



## Tracking Where Institutional Authors Publish



Virginia R. M. Carden, AHIP, Administrative Research Librarian, and Patricia L. Thibodeau, AHIP, Associate Dean for Library Services & Archives, Duke University Medical Center Library, Durham NC



**Objective:** Medical school administrators are seeking ways to measure faculty productivity and benchmark against peer institutions. One traditional measure of faculty productivity has been publications. The Library, in conjunction with the Dean's office, began a project of identifying in which journals faculty publish and benchmarking against peer institutions for selected journal titles in each field.

**Methods:** The Library selected the ISI citation indexes, since they allow for searching by institutional affiliation. Initial strategies were developed for identifying all permutations of the institutional name and affiliation in the databases. The search strategies were run against three complete years of the literature. The results were placed in an EndNote database for screening and further tagging. The plan was to update the database on an annual basis. The next phase of the project was to benchmark publications within specific journal titles against clinical and basic sciences departments at other institutions. In addition to a core list of highly rated scientific and clinical journals, the Library worked with the Vice Dean of Research to identify journal titles in each specialty area. ISI impact factors were used as a starting point, but advice from librarians helped determine the final list.

**Results:** After running initial searches, changes were made to the strategies for identifying all the variations for institutional listings, and research was conducted on each peer to identify the various designations for comparable departments and divisions. Once the large EndNote database was populated with citations, spreadsheets were generated to provide an overview by department, peers, and journal titles. The deans found the results so useful that they have added a sixth core title to the search for 2004 articles and asked that up to three highly ranked titles be found for each department and division.

**Conclusions:** Librarians using a standard citation database, such as ISI Web of Science, can provide academic health center administrators with valuable information on faculty productivity. In addition to identifying journal articles produced by institutional authors, search strategies can be used to generate benchmarking data for comparison with peer institutions.

## Seeking the Big Game

### Finding Institutional Paths...for the Dean

- ❖ Identifying, analyzing where Duke authors publish
- ❖ Monitoring high impact factor publications
- ❖ Assessing faculty productivity annually
- ❖ Benchmarking with peers

### Side trail for the Library

- ❖ Data for journal cancellation decisions

### Studying the Big Safari Trails

#### Dean's Core Titles

Dean's Core Journals	Impact Factor	Duke articles
Cell	26.626	12
JAMA - Journal of the American Medical Association	21.455	53
Nature	30.979	49
New England Journal of Medicine	34.833	26
Proceedings of the National Academy of Sciences of America	10.272	114
Science	29.162	41

### Identifying Alternate Pathways

Journal	ISI Impact Factor	ISI JIF	ISI JIF	ISI JIF	ISI JIF	ISI JIF	ISI JIF	ISI JIF	ISI JIF
1	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
2	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
3	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
4	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
5	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
6	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
7	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
8	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
9	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272
10	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272	10.272

- ❖ 2 to 3 journals per department
- ❖ Based on ISI impacts factors
- ❖ Selected by librarians
- ❖ Eliminated – annuals, reviews, trends, advances, surveys

## Dealing with the Wild Citations

### Changing Hunting Strategies

- ❖ Variations in the institutional name
  - Duke, Durham, DUMC, DUH, DUHS
- ❖ Reviewing citations for accuracy

**What the full text says:**  
The address of the applicant for the members of the Treatment for Adolescents with Depression Study (TADS) Team. TADS is sponsored by the Department of Psychiatry and Behavioral Sciences and the Duke Clinical Research Institute at Duke University Medical Center in collaboration with the NIMH, Rockville, MD.

**What Web of Science shows:**  
The address of the applicant for the members of the Treatment for Adolescents with Depression Study (TADS) Team. TADS is sponsored by the Department of Psychiatry and Behavioral Sciences and the Duke Clinical Research Institute at Duke University Medical Center in collaboration with the NIMH, Rockville, MD.

**What Else:**  
The address of the applicant for the members of the Treatment for Adolescents with Depression Study (TADS) Team. TADS is sponsored by the Department of Psychiatry and Behavioral Sciences and the Duke Clinical Research Institute at Duke University Medical Center in collaboration with the NIMH, Rockville, MD.

**What the full text says:**  
Department of Psychology, University of Glasgow, Glasgow G12 8QB, Scotland, UK  
Department of Experimental Psychology, University of Bristol, Bristol, UK  
Department of Psychology, University of Durham, Durham, UK  
School of Psychology, University of Aberdeen, Aberdeen, Scotland, UK

**What Web of Science shows:**  
Department of Psychology, University of Glasgow, Glasgow G12 8QB, Scotland, UK  
Department of Experimental Psychology, University of Bristol, Bristol, UK  
Department of Psychology, University of Durham, Durham, UK  
School of Psychology, University of Aberdeen, Aberdeen, Scotland, UK

### Identifying the Wildlife

- ❖ Searching for peers' publications
  - 5 institutions selected by Dean
- ❖ Searching on variations
  - Institution name, affiliates, departmental variations

### Keeping Them Captive

- ❖ Building an EndNote database
- ❖ Sorting by department, title, author

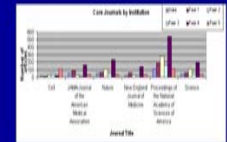


## Taming the Data Jungle

### Comparison to Other Safaris

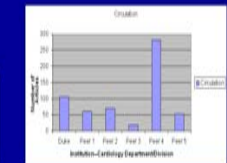
#### Core Titles -- Institutional Level

Department/Journal(s)	Duke	Peer 1	Peer 2	Peer 3	Peer 4	Peer 5	Impact Factor
Cell	12	10	10	10	10	10	26.626
JAMA - Journal of the American Medical Association	53	53	53	53	53	53	21.455
Nature	49	49	49	49	49	49	30.979
New England Journal of Medicine	26	26	26	26	26	26	34.833
Proceedings of the National Academy of Sciences of America	114	114	114	114	114	114	10.272
Science	41	41	41	41	41	41	29.162



#### Departmental Level

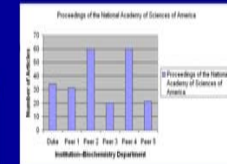
Department/Journal(s)	Duke	Peer 1	Peer 2	Peer 3	Peer 4	Peer 5	Impact Factor
Cell	106	60	70	19	282	53	11.164



### Sorting by Species

#### Tracking by Journal

Department/Journal(s)	Duke	Peer 1	Peer 2	Peer 3	Peer 4	Peer 5	Impact Factor
Cell	34	31	60	20	60	21	10.272



### Planning for the next adventure...