

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

Measuring Grant Productivity

Heather Krieger, Ph.D.




The National Institutes of Health

NIH Budget:

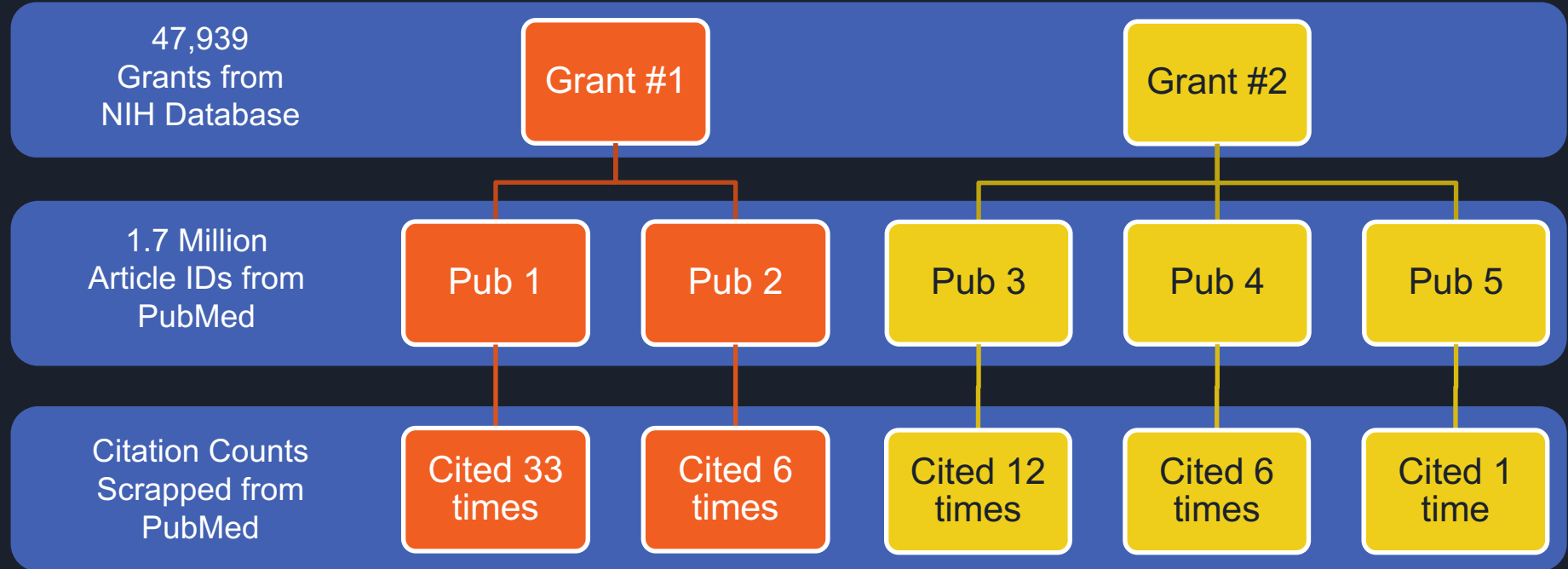
- In 2018: \$37 Billion
- 90+ Grant Mechanism


2016-2020 Strategic Plan:

- “...enhance scientific stewardship by recruiting and retaining an outstanding biomedical research workforce, enhancing workforce diversity and impact through partnerships, ensuring rigor and reproducibility, optimizing approaches to inform funding decisions, encouraging innovation, and engaging in proactive risk management practices”



Data from: NIH Reporter & PubMed





Data from: NIH Reporter & PubMed

Metrics

Grant #1

Grant #2

Mean:
17.5 vs. 6.3

Pub 1

Pub 2

Pub 3

Pub 4

Pub 5

Median:
17.5 vs. 6.0

Cited 33
times

Cited 2
times

Cited 12
times

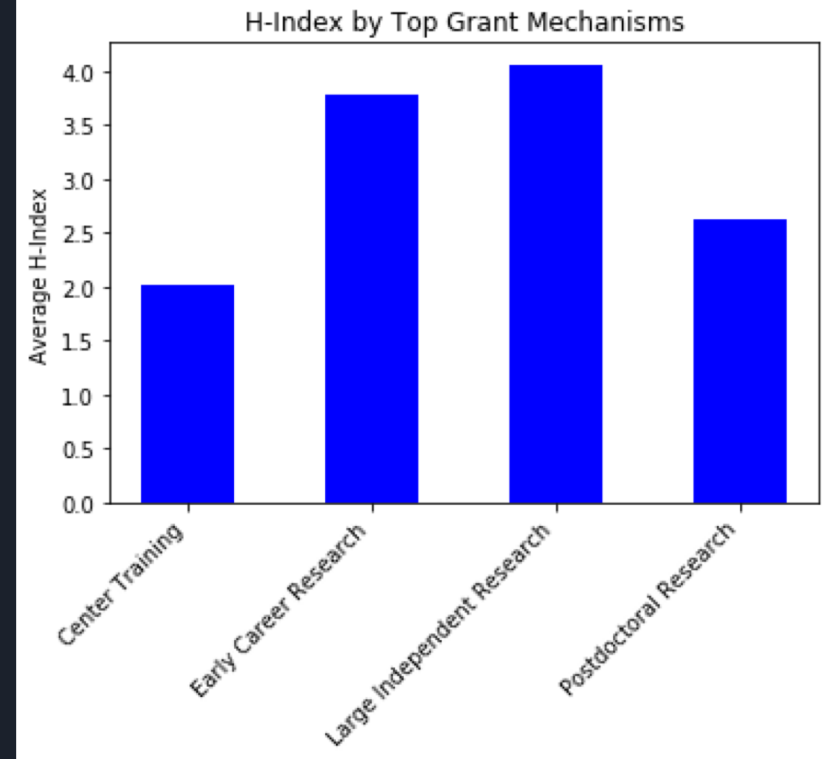
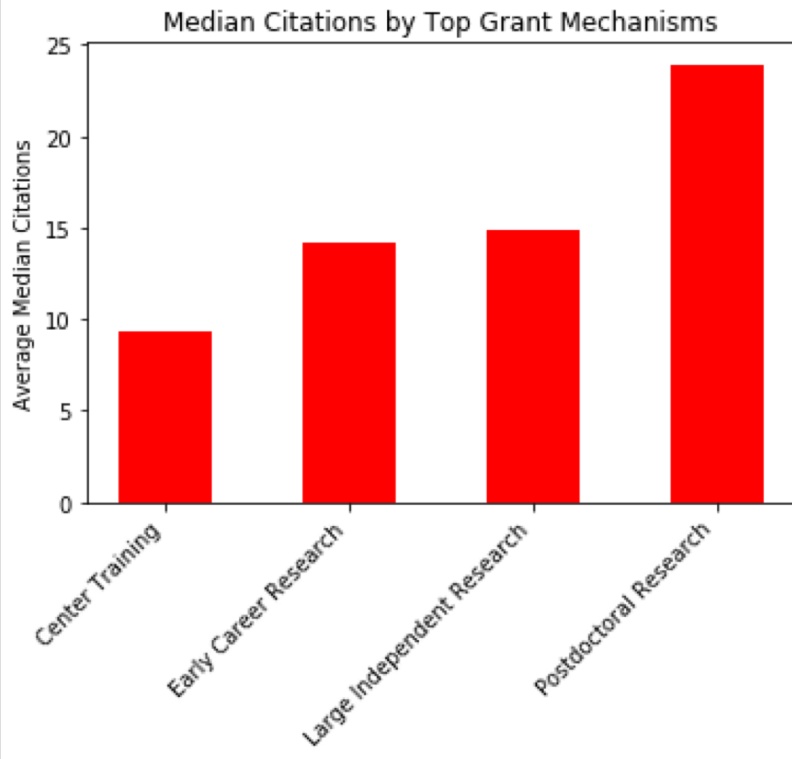
Cited 1
times

Cited 6
time

H-Index:
2 vs. 2

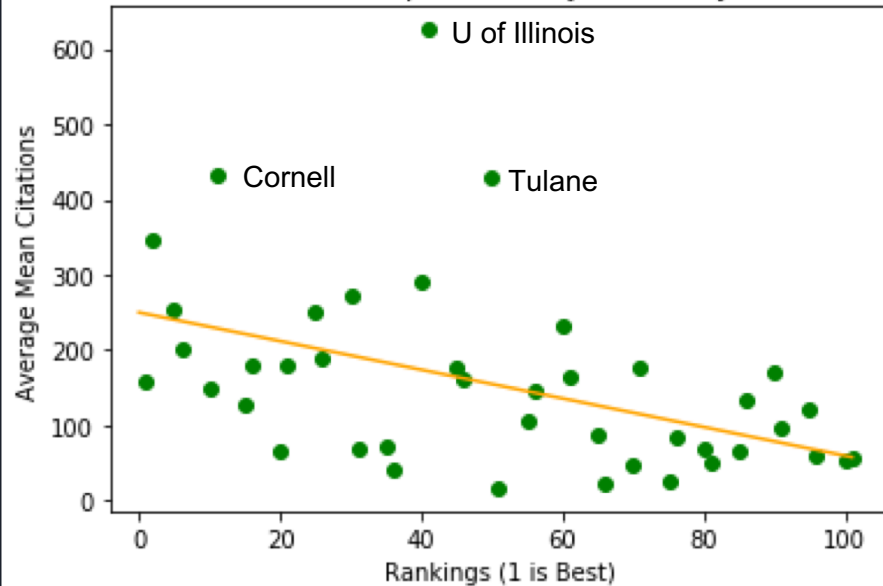
All Active Grants in 2000

Most Prevalent Mechanisms

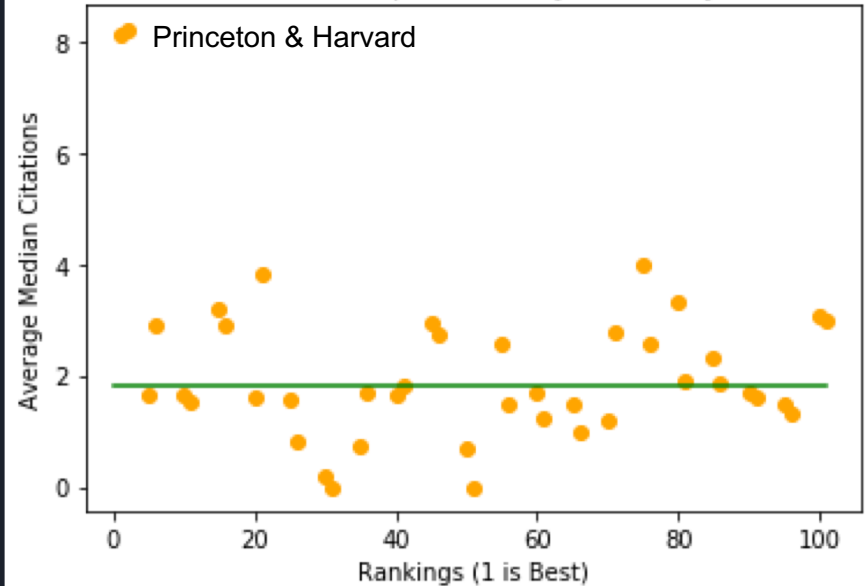


All Active Grants in 2000 University Rankings

Mean Citations per Grant by University Rank



Median Citations per Grant by University Rank





Use of Metrics Inform Funding Decisions

- Identify Highly Productive:
 - Mechanism
 - Centers
 - Researchers
 - Institutions
- Answer factors that produce Influential Research :
 - Prestigious institutions
 - Collaborations