Beyond the manuscript: Using IRs for alternative non-traditional content types

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Northwestern University Feinberg School of Medicine
Galter Health Sciences Library
We want to optimize discoverability and dissemination of content and enhance the impact of FSM, NUCATS, and our Northwestern Medicine community.
Feinberg School of Medicine

386 PhD students
387 Postdoctoral fellows
648 Medical students
1,157 Residents/fellows
4,000 Faculty

Patients and volunteers take part in clinical trials and research studies at Feinberg each year.
Mission: Speeding transformative research discoveries to patients and the community
Building an ecosystem

Systems play a huge role in our approach

Collaborators: NUCATS, NU, Feinberg School of Medicine leadership, departments, centers, institutes, vendors, community partners, communications, Research office, FASIS,
Systems play a huge role

Accommodation of diverse and complex data types
Support needs of different applications, systems, & users
Interoperability with broader data landscape
DigitalHub, born on October 19, 2015 is built on Sufia

Fedora 4.5

Sufia 6.6.0

• Sufia extends Hydra to provide a user interface around common repository and social features.
• Sufia offers self-deposit and proxy deposit workflows.
• Hydra: a community, a set of design principles, and (Ruby) software for building applications with repository storage and a search index.
Resource types in DigitalHub

- Research papers
- Case reports, technical reports
- Supplemental images
- Datasets
- Open access books
- Conference papers
- White papers
- Presentations and lectures
- Educational materials
- Posters
- Video and audio materials
- ... and much more!

research papers
case reports
technical reports
figures
images
guidelines
datasets
summary statistics
books
newsletters
user guides
conference papers
abstracts
presentations
educational materials
workshop resources
and so much more...
What about copyright over archived content?

Copyright owners retain copyright over their materials. By putting material into DigitalHub, users are granting Galter Library a non-exclusive license to distribute it, which means that they are authorizing Galter Library to make it available but can also distribute it through other mechanisms.
Creative Commons License

Visit: http://creativecommons.org/examples#by
The MIT License (MIT)

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- The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Open Source Initiative

Northwestern Medicine
• RightsStatements.org are developed for the specific needs of cultural heritage institutions and online heritage aggregation platforms.
• There are 12 different rights statements that can be used by cultural heritage institutions to communicate the copyright and re-use status of digital objects to the public.
• They are not intended to be used by individuals to license their own creations.
• They are to be used by libraries and other cultural heritage institutions to clearly communicate the copyright/re-use status of a specific item.
Submitting works in 7 easy steps

1. Login to your account on DigitalHub
2. Select the “Upload” button
3. Agree to the deposit agreement
4. Select a file you want to deposit and upload it.
5. Apply metadata (5 required fields)
6. Set permissions and visibility
7. Save your work in DigitalHub!

User guide: https://goo.gl/642uyx
Demo video: https://goo.gl/9g89v1
5 required fields

1. Title
2. Resource type – controlled field
3. Keyword
4. Creator – controlled field
5. Rights – controlled field
Additional metadata for describing your work

- Use of university databases – campus directory (LDAP)
- Use of established standards (date - ISO 8601, language – ISO 639-2)
- Use of established controlled vocabularies (LCSH, MeSH, GeoNames)
Persistent unique identifiers - Digital Object Identifiers (DOIs) and Archival Resource Keys (ARKs)

- For all of the scholarly works deposited into DigitalHub.
- Persistent identifiers like DOIs and ARKs can help:
  - Meet funders’ sharing requirements
  - Promote scientific re-use of your work
  - Track re-use and discussion of your work
  - Ensure transparency and accountability
You get a DOI, you get a DOI, everyone gets a DOI … except the works that already have one

Pediatric Neurology Briefs

In 2016 DigitalHub became the open access home for Pediatric Neurology Briefs.
DigitalHub & datasets

The DigitalHub repository at Galter Health Sciences Library accepts deposit of datasets associated with publications to help investigators comply with journal data sharing policies.

- DigitalHub supports a variety of file and compression formats to meet your needs.
- The current file size limit is 2 GB and supported compression file extensions include:
  - zip - application/zip
  - 7z - application/x-7z-compressed
  - bz2 - application/x-bzip2
  - tar - application/x-tar and application/x-gtar
  - gz - application/gzip and application/x-gzip
DigitalHub & datasets

The DigitalHub repository at Galter Health Sciences Library accepts deposit of datasets associated with publications to help investigators comply with journal data sharing policies.

Data from studies on the epidemiology of coffee [summary statistics]

To make her data open to other researchers, Marilyn Cornelis uploaded several data files to DigitalHub.

DigitalHub & software packages

The DigitalHub repository at Galter Health Sciences Library accepts user guides for software packages such as StatTag – MIT License applied to the user guide and to the software package.

StatTag
[software description]

To more widely disseminate their statistical software package, Leah Welty, Luke Rasmussen and Abigail Baldridge decided to upload a description of their software to DigitalHub. Users who view the description are given a direct link to the software.

Open Source Initiative
DigitalHub & guidelines
Women’s Health Research Institute guideline for Statistical considerations in basic science sex inclusive research

Statistical considerations in basic science sex inclusive research [guideline]

To make their research more openly available, Denise Scholtens and Leah Welty uploaded their guidelines for sex inclusive research to DigitalHub. This openly available information is valuable to furthering inclusive research.
DigitalHub & videos
Center for Prevention Implementation Methodology
Prevention Science Methodology Group

Implementation Science Workshop

Resource type(s): Audio Visual Document
Keyword: Implementation Science
Rights: Public Domain Mark 1.0

Creator: Brown, C Hendricks
Contributor: Villamar Ibarra, Juan Andres

Related URL: https://goo.gl/IL4kQY
Grants and funding: 2P30DA027628-07
DOI: 10.18131/G3N60S
ARK: ark://d8131/g3n60s

File Details

File Properties: Mime type: video/mp4
File size: 755241.7 kB
DigitalHub & lecture series

Free introductory lectures on biostatistics in medical research by the Biostatistics Collaboration Center
2016 Scientific Images Contest Winner

Scientific research often produces stunning images. The winners of the 2016 Scientific Images Contest showcase the captivating work being done in various disciplines, from neurobiology to astrophysics. Free, public exhibitions of these images are held across Chicago each year, organized by Northwestern's research and community engagement, Science in Society.

Digital Publisher: Science in Society
Original Publisher: Science in Society
Date Created: 2016
Language: English
Number of pages: 12
Size: 191 MB

http://scienceinsociety.northwestern.edu/initiatives/scientific-images-contest
Image collections
multi-page collections created with an IIIF viewer
How do we get our message across:

• Presentations at department meetings  
  (all professional staff is expected to be fluent in the various aspects of scholarly communications)
• Consultations (one on one or group)
• Events (Open Access week)
• Email: DigitalHub@northwestern.edu
• and …
Marketing the library is a team sport
“write and reuse” whenever possible
Office of Research

Galter Library Connections in Breakthroughs newsletter

Galter Connection - Breakthroughs

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<td>Understanding Citation-Related Metrics</td>
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<td>August '16</td>
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Galter Health Sciences Library Launches Digital Repository for Scholarly Outputs

Do you have research that you’d like to easily share with others and make more discoverable? Would you like to track views and downloads of your research? DigitalHub, developed by Galter Health Sciences Library, is a place to deposit your research outputs and make them widely available. This institutional repository will provide open access to the scholarly outputs of Northwestern Medicine.

More about DigitalHub
DigitalHub is an institutional repository for the research and scholarly output of Northwestern Medicine. The goals of the repository are to preserve intellectual works created by the Northwestern Medicine community, to enhance the visibility of scholarship and to promote its authors by enabling discovery and accessibility of these works by the international scientific community.

The repository provides stable, long-term storage and ongoing maintenance. Materials are submitted directly by authors with an active Northwestern University network account (NetID).

Examples of items that the repository can accommodate at this time include:
- Research papers published or unpublished
- Conference papers and presentations, including lectures
- Educational materials
- Case reports
- Technical reports
- Supporting multimedia images
- Posters
- Open access books

Get your materials into the repository. We want to make it as easy as possible for you to submit your content. Departmental representatives can be authorized to directly deposit materials and if you have an existing database of scholarly digital resources, we may be able to assist you with a one-time bulk import.

Do I retain copyright over archived content? Yes, copyright owners retain copyright over their materials. By putting material into DigitalHub, you are granting Galter Library a non-exclusive license to distribute it, which means that you are authorizing Galter Library to make it available but you can also distribute it through other mechanisms. You will be able to consult the distribution license for more information.

It is preferred but not required that materials be made available with a Creative Commons license. Many researchers and educational institutions are adopting Creative Commons licenses to provide wider access to their work.

There are five different types of CC licenses that you can choose from: Attribution (CC BY), Attribution-ShareAlike (CC BY-SA), Attribution-NoDerivatives (CC BY-ND), Attribution-NonCommercial-NoDerivatives (CC BY-NC-ND), and Attribution-NoCommercial-ShareAlike (CC BY-NC-SA).

FAQs About NIH Public Access Compliance and PMCIDs
You must either be the author of the material or have the rights to let Galter distribute it.

The content must be scholarly, educational, or related to the university’s mission.

The content must be permanent. DigitalHub is intended to be an archive, not a storehouse for ephemeral content or multiple versions of documents.

The content must be in a digital format.

Galter Library’s Digital Initiatives Working Group will continue testing and standardizing the repository through the fall of 2015, with the official repository debut planned for Open Access Week, Oct. 19 to 23.

Open Access Week is a global event to promote open access in scholarship and research. SPARC, the Scholarly Publishing and Academic Resources Coalition, has developed some great resources in support of Open Access.

Click here to learn about Open Access Week, the benefits of Open Access to scholarship and see examples of how you can get involved!

For questions or assistance with putting your work into the repository or to discuss other options, please contact the DigitalHub DWG team at DigitalHub@northwestern.edu.
How do we know that it is working?
Track metrics across different vehicles

Analytics for emails and newsletters from various sources are available. Some specific “webometrics” tracked include: the open rate and click thru rate for each mailing, the number of clicks on each article that is in the email/newsletter, geography/domain of access, downloads.
How do we know that it is working?
Track metrics across different vehicles

NUCATS “Minutes” emails...

DigitalHub Accepts Datasets
The DigitalHub repository now supports deposit of datasets associated with publications to help investigators comply with journal data sharing policies. DigitalHub supports a variety of compression formats and rights statements to meet your needs. Learn more at digitalhub.northwestern.edu/news or contact DigitalHub support directly at DigitalHub@northwestern.edu.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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Statistics

After one year in production:

- 6013 works
  - 5935 OA
- 537 active users
- Top File Formats
  - pdf (Portable Document Format) (7864)
  - tiff (Tagged Image File Format) (1759)
  - pdf (PDF/A) (125)
  - jpeg (JPEG File Interchange Format) (108)
Thank you
Violeta Ilik

violeta.ilik@northwestern.edu
https://digitalhub.northwestern.edu/

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