

Open Science 102

Breaking Down Open Science Policy Template Language

26 September 2024



Open Research Community Accelerator (ORCA)
in collaboration with
Health Research Alliance (HRA)



Outline

- Quick review of federal policies on article and data sharing
 - OSTP 2022 memo requirements
 - NIH existing and emerging requirements
- Walk-through of template documents
 - Long-form template
 - Short-form template
- Discussion and Q&A

U.S. federal initiatives in open science

OSTP Issues Guidance to Make Federally Funded Research Freely Available Without Delay

FACT SHEET: Biden-Harris Administration Announces New Actions to Advance Open and Equitable Research



Open Science & Public Access

The U.S. Government defines open science as the principle and practice of making research products and processes available to all, while respecting diverse cultures, maintaining security and privacy, and fostering collaborations, reproducibility, and equity. Within open science is a concept known as "public access," which refers to the free availability of Federally funded scholarly materials, including data and publications, to the American public and the world. Federal agencies have long coordinated on activities and policies related to open science and public access to support members of the federally supported research community in maximizing appropriate access to the products of their work and ensuring that all Americans can benefit from discovery and innovation.

Open Science Announcements



View federal agency open science initiatives, engagements, and policies in response to the White House Office of Science and Technology Policy (OSTP) declaration of 2023 as a Year of Open Science

[READ MORE](#)

Public Access Plans & Guidance



See agency plans to increase public access to federally funded research results

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WORLD VIEW | 11 January 2023 | Correction [13 January 2023](#)

Why NASA and federal agencies are declaring this the Year of Open Science



Here's how NASA is incentivizing open science, and how you can too.

THE NIH DIRECTOR

The NIH Director

January 25, 2023

[Photo Gallery](#)

[Congressional Testimonies](#)

[Advisory Groups](#)

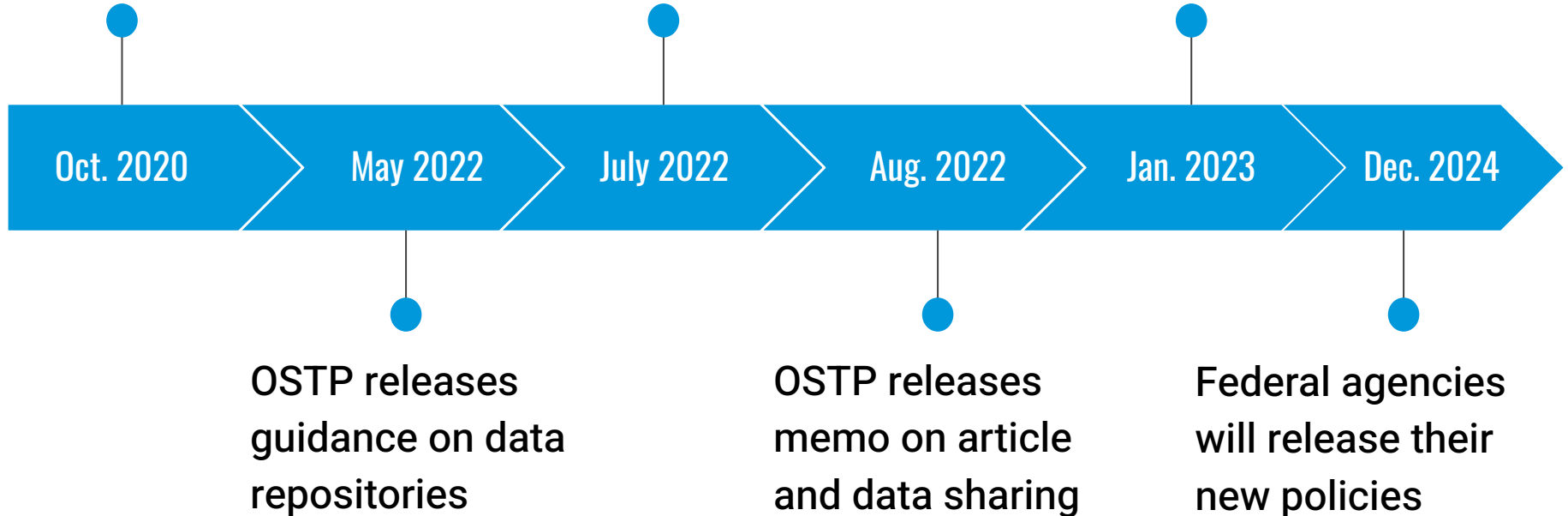
NIH implements Data Management and Sharing Policy

Timeline

NIH releases new data sharing policy

CHIPS Act passes, with DMPs + data repo support

NIH data sharing policy goes into effect



OSTP memo on access to research



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

August 25, 2022

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM:

Dr. Alondra Nelson

A handwritten signature in blue ink that reads "Alondra Nelson".

Deputy Assistant to the President and Deputy Director for Science and Society
Performing the Duties of Director
Office of Science and Technology Policy (OSTP)

OSTP memo on access to publications

- **Immediate access** to publications, removes 12 month embargo
- Gold OA alone does not suffice (**agency-designated repositories**)
- **Definition of publications expanded** to cover peer-reviewed book chapters, editorials, conference proceedings, not just articles
- Applies to **all federal agencies** (400+), across disciplines
- Reuse rights, machine-readability, FAIR, PIDs, metadata included
- Timeline: plans public by end of 2024, go into effect by end of 2025

OSTP memo on access to data

- 2013 memo mentioned data sharing, but not a strict mandate; 2022 memo **now requires data sharing**
- Data underlying peer-reviewed publications should be made **freely available and publicly accessible at the time of publication**
- Develop approaches and timelines for sharing federally funded scientific **data not associated with peer-reviewed publications**
- Allow researchers to include **reasonable costs** associated with publications and submission, curation, and management of data

NIH proposed plan on article sharing



FEDERAL REGISTER

The Daily Journal of the United States Government



N Notice


Request for Information on the National Institutes of Health Draft Public Access Policy

A Notice by the National Institutes of Health on 06/18/2024



← PUBLISHED DOCUMENT: 2024-13373 (89 FR 51537)

 PDF

 Document
Details

DOCUMENT HEADINGS

Department of Health and Human Services
National Institutes of Health

NIH proposed plan on article sharing

“Per the NIH Public Access Policy, effective [October 1, 2025](#), NIH is requiring Manuscripts to be submitted to [PubMed Central](#) upon acceptance for publication, for public availability [without embargo](#) upon the Official Date of Publication.”

Language on licensing and allowable costs still in draft form, but looks like the final policy will:

- Reserve rights by NIH through a license that mirrors that of the Government Use License
- Allow for reasonable article processing charges

NIH existing policy on data sharing



“Sharing scientific data accelerates biomedical research discovery, in part, by enabling **validation** of research results, providing **accessibility** to high-value datasets, and promoting data **reuse** for future research studies”

“NIH requires researchers to prospectively plan for how scientific data will be **preserved and shared** through submission of a Data Management and Sharing Plan (Plan)”

NIH data sharing policy requirements

- Researchers planning to generate scientific data are **required to submit a Data Management and Sharing plan**...as part of the budget justification section of the application
- NIH expects that in drafting Plans, researchers will **maximize the appropriate sharing of scientific data**
- Shared scientific data should be made accessible as soon as possible, and **no later than the time of an associated publication**, or the end of performance period, whichever comes first

Goals of the new policy templates

- Help HRA members create new open science policies, or update existing policies, to align with US federal agency (NIH) requirements
- Provide background information on each of the requirements and recommendations for article and data sharing (long-form doc)
- Provide examples of sample language from other funders who have implemented similar policies (long-form doc)
- Provide a shorter template with concise language for those HRA members who just want a 'plug-and-play' policy (short-form doc)
- Work with members to adopt and adapt templates as needed

Long policy template <https://bit.ly/3zkEaSM>



Short policy template <https://bit.ly/4gzswE5>



Discussion and Q&A

- Thoughts on these templates?
- What is missing that would be helpful?
- What feels potentially daunting or confusing?
- How can we help you advance your policies?



Thank You!

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