



## Citation Analysis: Transforming How Institutions View Their Publications

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Duke University Medical Center Library has been experimenting with ways to use database tools to provide information to administrators, chairs, and faculty members. New citation analysis tools in two major commercial databases were explored to determine how librarians and end-users can analyze citations. Searches were performed in Web of Science and Scopus using search strategies developed at Duke for identifying institutional authors. While the number of citations retrieved did not vary greatly, the strengths and details of the citation analysis did.

### Web of Science Institutional Search

AD=(duke or (durham same nc) or 27710 Or 277-8 or 27706 or 27705)  
DocType=Article OR Review; Language=English; Timespan=2003-2005

### Scopus Institutional Search

AFFIL (duke or ("durham nc" OR "durham, nc" OR 27710 OR 27708 OR 27706 OR 27705) AND DOCTYPE (ar OR re) AND PUBYEAR AFT **2002** AND PUBYEAR BEF **2006**



### Web of Science

- Perform author or institutional search, or combined search
- Choose "Analyze" for up to 2,000 citations
- Analysis by author, institution, year, language, subject category, journal/publication, country, document type
- Quick visual bar charts to identify patterns, activity levels
- At institutional search level determine:
  - ◆ Most cited and published authors
  - ◆ Publishing activity by subject area/department/discipline
    - Good breakdown of medical specialties and basic sciences
  - ◆ Journals in which faculty most frequently publish
  - ◆ Productivity/number of publications by year
  - ◆ Institutional co-authorship and research activity
- At author level determine:
  - ◆ Individual publication activity by year
  - ◆ Frequent co-authors
  - ◆ Subject areas/disciplines in which author publishes
  - ◆ Work with other institutions on publications and research

- Determine impact on field by analyzing cited reference search
  - ◆ Who most frequently cites an author or institutional work
  - ◆ Institutions citing author/institutional publications
  - ◆ Journals with articles citing the publications
  - ◆ Citation activity by year – increase, decrease, or status quo



## **Scopus**

- Perform institutional or author search, or combined search
- Immediate broad analysis of results for ALL citations by:
  - ◆ Author –top institutional authors and authors with which faculty works
  - ◆ Journal – in which journals articles appear
  - ◆ Year – number published each year
  - ◆ Publication types published -- can narrow to articles and review articles
  - ◆ Subject categories – good breakdown for sciences
    - “Medicine” is the only heading for all medical specialties
- Detailed analysis limited to 550 citations
  - ◆ If have more than 550, must limit search
  - ◆ From general search
    - Limit search results to 550 or less
    - Select individual citations or all citations
    - Add to list
    - Go to My List tab
  - ◆ Analyze from author search or from My List screen
- Detailed analysis
  - ◆ Limit by years
  - ◆ Examine only selected citations
  - ◆ Sort by year
  - ◆ Sort by number of times cited

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