BECKER Medical Library

Delivering knowledge, informing decisions

Washington University in St. Louis
School of Medicine
Kristi Holmes, PhD
Bioinformaticist
Becker Medical Library

My role:
- Training and education
- Consultation services
- Support translational research
  - Resource development
  - Establish and cultivate partnerships and collaboration
Scientists are increasingly aware that this bench-to-bedside approach to translational research is really a two-way street. Basic scientists provide clinicians with new tools for use in patients and for assessment of their impact, and clinical researchers make novel observations about the nature and progression of disease that often stimulate basic investigations.

NIH Roadmap
Translational medicine is actually a bit like the London Underground...
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Assessing the Impact of Research

Traditional citation analysis is insufficient to assess the impact of research discoveries...

Model for Assessment of Research Impact

• Included are:
  ▫ guidelines for quantifying and documenting research impact – this can be challenging!
  ▫ resources for locating evidence of research impact
  ▫ strategies that investigators can utilize in order to enhance the diffusion of research output
• Impact can be evaluated for individual papers, individual investigators or departments, and even institutes and entire institutions.
• Assessing the impact of CTSA-funded research at WUSM
ASSESSING THE IMPACT OF RESEARCH

What is the Impact of Your Research?

The Becker Medical Library Model for Assessment of Research Impact represents a practical do-it-yourself tool for tracking the impact of biomedical research. The Model includes guidance for quantifying and documenting research impact as well as resources for locating evidence of research impact.

- Research Output
  What was CREATED by a research study? How was the research output DISSEMINATED?
- Knowledge Transfer
  How was the result of research output used?
- Clinical Implementation
  How was there demonstrated?
- Community Benefit
  How was community benefit ENHANCED as a result of research output?
- Policy Enactment
  How did research output INFLUENCE or RESULT in enactment of public law, guidelines, standards or policy?

ResearcherID
A Global Community Where Researchers Connect
How can we visualize partnerships and identify areas of expertise on campus?

- Co-authorship and word co-occurrence networks for:
  - Departments
  - Specialized research centers and institutes
  - Faculty and student recruitment efforts
  - Grant renewals
- Important to have an accurate listing of scholarly output to generate the networks

Psychiatry Faculty
2005-2010 (rough groupings)
Tamara Hershey, PhD

Publications by Washington University Psychiatry faculty, 2005-present. Data collected from Web of Science. Nodes indicate faculty with 4+ publications, node size and color intensity is directly related to the number of publications by that author. Edge weight is proportional to the number of co-authored papers between any two authors.
Neuroscience Faculty, 2005-2010
Anneliese Schaeffer, JD, PhD
Cathy Sarli, MLS, AHIP

Publications by faculty affiliated with the Washington University Office of Neuroscience Research, 2005-present. Data collected from Scopus. Nodes indicate faculty with 3+ publications, node size and color intensity is directly related to the number of publications by that author. Edge weight is proportional to the number of co-authored papers between any two authors.
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