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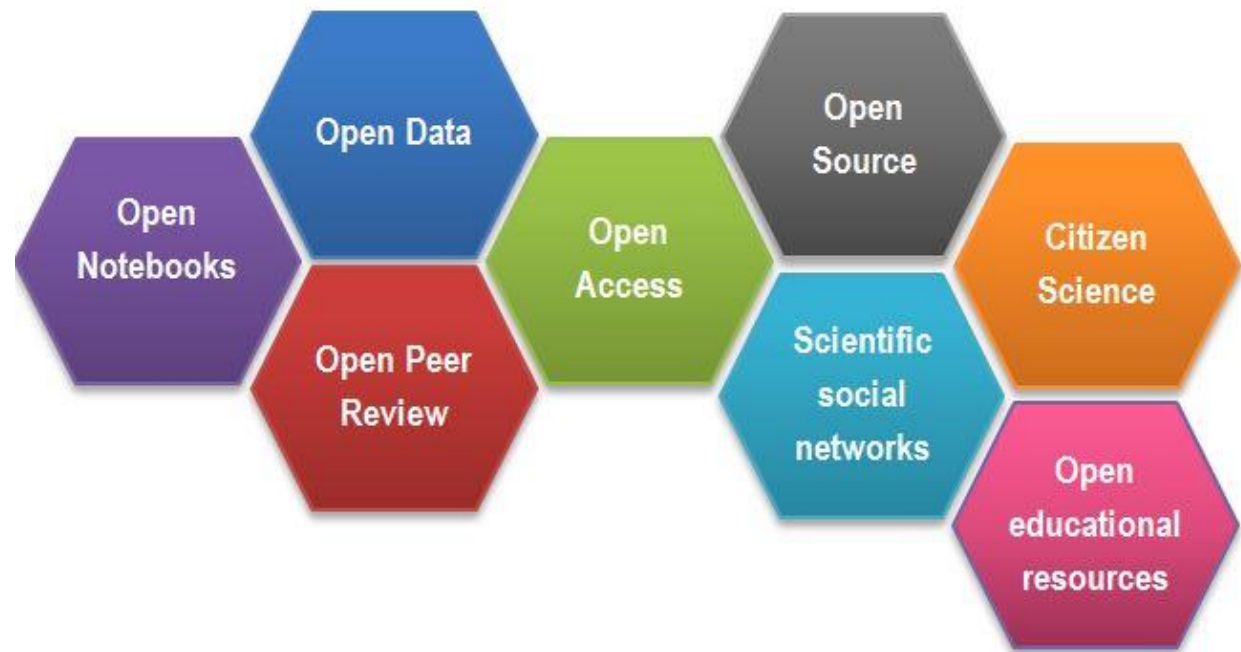
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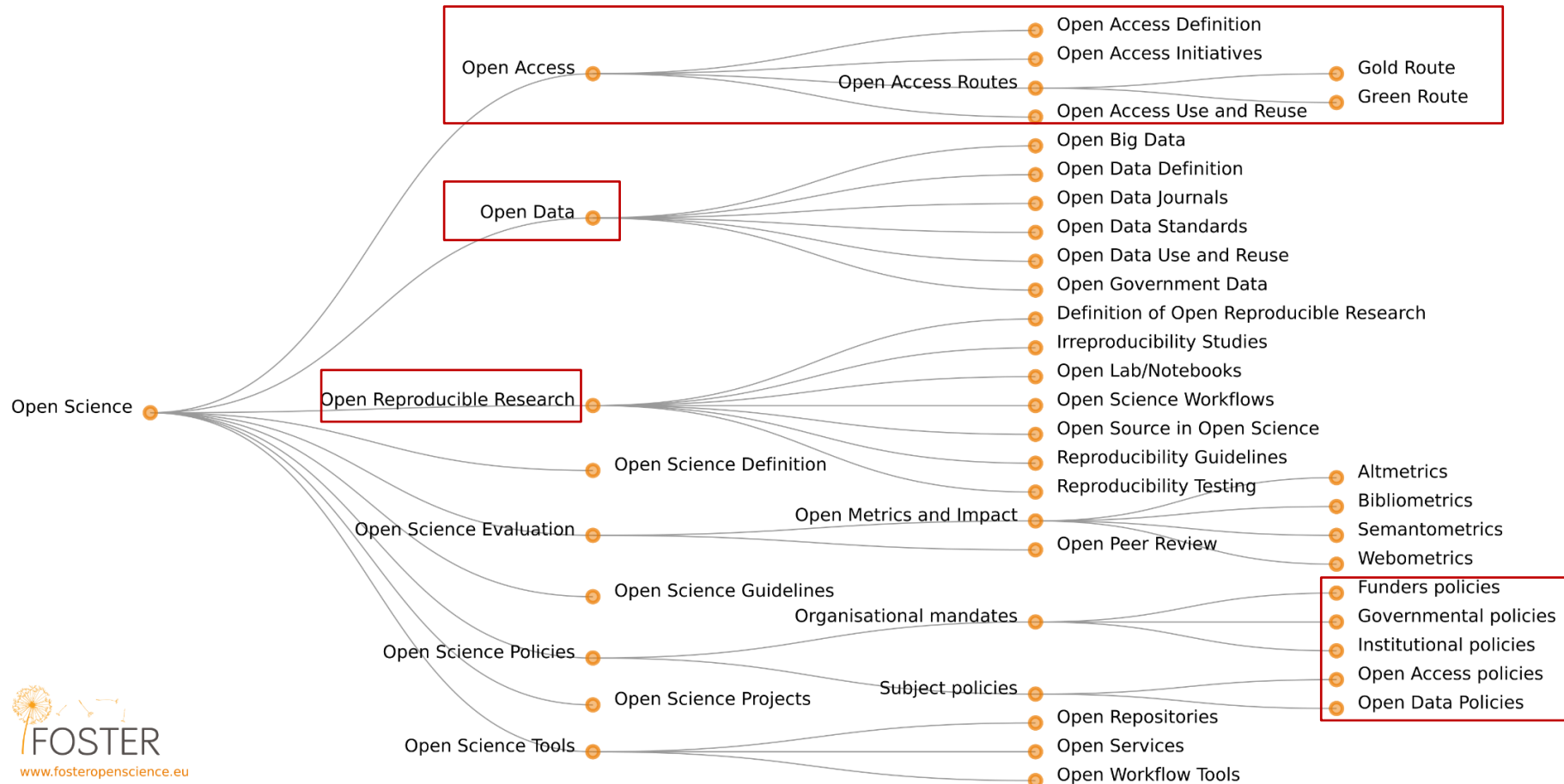


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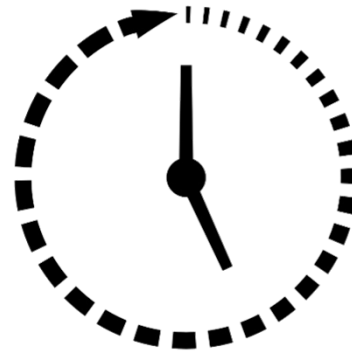
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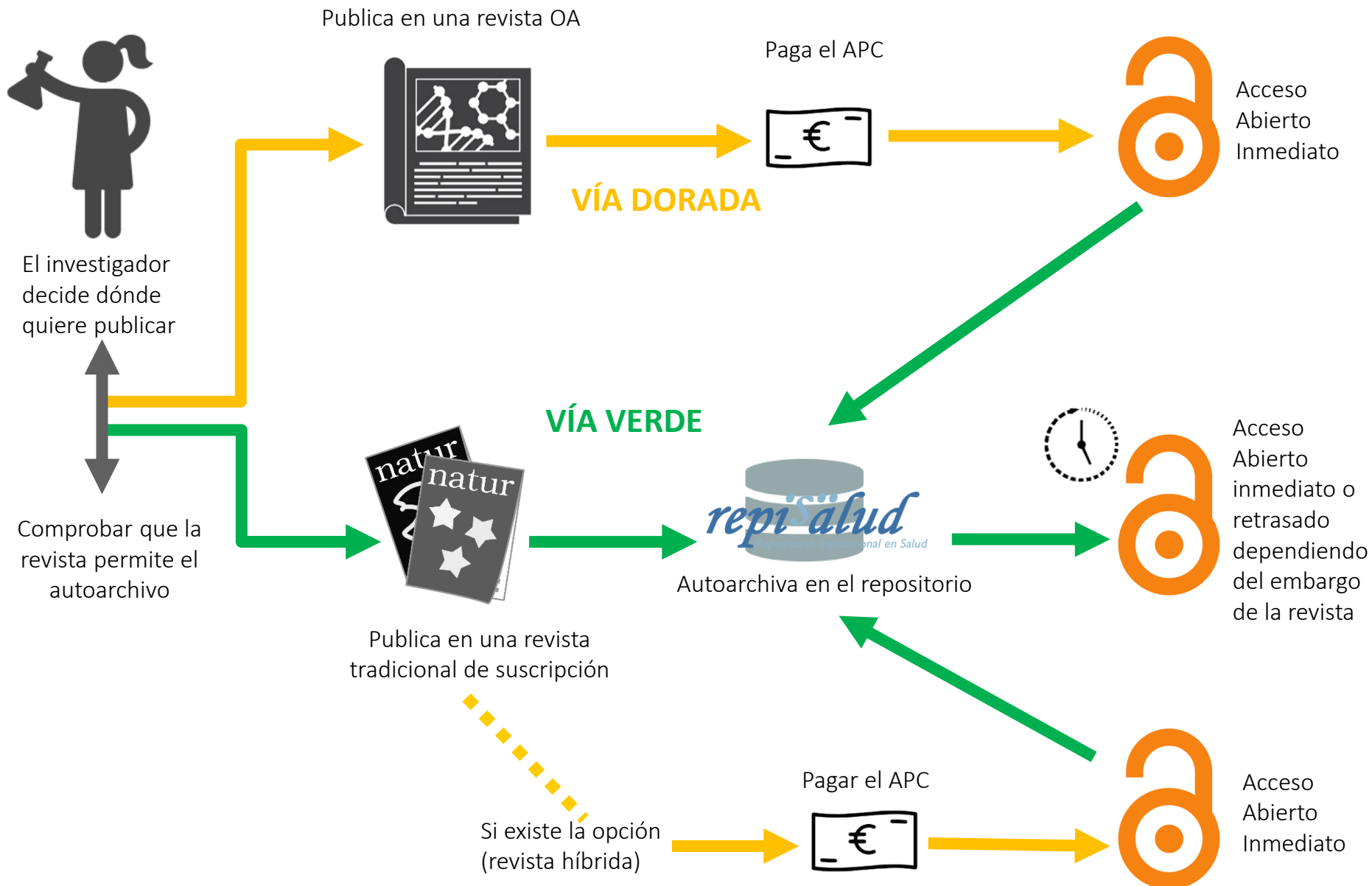


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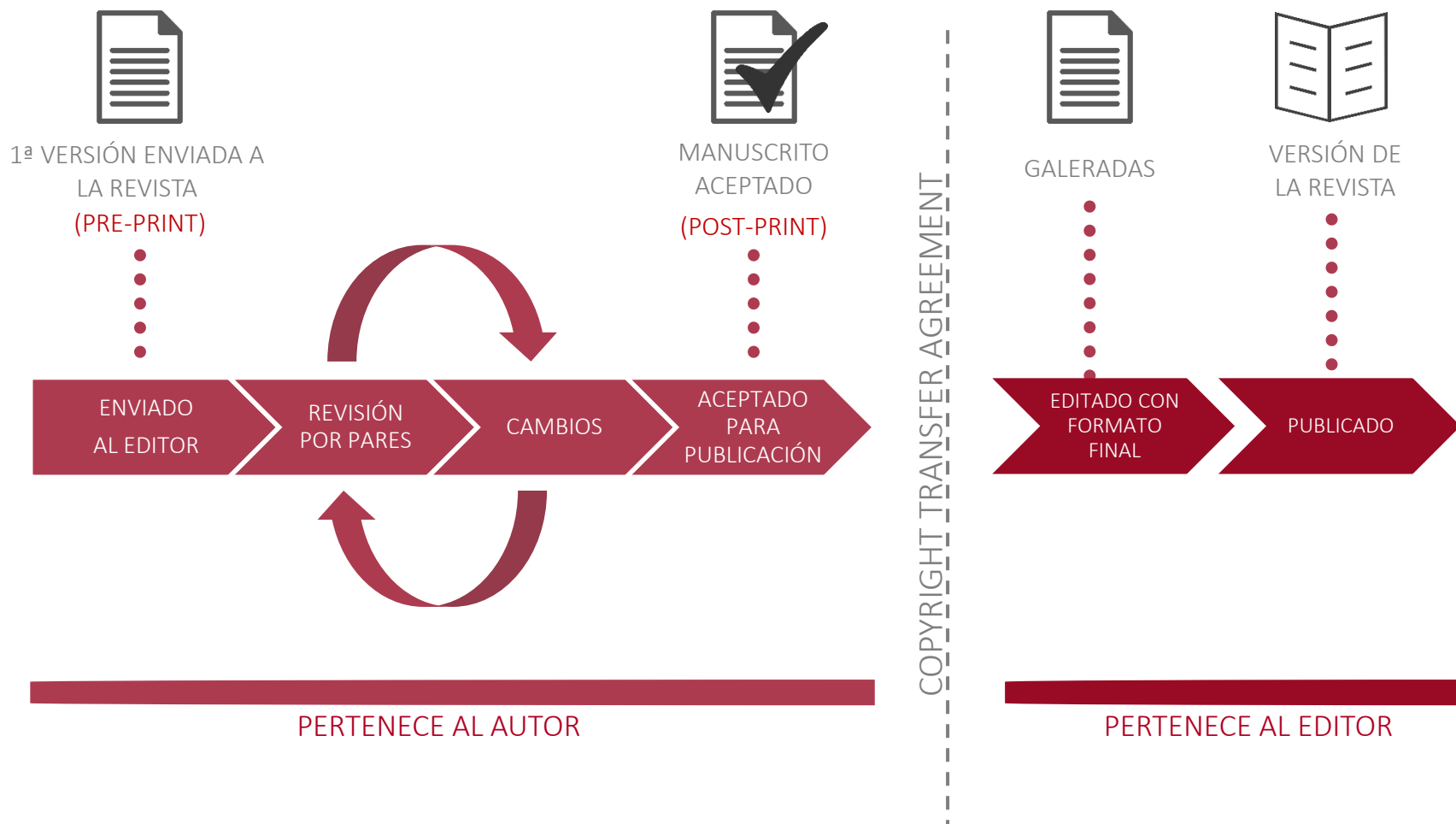


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Defective p27 phosphorylation at serine 10 affects vascular reactivity and increases abdominal aortic aneurysm development via Cox-2 activation

Pedro Molina-Sánchez^{1,2}, Lara Del Campo^{1,2,3}, Vanesa Esteban^{1,4}, Cristina Rius^{1,2}, Raphaël Chèvre^{1,5}, José J. Fuster^{1,6}, Mercedes Ferrer^{1,4}, Juan Miguel Redondo^{1,2} and Vicente Andrés^{1,2,3}

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MISMO
CONTENIDO



Original article

Defective p27 phosphorylation at serine 10 affects vascular reactivity and increases abdominal aortic aneurysm development via Cox-2 activation

Pedro Molina-Sánchez^{1,2,3}, Lara Del Campo^{1,2,3}, Vanesa Esteban^{1,4}, Cristina Rius^{1,2,4}, Raphaël Chèvre^{1,5}, José J. Fuster^{1,6}, Mercedes Ferrer^{1,4}, Juan Miguel Redondo^{1,2}, Vicente Andrés^{1,2,3}

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ARTICLE INFO

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p27 phosphorylation at serine 10
Cox-2
Endothelial cell
Aneurysm
Vascular reactivity

ABSTRACT

Phosphorylation at serine 10 (S10) is the major posttranslational modification of the tumor suppressor p27, and is reduced in both human and mouse atherosclerosis. Moreover, a lack of p27 phosphorylation in apolipoprotein E null mice (apoE^{-/-}) leads to increased high fat diet induced atherosclerosis associated with endothelial dysfunction and augmented leukocyte recruitment. In this study, we analyzed whether p27 phosphorylation modulates additional endothelial functions and associated pathologies. Defective p27 phosphorylation increases COX-2 activity in mouse aortic endothelial cells without affecting other key regulators of vascular reactivity, reduces endothelium-dependent dilation, and increases arterial contractility. Lack of p27 phosphorylation also elevates aortic COX-2 expression and thromboxane A₂ production, increases aortic lumen diameter, and aggravates angiotensin II induced abdominal aortic aneurysm development in apoE^{-/-} mice. All these abnormal responses linked to defective p27 phosphorylation are blunted by pharmacological inhibition of COX-2. These results demonstrate that defective p27 phosphorylation modulates endothelial behavior and promotes aneurysm formation via COX-2 activation.

1. Introduction

The endothelium is a key player in the maintenance of vascular homeostasis. Among other functions, endothelial cells (ECs) regulate leukocyte trafficking [1], angiogenesis [2], coagulation [3], vascular tone and arterial blood pressure [4]. Endothelial dysfunction leads to local and systemic alterations that contribute to cardiovascular disease, and is strongly associated with hypertension [5,6], a common cardiovascular risk factor. ECs modulate the behavior of vascular smooth muscle cells (VSMCs), affecting their contractile capacity through the release of a wide variety of vasoactive factors, such as nitric oxide (NO), prostaglandins (PGI₂, PGE₂, etc.), and thromboxane (TX). An imbalance in the synthesis of these agents, caused by dysfunction of

their main enzymatic producers (NO synthase, cyclooxygenase, and PG and TX synthase) can lead to hypertension [6] and generate or aggravate vascular pathological manifestations. Endothelial dysfunction also promotes other vascular disorders, such as atherosclerosis or some types of aneurysm, at least in part through overexpression of adhesion molecules that promote leukocyte extravasation and accumulation within the inflamed arterial wall [7]. These events can alter the blood flow and induce medial degeneration [8], an early event in both atherosclerosis and aneurysm.

Cell cycle inhibitors have emerged as important protective agents against vascular disease and cardiovascular risk. p27^{TPA} is a member of the Cip/Kip family of cyclin-dependent kinase inhibitors (CKIs) that inhibits VSMC proliferation and migration in vitro [9,10]. Studies in the

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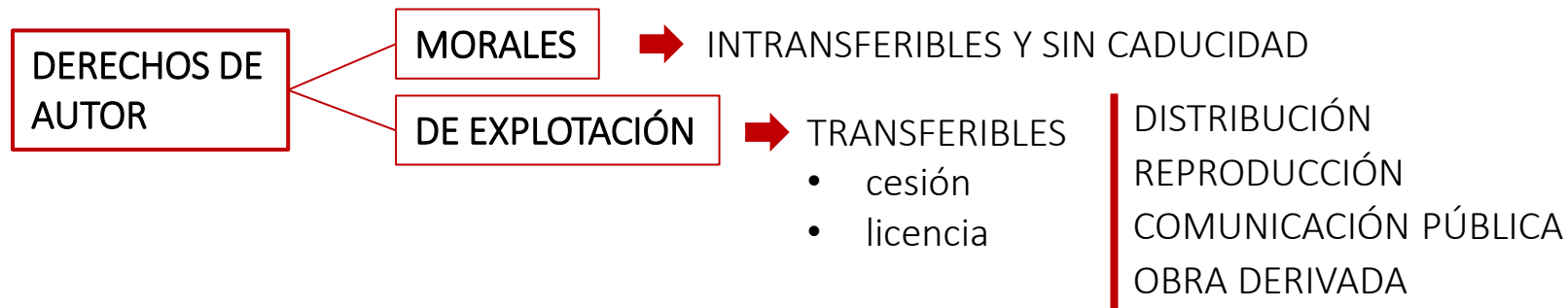
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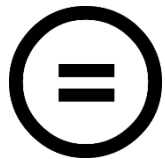
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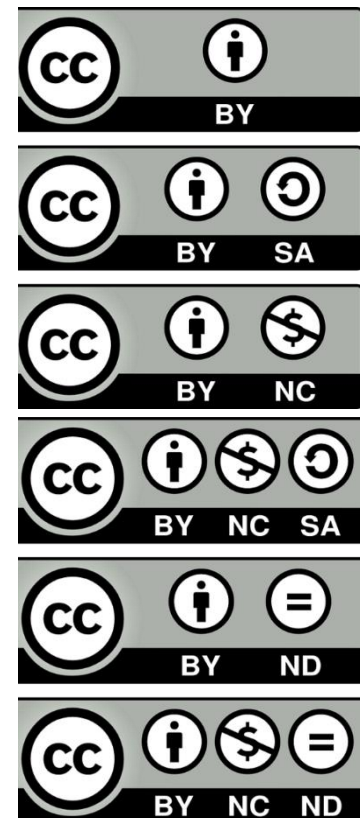
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Xavier Rossello, Jannick AN Dorresteijn, Arne Janssen, more... Show all authors

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Abstract

Risk assessment and risk prediction have become essential in the prevention of cardiovascular disease. Even though risk prediction tools are recommended in the European guidelines, they are not adequately implemented in clinical practice. Risk prediction tools are meant to estimate prognosis in an unbiased and reliable way and to provide objective information on outcome probabilities. They support informed treatment decisions about the initiation or adjustment of preventive medication. Risk prediction tools facilitate risk communication to the patient and their family, and this may increase commitment and motivation to improve

Tools in cardiovascular disease prevention: A report from the ESC Prevention of CVD Programme led by the European Association of Preventive Cardiology (EAPC) in collaboration with the Acute Cardiovascular Care Association (ACCA) and the Association of Cardiovascular Nursing and Allied Professions (ACNAP)

European Heart Journal: Acute Cardiovascular Care 11-11

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Fecha de publicación 2020-03

Cita J Proteomics. 2020; 214:103624

Idioma Inglés

Resumen Changes in the oxidation state of protein Cys residues are a key role in a variety of pathophysiological states. We had developed an in-gel method that enables the large-scale, parallel analysis of the oxidation state of Cys sites and protein abundance changes. Here we describe the development of the GELSILOX approach featuring: i) significant

Palabras clave Adipose tissue | Cys oxidation | FASILOX | Filter-aided sample preparation | Thiol redox proteome

Versión en línea <https://doi.org/10.1016/j.jprot.2019.103624>

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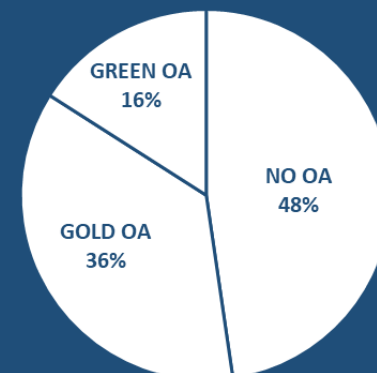
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Buscador

Improved integrative analysis of the thiol redox proteome using filter-aided sample preparation

Bonzon-Kulichenko, Elena, Camateita, Emilio, Lopez, Juan Antonio, Gómez-Serrano, María, Jorge, Inmaculada, Calvo, Enrique, Nunez, Estefania, Trevisan-Herraz, Marco, Bagwan, Navratan, Bárcena, José Antonio, Peral, Belén, Vazquez, Jesus

Changes in the oxidation state of protein Cys residues are involved in cell signalling and play a key role in a variety of pathophysiological states. We had previously developed GELSILOX, an in-gel method that enables the large-scale, parallel analysis of dynamic alterations to the redox state of Cys sites and protein abundance changes. Here we present FASILOX, a further development of the GELSILOX approach featuring: i) significantly increased peptide recovery, ii) enhanced sensitivity for the detection of Cys oxidative alterations, and iii) streamlined workflow that results in shortened assay duration. In mitochondria isolated from the adipose tissue of obese, diabetic patients, FASILOX revealed a sexually dimorphic trait of Cys oxidation involving mainly mitochondrial oxidative phosphorylation complexes. These results provide the first evidence for a decreased efficiency in the antioxidant response of men as compared to women. This study was supported by competitive grants from the Spanish Ministry of Science, Innovation and Universities (BIO2015-67580-P, PGC2018-097019-B-I00 and RTI2018-093864-B-I00), the Ministry of Economy, Industry and Competitiveness (BFU2016-80006-P) through the Carlos III Institute of Health-Fondo de Investigación Sanitaria grant PRB3 (IPT17/0019 -ISCIII-SGEFI / ERDF, ProteoRed), the Fundación MaratóTV3 (grant 122/C/2015) and the Caixa "Banking Foundation (project code HR17-00247). The CNIC is supported by the Instituto de Salud Carlos III (ISCIII), the Ministerio de Ciencia, Innovación y Universidades (MCNU) and the Pro CNIC Foundation, and is a Severo Ochoa Center of Excellence (SEV-2015-0505). SI

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Título	Improved integrative analysis of the thiol redox proteome using filter-aided sample preparation
Autor(es)	Bonzon-Kulichenko, Elena CNIC Camateita, Emilio CNIC Lopez, Juan Antonio CNIC Gómez-Serrano, María CNIC Jorge, Inmaculada CNIC Calvo, Enrique CNIC Nunez, Estefania CNIC Trevisan-Herraz, Marco CNIC Bagwan, Navratan CNIC Bárcena, José Antonio Peral, Belén Vazquez, Jesus CNIC
Fecha de publicación	2020-03
Cita	J Proteomics. 2020; 214:103624
Idioma	Inglés
Resumen	Changes in the oxidation state of protein Cys residues are involved in cell signalling and play a key role in a variety of pathophysiological states. We had previously developed GELSILOX, an in-gel method that enables the large-scale, parallel analysis of dynamic alterations to the redox state of Cys sites and protein abundance changes. Here we present FASILOX, a further development of the GELSILOX approach featuring: i) significantly increased peptide recovery, ii)
Palabras clave	Adipose tissue Cys oxidation FASILOX Filter-aided sample preparation Sexual dimorphism Thiol redox proteome
Versión en línea	https://doi.org/10.1016/j.jpro.2019.103624
DOI	10.1016/j.jpro.2019.103624
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Improved integrative analysis of the thiol redox proteome using filter-aided sample preparation

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Bonzon-Kulichenko, Elena; Camafalta, Emilio; Lopez, Juan Antonio; Gómez-Serrano, María; Jorge, Inmaculada; Calvo, Enrique; Nunez, Estefania; Trevisan-Herraz, Marco; Bagwan, Navrat; Balcena, José Antonio; Peral, Belén; Vazquez, Jesus; (2020)

Publisher: Elsevier

Identifiers: [doi: 10.1016/j.jprot.2019.103624](https://doi.org/10.1016/j.jprot.2019.103624)

Subject: Adipose tissue | Cys oxidation | FASIOX | Filter-aided sample preparation | Sexual dimorphism | Thiol redox proteome

Changes in the oxidation state of protein Cys residues are involved in cell signalling and play a key role in a variety of pathophysiological states. We had previously developed GELSILOX, an in-gel method that enables the large-scale, parallel analysis of dynamic altera... [View more](#)

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Los **DATOS DE INVESTIGACIÓN** son aquellos materiales generados o recolectados durante el transcurso de la realización de una investigación.

Pueden emplearse en la validación de los resultados de investigación publicados en artículos, para generar nuevo conocimiento y ser explotados por humanos y máquinas de manera interdisciplinar.

TIPOS DE DATOS: numéricos, imágenes, fotografías, vídeos, modelos 3D, audio, tablas, bases de datos, estadísticas, transcripciones de entrevistas, datos de encuestas, secuencias de genes, estructuras químicas, datos de muestras...

Un **PLAN DE GESTIÓN DE DATOS** (PGD) es un documento formal elaborado por el investigador o grupo de investigación en el cuál se esboza la gestión que se aplicará durante el ciclo de vida de los datos, desde su creación hasta la finalización del proyecto de investigación.

Elementos de un PGD:

- La relación de datos que se producirán durante la investigación
- La relación de los estándares que se usarán para generar los metadatos
- La relación de datos que se ofrecerán en abierto
- Las políticas de acceso y reutilización de datos

Beneficios de un PGD:

- Asegurar la difusión, integridad y reproducibilidad de los datos
- Preservar los datos, evitando posibles pérdidas
- Aumentar la diseminación del proyecto, así como su impacto



El ciclo de los datos científicos



Ayuda a planificar la investigación



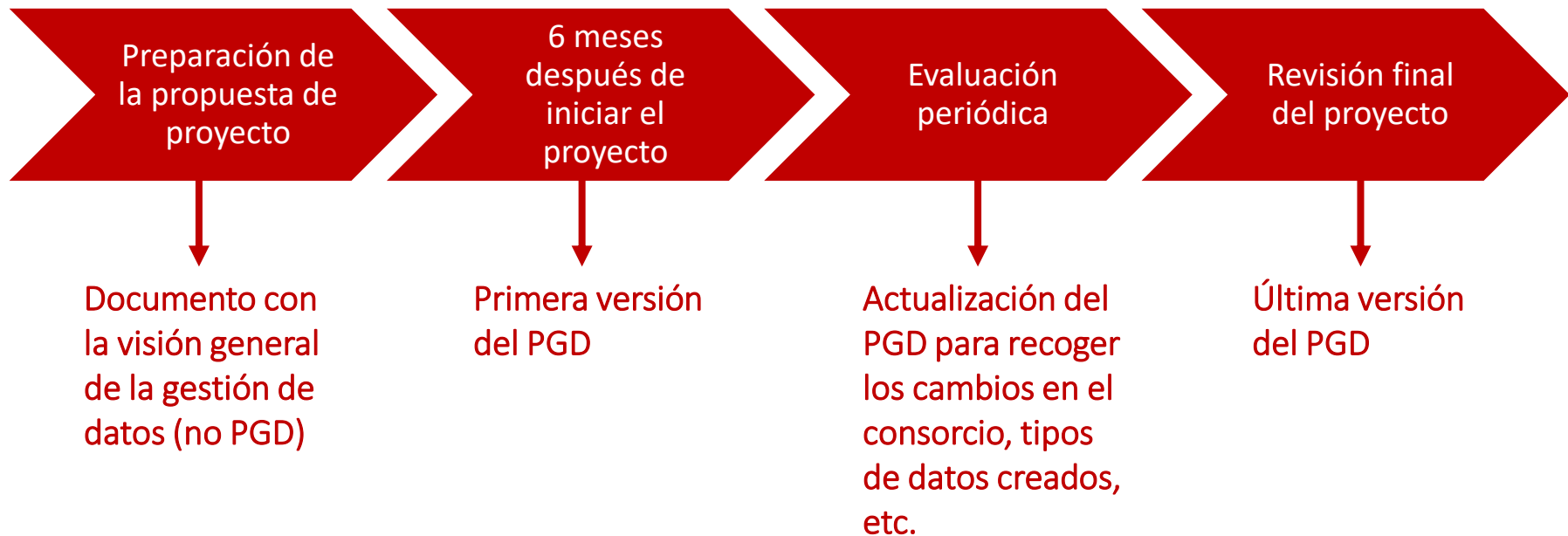
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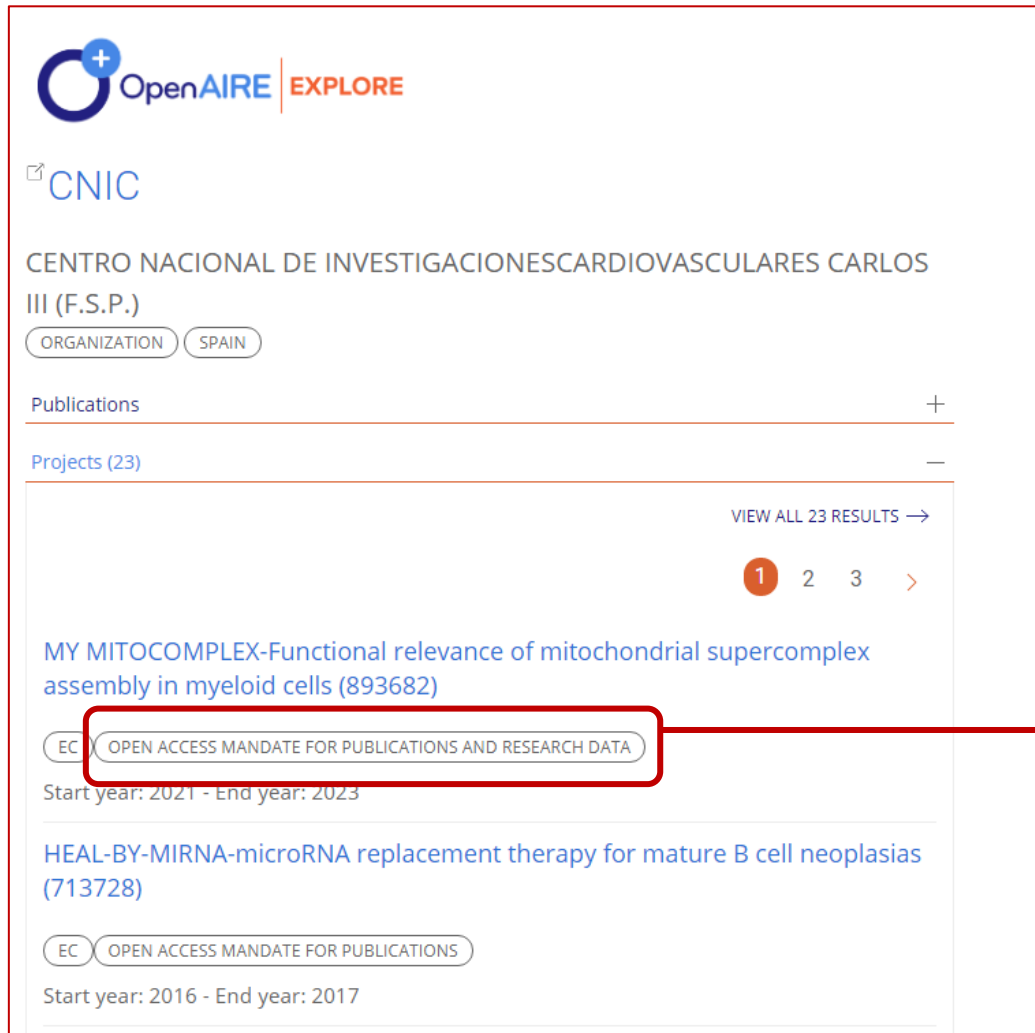
Data Management Plan

Participating projects will be required to develop a Data Management Plan (DMP), in which they will **specify what data will be open**: detailing what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved.

Costs associated with open access to research data, including the creation of the data management plan, can be claimed as eligible costs of any Horizon 2020 grant.



https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm



The screenshot shows the OpenAIRE EXPLORE interface. At the top left is the OpenAIRE logo with a blue circle and a plus sign, followed by the text 'OpenAIRE | EXPLORE'. Below this is the organization name 'CNIC' with a small icon to its left. Underneath is the full name 'CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III (F.S.P.)'. There are two tags: 'ORGANIZATION' and 'SPAIN'. Below this is a section for 'Publications' with a '+' icon, and a section for 'Projects (23)' with a '-' icon. A link 'VIEW ALL 23 RESULTS →' is visible. A pagination bar shows '1 2 3 >'. The first project entry is titled 'MY MITOCOMPLEX-Functional relevance of mitochondrial supercomplex assembly in myeloid cells (893682)'. It has a tag 'EC OPEN ACCESS MANDATE FOR PUBLICATIONS AND RESEARCH DATA' which is highlighted with a red box. Below the title is the text 'Start year: 2021 - End year: 2023'. The second project entry is titled 'HEAL-BY-MIRNA-microRNA replacement therapy for mature B cell neoplasias (713728)'. It has a tag 'EC OPEN ACCESS MANDATE FOR PUBLICATIONS' and the text 'Start year: 2016 - End year: 2017'.

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MY MITOCOMPLEX-Functional relevance of mitochondrial supercomplex assembly in myeloid cells (893682)

EC OPEN ACCESS MANDATE FOR PUBLICATIONS AND RESEARCH DATA

Start year: 2021 - End year: 2023

HEAL-BY-MIRNA-microRNA replacement therapy for mature B cell neoplasias (713728)

EC OPEN ACCESS MANDATE FOR PUBLICATIONS

Start year: 2016 - End year: 2017

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10 pasos para elaborar un Plan de Gestión de Datos

Un **Plan de Gestión de Datos** (PGD) es un documento formal que debe presentarse al inicio de la investigación en el que se describe qué vas a hacer con tus datos durante y después de finalizar tu investigación y que puede modificarse si se producen cambios en el proceso de la misma.

01

Revisa los **requerimientos** de la entidad financiadora.

02

Identifica los datos: tipología, procedencia, volumen, formatos y ficheros.

03

Define cómo se organizarán y gestionarán los datos: nombre de los ficheros, control de versiones, software necesario...

04

Explica cómo se documentarán los datos: identifica la información a procesar, consulta si hay estándares o esquemas de metadatos, identifica las herramientas que permitan gestionarlos.

05

Describe los procesos que aseguran una **buena calidad de los datos**.

06

Prepara una estrategia de almacenamiento (durante el proceso) y de **preservación de datos** (repositorio).

07

Define las políticas de datos del proyecto: cuestiones sobre propiedad intelectual y cómo se tratarán los datos sensibles y personales.

08

Describe cómo se difundirán los datos: dónde, cuáles, cuándo se van a difundir. Si publicas los datos en un repositorio, como información suplementaria del artículo o como *data paper*.

09

Asigna roles y responsabilidades para las personas y organizaciones participantes del proyecto.

10

Prepara un presupuesto realista: la gestión de datos cuesta tiempo y dinero en términos de software, hardware, servicios y personal.

POSIBLES SECCIONES DE UN PGD:

- Roles y responsabilidades
- Descripción, volumen, estructura, estándares, formatos de los datos
- Recogida y procesamiento de datos
- Esquema de Metadatos
- Propiedad intelectual y licencias de uso
- Consideraciones éticas
- Acceso, publicación y reutilización de los datos
- Selección del repositorio
- Seguridad y almacenamiento
- Preservación a largo plazo
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ERC Data Management Plan Template

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TEMPLATE HORIZON 2020 DATA MANAGEMENT PLAN (DMP)

- > Instructions and footnotes in blue must not appear in the text.
- > For options [in square brackets]: the option that applies must be chosen.
- > For fields in (grey in square brackets) (even if they are part of an option as specified in the previous item): enter the appropriate data.

Introduction

This Horizon 2020 DMP template has been designed to be applicable to any Horizon 2020 project that produces, collects or processes research data. You should develop a single DMP for your project to cover its overall approach. However, where there are specific issues for individual datasets (e.g. regarding openness), you should clearly spell this out.

Guidelines on FAIR Data Management in Horizon 2020 are available in the Online Manual.

FAIR data management

In general terms, your research data should be 'FAIR', that is findable, accessible, interoperable and re-usable. These principles precede implementation choices and do not necessarily suggest any specific technology, standard, or implementation solution.

This template is not intended as a strict technical implementation of the FAIR principles, it is rather inspired by FAIR as a general concept.

More information about FAIR:

[FAIR data principles \(FORCE11 discussion forum\)](#)

[FAIR principles \(article in Nature\)](#)

Structure of the template

The template is a set of questions that you should answer with a level of detail appropriate to the project.

It is not required to provide detailed answers to all the questions in the first version of the DMP that needs to be submitted by month 6 of the project. Rather, the DMP is intended to be a living document in which information can be made available on a finer level of granularity through updates as the implementation of the project progresses and when significant changes occur. Therefore, DMPs should have a clear version number and include a timetable for updates. As a minimum, the DMP should be updated in the context of the periodic evaluation/assessment of the project. If there are no other periodic reviews envisaged within the grant agreement, an update needs to be made in time for the first review at the latest.

In the following the main sections to be covered by the DMP are outlined. At the end of the document, Table 1 contains a summary of these elements in bullet form.

This template itself may be updated as the policy evolves.

H2020 Programme

Guidelines on FAIR Data Management in Horizon 2020

Version 3.0
26 July 2016



Checklist for a Data Management Plan



Checklist for a Data Management Plan, v4.0

Please cite as: DCC. (2013). *Checklist for a Data Management Plan*. v.4.0. Edinburgh: Digital Curation Centre. Available online: <http://www.dcc.ac.uk/resources/data-management-plans>

DCC Checklist	DCC Guidance and questions to consider
Administrative Data	
ID	A pertinent ID as determined by the funder and/or institution.
Funder	State research funder if relevant
Grant Reference Number	Enter grant reference number if applicable [POST-AWARD DMPs ONLY]
Project Name	If applying for funding, state the name exactly as in the grant proposal.
Project Description	Questions to consider: - What is the nature of your research project? - What research questions are you addressing? - For what purpose are the data being collected or created? Guidance: Briefly summarise the type of study (or studies) to help others understand the purposes for which the data are being collected or created.
PI / Researcher	Name of Principal Investigator(s) or main researcher(s) on the project.
PI / Researcher ID	E.g. ORCID http://orcid.org/
Project Data Contact	Name (if different to above), telephone and email contact details
Date of First Version	Date the first version of the DMP was completed
Date of Last Update	Date the DMP was last changed
Related Policies	Questions to consider: - Are there any existing procedures that you will base your approach on? - Does your department/group have data management guidelines? - Does your institution have a data protection or security policy that you will follow? - Does your institution have a Research Data Management (RDM) policy? - Does your funder have a Research Data Management policy? - Are there any formal standards that you will adopt? Guidance: List any other relevant funder, institutional, departmental or group policies on data management, data sharing and data security. Some of the information you give in the remainder of the DMP will be determined by the content of other policies. If so, point/link to them here.
Data Collection	
What data will you collect or create?	Questions to consider: - 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 reuse? Guidance: 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.
How will the data be collected or created?	Questions to Consider: - 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? Guidance: 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

Podemos consultar otros [Planes de Gestión de Datos](#) reales depositados en Zenodo:

The collage displays several real-world Data Management Plans (DMPs) deposited in Zenodo. Visible documents include:

- BEACON D1.3: Data Management Plan**: A project management and quality assurance plan for the BEACON project, funded by the European Union's Horizon 2020 research and innovation programme.
- RECAP Data Management Plan**: A plan for the RECAP project, which aims to reinforce CAP (Common Agricultural Policy) through personalized public services.
- Sodalite Data Management Plan**: A plan for the Sodalite project, focusing on software-defined application infrastructures management and engineering.
- RECAP Reinforcing CAP**: A plan for the RECAP project, funded by the European Union's Horizon 2020 research and innovation programme.
- hit2gap**: A project funded by the European Union's Horizon 2020 research and innovation programme, focusing on highly innovative building control tools.
- Reflow**: A project funded by the European Union's Horizon 2020 research and innovation programme, focusing on co-creating circular resource flows in cities.

Generadores online de Planes de Gestión de Datos

DMP ONLINE Home Public DMPs Funder requirements Help

Welcome

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).

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203 Organisations


23,083 Plans


89 Countries

Some funders mandate the use of DMPonline, while others point to it as a useful option. You can [download funder templates](#) without logging in, but the tool provides tailored guidance and example answers from the DCC and many research organisations. Why not sign up for an account and try it out?

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- or -

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<https://dmponline.dcc.ac.uk/>

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Bienvenido a PGDonline

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

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

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Generadores online de Planes de Gestión de Datos

Irene's Plan

Project Details Plan overview Initial DMP Detailed DMP Final review DMP Share Download

* Project title

Irene's Plan

☒ mock project for testing, practice, or educational purposes

Funder

European Commission (Horizon 2020)

Grant number

Start typing a project name or abbreviation to pre-fill grant ✖

e.g. 123456

Project abstract

ID

61086

Principal Investigator

Name

Irene Maseda

ORCID id

0000-0002-4683-0574

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.

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EJEMPLO DEL GENERADOR ONLINE DE PLANES DE GESTIÓN DE DATOS DEL DCC

Irene's Plan

Project Details Plan overview Initial DMP Detailed DMP Final review DMP Share Download

expand all | collapse all

0/31

1. Data summary (0 / 7)

+

2.1 Making data findable, including provisions for metadata [FAIR data] (0 / 6)

+

2.2 Making data openly accessible [FAIR data] (0 / 5)

+

2.3 Making data interoperable [FAIR data] (0 / 2)

+

2.4 Increase data re-use (through clarifying licenses) [FAIR data] (0 / 5)

+

3. Allocation of resources (0 / 3)

+

4. Data security (0 / 1)

+

Specify the types and formats of data generated/collected

B *I*    

Save

Guidance

Comments

DCC

expand all | collapse all

Data format

+

Data description

-

- Give a summary of the data you will collect or create, noting the content, coverage and data type, e.g., tabular data, survey data, experimental measurements, models, software, audiovisual data, physical samples, etc.

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ELEGIR LOS FORMATOS DE ARCHIVO

Type	Preferred format(s)	Non-preferred format(s)
Text documents	- PDF/A (.pdf) - ODT (.odt)	- Microsoft Word (.doc) - Office Open XML (.docx) - Rich Text File (.rtf) - PDF other than PDF/A (.pdf)
Plain text	Unicode text (.txt)	Non-Unicode text (.txt)
Markup language	- XML (.xml) - HTML (.html) - Related files: .css, .xslt, .js, .es	- SGML (.sgml) - Markdown (.md)
Programming languages	- MATLAB - NetCDF - TextFabric	
Spreadsheets	- ODS (.ods) - CSV (.csv)	- Microsoft Excel (.xls) - Office Open XML Workbook (.xlsx) - PDF/A (.pdf)
Databases	- SQL (.sql) - SIARD (.siard) - CSV (.csv)	- Microsoft Access (.mdb, .accdb) - dBase (.dbf) - HDFS (.hdf5, .he5, .h5)
Statistical data	- Data and setup (.dat/.sps; .dat/.DO) - STATA (.dta) - DDI (.xml) - R	- SPSS Portable (.por) - SPSS (.sav) - SAS (.7dat; .sd2; .tpt)
Raster images	- JPEG (.jpg, .jpeg) - TIFF (.tif, .tiff) - PNG (.png) - JPEG 2000 (.jp2) - DICOM (.dcm)	
Vector images	SVG (.svg)	- Adobe Illustrator (.ai) - EPS (.eps) - WMF/EMF (.wmf, .emf) - CDR (.cdr)
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ESQUEMAS DE METADATOS

Metadata

RDA | Metadata Directory

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- History by Area
- History
- Information Services
- Law
- Music

Engineering

- Architecture
- Building Conservation

Life Sciences

- Agricultural Economics
- Agricultural Science
- Animal pathology
- Animal physiology
- Biochemistry
- Biodiversity
- Bioengineering
- Biogeography
- Bioinformatics
- Biology
- Biomaterials
- Biomechanics
- Botany
- Cell Biology
- Clinical Medicine
- Ecology

Cómo describir bien los datos. Metadatos

TIPO DE METADATOS	EJEMPLOS DE SU CONTENIDO	USOS PRINCIPALES
DESCRIPTIVOS	Título	Dar un contexto al contenido en sí de los datos
	Autores	
	Fecha de publicación del estudio	
	Resumen de la temática	
	Protocolos para la obtención de los datos	
TÉCNICOS	Tipo de archivo	Detallar los tipos de archivos en los que los datos se encuentran disponibles, cuánto pesan, la información sobre la antigüedad de su creación
	Tipo de formato	
	Tamaño del archivo	
	Fecha de creación (versiones)	
PRESERVACIÓN	DOI / Handle	Informar sobre qué modos de preservación existen para el conjunto de datos
	En qué repositorio se encuentra depositado	
DERECHOS	Derechos de copyright	Indicar qué derechos se han estipulado para el conjunto de datos
	Licencias CC	

DESDE 2017 LOS PROYECTOS H2020 TIENEN QUE PONER SUS DATOS EN ABIERTO PERO...

AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY

Grantees have the right to **opt-out**, but need to say **why**



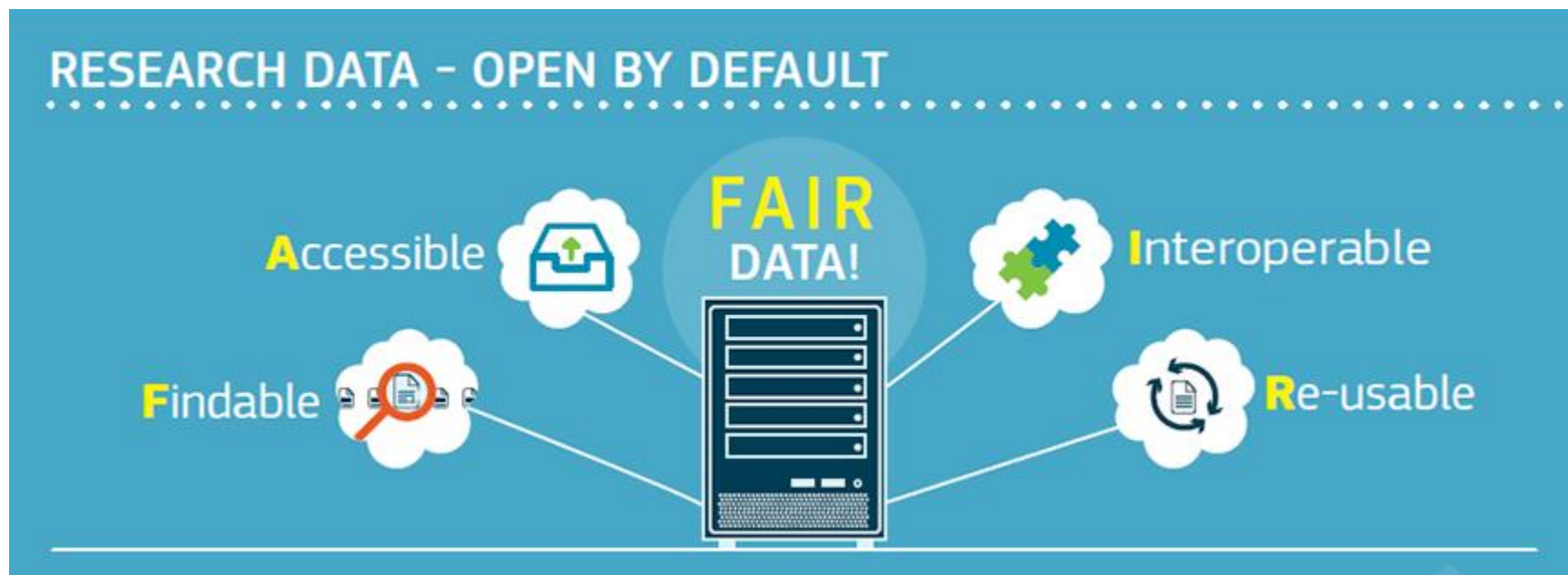
Top three reasons for **opt-out**:

privacy

intellectual
property rights

might jeopardise
project's main
objective





Los **Principios FAIR** ofrecen un conjunto de cualidades precisas y medibles que una publicación de datos debería seguir para que los datos sean

Localizables

Accesibles

Interoperables

Reutilizables



MareData



Red Española sobre Datos de Investigación en Abierto

Recomendaciones para la gestión de datos de investigación

Dirigidas a investigadores



FAIR SELF-ASSESSMENT TOOL

Findable

Does the dataset have any identifiers assigned?

No identifier

Is the dataset identifier included in all metadata records/files describing the data?

No

How is the data described with metadata?

The data is not described

What type of repository or registry is the metadata record in?

The data is not described in any repository

Accessible

How accessible is the data?

No access to data or metadata

Is the data available online without requiring specialised protocols or tools once access has been approved?

No access to data

Will the metadata record be available even if the data is no longer available?

Unsure

Interoperable

What (file) format(s) is the data available in?

Mostly in a proprietary format

What best describes the types of vocabularies/ontologies /tagging schemas used to define the data elements?

Data elements not described

How is the metadata linked to other data and metadata (to enhance context and clearly indicate relationships)?

There are no links to other metadata

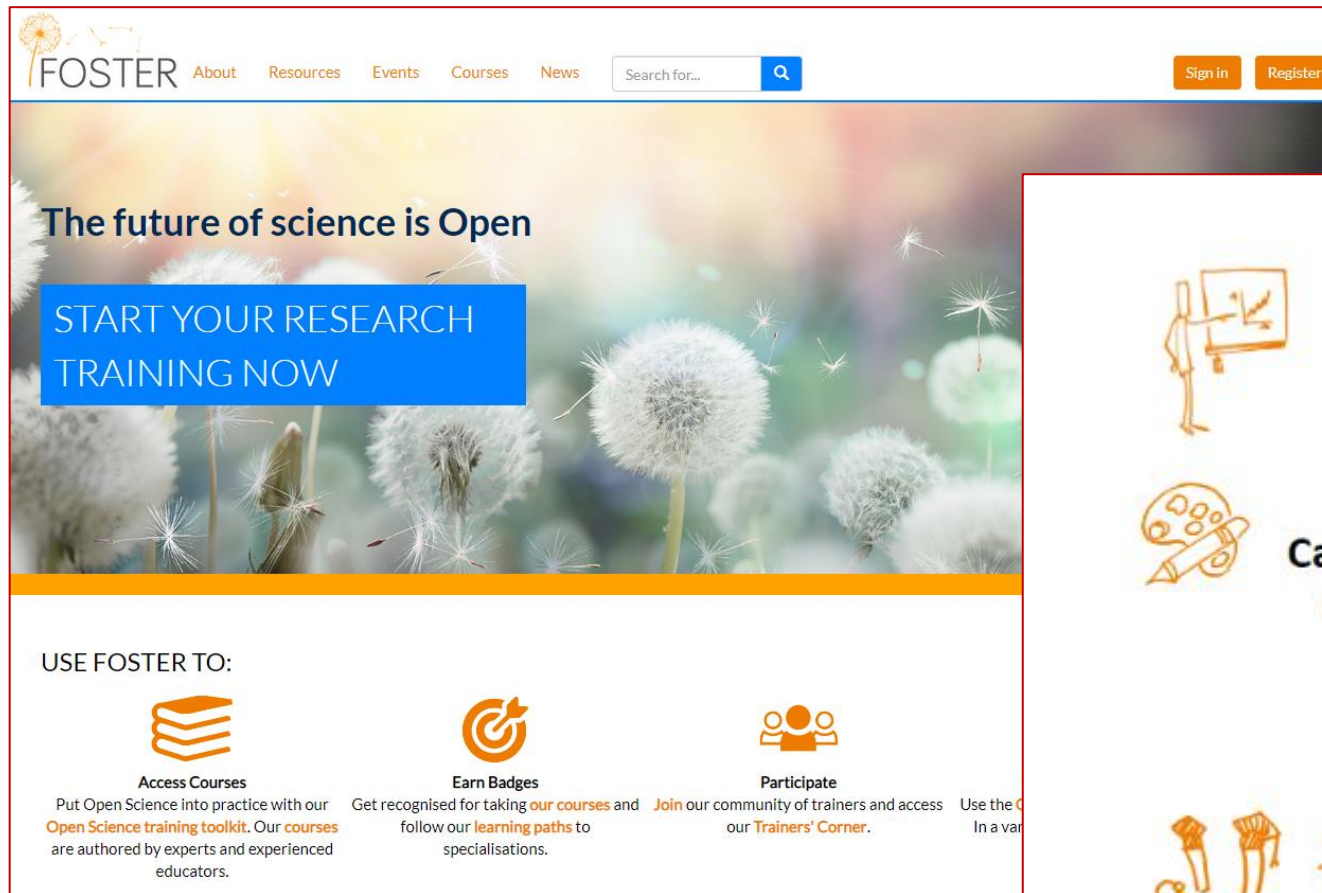
Reusable

Which of the following best describes the license/usage rights attached to the data?

No license

How much provenance information has been captured to facilitate data reuse?

No provenance information is recorded



The screenshot shows the FOSTER website homepage. At the top, there is a navigation bar with the FOSTER logo, links for About, Resources, Events, Courses, and News, a search bar, and buttons for Sign in and Register. The main banner features a background image of dandelions with the text "The future of science is Open" and a blue button that says "START YOUR RESEARCH TRAINING NOW". Below the banner, there is a section titled "USE FOSTER TO:" with three icons and corresponding text: "Access Courses" (book icon), "Earn Badges" (target icon), and "Participate" (people icon). The text for "Access Courses" says: "Put Open Science into practice with our Open Science training toolkit. Our courses are authored by experts and experienced educators." The text for "Earn Badges" says: "Get recognised for taking our courses and follow our learning paths to specialisations." The text for "Participate" says: "Join our community of trainers and access our Trainers' Corner." There is also a partially visible text "Use the C In a var".

FOSTER About Resources Events Courses News Search for... Sign in Register

The future of science is Open

START YOUR RESEARCH TRAINING NOW

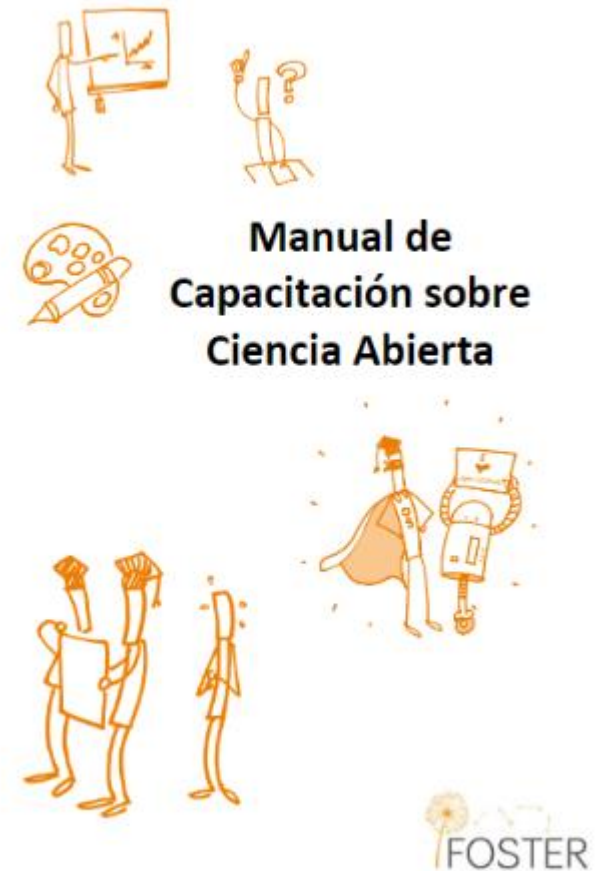
USE FOSTER TO:

- Access Courses**
Put Open Science into practice with our Open Science training toolkit. Our courses are authored by experts and experienced educators.
- Earn Badges**
Get recognised for taking our courses and follow our learning paths to specialisations.
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Join our community of trainers and access our Trainers' Corner.

Use the C In a var

<https://www.fosteropenscience.eu/>

<http://doi.org/10.5281/zenodo.2583100>



 An official website of the European Union How do you know? ▾



Home > Research and innovation > Strategy > Goals of research and innovation policy > Open Science > Open science monitor

Open science monitor

Tracking trends for open access, collaborative and transparent research across countries and disciplines.

Trends for open access to publications

Data and case studies covering access to scientific publications. Bibliometric data as well as data on the policies of journals and funders are available.

Facts and Figures for open research data

Figures and case studies related to accessing and reusing the data produced in the course of scientific production.

Data on open collaboration

Figures on availability of scientific APIs, open code policies, citizen science projects as well as case studies.

About

What the Open Science Monitor does, how to contribute, methodology and contact details.

https://ec.europa.eu/info/research-and-innovation/strategy/goals-research-and-innovation-policy/open-science/open-science-monitor_en

TIEMPO DE PREGUNTAS

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