

INSTITUTIONAL POLICY OF OPEN SCIENCE

INCLIVA | VLC
Biomedical Research Institute



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INTRODUCTION

INCLIVA, in line with the European policies, joins the commitment to open science in the modern field of information and communication technologies, through the development of this document which reflects its institutional policy of Open Science. Open Science encompasses all aspects of the research cycle, such as open and unrestricted access to content generated by scientific research, Open Data, Open Peer Review, citizen science and open education. The ultimate goal of this policy is to develop open and collaborative scientific activity for the benefit of society.

This concept of open science has its beginnings in the Budapest Open Access Initiative and the Berlin Declaration on Open Access to Knowledge in Science and Humanities, which has led to open science gaining importance in European public policies since 2006 through initiatives such as **Plan S**, driven by the **cOAlition S** consortium. This intention to advance in open science is mainly materialized in the **Horizon 2020** program, in clause 29.2 Open access to scientific publications of the Grant Agreements, it is established that each beneficiary must ensure open access (free online for any user) to all peer-reviewed scientific publications related to their results.

On our country, the **Article 37. Dissemination in open access of the Law of Science, Technology and Innovation** (Law 14/2011, June 1) regulates the main points on the open access dissemination of research results, establishing that research personnel whose activity is mainly supported with funds from the General State Budget must make public a digital version of the final contents that have been accepted for publication in research media, as soon as possible, but no later than twelve months after the official date of publication. Likewise, this electronic version must be made public in open access repositories recognized in the field of knowledge in which the research has been carried out, or in institutional open access repositories.

The development of these own or shared repositories, with open access to the publications of their research personnel, and the establishment of systems to connect them with similar national and international initiatives, is entrusted to the public agents of the Spanish Science, Technology and Innovation System.

It should be noted that the provisions described in Article 37 do not apply to agreements by virtue of which the rights to publications may have been assigned or transferred to third parties, and shall not

apply when the rights to the results of research, development and innovation are eligible for protection.

In turn, **Article 38**. Scientific and Technological culture, establishes that public administrations promote their activities leading to the improvement of the scientific and technological culture of society through education, training and dissemination, and shall give appropriate recognition to the activities of the agents of the Spanish Science, Technology and Innovation System in this field.

At the national level, it is also worth mentioning the **State Plan for Scientific and Technical Research and Innovation 2017-2020**, which counts as one of its objectives “Promoting an open and responsible R&D&I model supported by the participation of society.” The plan establishes the need to achieve greater transparency and accessibility to research results and data, as well as the promotion of citizen participation in scientific and technical research activities.

Likewise, the **Spanish Strategy for Science, Technology and Innovation 2021-2027** establishes excellent and open science as one of the pillars of its Objective 4, *Generation of Knowledge and scientific leadership*. In this sense, it is defended that the promotion of an Open Science model will favor the generation of high quality and high impact knowledge, as well as its transmission to society, an element that is directly related to Action Line 5 of the strategy (*Encourage and support the generation of scientific and innovative capabilities in SECTI agents*). Similarly, support for science of excellence, a basic element of the EECTI model, will promote, in line with EU guidelines, open access to research results, allowing data to be accessible, interoperable and reusable (FAIR). Dissemination in the scientific field, together with the efforts made by open repositories, will facilitate accessibility to scientific advances and promote scientific dissemination and communication to society, an objective that is pursued in the main Action Line 14.

Finally, the Health Research Institutes, as established in the **Royal Decree 279/2016**, of June 24, on its **Article 12**. *Technical Guide for the Evaluation of Accreditation of Biomedical or Health Research Institutes* and the subsequent Ministerial Order of April 12, 2019, approving this guide, must develop an Open Science policy that includes the mandate and incentives to promote open access to publications, in Open Access media and in recognized, standardized repositories compatible with the European infrastructure (e.g. OpenAire). IIS should also facilitate the open publication of data in standardized and recognized repositories in the discipline, such as the European Open Data Infrastructure EOSC (European Open Science Cloud).

Thus, in full commitment to these European and national provisions, INCLIVA includes in this document its institutional policy of Open Science with the aim of developing a scientific activity in a way and in compliance with the fundamental principles governing open science.

INCLIVA OPEN SCIENCE POLICY

In response of the above, INCLIVA includes below a series of commitments in order to achieve the objective of promotion unrestricted access to scientific results and the participation of citizens in research. These commitments have been elaborated taking into account the eight ambitions of the Open Science policy established by the European Commission:

1. **Open Data:** FAIR principles (*Findable, Accessible, Interoperable and Re-usable*) and open data by default for all publicly funded scientific research results.
2. **European Open Science Cloud (EOSC).** An ecosystem of research data infrastructures that allows the scientific community to share scientific results.
3. **New generation of metrics:** new indicators must be developed to complement the conventional ones for quality and impact research, as well as fairness for open science practices.
4. **Future of scholarly communication:** all peer-reviewed scientific publications should be open access, and the early exchange of different types of research results should be encouraged.
5. **Rewards:** research career evaluation systems should fully recognize open science activities.
6. **Research integrity:** all publicly funded research in the EU must adhere to research integrity standards.
7. **Education and abilities:** all scientists in Europe must have the necessary skills and support to apply scientific research routines and practices.
8. **Citizen science:** the general public should be able to make significant contributions and be recognized as a valid European producer of scientific knowledge.

Thus, the principles to which INCLIVA is committed in order to achieve the objectives mentioned are the following:

- Adherence to and signing of the Berlin Declaration on Free Access to Scientific Literature.
- Appoint an Open Science Commission with representation and proportionality with respect to the capabilities and entities that make up INCLIVA, considering the principles of gender equality.
- Promote the creation of research data management plans (DMPs).
- To offer support and recommendations to INCLIVA research about publication options in OA, copyright or Creative Commons licenses, etc.
- Promote the availability of data from publicly funded projects in open access in standardized and recognized open data repositories, following FAIR (Findable, Accessible, Interoperable and Reusable) principles.
- Encourage the implementation of transversal training activities in Open Science within the Institute in order to expand the culture and principles of open science among professionals.
- Promote the open publication of those results generated in research projects financed totally or partially with public funds. As well as facilitating preferably, the open publication of the scientific production generated in the Institute.
- To ensure the respect of copyrights, intellectual property and confidentiality within INCLIVA
- Encourage collaboration among the institutions that make the IIS in the strategy of publishing publications and data derived from R&I in open repositories.
- Encourage the participation of society at different levels of the research developed at the institute, as well as design and develop new strategies to open up this participation.