

**END OF FUNDING PERIOD REPORT**  
**LAUC Statewide Grants, Research & Professional Development Committee**

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**TITLE OF PROJECT:** *Citation Analysis: Making Informed Collection Decisions and Learning about Faculty Research and Publishing*

Time Period of Grant:

Poster Presentation at the NCNMLG & MLGSCA<sup>1</sup> Joint Meeting, a regional medical library conference held in San Francisco, February 23 to 26, 2011.

Amount of Award Received: LAUC Presentation Grant of \$500.00

Original Abstract as Submitted:

Web of Science was used in a citation analysis project to determine the journals that University of California Riverside biomedical faculty published in and cited from 2006-2010. The UCR Biomedical Program has 43 faculty researching in multidisciplinary fields such as bioengineering, biochemistry, cell biology, genomics, and entomology. The project was dealt with in two ways, producing distinct results, used for different purposes:

Method #1 analyzed citation data at the program level by looking at total activity of all faculty. This large overview provided statistics on journal use (journals published in and journals cited) that can factor into decision-making about periodical subscriptions. Articles written by multiple UCR authors were counted only once. Only work affiliated with UC Riverside was considered.

Method #2 compiled data for each faculty member's research: the journals in which he or she published and every journal referenced in each published article. In this micro-analysis, connections among specific areas of research by faculty become apparent.

The intent of method #2 was not to develop a metric to measure faculty productivity, but to use the data and information in a broader context in collection management discussions. For example, who in the biomedical program publishes in open access journals? Or, who uses what journals? This later information identifies faculty to consult with if journal cancellations are needed.

**I. ACCOMPLISHMENTS and EVALUATION**

- Describe what was achieved during the time period of the grant.

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<sup>1</sup> Northern California and Nevada Medical Library Group and Medical Library Group of Southern California & Arizona

My poster presentation sparked interest at the 2011 NCNMLG & MLGSCA regional medical meeting and I was encouraged by colleagues to present at the national Medical Libraries Association Conference.

In addition, I carried my investigation a step further. I looked up the UCR holdings of the top 33 journals where the biomedical faculty published and the top 50 journals which they cited, verifying that the UCR Libraries had online access to all. I presented these findings and other research to the UCR Medical Education Committee which verified the strength of UCR medical journal collections and resources. My data and information was timely and valuable in preparation for LCME national accreditation team surveying the UCR School of Medicine on February 28, 2011.

I prepared a slide presentation explaining my methodologies to other UCR librarians at the September 20, 2011 UCR Collection Development Meeting. I demonstrated how the techniques can be used by subject specialists to analyze their subject areas—determine core journal titles, benchmark collections, and identify research trends and collaborations among the faculty.

- What aspects were completed as proposed? If your study could not be completed as proposed, explain how your plans were altered.

The research project is complete and was presented. I scaled back my investigation on Method #2 and focused on the article publications of 13 ladder-rank health science faculty—where they published and cited.

- Did the project accomplish what it intended? Did it make a difference?

The research provided evidence that the UCR Library provides access to the top journals that the biomedical faculty use.

The project also became a model for other subject specialists.

- What would you do differently next time, if anything?

I started out using manual data entry and quickly learned how error could be introduced. I figured out how to automate the process, which was faster and more accurate, and I developed practices for metadata which made the research results reproducible.

- What advice do you have for others applying for LAUC research grants?

Actual funding for the LAUC presentation grant came through six months after I attended the event and presented. Initially I had to front all the costs.

**II. IS YOUR PROJECT COMPLETED?** Yes.

### **III. FINANCIAL STATEMENT**

The following expenses were incurred:

Airfare	\$260.40
Other Transport	\$76.44
Lodging	\$327.45
Meals	\$61.39
Conference Fee	\$225.00
TOTAL	\$940.68

### **IV. SHARING YOUR PRODUCT/RESULTS**

I summarized the study and results at a meeting with the biomedical faculty and I presented the project to subject selectors in the library. I am considering publishing my findings and about the research experience.

### **V. NOTE**

Information included in this report may be reprinted or posted on the web for dissemination to UCOP, other UC Libraries, and future potential LAUC grant applicants.