

Taller Plan de Gestión de datos de investigación

Universidad de Málaga
3 de febrero de 2022

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www.menti.com y el código 63 64 19 2

El plan de gestión de datos de investigación (PGD)

- Ayuda a planificar el proceso de investigación y la gestión de datos a lo largo del ciclo de investigación.
- Define las responsabilidades sobre los datos (especialmente en proyectos en los que participan diferentes instituciones).
- Identifica los posibles retos en la asignación de recursos (humanos y financieros).

Criterios mínimos en un PGD

- Descripción de los datos y recopilación o reutilización de los datos existentes.
- Documentación y calidad de los datos.
- Almacenamiento y copia de seguridad durante el proceso de investigación.
- Requisitos legales y éticos, códigos de conducta.
- Disponibilización de datos y preservación a largo plazo.
- Responsabilidades y recursos para la gestión de datos.

Propiedad/Titularidad de los datos

Almacenaje

La Red Española de Supercomputación almacenará los datos de investigaciones científicas que utilizan y comparten gran cantidad de información



Convocatorias - 19 ABR 2021

La primera convocatoria de servicios de datos de la RES adjudica 7,5 Petabytes de almacenaje a 18 proyectos de investigación. La iniciativa permitirá abordar problemas de múltiples disciplinas científicas que utilizan Inteligencia Artificial y/o cantidades masivas de datos.

La Red Española de Supercomputación (RES) proporcionará por primera vez capacidad de almacenaje a investigadores que necesitan utilizar grandes cantidades de datos y que estén dispuestos a compartirlos con otros miembros de la comunidad científica.

En su primera convocatoria de servicios de datos, la RES ha concedido 7,5 Petabytes (un Petabyte equivale a mil Terabytes) de almacenaje a 18 proyectos de disciplinas tan diversas como genómica y biología molecular, química, astrofísica, análisis y prospecciones del clima e inteligencia artificial.

Plantillas para PGD

ERC OPEN RESEARCH DATA MANAGEMENT PLAN (DMP)



ERC OPEN RESEARCH DATA MANAGEMENT PLAN (DMP)

European Research Council
Established by the European Commission

Project Acronym	Project Number

Template for the ERC Open Research Data Management Plan (DMP)¹. The following sections should describe how you plan to make the project data Findable, Accessible, Interoperable and Reusable (FAIR). Each of the following five issues should be addressed with a level of detail appropriate to the project.

SUMMARY (dataset² reference and name; origin and expected size of the data generated/collected; data types and formats)

¹ Based on *Guidelines on FAIR Data Management in H2020*, version 3.0, 26.07.2016, Annex 1

² Several datasets may be included into a single DMP.

Annex A – DCC Default DMP Template

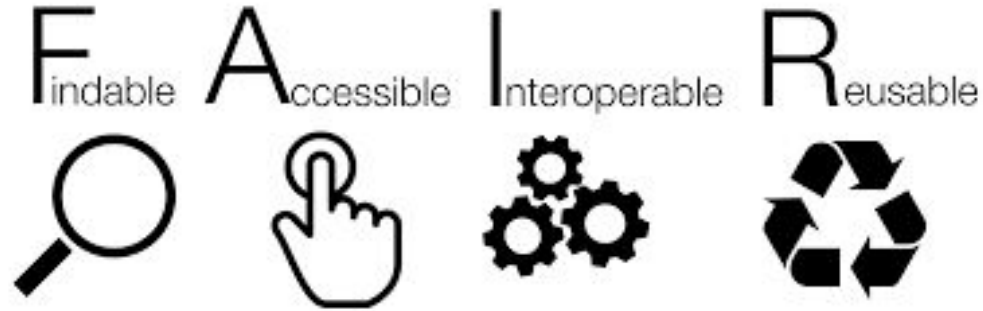
This Digital Curation Centre (DCC) Template was sent to the scientific communities that were contacted for proof of concept, in order to give them an idea of the approach taken by the WG, which is very close to the DCC approach.

Questions	Issues to consider	Guidance
Section A: Data Collection		
1. What data will you collect or create?	What type, format and volume of data? Do your chosen formats and software enable sharing and long-term access to the data? Are there any existing data that you can re-use?	Give a brief description of the data, including any existing data or third-party sources that will be used, in each case noting its content, type and coverage. Outline and justify your choice of format and consider the implications of data format and data volumes in terms of storage, backup and access.
2. How will the data be collected or created?	What standards or methodologies will you use? How will you structure and name your folders and files? How will you handle versioning? What quality assurance processes will you adopt?	Outline how the data will be collected/ created and which community data standards (if any) will be used. Consider how the data will be organised during the project, mentioning for example naming conventions, version control and folder structures. Explain how the consistency and quality of data collection will be controlled and documented. This may include processes such as calibration, repeat samples or measurements, standardised data capture or recording, data entry validation, peer review of data or representation with controlled vocabularies.
Section B: Documentation and Meta-data		
3. What documentation and meta-data will accompany the data?	What information is needed for the data to be to be read and interpreted in the future? How will you capture/create this documentation and meta-data? What meta-data standards will you use and why?	Describe the types of documentation that will accompany the data to help secondary users to understand and re-use it. This should at least include basic details that will help people to find the data, including who created or contributed to the data, its title, date of creation and under what conditions it can be accessed. Documentation may also include details on the methodology used, analytical and procedural information, definitions of variables, vocabularies, units of measurement, any assumptions made, and the format and file type of the data. Consider how you will capture this information and where it will be recorded. Wherever possible you should identify

Fuente: https://www.scienceurope.org/media/nsxdvqgn/se_guidance_document_rdmeps.pdf

<https://erc.europa.eu/content/erc-data-management-plan-template>

[Excurso] Los principios FAIR



"... mediante la definición y el apoyo generalizado de un conjunto mínimo de principios y prácticas orientativos acordados por la comunidad, los proveedores y consumidores de datos -tanto humanos como automáticos- podrían descubrir, acceder, interoperar y reutilizar de forma más sencilla, con la debida citación, las enormes cantidades de información generadas por la ciencia contemporánea de uso intensivo de datos. Estos sencillos principios y prácticas deberían permitir una amplia gama de comportamientos integradores y exploratorios, y apoyar una amplia gama de opciones tecnológicas e implementaciones..."

Fuente: <https://www.go-fair.org/fair-principles/>



ERC OPEN RESEARCH DATA MANAGEMENT PLAN (DMP)

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SUMMARY (*dataset² reference and name; origin and expected size of the data generated/collected; data types and formats*)

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ERC OPEN RESEARCH DATA MANAGEMENT PLAN (DMP)

1. MAKING DATA FINDABLE *(dataset description: metadata, persistent and unique identifiers e.g., DOI)*

2. MAKING DATA OPENLY ACCESSIBLE *(which data will be made openly available and if some datasets remain closed, the reasons for not giving access; where the data and associated metadata, documentation and code are deposited (repository?); how the data can be accessed (are relevant software tools/methods provided?))*

3. MAKING DATA INTEROPERABLE *(which standard or field-specific data and metadata vocabularies and methods will be used)*

4. INCREASE DATA RE-USE (*what data will remain re-usable and for how long, is embargo foreseen; how the data is licensed; data quality assurance procedures*)

ERC OPEN RESEARCH DATA MANAGEMENT PLAN (DMP)

5. ALLOCATION OF RESOURCES and DATA SECURITY (*estimated costs for making the project data open access and potential value of long-term data preservation; procedures for data backup and recovery; transfer of sensitive data and secure storage in repositories for long term preservation and curation*)

DISCLAIMER. Please note that the ERC Data Management Plan is not a part of the Ethics Review. It is the responsibility of the Principal Investigator to inform the ERCEA Ethics Team of any ethics issues/concerns regarding the collection, processing, sharing and storage of data in relation to the project. The Principal investigator can also be asked to submit an Ethics Data Management Plan (Ethics DMP).

Herramientas



DMPOnline

Plan to make data work for you

Data Management Plans that meet institutional funder requirements.



DMPonline helps you to create, review, and share data management plans that meet institutional and funder requirements. It is provided by the Digital Curation Centre (DCC).

Sign in

Create account

* Email

* Password

[Forgot password?](#)

Remember email

Sign in

- or -

Sign in with your institutional credentials

DMPOnline

[Home](#)[Public DMPs](#)[Funder requirements](#)[Help](#)[Language](#)[Sign in](#)

Public DMPs

Public DMPs are plans created using the DMPonline service and shared publicly by their owners. They are not vetted for quality, completeness, or adherence to funder guidelines.

Project Title	Template	Organisation	Owner	Download
Model - DMP TPM Interviews	TU Delft Data Management Plan template (2021)	Delft University of Technology	Nicolas Dintzner	
NARRatives On restored Water	SNSF DMP template	Université de Lausanne	Olivier Hymas	
Dynamic System thinking applied Corporate strategy development in complex business environments	DCC Template	University of Manchester	Funmilola Asa	
The effects of study-abroad experience on Chinese in-service college EFL teachers' identity: A dialogical approach	University of Manchester Generic Template	University of Manchester	QING QIU	
TEST - Studie on metamorphose - TEST	Uppsala University - data management plan	Uppsala University	Jacob Hakansson	
Master thesis	TU Delft Data Management Plan template (2021)	Delft	Britt Zandbergen	
ECePS ERA Chair in e-Governance and Digital Public Services	Horizon 2020 DMP	University of Tartu	Elis Vollmer	
Malaria, diabetes and metabolic syndrome: investigating the double burden of disease	Swedish Research Council Template	Karolinska Institutet	Katja Wyss	
Concentrated aqueous electrolytes for super-capacitors- a joint experimental, modelling and theoretical approach.	EPSRC Data Management Plan	University of Manchester	Andrew Masters	

Example: https://dmponline.dcc.ac.uk/plans/92254/export.pdf?export%5Bquestion_headings%5D=true

Edit profile

Personal Details

Password

Notification Preferences

Please note that your email address is used as your username. If you change this, remember to use your new email address.

You can edit any of the details below.

* **Email**

* **First name**

* **Last name**

* **Organisation**

Language

ORCID

 [Create or connect your ORCID iD](#)

Institutional credentials

 [Link your institutional credentials](#)

Save

ORCID

Authorize access

You are currently signed in as:


Paloma Marín-Arraiza

<https://orcid.org/0000-0001-7460-7794>

[Sign out](#)

[DMPonline](#) ?

has asked for the following access to your ORCID record:

 Get your ORCID iD

Authorize access

Deny access

If authorized, this organization will have access to your ORCID record, as outlined above and described in further detail in [ORCID's privacy policy](#).

You can manage access permissions for this and other Trusted Organizations in your [account settings](#).

Create a new plan

Before you get started, we need some information about your research project to set you up with the best DMP template for your needs.

* What research project are you planning?

mock project for testing, practice, or educational purposes

* Select the primary research organisation

Organisation

- or - No research organisation associated with this plan or my research organisation is not listed

* Select the primary funding organisation

Funder

- or - No funder associated with this plan or my funder is not listed

Paloma's Plan

Project Details

Contributors

Plan overview

Write Plan

Share

Request feedback





Download

* Project title

Paloma's Plan

mock project for testing, practice, or educational purposes

Project abstract

B *I*    

Project Start

dd/mm/yyyy



Project End

dd/mm/yyyy



ID

93151

Funder

Begin typing to see a list of suggestions.

Funding status

- Please select one -



Grant number/url

Save

Select Guidance

To help you write your plan, DMPonline can show you guidance from a variety of organisations.

Select up to 6 organisations to see their guidance.

Digital Curation Centre

Find guidance from additional organisations below

[See the full list](#)

Save

Paloma's Plan

Project Details

Contributors

Plan overview

Write Plan

Share

Request feedback

Download

[expand all](#) | [collapse all](#)

0/13

Data Collection (0 / 2)



Documentation and Metadata (0 / 1)



Ethics and Legal Compliance (0 / 2)



Storage and Backup (0 / 2)



Selection and Preservation (0 / 2)



Data Sharing (0 / 2)



Responsibilities and Resources (0 / 2)



Bienvenido a PGDOnline

PGDOnline ha sido desarrollado por el **Consortio Madroño** como una herramienta para elaborar planes de gestión de datos.

Comenzando:

- [Consortio Madroño](#)
- [INVESTIGAM - Portal de Ciencia Abierta del Consortio Madroño](#)
- [INVESTIGAM: PAGODA](#)
- [INVESTIGAM — PAGODA: CREAR SU PGD](#)
- [DCC Checklist for a Data Management Plan](#)

[Iniciar sesión](#)[Registrarse](#)

* **Correo electrónico**

* **Clave**

[¿Olvidó su clave?](#)

Recordar correo

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<https://pgd.consorciomadrono.es/>

Welcome

This tool helps you to create, review, and share data management plans that meet institutional and funder requirements. Join the growing number of researchers that have adopted **eiNa DMP**:



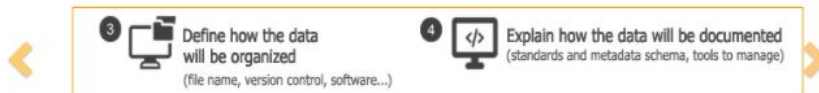
509 Users



306 Plans



15 Organisations



You can download funder templates without logging in, but from this tool you will find tailored guidance from these organizations. Why not sign up for an account and try it out?



Sign in

Create account

* Email

* Password

Forgot password?

Remember email

Sign in

Welcome to the DMPTool

Create data management plans that meet institutional and funder requirements.

[Get started](#)

DMPTool by the Numbers



68,874



67,126



320

Top Templates

Digital Curation Centre

Digital Curation Centre (português)

NSF-SBE: Social, Behavioral, Economic Sciences

NSF-BIO: Biological Sciences

Create a new plan

Before you get started, we need some information about your research project to set you up with the best DMP template for your needs.

* What research project are you planning?

mock project for testing, practice, or educational purposes

* Select the primary research organization

Organization

- or -

No research organization associated with this plan or my research organization is not listed

* Select the primary funding organization

Funder

- or -

No funder associated with this plan or my funder is not listed

Create plan

Cancel

Paloma's Plan

[Project Details](#)[Collaborators](#)[Write Plan](#)[Research outputs](#)[Download](#)[Finalize / Publish](#)

This plan is based on the "Digital Curation Centre" template provided by Digital Curation Centre (DCC) - (ver: 2, pub: 2021-10-25).

[expand all](#) | [collapse all](#)

0/13

[+ Data Collection \(0 / 2\)](#)

+

[+ Documentation and Metadata \(0 / 1\)](#)

+

[+ Ethics and Legal Compliance \(0 / 2\)](#)

+

[+ Storage and Backup \(0 / 2\)](#)

+

[+ Selection and Preservation \(0 / 2\)](#)

+

[+ Data Sharing \(0 / 2\)](#)

+

[+ Responsibilities and Resources \(0 / 2\)](#)

+

Paloma's Plan

[Project Details](#)[Collaborators](#)[Write Plan](#)[Research outputs](#)[Download](#)[Finalize / Publish](#)

Set plan visibility

Public or organizational visibility is intended for finished plans. You must answer at least 50% of the questions to enable these options. Not

- Private: visible to me, specified collaborators and administrators at my organization
- Organization: anyone at my organization can view
- Public: anyone can view

[Save](#)

Register your plan and add to ORCID

Get a [DMP ID](#) for your data management plan.

In order to register your plan you must have completed the following:

- ✗ answered at least 50% of questions
- ✗ identified your funder
- ✗ authorized DMPTool to add works to your ORCID record via your [third party applications page](#)
- ✓ plan is not a mock project for testing, practice, or educational purposes

Once the steps above are satisfied, a button to register your plan will appear here.

[Authorize access](#)

You are currently signed in as:

Paloma Marín-Arraiza

<https://orcid.org/0000-0001-7460-7794>

[Sign out](#)

[California Digital Library DMP Tool](#) ?

has asked for the following access to your ORCID record:

Add/update your research activities (works, affiliations, etc)

Get your ORCID ID

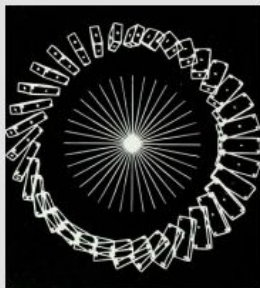
[Authorize access](#)[Deny access](#)

If authorized, this organization will have access to your ORCID record, as outlined above and described in further detail in [ORCID's privacy policy](#).

You can manage access permissions for this and other Trusted Organizations in your [account settings](#).

DMPTool Blog

Guidance & resources for your
data management plan



[About the DMPTool](#)

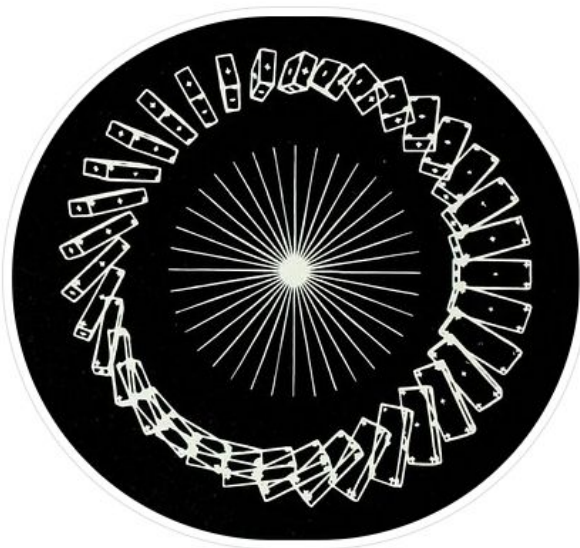
[Go to the Tool](#)

Posted on **July 21, 2021** by [mariapraetzelis](#)

[← Previous](#)

[Next →](#)

Connecting the DMP ID to an ORCID record

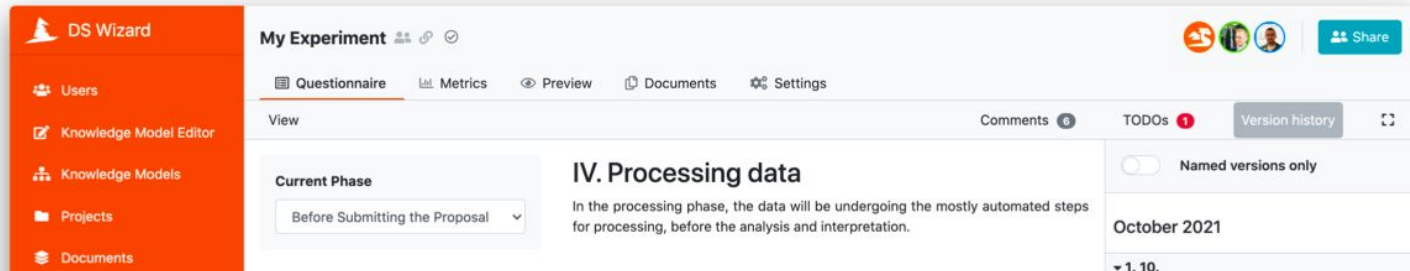


— Image from [Bell telephone magazine](#)

<https://blog.dmptool.org/2021/07/21/connecting-the-dmp-id-to-an-orcid-record/>

Data Stewardship Wizard

Create, plan, collaborate, and bring your data management plans to life with a tool trusted by hundreds of people worldwide — from data management pioneers, to international research institutes.

DS Wizard

- Users
- Knowledge Model Editor
- Knowledge Models
- Projects
- Documents

My Experiment [Share]

Questionnaire | Metrics | Preview | Documents | Settings

View | Comments | TODOs | Version history

Current Phase
Before Submitting the Proposal ▾

IV. Processing data

In the processing phase, the data will be undergoing the mostly automated steps for processing, before the analysis and interpretation.

Named versions only

October 2021

▼ 1. 10.

Create Knowledge Model

Name

Knowledge Model ID

Knowledge Model ID can contain alphanumeric characters and dashes but cannot start or end with a dash.

Based on

You can create a new Knowledge Model based on the existing one or start from scratch.

Cancel

Create

Test Malaga

Expand all Collapse all

Test Malaga

Project Information

- Name applicant.
- Project number.
- Project title.
- Project acronym.
- Affiliation.

Versioning Information

Datasets Information

Datasets Sharing and Reuse

Documentation and Metadata

Costs for Datasets Sharing and Reuse

(Meta)Data Storage During the Project

(Meta)Data Long Term Preservation

Responsibilities

Ethical and Legal Issues

Other

FWO

ERC

H2020

Knowledge Model

6ab7ef48

Chapters

[Project Information](#)

[Versioning Information](#)

[Datasets Information](#)

[Datasets Sharing and Reuse](#)

[Documentation and Metadata](#)

[Costs for Datasets Sharing and Reuse](#)

[\(Meta\)Data Storage During the Project](#)

[\(Meta\)Data Long Term Preservation](#)

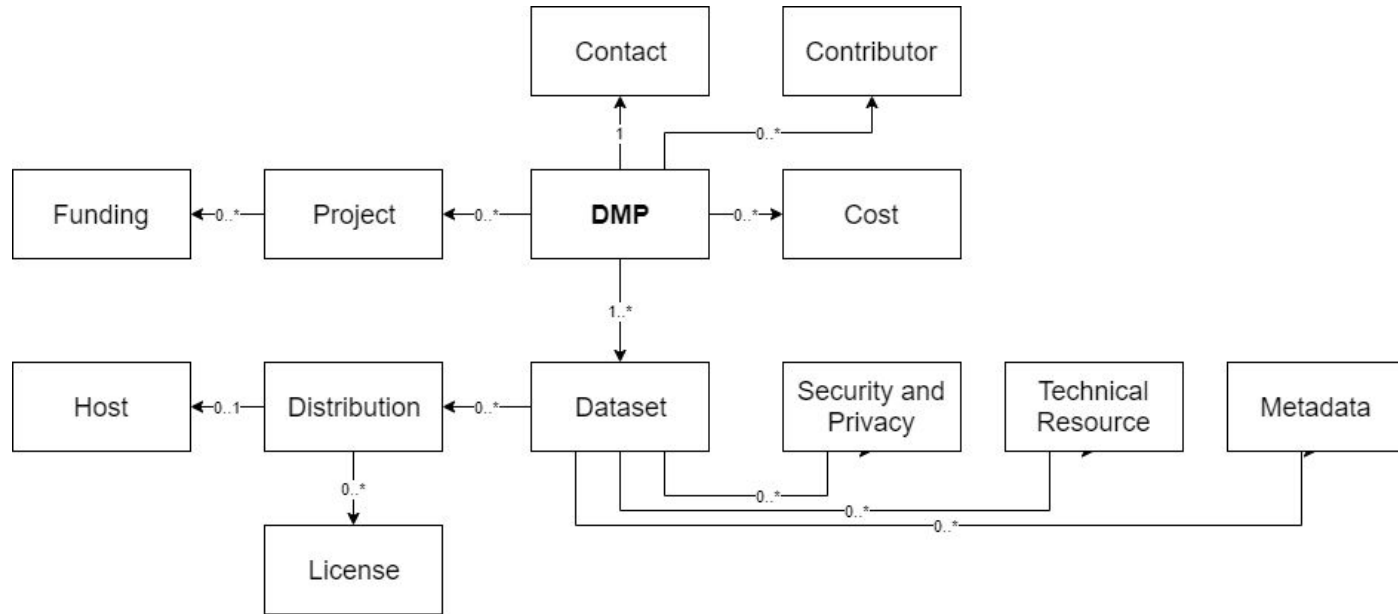
[Responsibilities](#)

[Ethical and Legal Issues](#)

[Other](#)

+ Add chapter

Machine-actionable DMP (maDMP)



Fuente: <https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard>

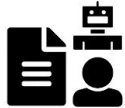
Principios de los maDMP



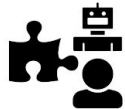
1 Integrate DMPs with the workflows of all stakeholders in the research data ecosystem



2 Allow automated systems to act on behalf of stakeholders



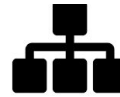
3 Make policies (also) for machines, not just for people



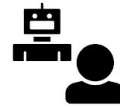
4 Describe—for both machines and humans—the components of the data management ecosystem



5 Use PIDs and controlled vocabularies



6 Follow a common data model for maDMPs



7 Make DMPs available for human and machine consumption



8 Support data management evaluation and monitoring



9 Make DMPs updatable, living, versioned documents



10 Make DMPs publicly available

Fig 2. Ten principles for maDMPs at a glance. DMP, data management plan; maDMP, machine-actionable data management plan; PID, persistent identifier.

<https://doi.org/10.1371/journal.pcbi.1006750.g002>

Miksa T, Simms S, Mietchen D, Jones S (2019) Ten principles for machine-actionable data management plans. PLoS Comput Biol 15(3): e1006750.

<https://doi.org/10.1371/journal.pcbi.1006750>

Muchas gracias por vuestra participación



Contacto

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