

Follow the Money

An exploratory study of open access publishing funds' impact



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Background - purpose

The logo for the Open Access Fund is centered on a teal rectangular background. It features a large, stylized teal padlock icon in the background. Overlaid on the padlock is the text "Open Access" in the top line and "Fund" in the bottom line, both in a white, sans-serif font.

Open Access
Fund

Background - methodology

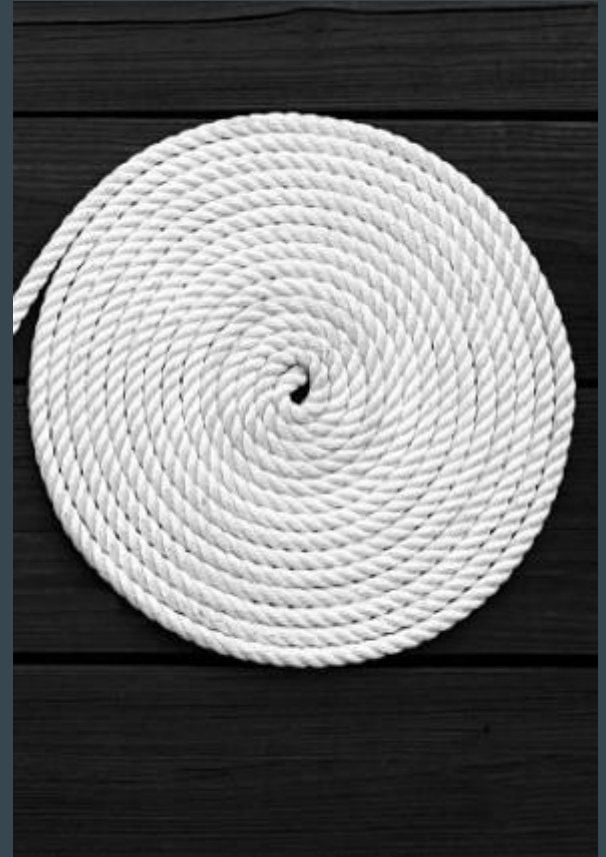
- Contacted 63 schools
 - SPARC list
- Sent spreadsheet template with categories
- 16 schools responded
 - Response rate: 25%
- Mixture of spreadsheets received
 - Some filled in our template
 - Some sent existing spreadsheets



Background - methodology cont.

Data manipulation:

- Mapped self-reported categories to ours
 - Example: School and Discipline -> Discipline
- Looked up category information where applicable
 - Example: Carnegie classification
- Categorized subject data into larger fields
 - Journal subject and author's discipline
 - Categories based on Library of Congress (DOAJ)



Participants

George Mason University

Johns Hopkins University

University of California, Irvine

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Clara

University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

University of North Carolina at Greensboro

University of Oklahoma

University of Pennsylvania

University of Pittsburgh

University of Rhode Island

Virginia Tech

Wake Forest University

Participants - public

George Mason University

Johns Hopkins University

University of California, Irvine

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Clara

University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

University of North Carolina at Greensboro

University of Oklahoma

University of Pennsylvania

University of Pittsburgh

University of Rhode Island

Virginia Tech

Wake Forest University

Participants - private

George Mason University

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University of California, Irvine

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University of California, Santa Barbara

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University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

University of North Carolina at Greensboro

University of Oklahoma

University of Pennsylvania

University of Pittsburgh

University of Rhode Island

Virginia Tech

Wake Forest University

Participants - R1 classification

George Mason University

Johns Hopkins University

University of California, Irvine

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Clara

University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

University of North Carolina at Greensboro

University of Oklahoma

University of Pennsylvania

University of Pittsburgh

University of Rhode Island

Virginia Tech

Wake Forest University

Participants - R2 and other

George Mason University

Johns Hopkins University

University of California, Irvine

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Clara

University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

University of North Carolina at Greensboro

University of Oklahoma

University of Pennsylvania

University of Pittsburgh

University of Rhode Island

Virginia Tech

Wake Forest University

Participants - **medical schools**

George Mason University

Johns Hopkins University

University of California, Irvine

University of California, San Francisco

University of California, Santa Barbara

University of California, Santa Clara

University of Colorado Boulder

University of Iowa

University of Massachusetts Amherst

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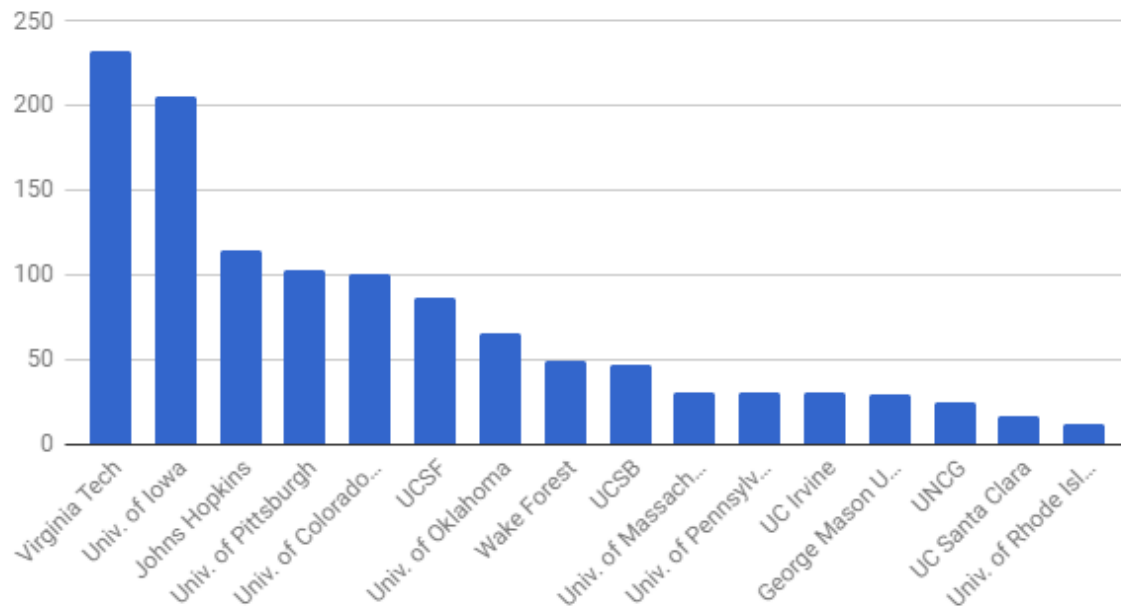
University of Rhode Island

Virginia Tech

Wake Forest University

How big are these spreadsheets?

Number of funded articles by school

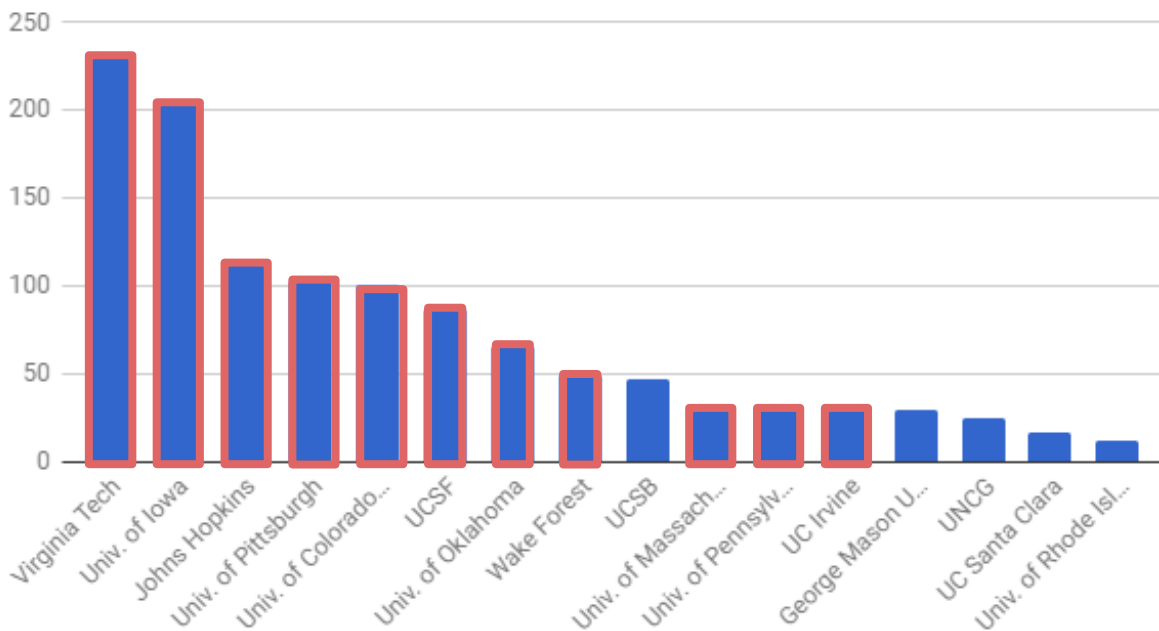


School	Articles	Years of Fund
Virginia Tech	232	5
Univ. of Iowa	205	5
Johns Hopkins	114	3
Univ. of Pittsburgh	103	5
Univ. of Colorado Boulder	100	4
UCSF	86	3
Univ. of Oklahoma	66	?
Wake Forest	49	9
UCSB	47	4
Univ. of Massachusetts	31	3
Univ. of Pennsylvania	31	2
UC Irvine	30	1
George Mason Univ.	29	2
UNCG	25	5
UC Santa Clara	16	1
Univ. of Rhode Island	12	4

Total articles: 1176

How big are these spreadsheets?: med schools

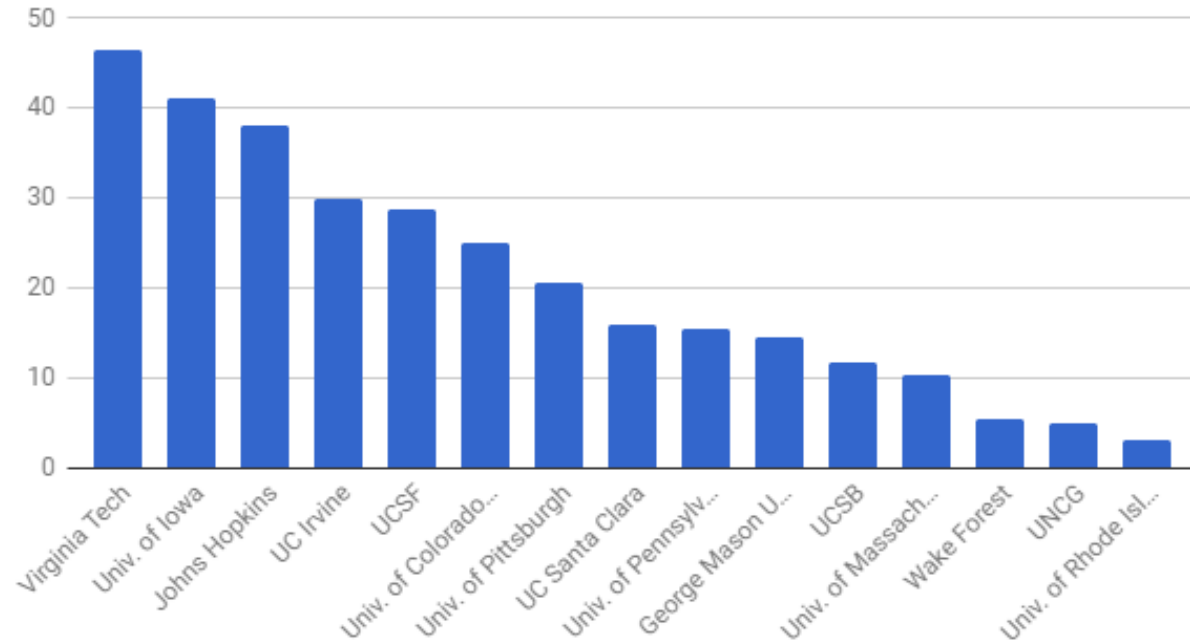
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Articles funded per year?

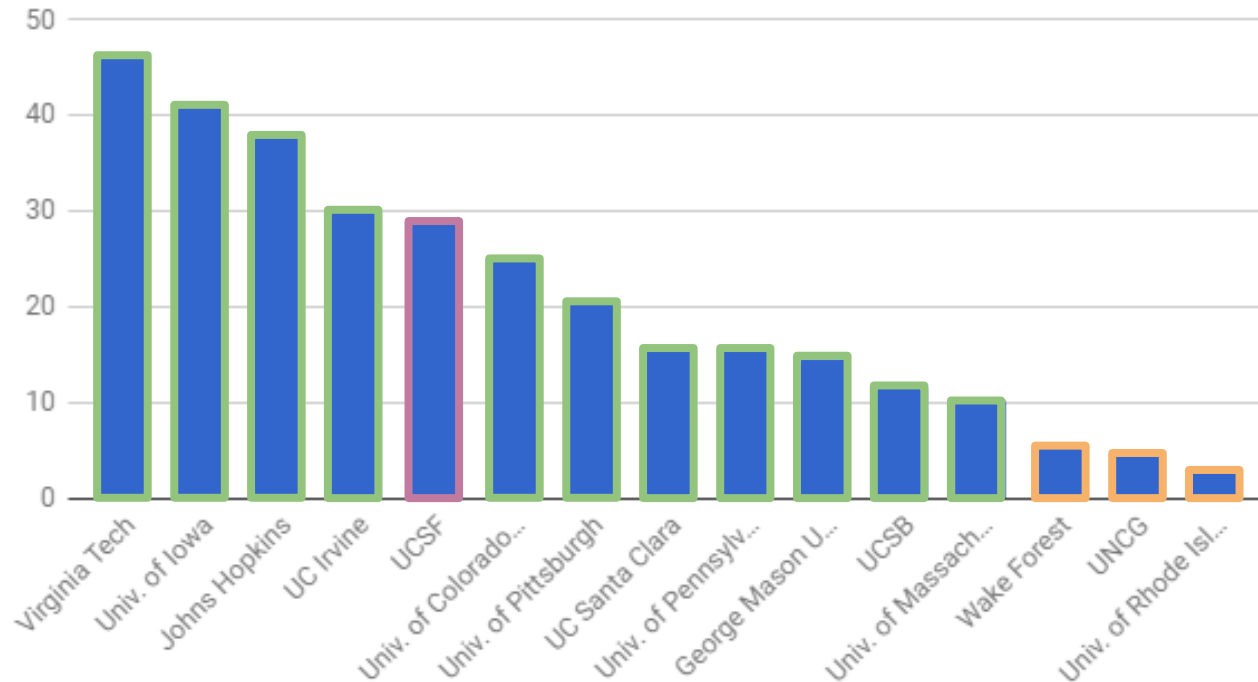
Average articles per year



School	Articles per year
Virginia Tech	46.4
Univ. of Iowa	41
Johns Hopkins	38
UC Irvine	30
UCSF	28.66666667
Univ. of Colorad...	25
Univ. of Pittsburg	20.6
UC Santa Clara	16
Univ. of Pennsylv...	15.5
George Mason U...	14.5
UCSB	11.75
Univ. of Massach...	10.33333333
Wake Forest	5.444444444
UNCG	5
Univ. of Rhode Is...	3
Univ. of Oklahoma	

Articles funded per year? - R1 R2, and other

Average articles per year



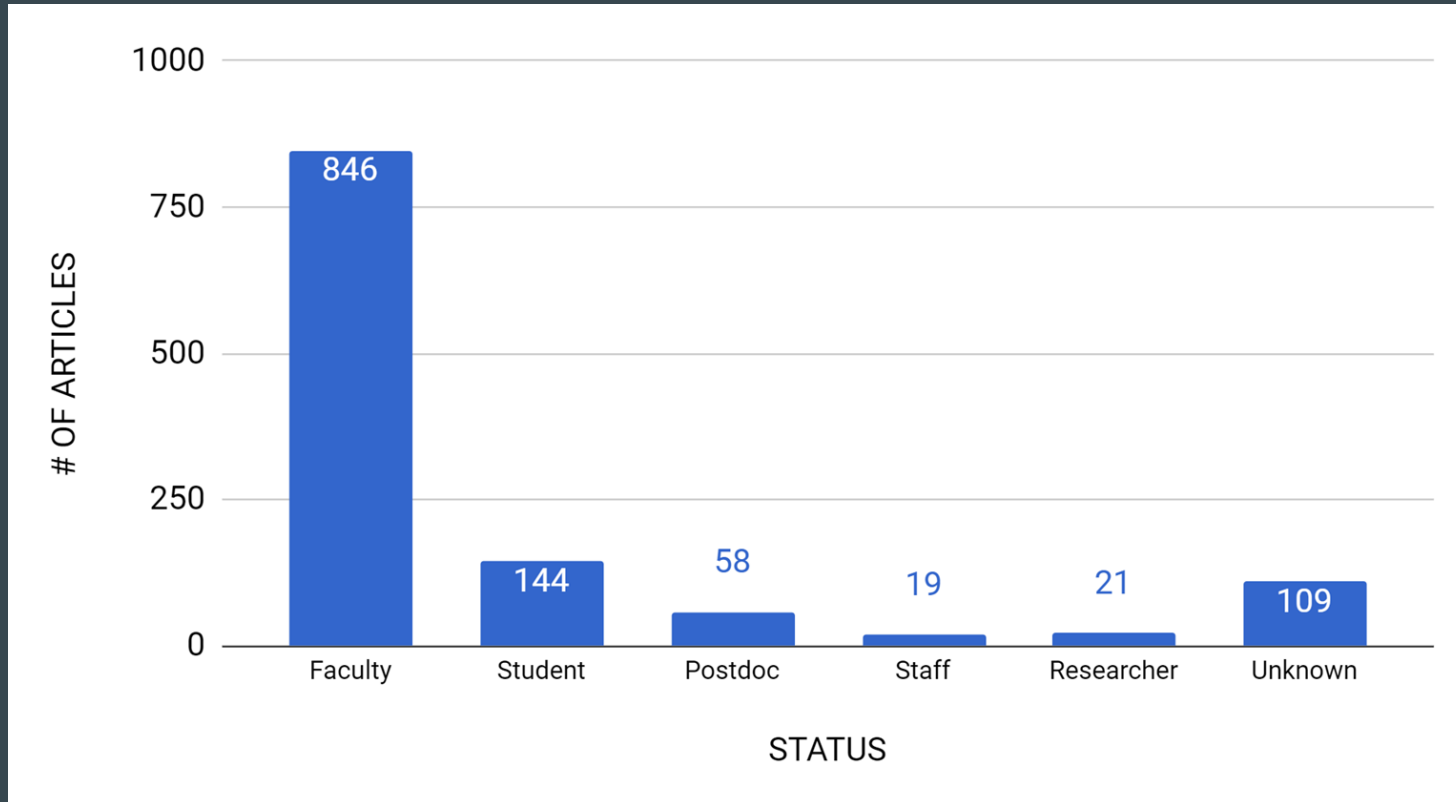
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Reimbursement amounts?

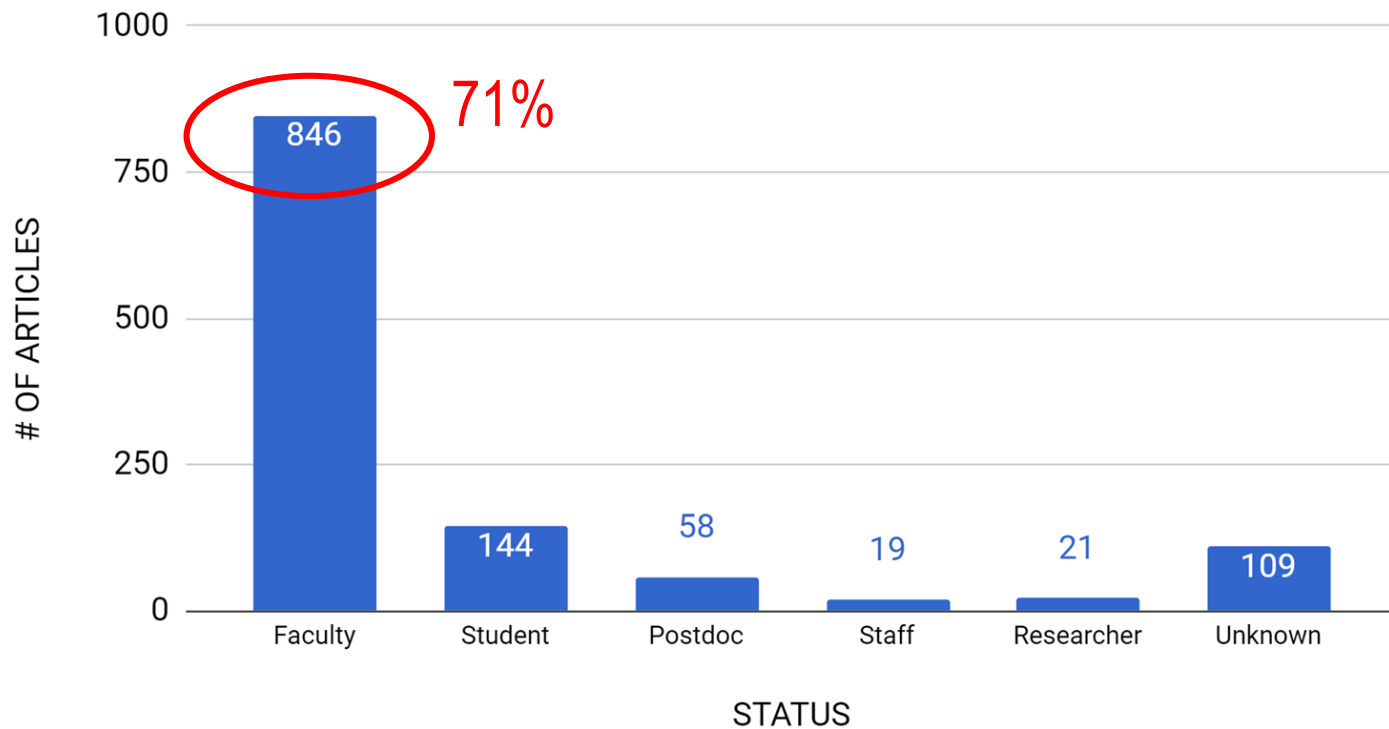
- Data for 885 total articles
- Smallest amount: \$38
- Largest amount: \$3750
- Average: \$1394
- Total reimbursement amount: \$1.2M+



Who was funded?

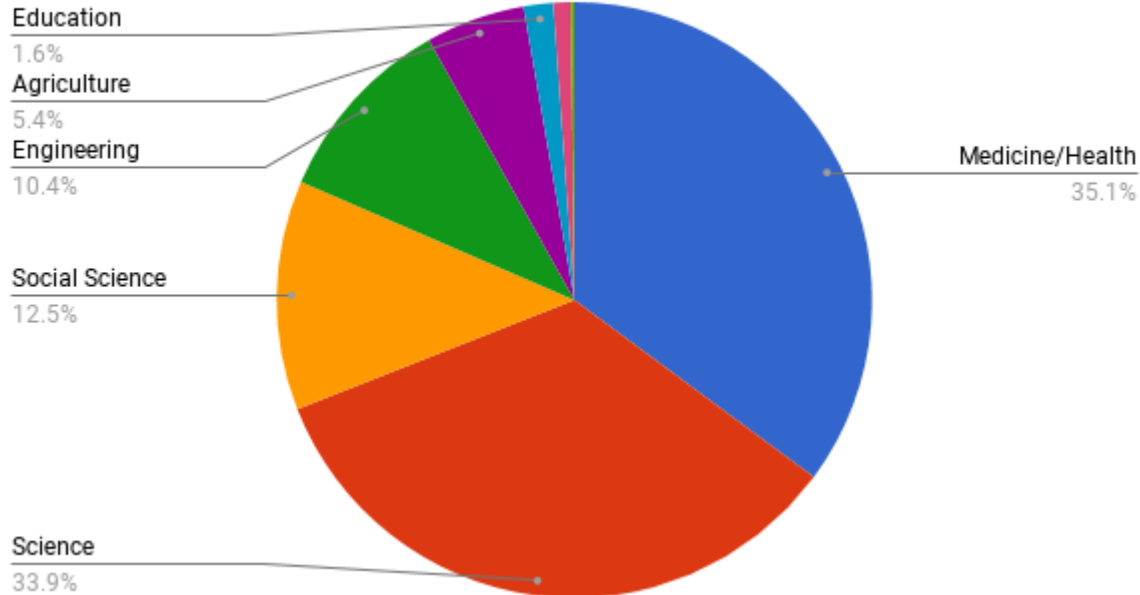


Who was funded?



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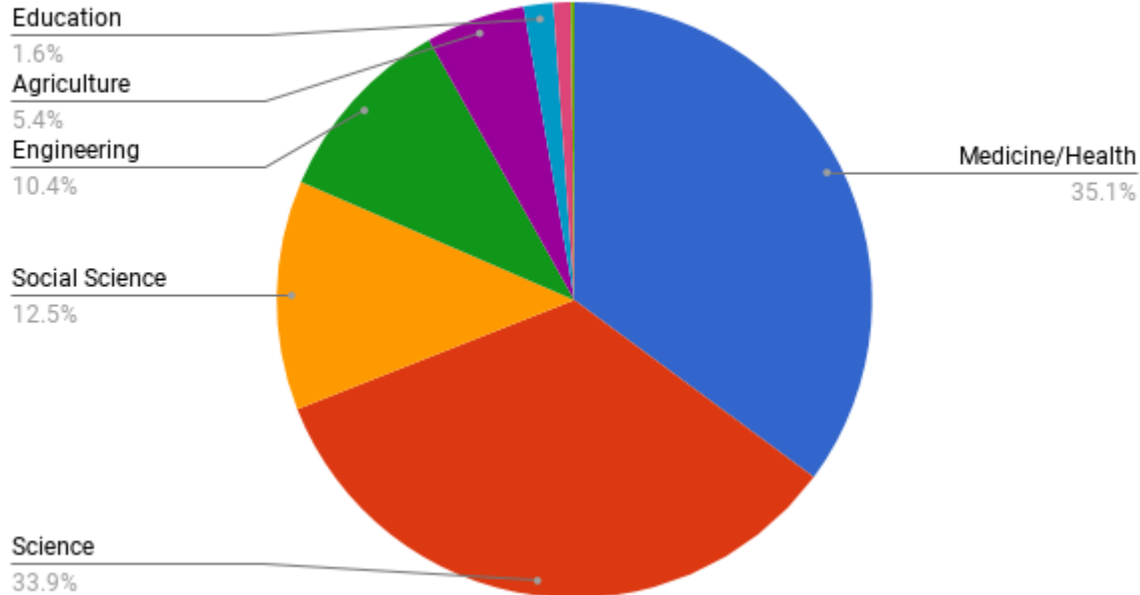
Articles by Author Disciplines



Medicine/Health	372
Science	359
Social Science	132
Engineering	110
Agriculture	57
Education	17
Humanities	10
Law	2
TOTAL	1059

Who was funded?

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69%

372

132

110

57

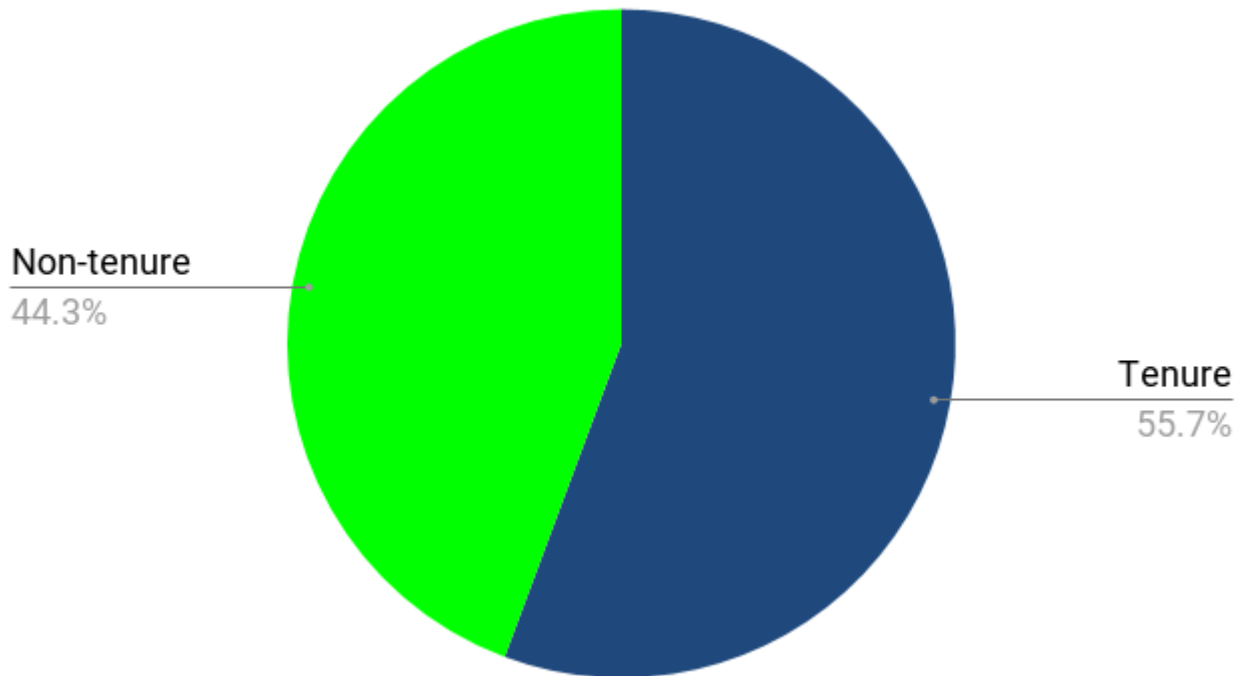
17

10

2

1059

What about tenure?



UC Irvine
UC San Francisco
UC Santa Barbara
UNC Greensboro
University of Pennsylvania
University of Rhode Island
Virginia Tech

Where were the articles published?

- Agriculture
- Auxiliary sciences of history
- Bibliography. Library science. Information resources
- Education
- Fine Arts
- General Works
- Geography. Anthropology. Recreation
- History (General) and history of Europe
- History America
- Language and Literature
- Law
- Medicine
- Military Science
- Music and books on Music
- Naval Science
- Philosophy. Psychology. Religion
- Political science
- Science
- Social Sciences
- Technology

Journals by Discipline

Education

3.5%

Engineering

8.3%

Social Science

4.9%

N/A

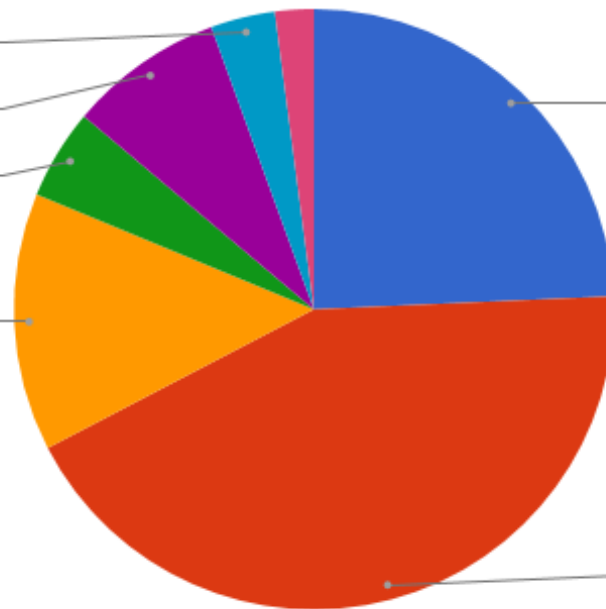
13.9%

Science

24.3%

Medicine

43.1%

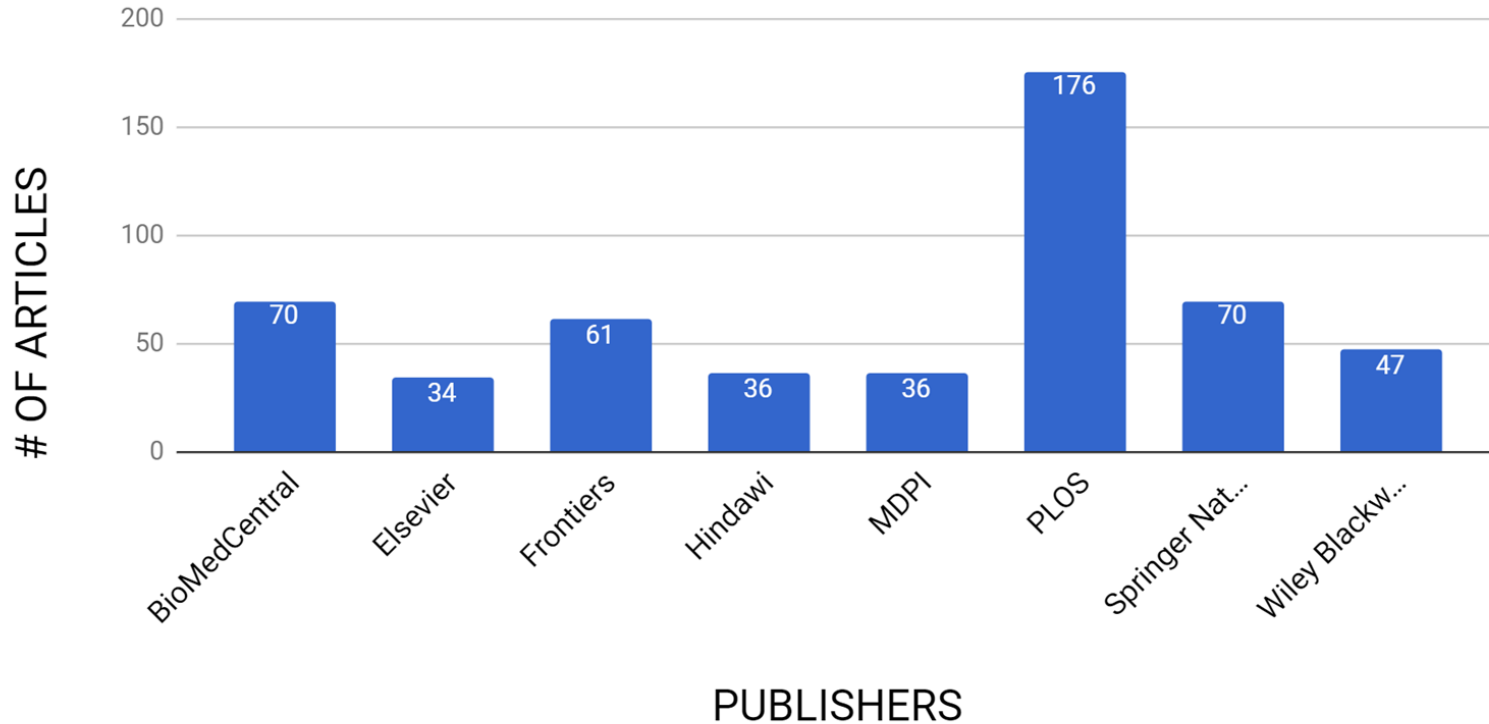


Where were the articles published?

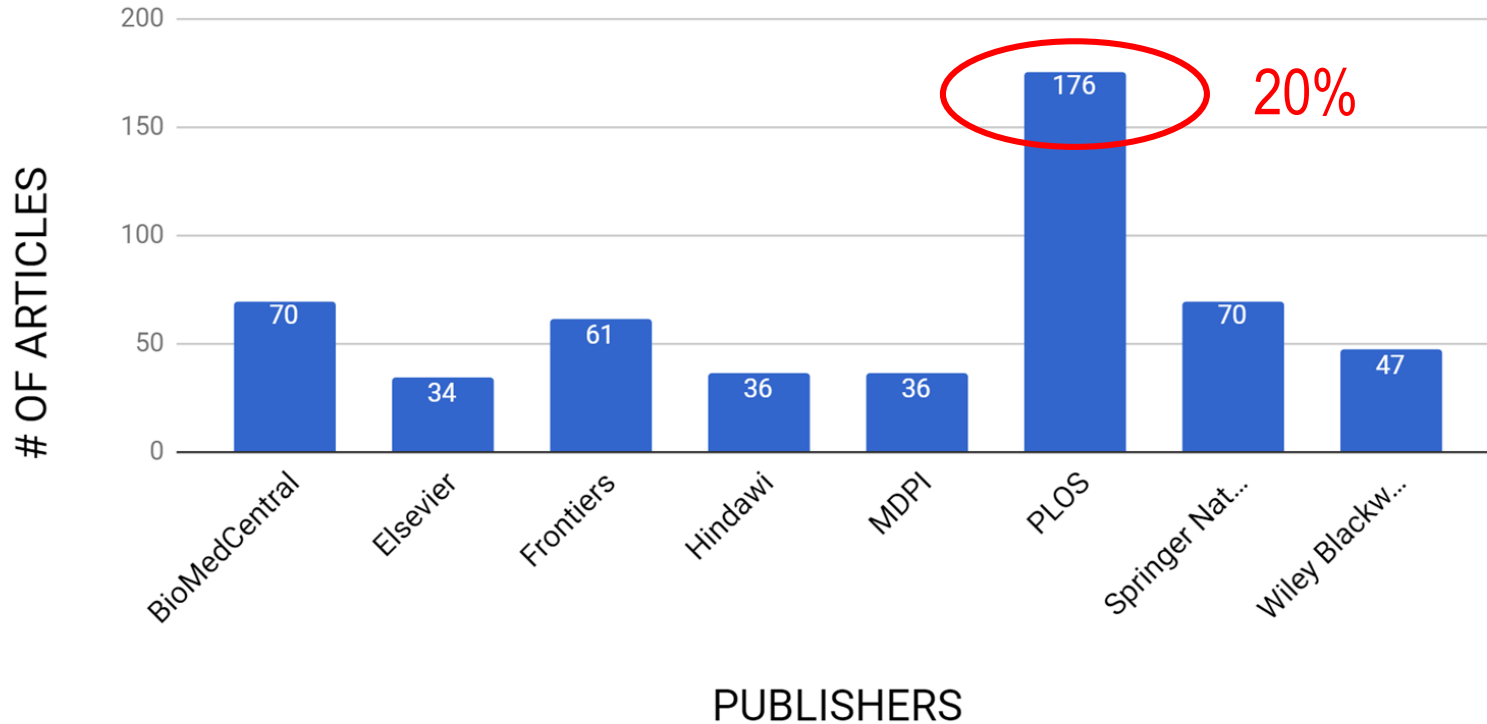
Journal Title	# of Articles	Discipline
1. PLOS ONE	220	Science
2. Scientific Reports	40	Science
3. Frontiers in Psychology	21	Social Science
4. Nature Communications	16	Science
5. Optics Express	16	N/A
6. Frontiers in Microbiology	15	Science
7. BMC Public Health	14	Medicine
8. Ecosphere	13	Science

Journal Title	# of Articles	Discipline
9. Ecology and Evolution	11	Science
10. Nucleic Acids Research	11	Science
11. Acta Crystallographica Section E	10	Science
12. Cell Reports	10	Science
13. Journal of Medical Internet Research	10	Medicine
14. Physiological Reports	10	Science
15. PLoS Genetics	10	Science

Where were the articles published?



Where were the articles published?



Summary of key findings

- Medical college and R1s both seem to fund more OA research
- Some institutions were able to fund more articles with a smaller budget
- Mostly faculty use these funds
- Authors tend to be in science and medicine/health



What's next for our study?

- Metrics: h-index, impact factor, citation counts
- Co-authors, international
- Time in profession
- Limits on use of funds



Why does this matter?

Are there ties between open access and impactful research?

How do we measure success in open access funds?

What can libraries do to better ensure success of their funds?

Thank you!

And we are very interested in your thoughts about this project,
so please tell what you'd like to know.

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