Updates to NIH& NSF Data Sharing Plan Formats: Support from JHU Data Services

ICTR Data Managers Interest Group
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NIH and NSF have changed their Data Management & Sharing Plan formats for all new grant proposals

- NSF Data Management Plan: **new template and procedures** as of **yesterday** (Monday, April 27, 2026)
- NIH Data Management and Sharing Plan: new **simplified plan template available now**, required for **May 25, 2026**.
- **JHU Data Services**: providing data sharing requirement support since 2011
- Supporting updated methods and finding data repositories

JHU DATA SERVICES

HELPING YOU NAVIGATE DATA

WE HELP FACULTY, RESEARCHERS AND STUDENTS

FIND

USE

MANAGE

VISUALIZE

SHARE

FIND OUT MORE

GO TO dataservices.library.jhu.edu

EMAIL dataservices@jhu.edu

SHARE AT archive.data.jhu.edu

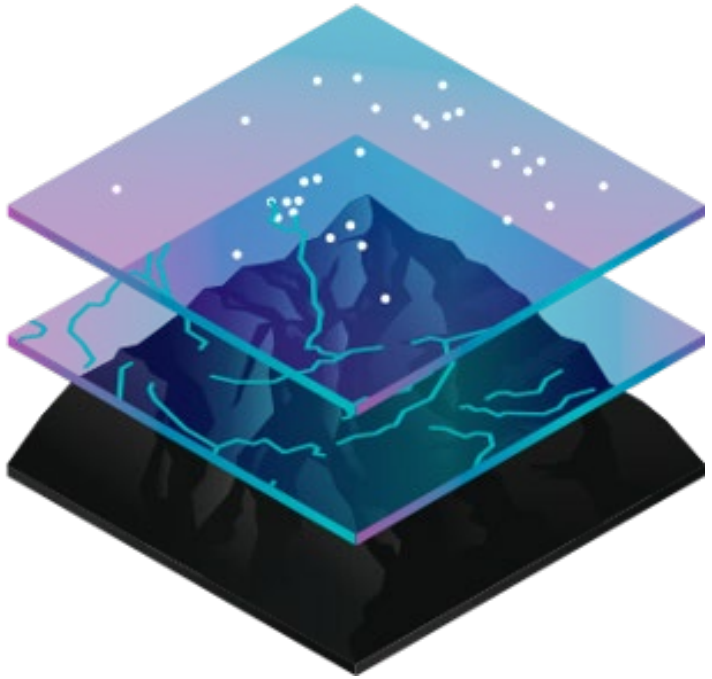
JOHNS HOPKINS LIBRARIES | Data Services

Data Access and Discovery

- Strategies for finding openly available data from many sources
- Access to data licensed by JHU

FIND

GIS and Data Visualization



- Finding and importing geospatial data
- Accessing and using GIS software
- Staffing for in-depth geospatial project support
- Data visualization training and software assistance.

Computational Research and Coding

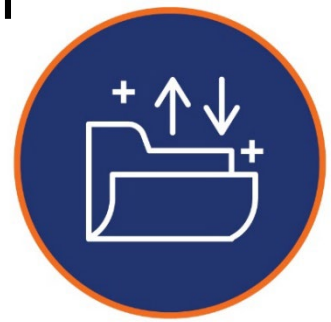
- Develop computational research skills for data cleaning, wrangling, visualizing
- Focus on open source (e.g. R and Python)
- New **AI Specalist** Librarian, Inna Kouper
  - Presenting at the next ICTR DMIG May 16th with RIT: overview of AI resources and best practices at JHU.

USE

VISUALIZE

Data Management, Archiving, and Sharing

- Supporting compliance with funder and publisher data sharing requirements
- Operating the Johns Hopkins Research Data Repository
- Consulting on sharing planning & best practices
- Specializations such as human subject data



MANAGE

SHARE

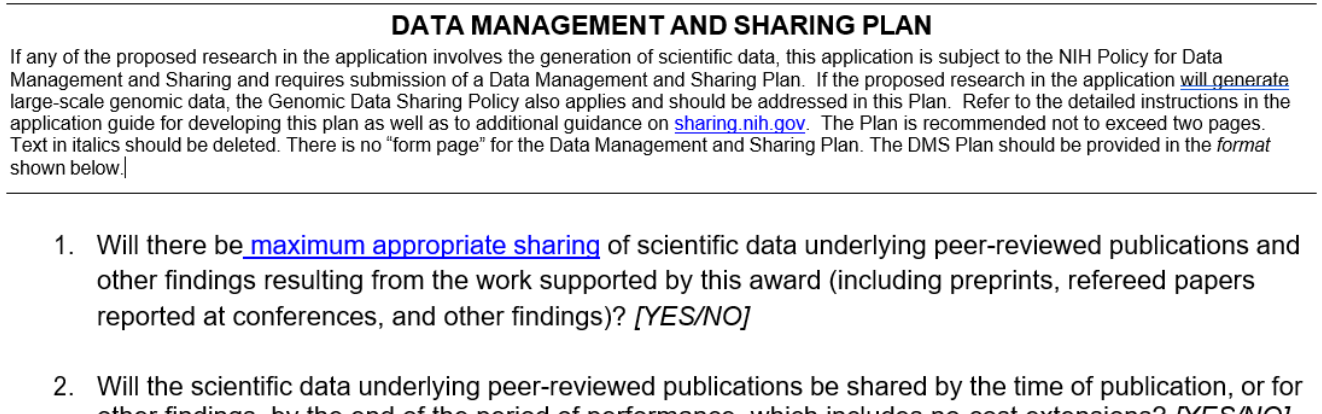
Data Management and Sharing Plans (DMSP)

- (Originally) a document describing how research data will be **gathered, stored, documented and shared**
- Many funders ask for DMSPs to go with proposals
  - NSF proposals since 2009
  - All NIH research proposals since 2023
  - Data sharing updates in annual reports and provide justification for noncompliance
  - NSF and NIH have updated sharing plan formats, **now available for new grant proposals**

NIH's DMSP format update, required May 25, 2026

While the underlying 2023 NIH Data Management and Sharing Policy remains unchanged, this new format aims at:

- **Improving consistency of plans with a more streamlined format:**
  - **Yes/No questions** requiring explanations only for "No" responses or when sharing will be limited.
  - **Removing sections on internal data management and documentation**
- **Focusing on data sharing choices:**
  - what **data repository** will be used and when
- **Tracking implementation of plans and compliance,** reducing researcher and administration burden

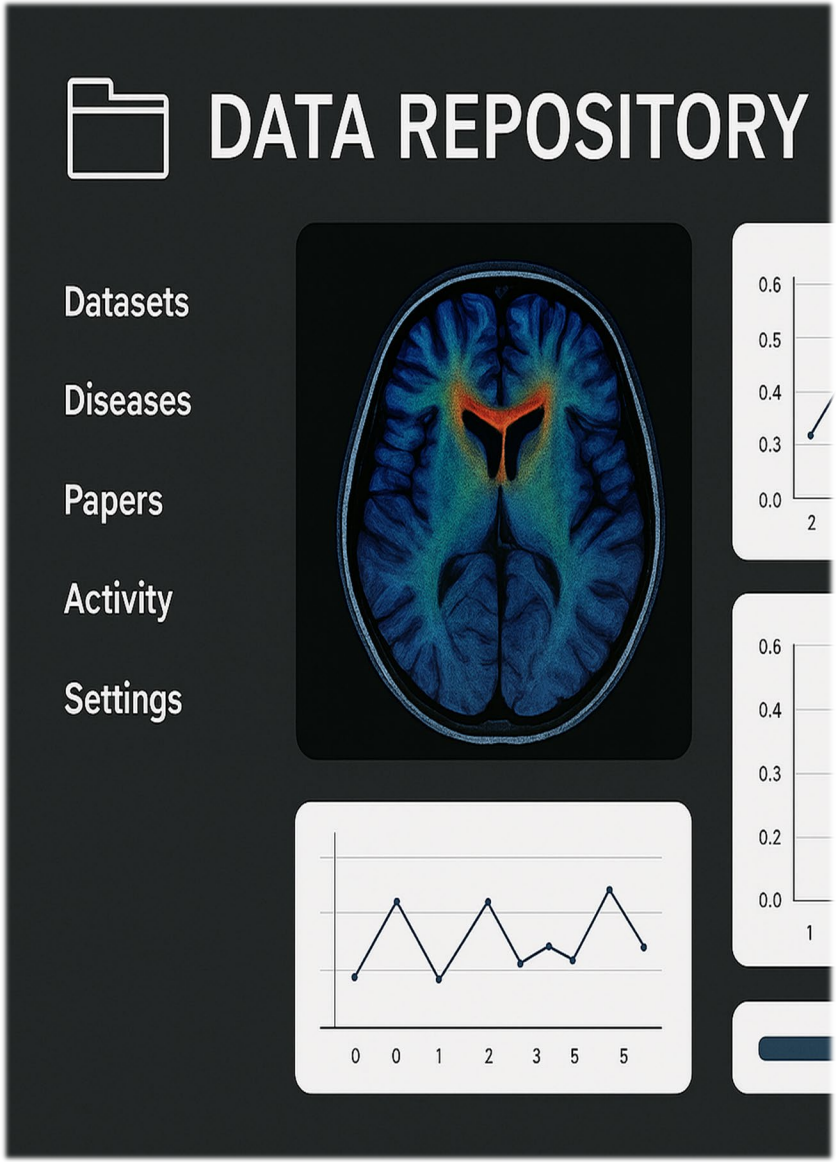


DATA MANAGEMENT AND SHARING PLAN

If any of the proposed research in the application involves the generation of scientific data, this application is subject to the NIH Policy for Data Management and Sharing and requires submission of a Data Management and Sharing Plan. If the proposed research in the application will generate large-scale genomic data, the Genomic Data Sharing Policy also applies and should be addressed in this Plan. Refer to the detailed instructions in the application guide for developing this plan as well as to additional guidance on sharing.nih.gov. The Plan is recommended not to exceed two pages. Text in italics should be deleted. There is no "form page" for the Data Management and Sharing Plan. The DMS Plan should be provided in the *format* shown below.

1. Will there be maximum appropriate sharing of scientific data underlying peer-reviewed publications and other findings resulting from the work supported by this award (including preprints, refereed papers reported at conferences, and other findings)? *[YES/NO]*

2. Will the scientific data underlying peer-reviewed publications be shared by the time of publication, or for

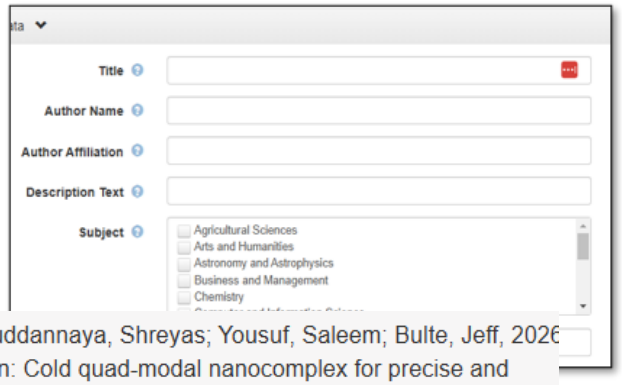


What is a data repository

A **data repository** is a central platform for **online access** of data and code for research reuse

Access

- Facilitating online search and discovery
- Citations with persistent links and identifiers



Shakeri-Zadeh, Ali; Wang, Chao; Kuddannaya, Shreyas; Yousuf, Saleem; Bulte, Jeff, 2026 "Data associated with the publication: Cold quad-modal nanocomplex for precise and quantitative in vivo stem cell tracking", https://doi.org/10.7281/T129RZVM, Johns Hopkins Research Data Repository, V1

Preservation

- By third-party administrative
- Ideally, staff assisting with deposits & access
- Manages costs (free access preferred by funders, publishers)

Types of repositories for sharing data: Open/public vs. Controlled/ restricted

Open Access repositories

- Free, publicly published data, often with no registration of users
- Non-human data, or require full de-identification and consent for sharing human participant data

Controlled Access repositories

- Restrict files, manage data access approval, Data Use Agreements
- Require removal of PII/PHI, but less thorough anonymization
- Often best choice for clinical and JHM-sourced data for IRB and JHM Data Trust approval

Source: General JHU IRB Expectations for Sharing of Individual Level Research Data

Types of repositories: discipline-specific vs. generalist

	Discipline-Specific	Generalist
Open Access	OpenNEURO	Johns Hopkins Data Services Johns Hopkins Research Data Repository
Controlled-Access	NIH National Library of Medicine National Center for Biotechnology Information dbGaP	Vivli CENTER FOR GLOBAL CLINICAL RESEARCH DATA

Although the new format can be completed more quickly, choosing an appropriate data repository can still require time planning, research, and sometimes contacting the repositories with questions

JHU Data Services can help with this step!

NIH's DMSP format at a glance…

For more details, see JHU Data Services' NIH DMSP guidance: https://browse.welch.jhmi.edu/nih-data-management

DATA MANAGEMENT AND SHARING PLAN

If any of the proposed research in the application involves the generation of scientific data, this application is subject to the NIH Policy for Data Management and Sharing and requires submission of a Data Management and Sharing Plan. If the proposed research in the application will generate large-scale genomic data, the Genomic Data Sharing Policy also applies and should be addressed in this Plan. Refer to the detailed instructions in the application guide for developing this plan as well as to additional guidance on sharing.nih.gov. The Plan is recommended not to exceed two pages. Text in italics should be deleted. There is no "form page" for the Data Management and Sharing Plan. The DMS Plan should be provided in the *format* shown below.

Questions 1-3:
Will data be shared, when, and how long?

1. Will there be maximum appropriate sharing of scientific data underlying peer-reviewed publications and other findings resulting from the work supported by this award (including preprints, refereed papers reported at conferences, and other findings)? *[YES/NO]*
2. Will the scientific data underlying peer-reviewed publications be shared by the time of publication, or for other findings, by the end of the period of performance, which includes no-cost extensions? *[YES/NO]*
3. Will shared scientific data be made available for at least as long as required by applicable data repository policies and/or journal policies? *[YES/NO]*

Any limitations to amount, timeline, and duration of sharing are "justified" in question 4

4. If you answered "no" to elements 1, 2, or 3, or if you anticipate that sharing will be limited in some other way, please describe these limitations and the ethical, legal, or technical factors for them (see FAQ B.5). Your response should specify a particular reason(s) for limiting sharing. *[200 words maximum]*

NIH's DMSP format at a glance…

5. Privacy for Human Participant Data

6a. List your data types to be generated

6b. Choose your data repository

7. Abiding by Genomic Data Sharing Policy when applicable

5. If scientific data derived from human research participants will be shared, will privacy, rights, and confidentiality of participants be protected as outlined in NOT-OD-22-213? *[YES/NO]*

6. *In the table below, please list [100 words maximum]*:
   a. *Key types of scientific data anticipated to be generated during the project, including the species and modality, if known (e.g., "human genomic data," "rat functional magnetic resonance imaging data"). NIH recognizes that not all data types expected to be generated in the study will meet the definition of scientific data or can be anticipated in advance. If a data type does not appear on the list, it does not imply that that data type will not be shared if it is generated in the study.*

   b. *The repository or an example of a repository where the scientific data may be managed and shared, if the scientific data is known at time of application. NIH expects the use of established repositories for preserving and sharing scientific data when they are available.*

Expected Data Type	Established Repository or Example

7. For studies subject to the NIH Genomic Data Sharing Policy (GDS) (e.g., using NIH funds to generate large-scale human genomic data):
   a. Will you share all large-scale human genomic and associated data in a NIH-designated repository according to the accelerated timelines expected in the GDS Policy? *[YES/NO/Not Applicable]. If "no," address in element 4.*
   b. Do you anticipate that when sharing you will be able to meet the expectations of the Institutional Certification in the GDS Policy (https://grants.nih.gov/grants/guide/notice-files/NOT-OD-14-124.html; IV.C.5)? *[YES/NO/Not Applicable] If "no," address in element 4.*

An updated template for the NIH DMSP is currently available in the DMPTool

https://dmptool.org/

- A free, online tool that provides funder-specific templates for Data Management Plans (DMPs)
- Leads researchers through the DMP writing process

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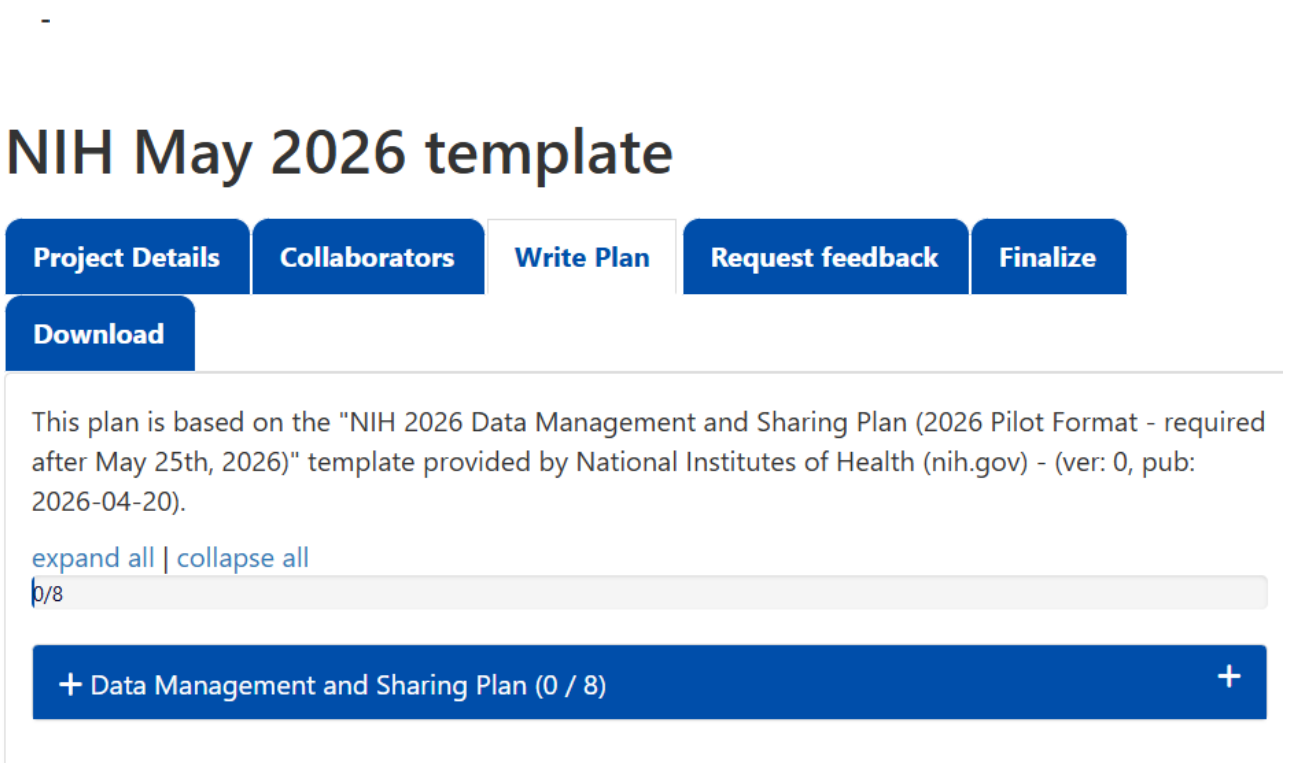
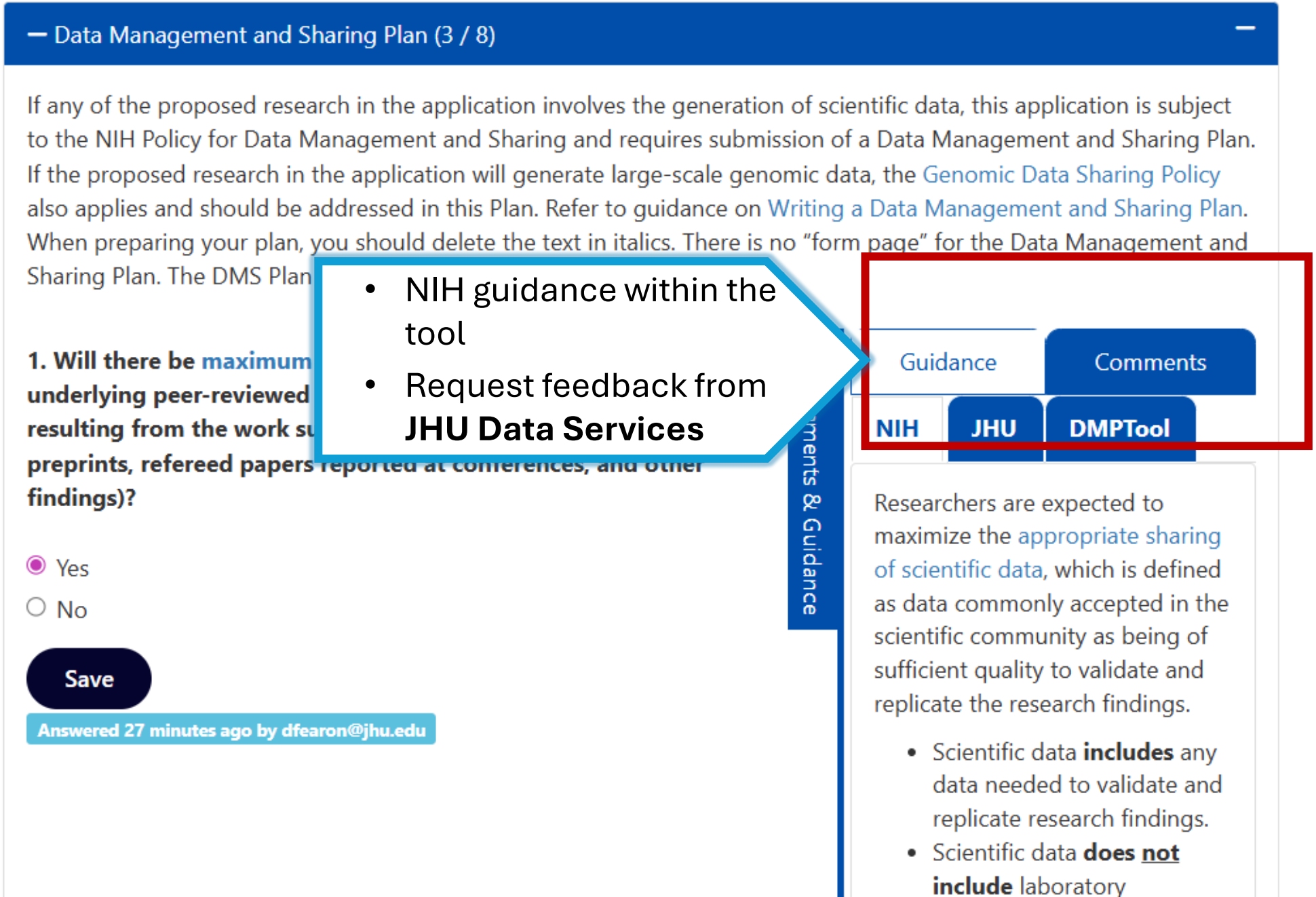


DMPTool NIH template



DMSP template details: Q1 Will data be shared?

1. Will there be maximum appropriate sharing of scientific data underlying peer-reviewed publications and other findings resulting from the work supported by this award (including preprints, refereed papers reported at conferences, and other findings)?

Yes

"Yes" – the preferred answer. Share data and as **openly** (publicly) as possible, but if **controlled access restrictions** are needed, provide justification in Q4.

No

A "No" response should **not be used** as it indicates there will **not be maximum appropriate sharing** of scientific data.

Possible Restrictions:

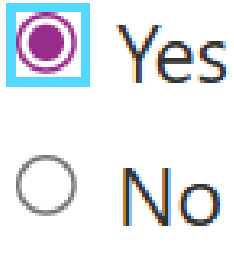
- **Privacy**.
- **Confidentiality**
- **Intellectual Property**
- **Security**

Even with these potential restrictions, there are likely some subsets of your data that you can share after removing identifying information and/or aggregating your data.

Q2 When will data be shared?

2. Will the scientific data underlying peer-reviewed publications be shared by the time of publication, or for other findings, by the end of the period of performance, which includes no-cost extensions?

Possible Restrictions:
- SBIR: Small Business Innovation Research
- STTR: Small Business Technology Transfer
- Other sponsor requiremets



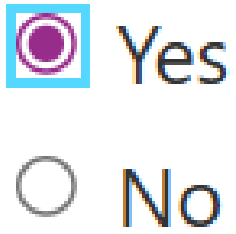
Answer "Yes" unless specific exceptions apply

"No" response examples: Small Business Tech Transfer, patent considerations), provide justification in Q4.

Typically, datasets are prepared to accompany each publication, often required by publishers

Q3 How long will data be shared?

3. Will shared scientific data be made available for at least as long as required by applicable data repository policies and/or journal policies?



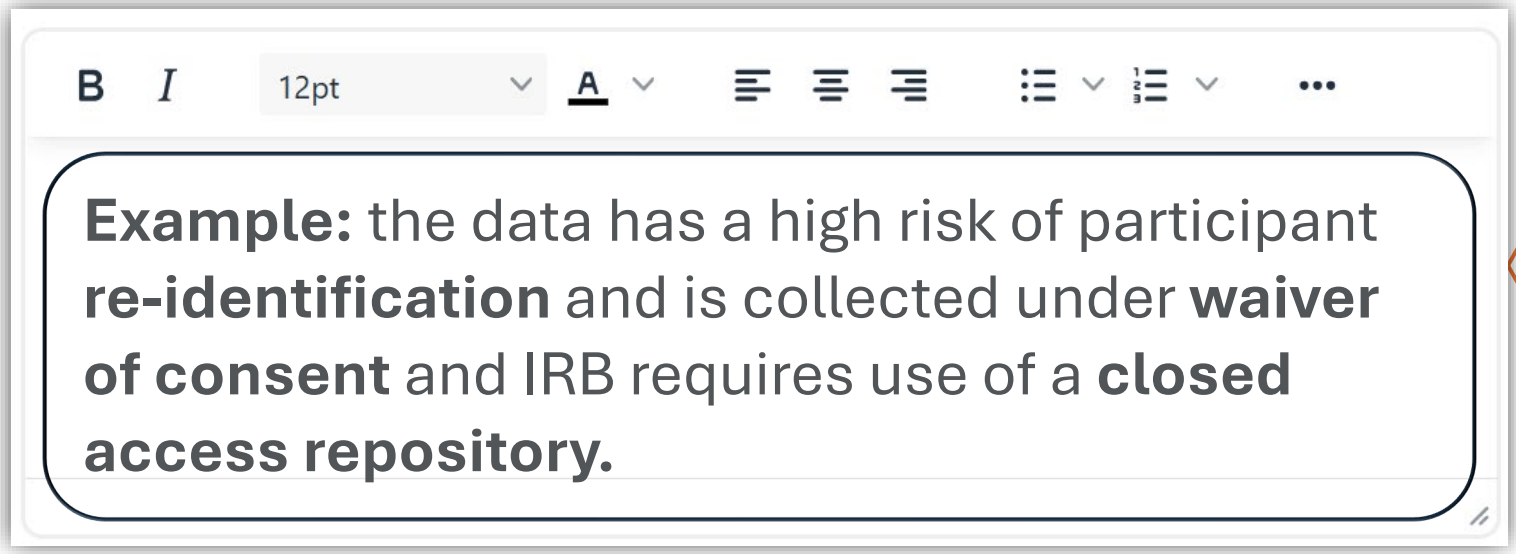
Yes- Recipient institutions are required to keep the data for 3 years following closeout of a grant or contract agreement.

"No" is rarely relevant. Leave blank if data are not to be shared (No N/A option currently.)

- JHU Data Retention policy: 5 years for data supporting publications
- HIPAA, FDA have their own data retention policies
- Most data repositories provide access for 10 years or indefinitely.

Q4 Justify 1-3 (typically Q1, no sharing)

4. If you answered "no" to elements 1, 2, or 3, or if you anticipate that sharing will be limited in some other way, please describe these limitations and the ethical, legal, or technical factors for them. Your response should specify a particular reason(s) for limiting sharing. *[300 words maximum]*



not considered justifiable reasons:

- The dataset is small
- The data are not expected to be widely used
- A suitable repository is not readily identified

Justifications should clearly describe the **specific risks and constraints** that prevent data sharing. Refer to FAQ B.5 (What are the justifiable reasons for limiting sharing of data).

Q5 Will human subject data be protected?

5. If scientific data derived from human research participants will be shared, will privacy, rights, and confidentiality of participants be protected as outlined in NOT-OD-22-213?

- (●) Yes
- ( ) No
- ( ) Not Applicable

Yes- NIH expects human participant data to be appropriately protected but to share de-identified data as appropriate. It checks if you read "Protecting Privacy When Sharing Human Research Participant Data".

"No" is probably never relevant even if only PHI will be shared through direct collaboration and DUAs

"N/A" if you **do not have human subject data**.

Protecting privacy and rights means you can:

1. De-identify data, fully anonymize if publicly shared
2. Get consent for sharing: Inform participants about identification risks and plans to share data
3. Use controlled-access mechanisms when appropriate
4. Require users agree to terms and conditions for reuse of data (e.g., no attempts to reidentify a participant)

Q6 What data is shared and where?

***In the table below, please list [100 words maximum]*:**

a. ***Key types of scientific data anticipated to be generated during the project****, including the species and modality, if known (e.g., "human genomic data," "rat functional magnetic resonance imaging data"). NIH recognizes that not all data types expected to be generated in the study will meet the definition of scientific data or can be anticipated in advance. If a data type does not appear on the list, it does not imply that that data type will not be shared if it is generated in the study.*

b. ***The repository or an example of a repository where the scientific data may be managed and shared,*** *if the scientific data is known at time of application. NIH expects the use of established repositories for preserving and sharing scientific data when they are available.*

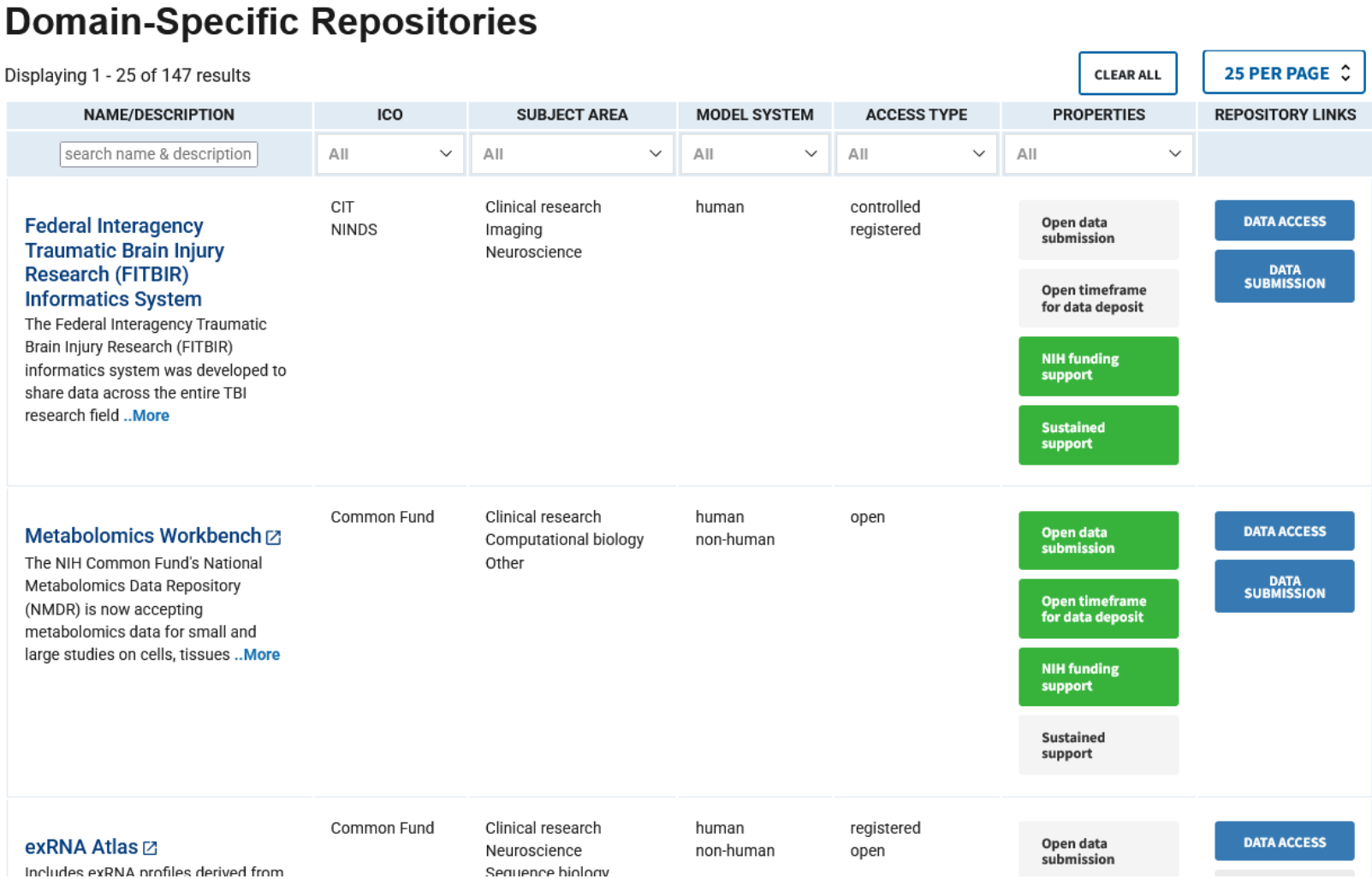
Expected Data Type	Established Repository or Example
NSCLC pulmonary cancer retrospective chart review 10yrs	PHI source not shared
Aim 1 nutrition trial clinical & demographic results	Vivli data repository
Anonymized food journals	Johns Hopkins Research Data Repository (JHRDR)
Patient food journal app software	Github, JHRDR

This is the **most important new element**. Investigators must list:

- Data types, including **species** and modality (e.g.,**human** scRNA sequencing data, **mouse** flow cytometry data, etc.)
- Appropriate data repositories for NIH and the discipline if available, or generalist repository, controlled or open
- Best guess if one is not available. It can be updated at Just-in-time or RPPR reporting
- **Have JHU Data Services help find an appropriate repository**

Selecting a repository for NIH studies

- NIH maintains a list of domain-specific data sharing repositories To help researchers locate an appropriate repository for sharing data.
- Includes open and controlled access options.
- ***Reach out to a repository before including it in your DMSP.***
- ***JHU Data Services can help with selection***



Domain-Specific Repositories

Displaying 1 - 25 of 147 results

CLEAR ALL | 25 PER PAGE

NAME/DESCRIPTION	ICO	SUBJECT AREA	MODEL SYSTEM	ACCESS TYPE	PROPERTIES	REPOSITORY LINKS
search name & description	All	All	All	All	All	
Federal Interagency Traumatic Brain Injury Research (FITBIR) Informatics System The Federal Interagency Traumatic Brain Injury Research (FITBIR) informatics system was developed to share data across the entire TBI research field ..More	CIT NINDS	Clinical research Imaging Neuroscience	human	controlled registered	Open data submission Open timeframe for data deposit NIH funding support Sustained support	DATA ACCESS DATA SUBMISSION
Metabolomics Workbench The NIH Common Fund's National Metabolomics Data Repository (NMDR) is now accepting metabolomics data for small and large studies on cells, tissues ..More	Common Fund	Clinical research Computational biology Other	human non-human	open	Open data submission Open timeframe for data deposit NIH funding support Sustained support	DATA ACCESS DATA SUBMISSION
exRNA Atlas Includes exRNA profiles derived from	Common Fund	Clinical research Neuroscience Sequence biology	human non-human	registered open	Open data submission	DATA ACCESS

https://www.nlm.nih.gov/NIHbmic/domain_specific_repositories.html

Find a Data Repository

Registries of research data repositories

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

https://www.re3data.org/

FAIRsharing.org
standards, databases, policies

FAIRsharing | Databases

Just ask us at
JHU Data Services!

dataservices@jhu.edu

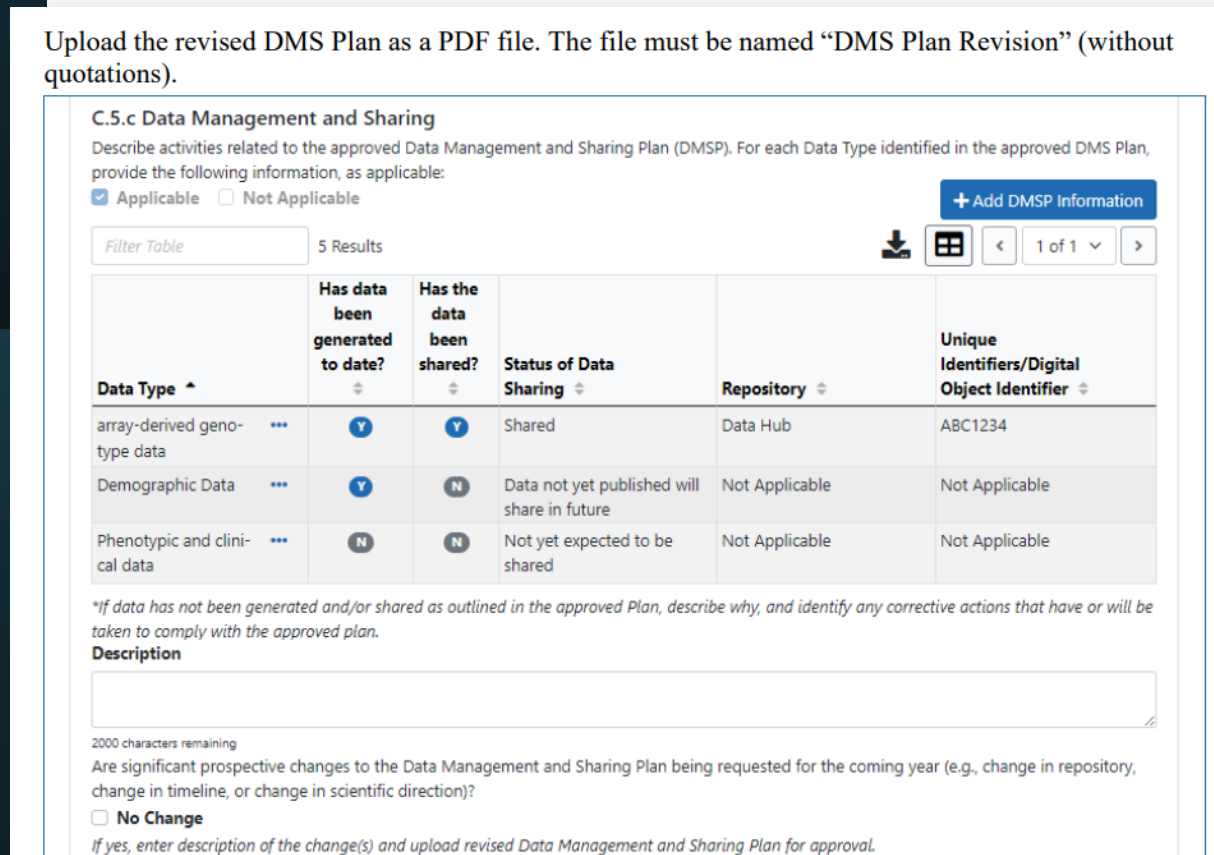
dataservices.library.jhu.edu/

New DMSP format: Designed for Compliance Tracking

The new format is designed to support **tracking of DMSP implementation** in the n **Research Performance Progress Report (RPPR).**

In RPPR, investigators will need to report:

- Whether each data type has been shared
- Reasons for delays or changes
- Updates to repositories or timelines



Upload the revised DMS Plan as a PDF file. The file must be named "DMS Plan Revision" (without quotations).

C.5.c Data Management and Sharing

Describe activities related to the approved Data Management and Sharing Plan (DMSP). For each Data Type identified in the approved DMS Plan, provide the following information, as applicable:

Applicable Not Applicable

+ Add DMSP Information

Filter Table 5 Results 1 of 1

Data Type	Has data been generated to date?	Has the data been shared?	Status of Data Sharing	Repository	Unique Identifiers/Digital Object Identifier
array-derived geno-type data	Y	Y	Shared	Data Hub	ABC1234
Demographic Data	Y	N	Data not yet published will share in future	Not Applicable	Not Applicable
Phenotypic and clini-cal data	N	N	Not yet expected to be shared	Not Applicable	Not Applicable

**If data has not been generated and/or shared as outlined in the approved Plan, describe why, and identify any corrective actions that have or will be taken to comply with the approved plan.*

Description

2000 characters remaining

Are significant prospective changes to the Data Management and Sharing Plan being requested for the coming year (e.g., change in repository, change in timeline, or change in scientific direction)?

No Change

If yes, enter description of the change(s) and upload revised Data Management and Sharing Plan for approval.

If significant changes occur, an updated DMSP must be submitted for NIH approval.
See NOT-OD-24-176 (Updated Processes for Requesting Revisions to an Approved Data Management and Sharing (DMS) Plan) for more details.

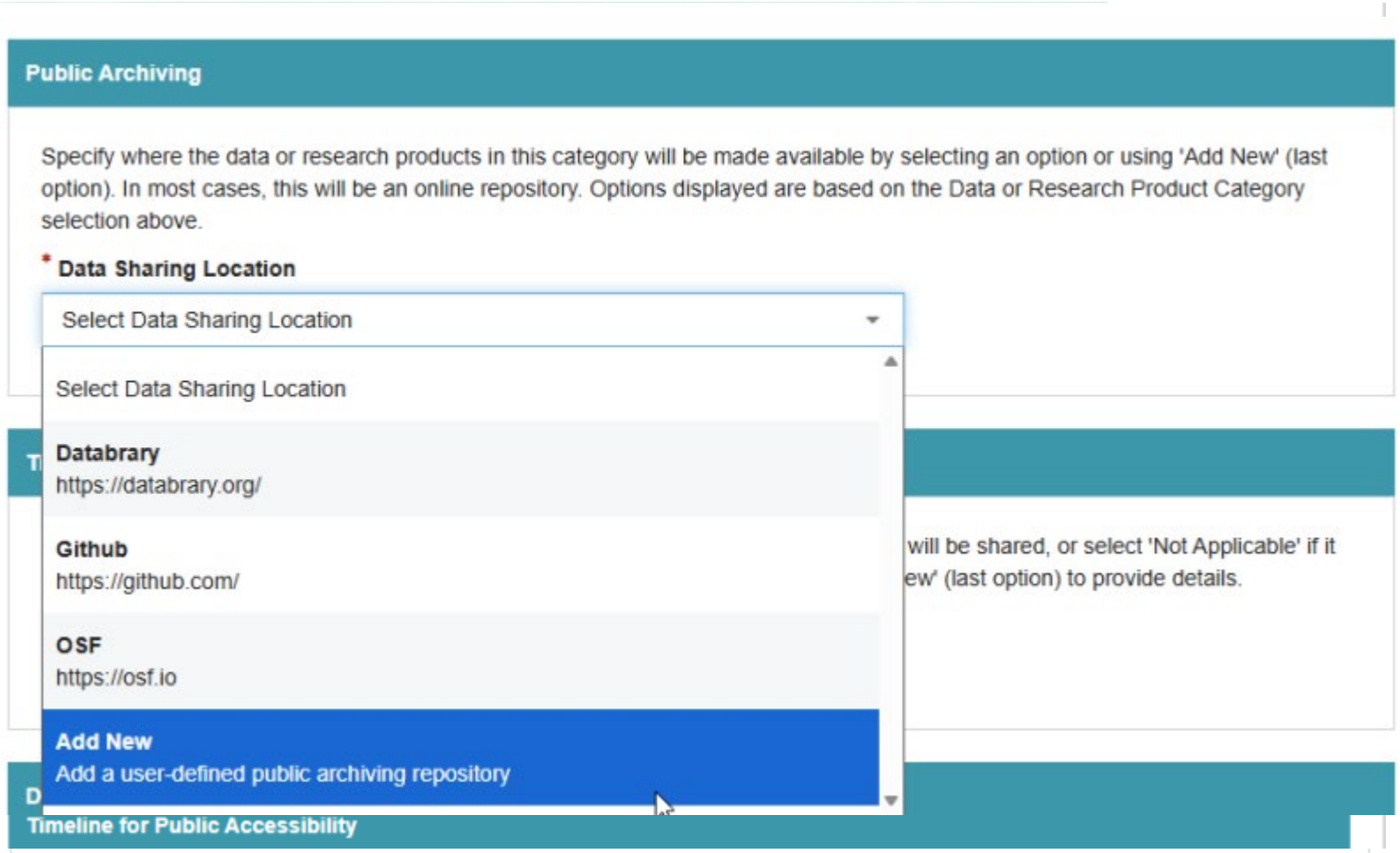
For more details, see JHU Data Services' NIH DMSP guidance:

https://browse.welch.jhmi.edu/nih-data-management

New NSF Data Sharing Plan Format, April 27, 2026

The **NSF Data Management Plan (DMP) policy changes** now in effect since Monday **April 27, 2026**.

The elements of the NSF DMP are **not changing**. Directorates may have their own specific questions and components to the form.



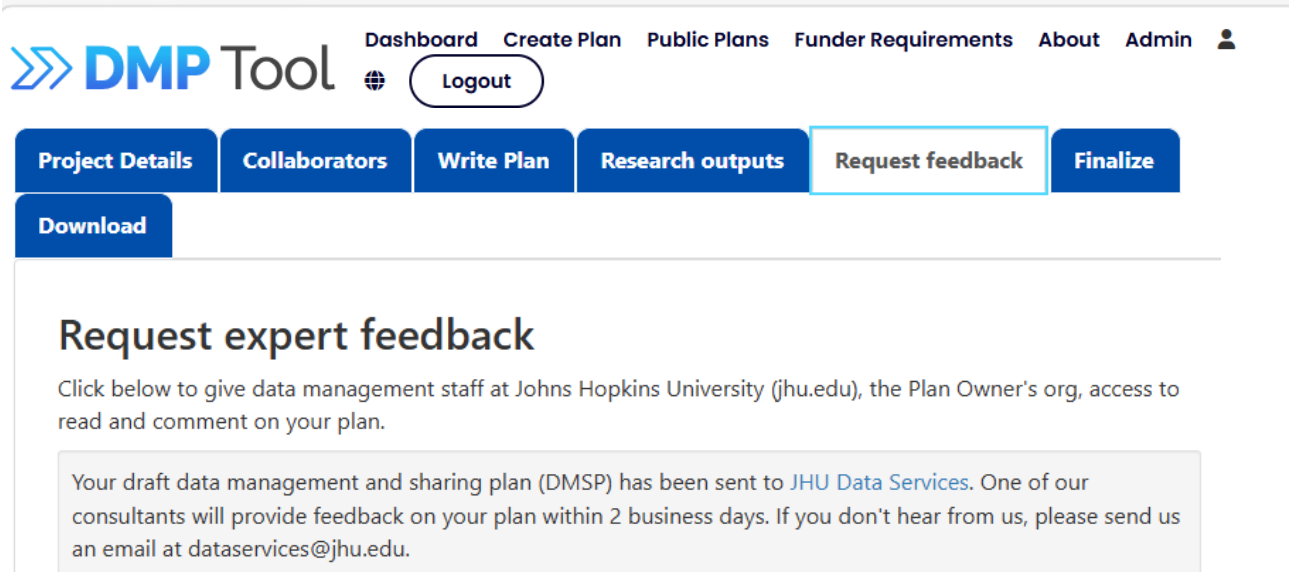
Details: NSF's policy change announcement and data management and sharing plan page.

New NSF Data Sharing Plan Format, April 27, 2026

The **NSF Data Management Plan (DMP) policy changes** now in effect since Monday **April 27, 2026**.

DMPTool is working on updates to support the changes. You can continue to **request feedback** on your plan from Johns Hopkins Data Services by:

- Using the existing NSF Template for your directorate in DMPTool to draft the plan and request feedback from Data Services, then pasting your final responses into the Research.gov form.
- Filling out the Research.gov form, then exporting your data management and sharing plan as a PDF file and requesting feedback by emailing it to dataservices@jhu.edu.
- Or just email us with specific questions and repository choice help!



JHU Data Services: for managing, sharing, finding, visualizing data, and geospatial research support

Contact JHU Data Services

JHU Data Services Webinars on JHU's Panopto

Online guidelines and training modules: (see our website)

GO TO
dataservices.library.jhu.edu

EMAIL
dataservices@jhu.edu

SHARE DATA AT
archive.data.jhu.edu

ICTR Data Managers Interest Group

Next webinar Wed. May 14, 12 – 1pm

AI Research Resources at JHU: From Data Capture to Insight: Applying AI Resources Across JHU Research

- **Kelly Lyman and James Weatherall, JHU Research IT**
- **Inna Kouper, JHU Data Services**

Register at https://ictr.johnshopkins.edu/events/

FIND OUT **More**

https://youtube/r4VqNMw6Q8s

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