Apr 9th, 12:00 AM

DataShare: Lessons from the Field

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DataShare: 

Lessons from the Field

Julia Kochi and Megan Laurance
University of California, San Francisco Library

E-Science Symposium
April 9, 2014
Today I’ll Cover...

- Overview of DataShare
- Publicity and Marketing
- Case Studies
- Lessons Learned & Next Steps
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DataShare Overview

- Brainchild of Michael Weiner, M.D.
- Since then:

**FAIR ACCESS TO SCIENCE AND TECHNOLOGY RESEARCH ACT (FASTR)**
Goal

- Simplify data deposit for UCSF researchers in order to facilitate widespread data sharing
  - User-centered
  - Easy to use interface
  - Self-service
  - Minimal metadata
  - Format and subject agnostic
Prompted to log in via campus account.

Steps to Share Your Data:

1. Prepare
   - Gather your data and information before starting.

2. Describe Data
   - Create your metadata.

3. Upload Data
   - Add your data and metadata to DataShare.

4. Get Confirmation
   - Receive your data citation.

Related resources:
- The field may be used to indicate the existence of any other resources that are associated with the data, for example publications or grants.
- Requires using a controlled vocabulary, such as MeSH.

My Datasets
- View the DataShare Data Use Agreement.
- Open data for the global research community.

Metadata Fields:
- Title:
- Description:
- Data Creator(s):
- Data:
- Keywords:
- Lab or Department:
- Keywords:
- Data Source:
- Lab or Department:
- Keywords:
- Data Source:
- Lab or Department:
- Keywords:
- Data Source:

Open data for the global research community.
Data Type

Use this field to specify the type of file(s) you will be uploading as part of this dataset. DataShare accepts all file formats. Generally speaking, they should fall into one of the following types:

- text
- spreadsheet (csv, tab-delimited, Excel)
- video
- image
- software code
- pdf

If your data files are of a specialized or proprietary nature, be sure to include any pertinent information that would allow the proper viewing and/or usage of the file(s), either as a separate 'Readme' document within the data set folder, or in the 'Technical Description'.

If the dataset consists of multiple files, we recommend, but do not require, that you put all of the files into a single compressed folder (e.g. zip, tar) before uploading it to DataShare.
Review before submitting to DataShare

Metadata

- Click here to view metadata

Record contains all required fields
Record contains all recommended fields

Go Back
and edit description

Uploaded Files

Record must include at least one file

Upload
more files

Ready to go?

- Dataset sent to DataShare repository
- Receive doi, citation
- Record available in MyDatasets
## My Datasets

<table>
<thead>
<tr>
<th>Title</th>
<th>Publisher</th>
<th>Publication Year</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Re-analysis of micorarray data from rapamycin resistant DLBCL cell lines</td>
<td>University of California, San Francisco</td>
<td>2013</td>
<td>Edit</td>
</tr>
</tbody>
</table>

[Add new dataset](#)
Select a Dataset...

Contributor
- UCSF Center for Imaging of Neurodegenerative Diseases (12)
- UCSF Bixby Center for Global Reproductive Health (1)

Author
- Weiner, Michael W. (12)
- Schuff, Norbert (7)
- Cardenas, Valerie (3)
- Zhang, Yu (3)
- Chao, Linda (2)

CSF Biomarker and PIB-PET Derived Beta-Amyloid Signature Predicts Metabolic, Grey Matter and Cognitive Changes in Non-Demented Subjects
by Ewers, Michael | Insel, Philip | Jagust, William J. | Shaw, Leslie | Trojanowski, John Q. | Aisen, Paul | Petersen, Ronald C. | Schuff, Norbert | Weiner, Michael W.
at UCSF Center for Imaging of Neurodegenerative Diseases, University of California, San Francisco
Show abstract

Frontotemporal Lobar Degeneration (FTLD)
by Weiner, Michael W.
at UCSF Center for Imaging of Neurodegenerative Diseases, University of California, San Francisco
Show abstract

Gulf War Illness
by Weiner, Michael W.
at UCSF Center for Imaging of Neurodegenerative Diseases, University of California, San Francisco
Show abstract
cerebrospinal fluid and molecular positron emission tomography (PET)-based biomarkers of Aβ. In subjects with mild cognitive impairment, increased brain Aβ levels were associated with significantly faster cognitive decline, progression of gray matter atrophy within temporal and parietal brain regions, and a trend for a faster decline in parietal Fludeoxyglucose (FDG)-PET metabolism. Changes in gray matter and FDG-PET mediated the association between Aβ and cognitive decline. In contrast, elderly cognitively healthy controls (HC) with high Aβ levels showed only a faster medial temporal lobe and precuneus volume decline compared with HC with low Aβ. In conclusion, the current results suggest not only that both functional and volumetric brain changes are associated with high Aβ years before the onset of dementia but also that HC with substantial Aβ levels show higher Aβ pathology resistance, lack other pathologies that condition neurotoxic effects of Aβ, or accumulated...
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Publicity and Marketing

- Researchers with funder/publisher requirements
- Data Managers
- Lab Managers
- Recipients of OA funding
- OA Week events
- Group presentations
- Campus-wide tech fair
- Integrated into postdoc and graduate level courses
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Case Study 1

“*We’re done with this data. We’ve picked all the fruit.*” - Data Manager, Women's Health Research Group

- NIH study concluded, findings published
- Requests from other researchers
- No obvious home for data (e.g., subject repository)
Case Study 2

- I want to share my data, but my current method is costly. - Professor, Dept. of Biochemistry and Biophysics

- Repository currently using too cumbersome
- Actual cost vs time cost
- Dataset size
- Long-term storage
Case Study 3

- I need something for a grant I’m writing.
  - Divisional Analyst, OBGYN & Associate Professor, Dept. of Medicine

- Immediate need to fulfill grant proposal
Other Use Cases

- Outside collaborators
- HIPPA compliance
- Continuously updated dataset
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Lessons Learned

- It’s hard to get noticed
- It’s even harder to break existing patterns of data sharing
- User feedback is key
- Insert at point of pain/need
Next Steps

- Continue usability testing and user interviews
- More outreach and marketing
- Develop stronger partnerships
- Develop a deeper data management toolkit
- Participate in further development of DataShare at a UC-wide level
Acknowledgments

Mini Kahlon
Angela Rizk-Jackson
Anirvan Chatterjee
NCATS – NIH Grant # UL1 TR000004

Michael Weiner

Karen Butter
Julia Kochi
Megan Laurance
Geoffrey Boushey

Patricia Cruse
Carly Strasser
Perry Willett
Stephen Abrams
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