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Libraries Take on Policy: Support for Open Access and Open Data

by Anneliese Taylor (Assistant Director for Scholarly Communications & Collections) <anneliese.taylor@ucsf.edu>

The growth of open access (OA) journal publishing has exploded in the last decade. The number of full, immediate OA articles went from 2% to 11% of all articles published between 2000 and 2011. When hybrid and embargoed open access articles are included in the count, the 2011 total jumps to 28% across all disciplines. And looking at biomedical journals specifically, 36% of articles published were OA.

Alongside this impressive growth in what’s commonly referred to as gold open access publishing has been a multi-pronged effort to expand access to published articles through “green” open access. Green OA is the process of depositing a version of a published article in an open access repository, whether that be an institutional repository (IR) or a disciplinary repository, or even placing articles on an openly accessible Website. “Self-archiving” is frequently used interchangeably with green OA. It does not require authors to pay an article processing charge as many gold OA models do.

Many publishers have a history of allowing authors to self-archive a version of their article. The version is typically the accepted author’s manuscript, incorporating changes from the peer-review process, but before the publisher has co-published, formatted, and branded the manuscript for final publication. A very few publishers allow the final, published version to be uploaded via self-archiving. There may or may not be a delay period after publication before the manuscript can be made accessible.

Open access policies passed at the institutional level or by research funders are an attempt to broaden public access on a larger scale. The potential to open up access via a formalized policy is significant, but not without some effort. The next sections will highlight health sciences libraries and their roles with green OA policies in the United States.

NIH Public Access Policy

The single largest influencer on the growth of green OA articles in the health sciences to date is the National Institutes of Health (NIH) Public Access Policy, passed in 2008. This policy requires peer-reviewed scholarly articles to become actively involved.

Acknowledgment

This paper is based in part on ideas presented in a 2011 Webinar, “Challenges and Opportunities for Medical Institutional Repositories” with Dan Kipnis and Ann Koopman, and a presentation at the Special Libraries Association Annual Conference, Chicago, Illinois, July 2012.

Endnotes

Articles published by NIH-funded researchers to be submitted to PubMed Central (PMC). The articles are made publicly available no later than twelve months after the official publication date. 2 PMC is NIH’s freely accessible, full text article repository, with close to three million articles currently deposited. NIH Policy manuscripts are about 10% of this amount. The rest of the content comes from publishers that voluntarily deposit their articles, usually after a publication delay.

Many health sciences (HS) libraries got involved in 2008 or earlier with support for researchers at their academy needing to comply with the policy. Efforts range from offering workshops and individual consultations to notifying authors which of their articles are non-compliant and what steps to take to make them compliant. There are a number of excellent NIH Policy LibGuides (e.g., Duke University and University of Washington) and video tutorials (e.g., New York University and Harvard University) created by librarians to assist researchers.

An informal survey in 2013 of Association of Academic Health Sciences Libraries (AAHSL) member involvement in supporting the Policy indicated a high level of activity amongst health sciences libraries. Of the 25 responses, all but four were actively involved with a support role. It’s remarkable that HS libraries are taking on this new responsibility at a time with shrinking staff and budgets. The work can be very involved and time-consuming, so it is no small decision to take it on.

Here are a few notable initiatives:

- University of Arkansas for Medical Sciences Library runs reports on the NIH Public Access Compliance Monitor (PACM) of UAMS authors’ adherence to the Policy on a departmental, institutional, and individual PI level. The library shares the documents it uses to notify authors for other institutions’ benefit.
- The Countway Medical Library at Harvard University built an online submission system where authors can deposit their manuscripts. A librarian logs in to the NIH Manuscript Submission System (NIHMS) as a publisher, enabling deposit of multiple papers on behalf of authors. After a coordinated outreach effort, Harvard’s compliance rate jumped to the 90% range.
- With help from a grant, Health Sciences Libraries staff at New York University programmed an automated system to notify School of Medicine authors who have published articles that are not compliant with the policy. The program matches PACM data with an internal Sponsored Programs Administration database to identify active grants and contact emails. Seven months after the library started sending monthly email notices in June 2013, the SOM’s compliance rate rose from 79% to 87%.
- On behalf of authors with non-compliant articles published in “Method D” journals (where publisher makes initial deposit), the University of California, San Francisco Library sent lists to several publishers with a request to deposit the manuscripts into NIHMS. Results were mixed but fortunately the publisher with the most non-deposited articles agreed to deposit all manuscripts.

The advantages to the library are the opportunity to collaborate with different groups on campus, and filling a needed role. Offices of sponsored research have welcomed libraries’ help in supporting researchers trying to work through the complications of getting the PMCID, which indicates an article is compliant. Efforts where research offices and the library work as a team are particularly effective, as each group has its own strength. Librarians have established relationships with publishers and are accustomed to reading contract agreements and to finding the needle in the haystack. There are several steps to compliance with the NIH Policy, leaving plenty of room for error, so librarians’ perseverance with detail comes in handy.

Librarians who have discussed this topic informally among themselves often indicate that benefits include the opportunity to do outreach in new ways and with new constituents at their organization as benefits. Putting librarians in a public service role related to the policy is good exposure for the library, so long as the library comes off as a helpful resource and not simply as enforcement. The level of support is determined by the library’s priorities and available resources, by institutional culture, and by acceptance from campus groups of the library taking the lead in research policy compliance support.

You might be wondering, is it worth it for the library (or anyone else for that matter) to go to all of this effort? Consider the fact that PMC gets over 700,000 unique visitors daily, from around the world (a fact that doesn’t es-

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**People Profile:**

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**BORN AND LIVED:** I grew up in Houston, TX and attended Sarah Lawrence College in Bronxville, NY. During college I spent a summer studying French at Middlebury College in beautiful Vermont, and a year abroad in Paris and Caen, France. After college I moved to Austin, TX where I got my MLIS, and since then I have lived in Washington, DC, Philadelphia, and now San Francisco.

**PROFESSIONAL CAREER AND ACTIVITIES:** Though I’m naturally attracted to the social sciences, I’ve found my home working in STEM libraries. My first librarian position was as Engineering Liaison Librarian at George Mason University in Fairfax, VA. I then worked as a Science Librarian at Bryn Mawr College in Pennsylvania. In 2003 I took the plunge and moved across the country for a job as Collection Development Manager at the University of California, San Francisco, a health sciences university. I’ve been incredibly impressed by the brilliant, accomplished, yet down-to-earth students and faculty I’ve worked with. I’m also psyched to be working on scholarly publishing and communications initiatives.

**IN MY SPARE TIME:** These days I enjoy anything that gets me away from a computing device.

**FAVORITE BOOKS:** Recently — the Millennium Trilogy by Stieg Larsson.

**PET PEEVES:** Wasting time.

**MOST MEMORABLE CAREER ACHIEVEMENT:** Has been the opportunity to transition to a role as supervisor and manager in my job at UCSF. It’s a honor to be given the responsibility, and has helped me grow both personally and professionally.

**HOW/WHERE DO I SEE THE INDUSTRY IN FIVE YEARS:** I see libraries collaborating more and more with groups outside the library on our campuses and within our institutions, to build partnerships and expand our portfolios in new ways. I think this is essential to demonstrating the need for librarians. I also see libraries having a better understanding of publishing and taking on a publishing role itself, as well as influencing tools used for scholarly communication.

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cape journal publishers*). Studies conducted in 2010 and 2011 have found that health personnel read primary literature found in PubMed and that access contributes to health care.**

Expanding Public Access to Federally-Funded Research

The need for library support for the NIH Public Access Policy is likely to lessen over the next few years as authors get continually comfortable with the routine. Meanwhile, a similar policy will be expanding to other U.S. federal agencies. Under President Obama, the White House Office of Science & Technology Policy (OSTP) issued a directive in February 2013 to all federal agencies with more than $100M in research & development expenditures to develop a public access policy. It calls for making the direct results of federally funded research, both peer-reviewed articles and digital data, publicly available and useful.

On January 17, President Obama signed the 2014 omnibus appropriations legislation, thereby codifying a portion of the OSTP directive.† The new law calls for the man-

ning the 2014 omnibus appropriations legislation, which are managed by government agencies, non-profit and commercial organizations, and academic institutions. The UCSF Library partnered with the UCSF Clinical & Translational Science Institute and the CDL to develop an open data repository for UCSF scientists called DataShare, released in 2013. Data is preserved in CDL’s Merritt repository and each dataset is assigned a unique EZID identifier for tracking and citation. Content is gradually being added, as researchers overcome the hurdle of discomfort with releasing datasets too soon.

It remains to be seen what kind of impact the OSTP directive will have on libraries, as the office has yet to release plans for carrying out the policy. The directive specifically stated its preference for agencies to work together in developing their plans, and to leverage existing archives. It also encourages public-private partnerships where appropriate.

If the chosen model is along the lines of what the publisher-backed CHORUS has proposed, the content would reside on publishers’ servers and would require less involvement by authors and librarians who support them (though it’s hard to imagine any system not requiring some level of intervention and compliance verification). If the SHARE model is adopted, which relies on university-based digital repositories, then library involvement will be significant, as the stewards for institutional repositories. Of course, the government might opt for more than one method, depending on the agency. Then we’ll certainly have our hands full!

Organizational Open Access Policies

Yet another approach to broadening access to scholarly research is the institutional open access policy. There are currently 250 institutional or sub-institutional OA mandates in place around the world, and the list grows monthly. The policies are passed by academic faculty or researchers, and libraries take on the implementation. Librarians in all disciplines have become deeply engaged in the intricacies of these policies and in supporting authors depositing their final manuscripts in the institutional repository.

Institutional OA policies have a great potential to expand (true) open access (not just public access) to a vast quantity of peer-reviewed scholarly articles. In practice, however, the compliance rate is very low as it relies on authors voluntarily depositing their articles in an open repository — without the threat of losing funding if they don’t take the steps. Always the information organizers, several libraries have invested in database solutions to manage author publication tracking and deposit workflows. The libraries at Duke University, MIT, and the University of California have all initiated implementation of such a tool (managed by but not necessarily funded by the library). The effectiveness of these projects will be evaluated after a period of implementation and will inform the library community at large about what kind of results can be expected as a return on the library’s commitment to supporting OA policies.

Looking Ahead

There is no doubt that the library’s role within the academy is going through significant transition, especially when it comes to health sciences fields. As the nature of clinical practice, research, and scholarly communication changes with technological advances, libraries are finding their niche and trying on new roles that build on librarian strengths.