Scholarly communications: are the health and life sciences pulling the train or slowing it down?

Midwest Chapter MLA – 2014 Conference
October 12, 2014 - Bismarck, North Dakota

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a clarification

[Open Access] Scholarly Communications: ....
our question

How do attitudes toward open access differ among four major discipline groups?

Health & Life Sciences
Humanities
Physical & Technical Sciences
Social Sciences
why do we care?
about IUPUI

- Indiana University Purdue University Indianapolis
- 30,000+ students
- IU degrees
- Purdue degrees
- 3,000+ faculty
- 17 schools, including:
  - IU School of Dentistry
  - IU School of Health and Rehabilitation Sciences
  - IU School of Medicine
  - IU School of Nursing
  - Richard M. Fairbanks School of Public Health

http://www.iupui.edu/
is IUPUI a “health science” campus?

66% of faculty are members of health science schools
survey instrument & recruitment

- **Recruitment**: Fall 2013 online survey; sent to all faculty by email (twice).

- **Instrument**:
  - **Scope**: Scholarly Communications (publishing, peer review, promotion and tenure, and more)
  - IRB exempt
  - Adapted and delivered with REDCap, Indiana CTSI (https://redcap.uits.iu.edu/)
  - 126 fields; ~ 20 minutes to complete

- **Responses**:
  - 337 entered; 247 completed
  - Raw response rate: 11% (337/3079)
inclusion criteria

Included: tenure track faculty members and lecturers; excluded: clinical, research ranks, visiting, and “other” faculty. (Criteria replicates UC & UT studies.)

48% of eligible faculty are members of health science schools (n=758)
survey response rate

- Excluded: 52 respondents (by rank, by request or because they didn’t complete the demographic questions)
- 215 eligible respondents completed entire survey
- 71 eligible respondents completed a portion
- Achieved sample: 18% (14% for complete survey)
  - Toronto: 16% of population
  - California: 13% of population
discipline?

• Department?
• What is the discipline of your graduate degree?
• In which of the following areas do you currently publish?
  • Humanities
  • Social Sciences
  • Life Sciences
  • Health or Medical Sciences
  • Mathematics or Computer Science
  • Physical Sciences
  • Engineering
  • Law
  • Business
  • Information Science
  • Art
  • Music
  • Other
coded disciplinary categories

- Health Science: 176 respondents
- Humanities: 18 respondents
- Physical & Technical Sciences: 16 respondents
- Social Sciences: 76 respondents
attitudes and actions

• “Open Access” in general
• Self-archiving
• Open access publishing
• University open access policies
“Open Access” in general

“Have you heard of Open Access (OA)?”

87.2%  
85.7%  
91.6%  
90.5%  

* Excluded responses from 9 librarians
**“Open Access” in general**

**“Have you heard of Open Access (OA)?”**

**“Have you made a work OA?”**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>Practiced OA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Health Sciences</strong></td>
<td>87.2%</td>
<td>50.4%</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>85.7%</td>
<td>26.6%</td>
</tr>
<tr>
<td><strong>Physical &amp; Technical Sciences</strong></td>
<td>91.6%</td>
<td>42.0%</td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td>90.5%</td>
<td>58.3%</td>
</tr>
</tbody>
</table>

*Excluded responses from 9 librarians*
self-archiving

“Have you heard of IUPUIScholarWorks?”

* Excluded responses from 9 librarians
self-archiving Practices

<table>
<thead>
<tr>
<th></th>
<th>Health Sciences</th>
<th>Humanities</th>
<th>Physical &amp; Technical Sciences</th>
<th>Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal website</td>
<td>24.3%</td>
<td>17.7%</td>
<td>19.1%</td>
<td>9.0%</td>
</tr>
<tr>
<td>Institutional repository</td>
<td>21.3%</td>
<td>11.8%</td>
<td>11.8%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Subject repository</td>
<td>46.7%</td>
<td>32.8%</td>
<td>20.0%</td>
<td>26.7%</td>
</tr>
<tr>
<td>IUPUI ScholarWorks</td>
<td>21.6%</td>
<td>11.8%</td>
<td>11.8%</td>
<td>5.3%</td>
</tr>
</tbody>
</table>

* Excluded responses from 9 librarians
open access journals in your discipline

Knowledge & Practices

Bar chart showing the percentage of responses from different disciplines:
- Yes: 78.2% Health Sciences, 50.0% Humanities, 67.0% Physical & Technical Sciences, 71.7% Social Sciences
- APCs: 55.7% Health Sciences, 20.0% Humanities, 58.3% Physical & Technical Sciences, 27.5% Social Sciences

* Excluded responses from 9 librarians
university open access policies

Aware of Harvard-style open access policies?

* Excluded responses from 9 librarians
university open access policies

Should IUPUI adopt an open access policy?

<table>
<thead>
<tr>
<th></th>
<th>Health Sciences</th>
<th>Humanities</th>
<th>Physical &amp; Technical</th>
<th>Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly Disagree</td>
<td>2.3%</td>
<td>20.0%</td>
<td>8.3%</td>
<td>8.0%</td>
</tr>
<tr>
<td>Disagree</td>
<td>4.6%</td>
<td>6.7%</td>
<td>0.0%</td>
<td>6.0%</td>
</tr>
<tr>
<td>Unsure</td>
<td>60.3%</td>
<td>53.3%</td>
<td>58.3%</td>
<td>28.0%</td>
</tr>
<tr>
<td>Agree</td>
<td>25.2%</td>
<td>20.0%</td>
<td>33.3%</td>
<td>38.0%</td>
</tr>
<tr>
<td>Strongly Agree</td>
<td>7.6%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>20.0%</td>
</tr>
</tbody>
</table>

* Excluded responses from 9 librarians
in favor of pursuing an open access policy?

- **California (2006):**
  - 25% Aware of OA policies
  - 47% In favor of adopting

- **Toronto (2010):**
  - 30% Aware of OA policies
  - 67% In favor of adopting

- **IUPUI (2013):**
  - 28% Aware of OA policies
  - 39% In favor of adopting


* Excluded responses from 9 librarians

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is IUPUI ready to adopt an open access policy?

- Yes: 11.90%
- Strongly Agree: 11.90%
- Agree: 28.40%
- Unsure: 50%
- No: 4.60%
- Strongly Disagree: 5.10%
- Disagree: 4.60%
- Unsure: 10%

The majority is unsure.
do the health sciences foster changes in scholarly communications?

it depends

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