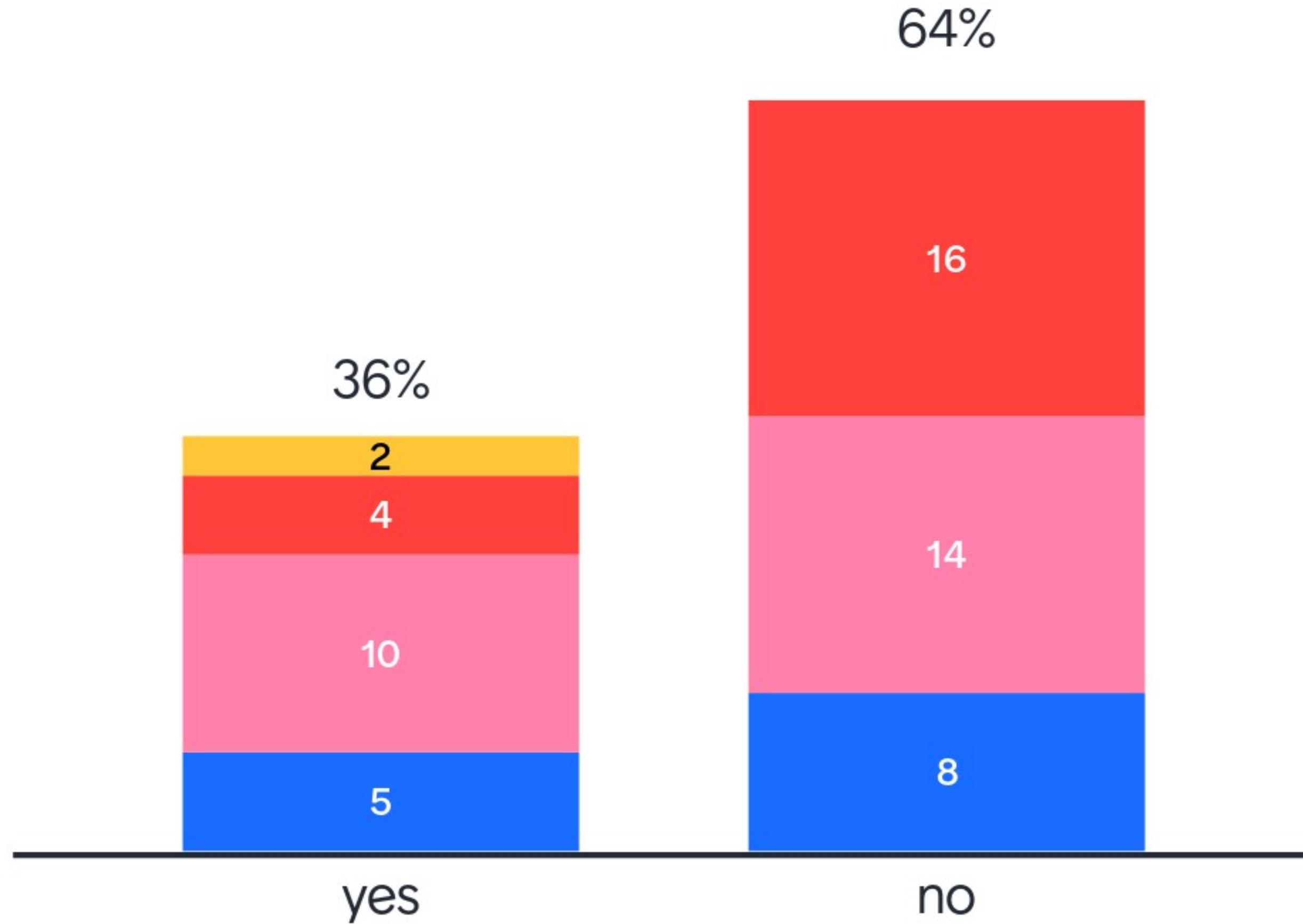


Communication	Dissemination
About the project and results	About results only
<p>Multiple audiences</p> <p><i>Beyond the project's own community (include the media and the public)</i></p>	<p>Audiences that may use the results in their own work</p> <p><i>e.g. peers (scientific or the project's own community), industry and other commercial actors, professional organisations, policymakers</i></p>
<p>Inform and reach out to society, show the benefits of research</p>	<p>Enable use and uptake of results</p>

Tips to use twitter



Do you currently have a twitter account?



Which is the area of your PhD?

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- PE Mathematics, physical sciences, information and communication, engineering, universe and earth sciences

The twitter homepage

<https://twitter.com/home>

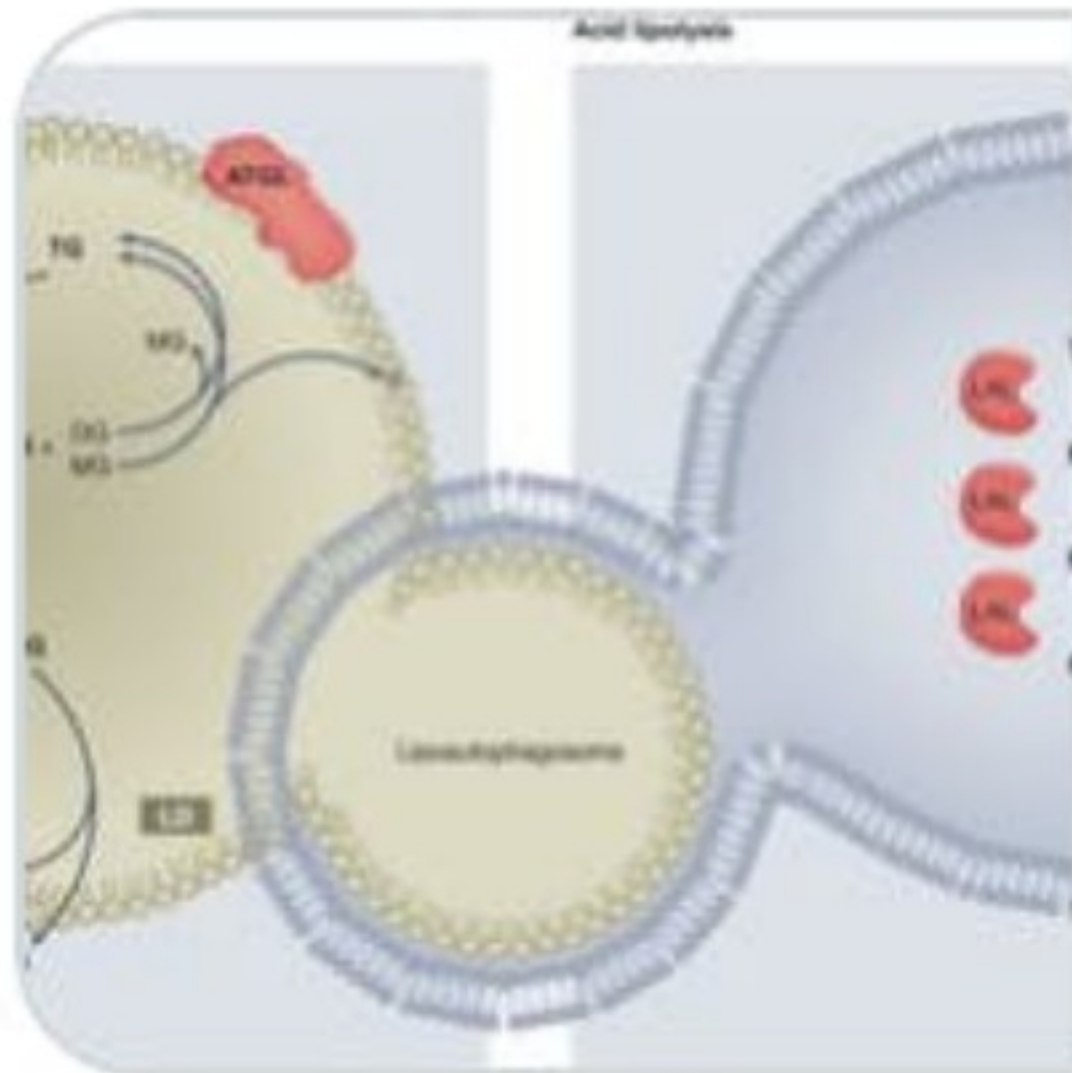
↻ Nature Metabolism Retweeted



James Olzmann @OlzmannLab · 10h

...

Excellent review on [#LipidDroplet](#) lipolysis out from [@MartinaS_lab](#) and Zechner and colleagues. 🙌 "Lipolysis: cellular mechanisms for lipid mobilization from fat stores"



nature.com

Lipolysis: cellular mechanisms for lipid...

Nature Metabolism - Zechner and colleagues discuss mechanisms facilitating the mobilization o...



1



19



85



8





James Poniewozik 

@poniewozik

Follow



The 280-character limit is a terrible idea. The whole beauty of Twitter is that it forces you to express your ideas concisely (1/47)

2:15 PM - 26 Sep 2017

55,983 Retweets **165,160** Likes



1.7K



56K



165K



ARTICLE

<https://doi.org/10.1057/s41599-019-0280-3>

OPEN


How character limit affects language usage in tweets

Arnout B. Boot¹, Erik Tjong Kim Sang², Katinka Dijkstra¹ & Rolf A. Zwaan¹

ABSTRACT In November 2017 Twitter doubled the available character space from 140 to 280 characters. This provided an opportunity for researchers to investigate the linguistic effects of length constraints in online communication. We asked whether the character limit change (CLC) affected language usage in Dutch tweets and hypothesized that there would be a reduction in the need for character-conserving writing styles. Pre-CLC tweets were compared with post-CLC tweets. Three separate analyses were performed: (I) general analysis: the number of characters, words, and sentences per tweet, as well as the average word and sentence length. (II) Token analysis: the relative frequency of tokens and bigrams; (III) part-of-speech analysis: the grammatical structure of the sentences in tweets (i.e., adjectives, adverbs, articles, conjunctives, interjections, nouns, prepositions, pronouns, and verbs); **pre-CLC tweets showed relatively more textisms, which are used to abbreviate and conserve character space. Consequently, they represent more informal language usage (e.g., internet slang); in turn, post-CLC tweets contained relatively more articles, conjunctions, and prepositions.** The results show that online language producers adapt their texts to overcome limit constraints.

Casanova Lab @casanova_lab · Nov 1 ...

1/ Here is new evidence in [#JoCI](#) [@springerpub](#) that type I IFN is essential for protective immunity to SARS-CoV-2 infection, with a 13-year-old child hospitalized for critical COVID-19 pneumonia due to autosomal recessive IFNAR1 deficiency (link.springer.com/article/10.1007/s12079-020-00900-0)

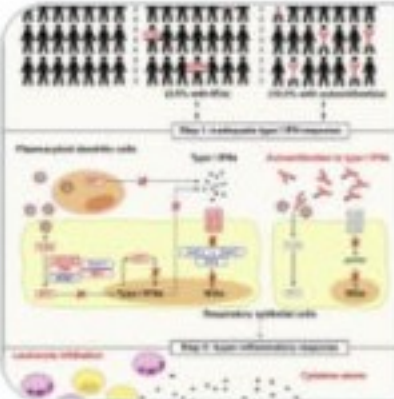
 link.springer.com
A Case of Autosomal Recessive Interferon...
Journal of Clinical Immunology - Interferons (IFNs) play a crucial role in antiviral immunity. Genetic ...

3 25 68

[Show this thread](#)

Casanova Lab @casanova_lab · Nov 1 ...

3/ There are now three unrelated patients whose autosomal recessive IFNAR1 deficiency resulted in critical COVID-19 pneumonia ([cell.com/med/fulltext/S...](https://cell.com/med/fulltext/S1534-6206(20)30001-1)).

 cell.com
Life-Threatening COVID-19: Defective Interferons ...
The risk of life-threatening COVID-19 pneumonia increases sharply after 65 years of age, but other ...

1 3 16

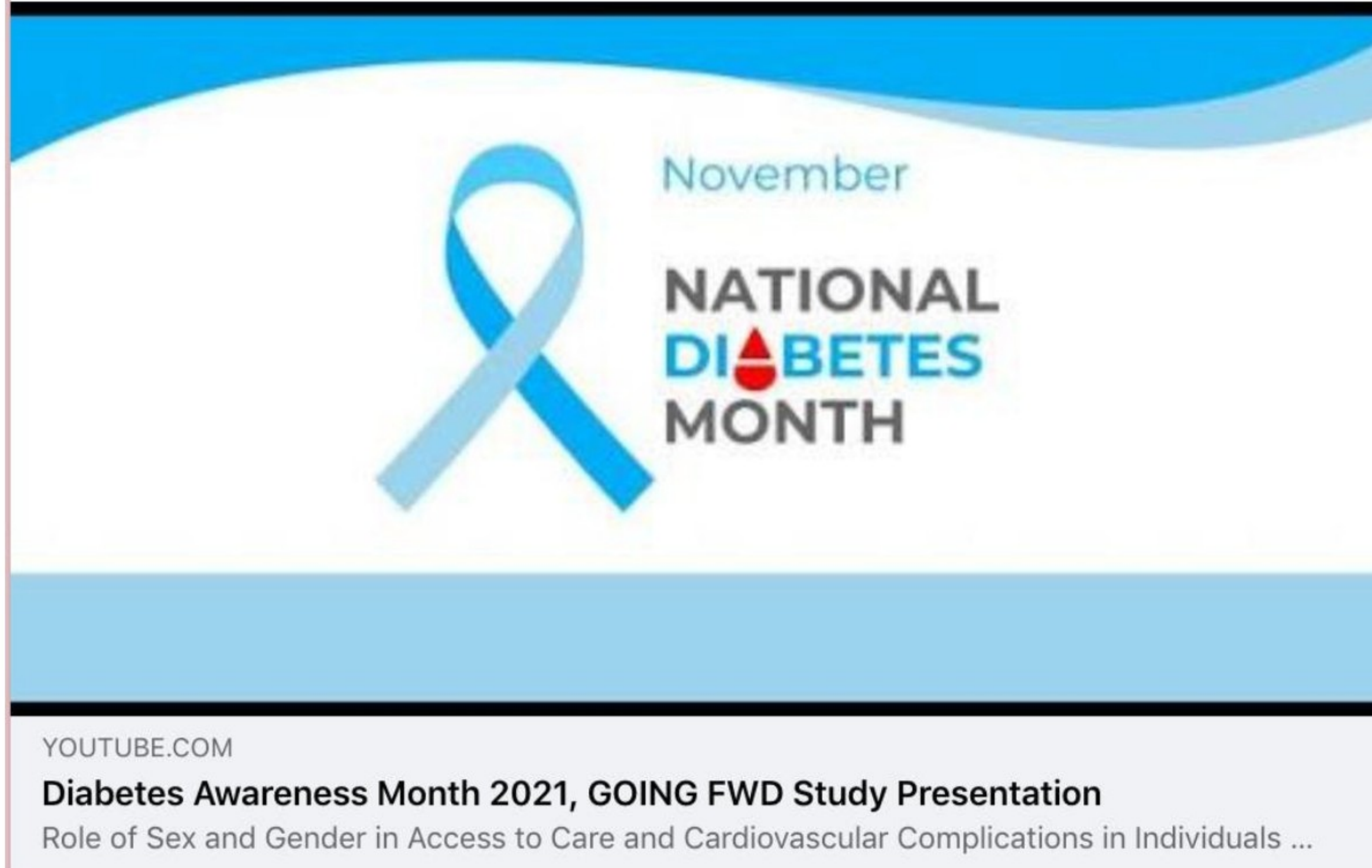
Casanova Lab @casanova_lab · Nov 1 ...

4/ Congratulations to the Iranian team, namely Shaghayegh Khanmohammadi, Nima Rezaei, Mehdi Khazaei, and Afshin Shirkhani, working at Tehran and Bushehr Universities of Medical Sciences in Iran.

3 2 17

example of twitter thread

Monday November 22nd from 12-1pm EST, will be the first "live" twitter Chat on Role of Sex and Gender in Access to Care and Cardiovascular Complications in Individuals with Diabetes Mellitus. To find this event on twitter, visit: [#GOINGFWDJournalClub](#)



YOUTUBE.COM

Diabetes Awareness Month 2021, GOING FWD Study Presentation

Role of Sex and Gender in Access to Care and Cardiovascular Complications in Individuals ...

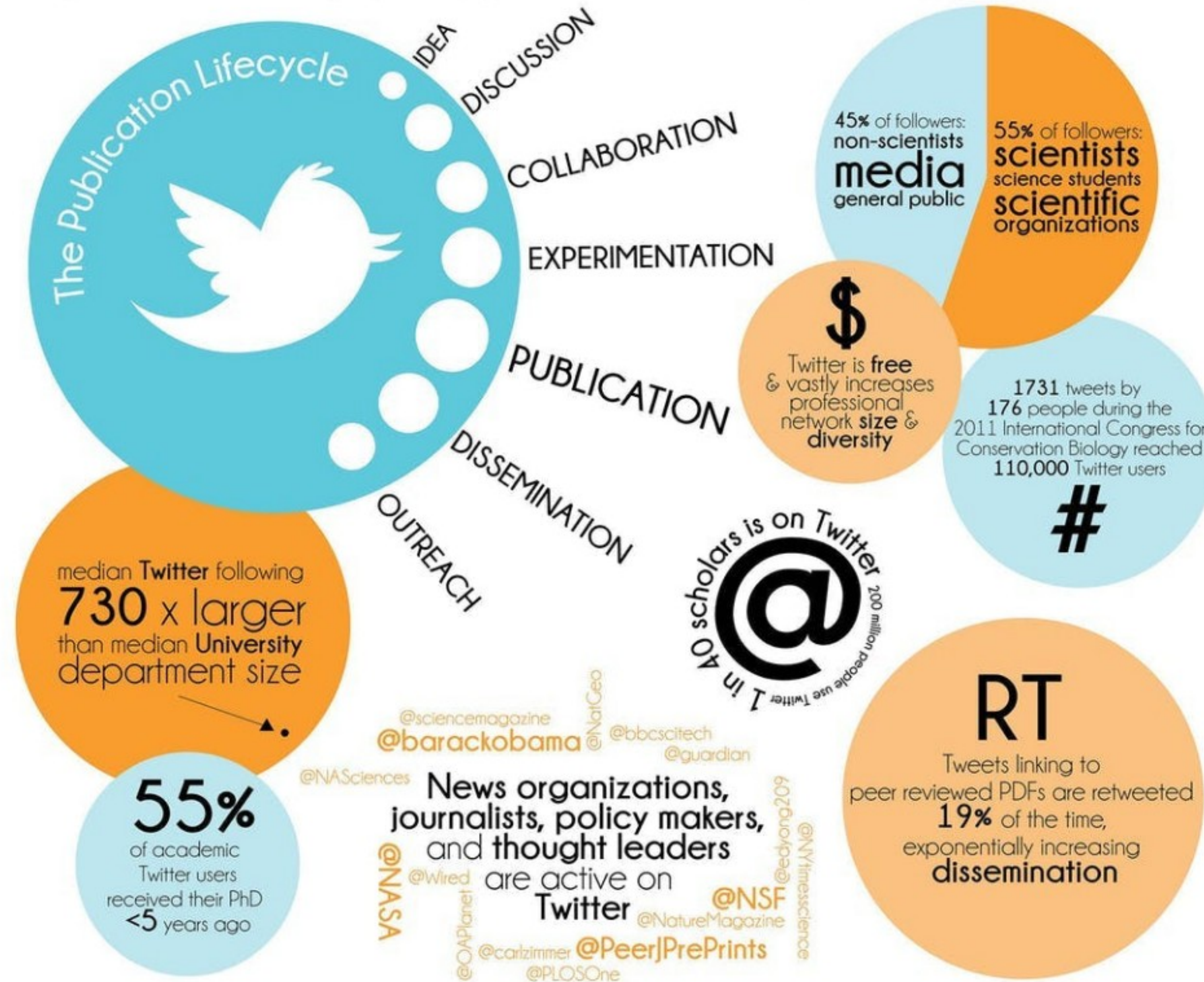
example of live tweeting (from facebook)

Twitter and dissemination

The role of Twitter in Science Publication and Communication

Based on the work of Emily S. Darling, David Shiffman, Isabelle M. Côté, & Joshua A. Drew*

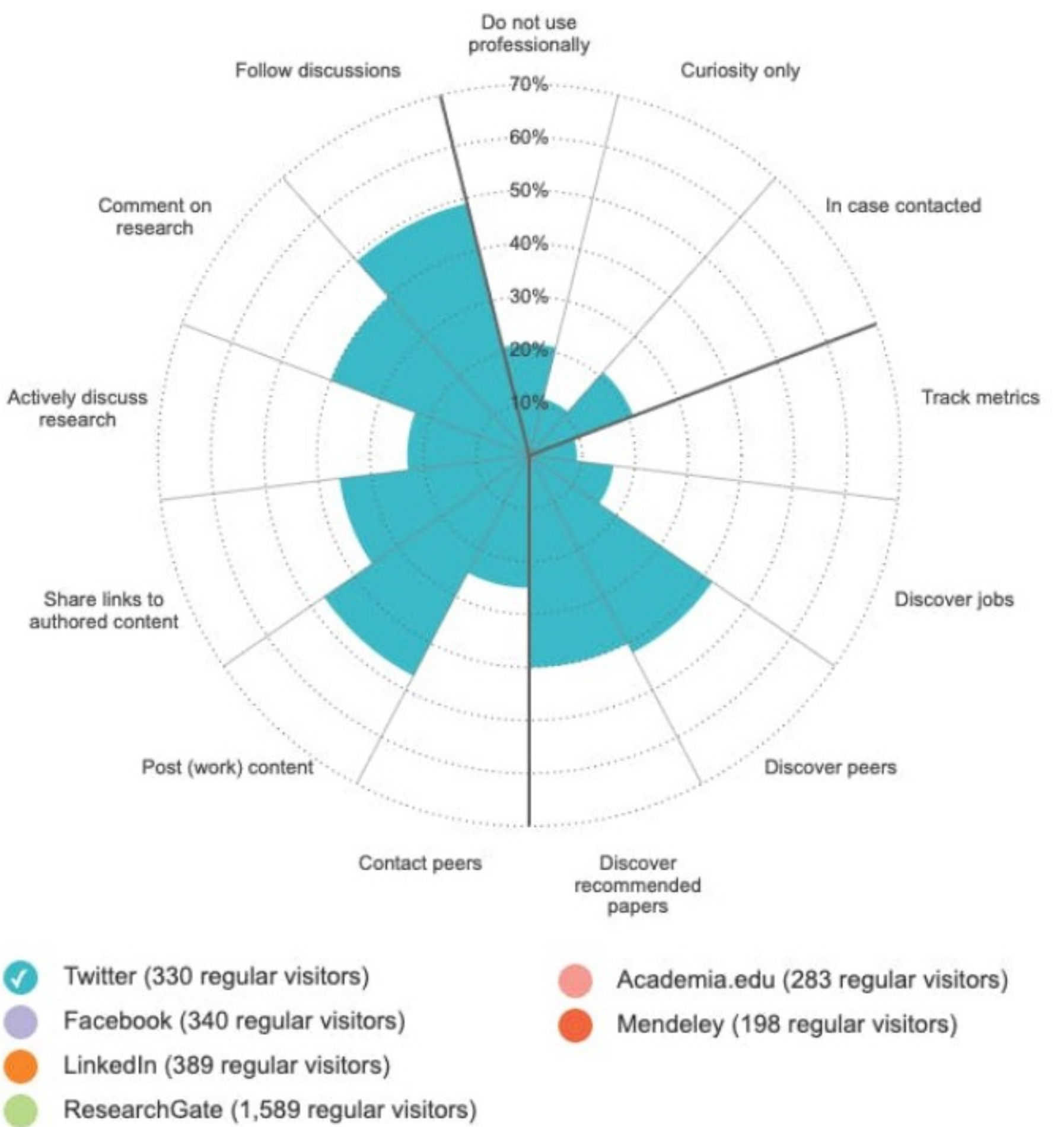
A survey of 116 marine scientists actively using Twitter highlighted the value of this social networking and microblogging site to science and scientists.



*Infographic compiled using data from Darling et al. 2013, PeerJ PrePrints before publication in Ideas in Ecology and Evolution, and references therein, by KatiePhD.com.

Interactive: Why scholars use social media

In *Nature's* survey, a subset of scholars who said they 'regularly visited' social media sites were quizzed in detail about their activities.

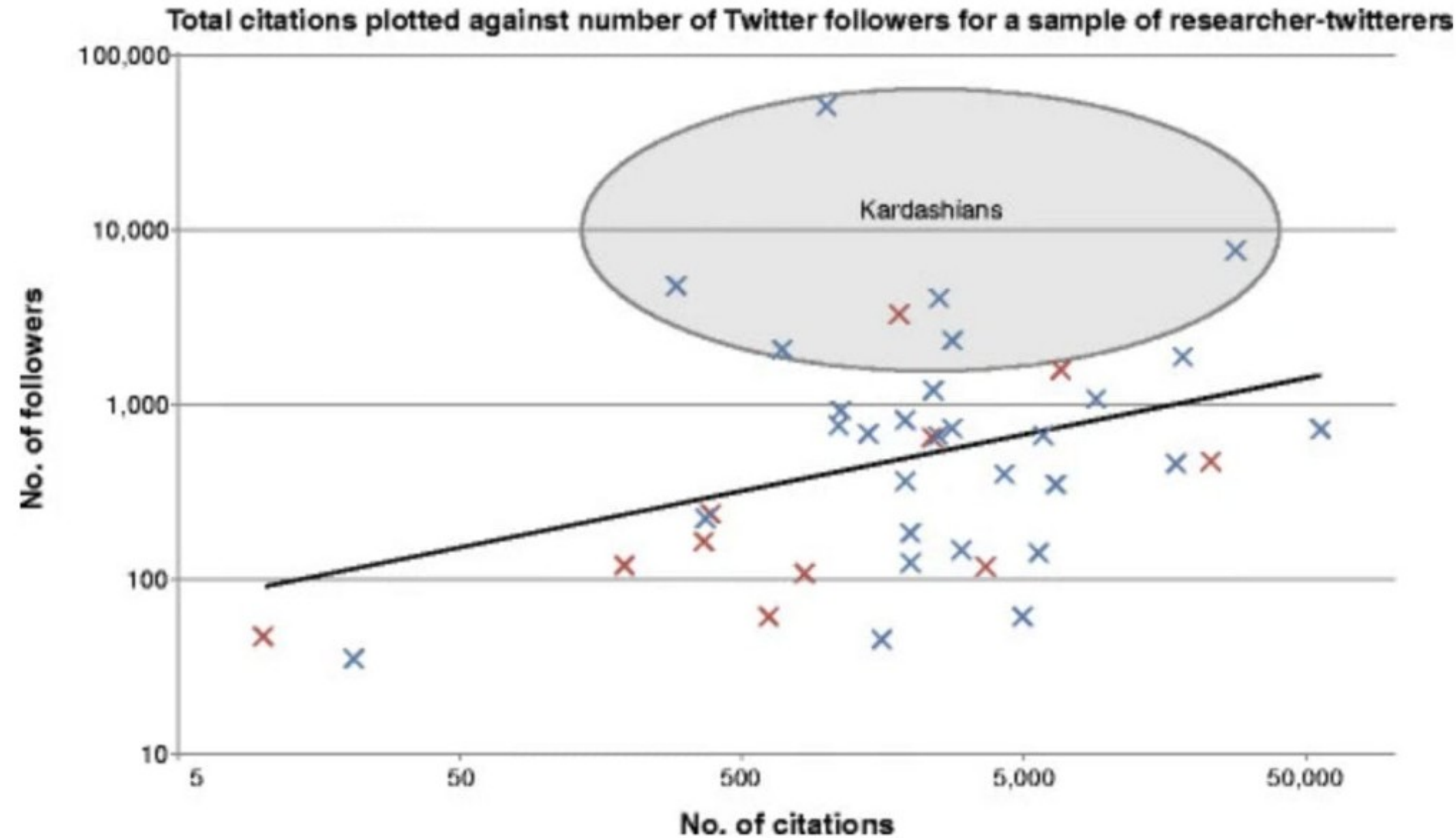


Voices from the survey

"Although I don't have many followers, occasionally a tweet will be RTed and be seen by many people."

TWITTER USER, AGE 45-54, UNITED STATES, SENIOR SCIENTIST

From: [The Kardashian index: a measure of discrepant social media profile for scientists](#)



Twitter followers versus number of scientific citations for a sort-of-random sample of researcher tweeters. Red crosses represent female tweeters and blue crosses represent male tweeters. The black trendline describes the best fit to the data. Those individuals with a highly overinflated number of followers (when compared with the number predicted by the trendline) are highlighted by the area labeled Kardashians.


naturemedicine

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How Twitter is changing medical research

[Nicole Wetsman](#) ✉[Nature Medicine](#) **26**, 11–13 (2020) | [Cite this article](#)**4320** Accesses | **8** Citations | **738** Altmetric | [Metrics](#)

From online journal clubs to ‘tweetorials’ to conference updates, social media is changing the dissemination and discussion of biomedicine.


National Library of Medicine
National Center for Biotechnology Information

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SaveEmailSend to


Sorted by: Best matchDisplay options

MY NCBI FILTERS

RESULTS BY YEAR

↑

↓



19772021

TEXT AVAILABILITY

☐ Abstract
☐ Free full text
☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ Books and Documents
☐ Clinical Trial
☐ Meta-Analysis
☐ Randomized Controlled Trial
☐ Review
☐ Systematic Review

PUBLICATION DATE

☐ 1 year
☐ 5 years
☐ 10 years
☐ Custom Range

Additional filters

5,217 results

☐

1
Twitter as a Tool for Health Research: A Systematic Review.

Sinnenberg L, Buittenheim AM, Padrez K, Mancheno C, Ungar L, Merchant RM.

Am J Public Health. 2017 Jan;107(1):e1-e8. doi: 10.2105/AJPH.2016.303512. Epub 2016 Nov 17.

PMID: 27854532

Free PMC article.

Review.

Less is known about the use of social media data sources, such as **Twitter**, for this purpose.

OBJECTIVES: To systematically review the use of **Twitter** in health research, define a taxonomy to describe **Twitter** use, and characterize the current state of **Twitte** ...

☐

2
Social Medicine: **Twitter** in Healthcare.

Pershad Y, Hangge PT, Albadawi H, Oklu R.

J Clin Med. 2018 May 28;7(6):121. doi: 10.3390/jcm7060121.

PMID: 29843360

Free PMC article.

Review.

With the recent emphasis on transparency and the open sharing of information between doctors and patients, the intersection of social media and healthcare is of particular interest. **Twitter** is currently the most popular form of social media used for healthcare communicatio ...

☐

3
Twitter Use in the Hematopoietic Cell Transplantation Community.

Patel SS, Majhail NS.

Curr Hematol Malig Rep. 2018 Feb;13(1):53-58. doi: 10.1007/s11899-018-0434-1.

PMID: 29374370

Review.

We review the adoption of **Twitter** in the transplant community and its implications on clinical care, education, and research. ...Additionally, **Twitter** serves as a gateway for resources dedicated to education and support for patients undergoing transplantation. ...

☐

4
Twitter-Based Journal Clubs: Bringing Critical Appraisal to the Social Table.

Stoneman S, Hiremath S.

Semin Nephrol. 2020 May;40(3):264-272. doi: 10.1016/j.semnephrol.2020.04.004.

PMID: 32560774

Review.

In the past decade, particularly the past 5 years, there has been a proliferation of online journal clubs on **Twitter** (**Twitter** Inc, San Francisco, CA). These **Twitter**-based journal clubs have used the conversational nature of the medium and the focus allowed by ...

☐

5
Coronavirus Goes Viral: Quantifying the COVID-19 Misinformation Epidemic on **Twitter**.

Kouzy R, Abi Jaoude J, Kraitem A, El Alam MB, Karam B, Adib E, Zarka J, Traboulsi C, Akl EW, Baddour K.

Cureus. 2020 Mar 13;12(3):e7255. doi: 10.7759/cureus.7255.

PMID: 32292669

Free PMC article.

We sought to analyze the magnitude of misinformation that is being spread on **Twitter** (**Twitter**.



Eric Topol ✓

@EricTopol

physician-scientist, author, editor
drerictopol.com

📍 La Jolla, CA 🔗 scripps.edu/translational 📅 Joined November 2009

529 Following **430.3K** Followers



Followed by Klebanoff_Lab, Jenna Guthmiller, and 101 others you follow



← **Prof. Akiko Iwasaki** ✓
11.5K Tweets



...

✉

🔔

Following

Prof. Akiko Iwasaki ✓
@VirusesImmunity

We study innate and adaptive immunity to [#viruses](#) and [#cancer](#). [#COVID19](#)
[#immunology](#) [#vaccines](#) @HHMINEWS @YaleIBIO @YaleMed @YaleEMD @YaleSPH.

📍 New Haven, CT 🔗 medicine.yale.edu/lab/iwasaki/ 📅 Joined May 2017

1,796 Following 149.4K Followers

👤 Followed by Ana Cardoso, Pallett Lab UCL, and 201 others you follow

- Tweets
- Tweets & replies
- Media
- Likes

📌 Pinned Tweet

Prof. Akiko Iwasaki ✓
 @VirusesImmunity · Dec 27, 2017

To all aspiring young [#WomenInSTEM](#):
 Mentee: Should I avoid being pregnant while trying to secure a faculty position?
 Me: Be pregnant & go on interviews. If they don't welcome you with open arms and offer childcare options, they don't deserve you. [#KnowYourWorth](#)

💬 163

↻ 1.4K

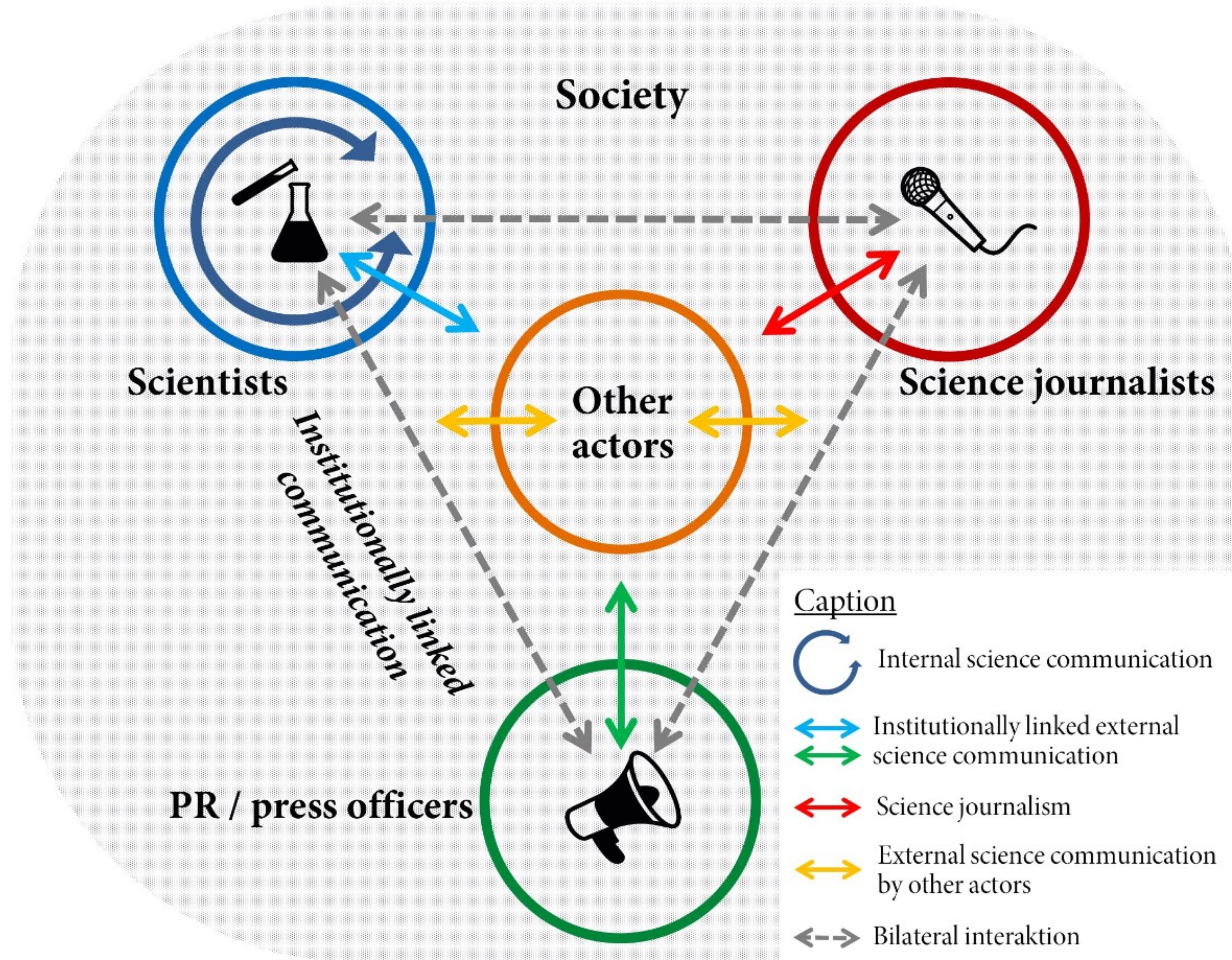
❤ 8K

📤

Twitter and communication








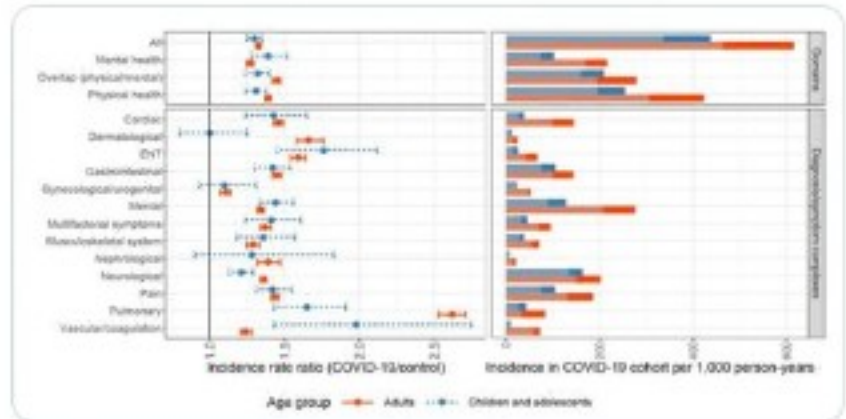
Which of the two tweets is more appropriate for the public?

30



Eric Topol
@EricTopol

Features of #LongCovid among >157,000 adults and children with Covid infections with matched controls [medrxiv.org/cgi/content/sh...](#) Lower absolute incidence in children and teens but impact statistically significant across all age groups



5:00 PM · Oct 23, 2021 · Twitter Web App


254 Retweets

42 Quote Tweets

540 Likes

Option 1

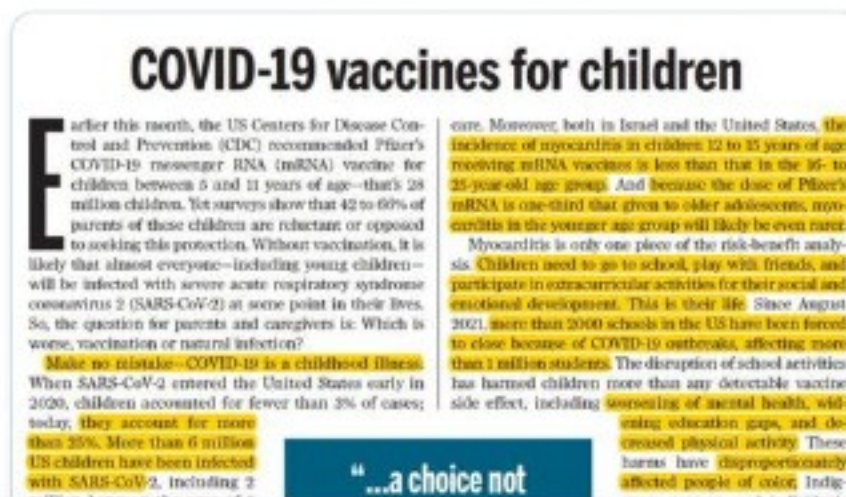
20



Eric Topol
@EricTopol

The compelling case for vaccination in kids [science.org/doi/10.1126/sc...](#) @ScienceMagazine

"Vaccinating all children against SARS-CoV-2 could be among the most impactful public health efforts the US has seen in decades."



Option 2