CE 2: Panel discussion – Institutional Repositories – the joys and challenges
Ramune Kubilius – Overview / Landscape of IRs & Moderator

Panel:
• Amanda Avery (Parkland College) – Digital Commons
• Sandra De Groote (UIC) – figshare
• Jennifer Deal (Advocate Aurora) – Digital Commons
• Mingyan Li (UIC) – Omeka
Institutional Repositories in the Health Sciences: A View of the Landscape

Ramune K. Kubilius
Lisa A. Palmer (contributor)

Presented during the Health Science Librarians of Illinois (HSLI) virtual conference on September 8, 2022
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The IR landscape in the health sciences: a whirlwind 10 minute “tour”

- Benefits, numbers, and content
- Variety (“flavors” and use cases): platforms, administration, management
- Appendices for further perusal: directories, conferences, selected references

Disclaimer: Use cases or repository platforms are named not as an endorsement, but for illustration purposes. Check IR and repository platform sites for more complete and current information.

Acknowledgements: This presentation is inspired by and builds on an in-service IR training tradition at Galter Health Sciences Library & Learning Center, coordinated by Karen E. Gutzman (2017 example), that always includes a “World of Repositories” section, as well as survey work conducted with Lisa A. Palmer and Dan G. Kipnis (included in the reference list).
What are institutional repositories?

Some common definitions:

- An institutional repository is an archive for collecting, preserving, and disseminating digital copies of the intellectual output of an institution, particularly a research institution.

- An institutional repository (IR) is an online digital archive that organizes, preserves, and provides access to the educational, scholarly, and research output of an institution.

- **SPARC**: Institutional repositories are digital collections capturing and preserving the intellectual output of a single or multi-university community to provide a compelling response to two strategic issues facing academic institutions:
  - as a natural extension of academic institutions’ responsibility as generators of primary research seeking to preserve and leverage their constituents’ intellectual assets; and
  - as one potentially major component in the evolving structure of scholarly communication.

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Institutional repositories are not limited to the academic / research institution world... and deposits may include varied outputs...
Why an institutional repository?

Benefits

▪ Showcase for the institution
▪ Collect, organize and disseminate original content (e.g. grey literature)
▪ House local scholarly productivity output not deposited elsewhere or in one place
▪ Promote open access

Possible deposits

▪ **Articles**- preprints, accepted manuscripts, published versions, postprints
▪ **Lab notebooks**
▪ **Patient education** materials
▪ **Presentations**- grand rounds, professional conferences (e.g. posters, slides, recordings)
▪ **Systematic search service support**- forms, review protocols, search strategies (and even search results)
▪ **Student projects**- capstones, theses, and dissertations
▪ **Technical documents**- white papers, descriptions of locally produced tools, and other reports
▪ **Historical** (e.g. oral histories, archival)
▪ **Marketing** materials
▪ **Media**- audio, video, photographs,

Other uses

▪ Hosting- newsletters, journals, e-books, open educational resources
▪ Data sets, also metadata only records (e.g. data catalogs)
▪ Virtual showcases, exhibits, presentations, conferences
▪ Support to help meet funder or other requirements

*And more...*
Evolving numbers

Number of repositories worldwide in OpenDOAR

2015: 2874, 85% hosted by research institutions and universities
2022: 5902, 89% (5241) hosted by institutions

Medical schools with institutional repository services (AAHSL members are surveyed every 3 years)

2010: 35.9 % (42) reported offering, 34.2% (40) planned or considering IRs  [AAHSL]
2017: 60% plan to continue offering; 8% planning [AAHSL]
2018: 70% (35/50) have or are implementing; 14% evaluating; 16% (8) not considering  [JMLA, 2019]
2020: 55% (71) have / continue offering; 8 (6.2%) plan to implement in next 12 months; 50 (38.8%): not considering; 92 not known/no response  [AAHSL]

Hospitals and other types of healthcare organizations

“While institutional repositories are common in medical schools and academic health centers, they have been used by only a small number of health systems to track and promote their research and scholarly activity.”
[Martin HJ and Schwartz A, JMLA 2020, PMC7524618; Fay B, Deal J, Budzisz V., Med Ref Serv Q. 2017 PMID: 28714819]

Reasons some academic health science libraries have not implemented an IR
(Applicable in other settings as well)

- Financial considerations
- Not a high priority
- Lack of demand from the community
- Lack of support from administration
- Lack of staff
Platforms
(NOTE: Repository names do not always reflect the platform “under the hood”)

2018
Survey responses - the most popular repository platforms (survey response of academic health sciences libraries):
DSpace and bepress Digital Commons (acquired in Aug. 2017 by Elsevier) - Plus:
- In-house
- ContentDM (sunsetted local version in 2017)
- Eprints
- Fedora
- Invenio (TIND)
- Islandora
- Samvera (formerly Hydra)
- Other

2022
Platforms: some new and / or gaining traction
- DSpace (installed in-house or hosted)
- ExLibris Esploro
- Fedora (alone, Hydra, Islandora)
- figshare
- Samvera (Hyrax or Hyku)
- Omeka
- Ubiquity

Mergers & expansions & migrations:
- As institutions merge, they need to expand or merge IRs
- Institutions may elect to migrate from one IR platform to another
  Challenges: availability (or not) of needed features (modularity)---
  E.g. One use case: from bepress to 2 platforms- IR & a platform for journal publishing-
  Dspace: alone or with advanced support / hosting IR (3 levels of “registered DSpace Service providers”)
  Janeway: for journal / scholarly publishing

“Migration is the hardest part; Transition is the work...”
https://educopia.org/migration-is-the-hard-part/
(Appplies to IRs for “library as publisher” and to IRs in a broader sense)
Flavors: disciplines, formats, choices... *(Some are available for use by registered individuals at no cost.)*

### Discipline-specific
- **Sigma Repository** (Nursing)
- **PsyArXiv** (Psychology)

### Generalist & cross-disciplinary products, services, and tools
- **OSF** (Center for Open Science): used for individual deposits (a long-term data repository, electronic lab notebook, or as the collaboration tool for their team’s research, institutions, and scholarly community projects, e.g. [FORECE11](https://www.forece11.org/)
  - Scholarly Communications Institute)
- **figshare** – individuals, institutions (for RDM and IR); publishers; funders; conferences
- **Invenio** - can include RDM, ILS, framework for large-scale digital repositories. [Showcase](https://inveniosoftware.org/)
  - **Zenodo** - repository service that will run on InvenioRDM framework.
- Data--see NIH guidelines regarding data repositories
- Model organisms, sequencing, structure...

### Choices for depositors- where to deposit, based on mandates and available IRs...
- The American Library Association (ALA) has [ALAIR](https://alair.org/) hosted by UIUC...The Medical Library Association (MLA) does not have its own repository, so MLA units’ authors may decide to deposit in various IRs the posters or reports about their collaborative work that they wish to widely share. Examples:
  - An Analysis of Publisher DEI Policies (MLA 2021 vposter- [OSF](https://osf.io/))
  - Designing an Open Repository of Educational Resources for Health Information Professionals (MLA 2021 vposter- [Duke IR](https://ir.duke.edu/))
  - Creating a Directory of Information Literacy Mapping in Health Sciences Disciplines (MLA 2021 vposter- [Duke IR](https://ir.duke.edu/))
- **Recommended repositories** (PloS Global Health)- for data - “Authors should select repositories appropriate to their field of study” but also “If no specialized community-endorsed public repository exists, IRs that use open licenses...are also suitable for deposition.”
Staffing role
Management - recruitment, intake, and promotion
[The Handy IR Manager: A Toolkit for Recruitment, Intake, and Promotion https://scholarworks.uark.edu/liblearn/2]
&
technology support or liaison & collaborative work with technical support team/s

Staff
Repository managers, library liaisons, technical staff (metadata, programming), library assistants, student workers, interns, volunteers...

“Natural division and distribution of labor, tasks & responsibilities”
Certain key staff involved in key areas, some historic, based on job description, cross-training. Detail-oriented persons for quality control (e.g. approval or review of deposits)...

[Ellen Brassil, Director, Health Sciences Library at Baystate Health, and Dina McKelvy, Director, Library and Knowledge Services at Maine Medical Center. Supporting Medical Research and Raising the Profile of the Library.]

- Full-time work [1]
  - 1 or fewer full-time staff working on the IR: more than ½ of respondents (60%)
  - 0 full-time staff (26%).
  - 5 IRs (14%) were staffed by 5 or more full-time staff.

- Hours? [1]
  How many total hours staff collectively spent on repository tasks in a typical week? The ranges reported were:
  - 6–10 hours (20%)
  - more than 20 hours (20%).

**IRs: case studies- building, expanding, migrating**

- **Providence St. Joseph** - *Building a repository*
  - Research institutes started reaching out to library to help gather info
  - Discussions with colleagues with repositories in place
  - Evaluation of possible platforms: open source (may need to purchase display platform) vs subscription
  - Institutional buy-in: stakeholders, IT
  
  *Source: Martin, Heather J.; Delawska-Elliott, Barbara (Basia); and Dickman, Daina, "Building a Health System Institutional Repository: Setting Yourself Up for Success from the Start" (2019). [https://digitalcommons.psjhealth.org/other_pubs/59](https://digitalcommons.psjhealth.org/other_pubs/59)*

- **Maine Health and Baystate Health (Massachusetts)** - *Building a repository*
  - Make a use case
  - Pros and cons of “pilot”
  - Market and do outreach (market to your staff first)

  *Source: [Supporting Medical Research and Raising the Profile of the Library](https://bepress.sponsoredwebinar) [bepress sponsored webinar]*

- **Aurora Health Care in Wisconsin and Advocate Health Care in Illinois**
  - **merger into Advocate Aurora Health** - *Expanding a repository*
    - Lay groundwork, identify stakeholders, renegotiate IR platform contract
    - Implement workflow & staff changes, naming conventions, outreach efforts, plan ahead


- **Oregon Health & Science University (OHSU)**... *Migrating decisions*
  - An approach for evaluating platforms as well as how the role as a health sciences library catering to groups that include marketing departments, historical researchers, and data scientists, shapes platform needs...
    - Use cases and requirements- questions, list, needs and wants (OHSU spreadsheet listed 77 different needs / wants)
    - Special considerations for Special Collections
    - List of candidate platforms. Focus on top priorities, saving others for second round

The current IR landscape: choices, challenges, and opportunities

Medical Institutional Repositories in Libraries (MIRL), 2021
virtual symposium presentations’ title fragments
Tool: Classic.wordclouds.com

Keynote: "The NIH Data Management and Sharing Policy: Roles and Opportunities for Libraries and Institutional Repositories.” (Lisa Federer, PhD)
Questions?

Ramune K. Kubilius
<r-kubilius@northwestern.edu>
Collection Development / Special Projects Librarian
Galter Health Sciences Library & Learning Center
Northwestern University Feinberg School of Medicine
https://orcid.org/0000-0002-7881-9396

IR: DigitalHub, migrating to new platform and new name,
Prism (tentatively scheduled for late October 2022)

Lisa A. Palmer
<Lisa.Palmer@umassmed.edu>
Institutional Repository Librarian
Lamar Soutter Library
Umass Chan Medical School
https://orcid.org/0000-0002-4116-1279

IR: eScholarship@UMassChan migrating to new platform (scheduled August 2022)
APPENDIX [1]:

Conferences

- **MIRL** (Medical Institutional Repositories in Libraries) free *(2nd symposium- November 17, 2022)*
- **NIRD** (Northeast Institutional Repository Day) free *(next date not announced)*
- **SMIRC** (Southern Miss Institutional Repository Conf) free *(next date not announced)*
- **OR (Open Repositories)** *(Denver, CO 2022, next date not announced)*

Conferences may include keynote talks, use case presentations, user group meetings, and may or may not include presentations / updates about or by platform providers & vendors.

**Communities, User Groups, Associations**

- Users’ groups that use specific platforms include:
  - **Digital Commons**: [Expert Gallery Suite & Digital Commons flyer for Health Care Networks/Hospitals – bepress](#)
    - *Note*: Hospital / Health Care User Group Meeting *group has been inactive since 2019*
  - **DSpace**: [one major meetup](#) per year held in conjunction with the Open Repositories Conference; user groups are geographic

- **Specialized focus**
  - Developers (programmers) - [Code4Lib](#)
  - IR Managers - [forum](#)

- **Confederation of Open Access Repositories (COAR)** - brings together individual repositories and repository networks
  - Reports such as: [COAR Community Framework for Good Practices in Repositories, Version 2](#)
APPENDIX [2]: IR implementations

Aspirational institutions & features: visit & examine various sites...

Does the repository:
- Provide clear instructions / documentation?
- Generate DOIs?
- Allow creation of collections or communities? How are they displayed?
- Allow embargos and visibility restrictions?
- Have interesting/useful metadata fields?

HOSPITALS
- Rochester Regional Health [Browse Collections | RocScholar (rochesterregional.org)]
- Advocate Aurora Health [LibGuide]

UNIVERSITIES (solo; internal & external collaborations, partnerships)
- Cornell [https://guides.library.cornell.edu/ecommons]
- Medical University of South Carolina [MEDICA (musc.edu); part of Lowcountry Digital Library, which is a member of the South Carolina Digital Library initiative sponsored by PASCAL.]
- Northwestern University, Galter Health Sciences Library & Learning Center [DigitalHub GalterGuide]
- Oregon Health Sciences University (OHSU) [LibGuide]
- University of Alabama [University of Alabama Institutional Repository: Community List (ua.edu)]
- University of Colorado Anschutz [Strauss Health Sciences and Auraria Libraries Shared Repository]
- University of Houston [Repository Home (tdl.org)]
- University of Massachusetts [eScholarship@UMassChan LibGuide]

GRASSROOTS PROJECTS, COMMUNITIES
- Mukurtu, including Native Health Database
APPENDIX [3]: Directories, mandates, policies

Directories

- **Directory of Open Access Repositories (DOAR)**
  Welcome to OpenDOAR - v2.sherpa
  Repository type: Institutional, Subject area: Health & Medicine...
- **Registry of Open Access Repositories (ROAR)**
  About the Registry - Registry of Open Access Repositories (eprints.org)
- **Disciplinary repositories [may not be current]**
  http://oad.simmons.edu/oadwiki/Disciplinary_repositories
- **Platforms: [may not be current]:**
  Repository Platforms (readme.io)

Data repositories

Selecting a Data Repository | Data Sharing (nih.gov)

- Also:
  - A listing of generalist repositories that accepts all data types
  - FAIRsharing.org: Generalist Repository Comparison Chart | Zenodo
  - Nature’s Data Repository Guidance
  - The Registry of Research Data Repositories

Mandates & policies

- **Scientific Data Sharing - NIH dashboard**--new Data Management & Sharing Policy, effective January 25, 2023
- **OSTP Policy Memo (a.k.a. the Nelson Memo) - Ensuring Free, Immediate, and Equitable Access to Federally Funded Research, effective January 2026**
- **Sherpa Romeo - Publisher Open Access Archiving Policies**
APPENDIX [4]: Some sources and references

Books

Articles / presentations / white papers:
- Ellen Brassil, Director, Health Sciences Library at Baystate Health, and Dina McKelvy, Director, Library and Knowledge Services at Maine Medical Center. Supporting Medical Research and Raising the Profile of the Library. [Bepress hosted webinar, 2018]
  o Also: Fay B, Budzisz V, Deal J. An institutional repository in a multi-hospital health care system, poster: Joint Meeting of the Midwest Chapter & Midcontinental Chapter of the Medical Library Association; October 24, 2016; Des Moines, IA.
Our panelists
Amanda Avery

Information Librarian/College Archivist / Records Coordinator, Parkland College Learning Commons

Parkland College Archives:
https://library.parkland.edu/archives/home

Scholarship at Parkland:
https://spark.parkland.edu/

Platform: Digital Commons
Sandy De Groote

Professor & Scholarly Communications Librarian, University of Illinois-Chicago

Faculty profile: https://researchguides.uic.edu/degroote

Indigo
https://indigo.uic.edu/

Platform: Figshare
Jennifer Deal

Librarian Senior / Institutional Repository Manager, Advocate Aurora Library

- SelectedWorks profile: https://works.bepress.com/jennifer-deal/
- ORCID: http://orcid.org/0000-0002-7700-3387

Advocate Aurora Health Institutional Repository
https://institutionalrepository.aah.org/

Platform: Digital Commons
Mingyan Li

Clinical Assistant Professor and Metadata Librarian, University of Illinois- Chicago

Faculty profile: https://researchguides.uic.edu/c.php?g=470104&p=3214154

Calasys-Chinese American Librarians Association Academic Resource & Repository System
https://ir.cala-web.org/

Platform: Omeka
Question 1: Tell us about your IR

• What platform
• Why you chose it
• Getting it started

• Panelist order: Amanda / Sandy / Mingyan / Jennifer
Question 2: Tell us about

• Ongoing commitment
• Maintenance
• Staffing
• Content
• Policies

• Panelist order: Sandy / Mingyan / Jennifer / Amanda
Question 3: Tell us about

• Challenges, successes & plans
• Advice for those considering
• Great stories?
• Last thoughts?

• Panelist order: Mingyan / Jennifer / Amanda / Sandy
Conference attendees: YOUR questions ???
Thank you to our panelists!