



## IIB Sant Pau Code of Good Practice in Research

Version 4

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IIB Sant Pau Code of Good Practice in Research  
Version 4

Versions

Version	Date	Modification
1	12/05/2009	Drafting of the Code of Good Scientific Practice
2	14/07/2010	New logo and coding of documentation according to ISCIII criteria
3	26/10/2015	Points 3, 4, 5, 8, 9, 14 and 15 are added to version 2 of the document
4	20/04/2022	Code of Good Scientific Practice updated and name changed to IIB Sant Pau Code of Good Practice in Research

Approvals

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Date: 20/04/2022	Date: 24/05/2022	Date: 19/05/2022	Date: 01/03/2023	Date: 12/12/2022

**Institutions comprising IIB SANT PAU Sant Pau**

**FUNDACIÓ DE GESTIÓ SANITÀRIA HOSPITAL DE LA SANTA CREU I SANT PAU**

[www.santpau.cat](http://www.santpau.cat)

**FUNDACIÓ INSTITUT DE RECERCA DE L'HOSPITAL DE LA SANTA CREU I SANT PAU**

<http://www.recercasantpau.cat/es>

**FUNDACIÓ PRIVADA HOSPITAL DE LA SANTA CREU I SANT PAU**

[www.fundacioprivada-santpau.cat](http://www.fundacioprivada-santpau.cat)

**FUNDACIÓ PUIGVERT**

[www.fundacio-puigvert.es](http://www.fundacio-puigvert.es)

**AGÈNCIA DE SALUT PÚBLICA DE BARCELONA**

[www.aspb.cat](http://www.aspb.cat)

**BANC DE SANG I TEIXITS**

[www.bancsang.net](http://www.bancsang.net)

**CENTRE COCHRANE IBEROAMERICÀ**

[www.cochrane.es](http://www.cochrane.es)

**EQUIP D'ATENCIÓ PRIMÀRIA SARDENYA**

[www.eapsardenya.cat](http://www.eapsardenya.cat)

**UNIVERSITAT AUTÒNOMA DE BARCELONA (UAB)**

[www.uab.cat](http://www.uab.cat)

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**Abbreviations**

**CBS:** Biosafety Committee

**CGPR-IIB Sant Pau:** IIB Sant Pau Code of Good Practice in Research

**CEEA:** Ethics Committee for Animal Research

**CEIm:** Ethics Committee for Investigation with Medicinal Products

**CIR:** Research Integrity Committee

**ESC:** External Scientific Committee

**GR:** Research Groups

**HR:** Human Resources

**HRS4R:** Human Resources Strategy for Researchers

**ICMJE:** International Committee of Medical Journal Editors

**IIB Sant Pau:** Sant Pau Biomedical Research Institute

**IR Sant Pau:** Research Institute

**IR Sant Pau:** Research Institute

**ISC:** Internal Scientific Committee

**eQRD:** Electronic data collection notebook

**OMG:** Genetically modified organisms

**QRD:** Data collection notebook

**RRI:** Responsible Research & Innovation

**R&I:** Research and Innovation

**SEA:** Animal Experimentation Service



## Introduction

In order to ensure excellence in scientific research within a culture of scientific integrity, the concept of Responsible Research & Innovation (RRI) is a crucial component. RRI is designed to strengthen links between the scientific community and stakeholders (civil society organisations, the educational and scientific community, policy decision-makers, and industry) to work closely together throughout the research and innovation process, thereby creating space for co-creation.

The Research Institute of the Hospital de la Santa Creu i Sant Pau , which is the managing body of the Sant Pau Biomedical Research Institute (IIB Sant Pau), belongs to CERCA Institution and thus adheres to the Code of Conduct developed by CERCA ([\*Codi de conducta de la Institució CERCA<sup>1</sup>\*](#)) and the guidelines of the [\*European Charter for Researchers<sup>2</sup>\*](#). These two documents serve as the basis for defining the roles and responsibilities of research personnel and institutions involved in the research process at our institution, and in accordance with the Human Resources Strategy for Researchers (HRS4R) seal of excellence awarded by the European Commission in 2015. The IIB Sant Pau Code of Good Practice in Research (CGPR-IIB Sant Pau) is a tool whose aim is to regulate scientific practices at our institution. All staff connected to the Institution must be aware of this code and adhere to the rules, recommendations, and commitments stipulated in the CGPR-IIB Sant Pau.

The contents of the present document should be considered a complement to all pertinent laws in force. The code presented here has been developed by the director of the RRI unit, and reviewed by the Internal and External Scientific Committees, the Scientific Director, and the Steering Committee at IIB Sant Pau.

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<sup>1</sup> [Codi de conducta CERCA, Institució CERCA, novembre 2018](#)

<sup>2</sup> [The European Charter for Researchers, European Commission, march 2005](#)

## **1. OBJECTIVES AND SCOPE OF THE DOCUMENT**

The objective of the Code is to establish guidelines for scientific research work at IIB Sant Pau. The CGPR-IIB Sant Pau is a collective regulation tool whose provisions must be followed by all researchers and staff. This document will be reviewed and updated regularly to ensure its continued validity.

The CGPR-IIB Sant Pau applies to all research staff, including trainees, technicians, and support personnel, regardless of the exact nature of their contract and connection with IIB Sant Pau. Likewise, it also applies to external researchers carrying out scientific activities at IIB Sant Pau. The content herein applies to all research projects managed by the Research Institute of Sant Pau Hospital as the managing organization of IIB Sant Pau.

Therefore, the CGPR-IIB Sant Pau forms part of the employment, affiliation, and/or collaboration relationship of the entities that comprise IIB Sant Pau.

Note that the code has been written using inclusive, non-sexist language. However, when gendered pronouns are used, these should be understood as neutral and inclusive.

## **2. DISSEMINATION, IMPLEMENTATION, AND MONITORING COMMITMENTS**

Once this document has been approved by IIB Sant Pau Steering Committee, representatives of the various institutions and agencies that comprise the Campus Sant Pau, together with the Scientific Director of IIB Sant Pau, shall sign a copy of the original document to indicate their commitment to follow the practices established herein. All of these institutions must ensure the dissemination and internal implementation of this code.

The management team at IIB Sant Pau, through the Institutional Communication Unit, commits to disseminate this code through the intranet and to make it publicly available on the IIB Sant Pau web site (<http://www.iibsantpau.cat>) to ensure that it can be freely consulted both internally and externally.

The management team at IIB Sant Pau, through the human resources (HR) department, will provide a copy of the Code as part of the IR-Sant Pau Welcome Handbook to all professionals who join the institution.



### 3. GENERAL PRINCIPLES OF THE SCIENTIFIC PRACTICE AT THE IIB SANT PAU

#### 3.1. Values, mission and vision

The key values of the Institute are as follows:

- Excellence
- Collaboration and multidisciplinary
- Transparency
- Efficiency
- Ethical and social commitment
- Responsibility
- Continuous improvement and innovation
- Flexibility and adaptability
- Transfer of knowledge

The IIB Sant Pau mission and vision are set out in the [Strategic Plan for Research and Innovation](#).

#### 3.2. Basic rules governing scientific practice

Given that research at the Institute is performed by researchers who belong to various different research groups, it must be governed by the principles of rigour, honesty, responsibility, transparency and confidentiality as set out in the [European Charter for Researchers](#)<sup>3</sup>. Likewise, it is imperative to foster a culture of cooperative research and collaboration between groups.

#### 3.3. Adhesion to the CERCA Code of Conduct

The Institute has been part of the Catalan system of research centres (CERCA) since 2011. In 2018, the Institute signed the CERCA Code of Conduct ([Codi de Conducta de la Institució CERCA](#)<sup>4</sup>), thus confirming its adherence to the decalogue of principles in that code of conduct.

#### 3.4. RRI

The IIB Sant Pau has an [RRI Plan](#) whose aim is to ensure that the processes and outcomes of R&I carried out at our institution are in alignment with the values, needs and expectations of European society, taking into account criteria such as ethics, sustainability, and social desirability.

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<sup>3</sup> [Carta Europea del Investigador, Comissió Europea, març 2005](#)

<sup>4</sup> [Codi de conducta CERCA, Institució CERCA, novembre 2018](#)

#### 4. RESEARCH ORGANIZATION

The IIB Sant Pau research organization has been established in the Internal Rules of Procedure ([Reglament de règim intern](#)) and Shared Scientific Project ([Projecte Científic Compartit](#)).

All research groups must have at least one person who is responsible for leading and publicly representing the group. For the research groups, this leader is required to have a PhD. One of the main functions of this person is to promote a working environment that encourages the exchange of knowledge, training, and skills development. This leader is expected to promote cooperation with other research teams, foster the exchange of ideas, and actively seek to establish new collaborations.

The IIB Sant Pau research groups must have a well-documented organisational structure that clearly states the research responsibilities of each member (including research trainees).

##### 4.1. Monitoring research trainees

The most important tasks of the research trainees are those related to the training process, and these tasks must be clearly specified. Trainees are responsible for carrying out the tasks assigned by their supervisor within established deadlines.

Research trainees have all the rights set out in the Student Statute ([Estatut de l'estudiant](#)<sup>5</sup>) **Assignment of a supervisor**

All personnel that join the Institution as a research trainee (undergraduates, postgraduates, masters or PhD students, etc.) will be assigned a supervisor, who will act as their reference person at the Institution. The supervisor must have a PhD and proven research experience.

##### 4.3. Responsibilities of supervisors

Supervisors are responsible for the following:

- Overseeing the research training programme and acting as an advisor to ensure that the programme meets all expectations and that the purpose is achieved within the established timeframe. The supervisor should strive to provide an optimal environment to maximise the trainee's future scientific capacities.

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<sup>5</sup> [Estatut de l'estudiant Universitari, desembre 2010](#)

- Considering both teaching and research activities in the training of doctoral students.
- Meeting regularly with trainees to monitor and supervise the completion of tasks, and to discuss new publications or relevant information related to ongoing research.
- Be responsive to the trainee, especially to ensure that the trainee is not asked to perform tasks unrelated to the planned training programme.
- Ensure that the trainee's working conditions are appropriate and comply with the CGPR-IIB Sant Pau.

#### **4.4. Limitations on the number of trainees per supervisor**

The maximum number of trainees per supervisor must be compatible with the supervisor's other obligations and commitments, and consistent with the group structure.

## **5. RESEARCH DEVELOPMENT**

### **5.1. Research project planning**

Planning of a research project is an essential part of the research process. All research that directly involves humans, animals, or embryonic source material must be previously planned and clearly described in writing (e.g., in the study protocol).

Depending on the specific project, various assessments (e.g., ethics, legal, and risks) must be considered. Similarly, the project must obtain approval from the relevant regulatory bodies to ensure compliance with ethical and safety issues (Ethics Committee for Animal Research [CEEA], Ethics Committee for Investigation with Medicinal Products [CEIm], and/or the Biosafety Committee [CBS]). No research project will be allowed to start until approval has been obtained from the relevant regulatory body.

### **5.2. Defining the research protocol**

A research protocol is a document that provides a detailed description of the project, including the study aims, methods, and research question. The protocol should contain all of the following:

- Members of the research team (researchers, or principal investigator [PI] and collaborators)
- Introduction explaining the research subject

- Background information (or the *State-of-the-art*)
- Hypothesis
- Study objectives
- Study population (samples/data for the project)
- Methodology (design, sample measure, N calculation, statistical methodology, etc.) and study variables
- Expected impact
- Human and material resources needed to carry out the project
- Bibliographic references
- Budget
- Data management plan (data collection and safeguards)
- Risk management plan (if necessary)
- Statistical analysis (if necessary)
- Tasks planning and study schedule
- Participant Information Document and Informed Consent Form (in human studies)
- Publishing rights and financial agreements (when necessary)
- Insurance policy (when necessary)
- CEIm, CEEA, and/or CBS approval (depending on the study population)
- Authorisation from the relevant regulatory body (or bodies)

The principal investigator is responsible for the project overall and also for ensuring that the objectives are met and that the resources (financial etc..) have been allocated properly.

### **5.3. Development and monitoring of research projects**

The project should follow the planned schedule. The methodology and results should be recorded in source documents (laboratory notebooks, CRF, eCRF, clinical history, medical records, working documents, or other documentary support).

### **5.4. Modification of the research project/protocol**

Any modification requiring new procedures or changes in study variables, sample size, objectives, or the intended use of the resulting biological and/or chemical material for purposes other than those described in the original protocol must be duly documented as a modification of the original project.

Modified protocols for research in humans, animals, or that involve biological material must adhere to established approval and authorisation procedures, regardless of whether the changes is considered significant or not.

### **5.5. Secret research**

Secret research is not permitted. However, it is important to differentiate secret research from research whose dissemination is temporarily limited for reasons of competitiveness, patentability, or confidentiality.

### **5.6. Collaborative projects**

When groups from different institutions participate in a research project, the scope and terms of the collaboration must be established in writing before starting the project.

The joint collaboration agreement must meet the usual requirements of a research agreement. In addition, this agreement shall: 1) clearly describe all aspects of the research plan expected to be carried out within the framework of the joint collaboration, 2) the criteria for updating studies, 3) the distribution of responsibilities, rights, and obligations of the participating groups and/or centres with regard to the results as well as storage and processing of data or samples; 4) a preliminary draft of how the results obtained will be presented and disseminated; 5) issues related to intellectual property; 6) rules for publishing results; and 7) any other potentially relevant issues, including possible commercial implications, financing, and conflict resolution.

## **6. RESEARCH PROJECTS INVOLVING WITH EXPERIMENTAL ANIMALS**

Anyone involved in the project who works with experimental animals must receive the appropriate training as stipulated by the pertinent regulatory authority.

Research involving animals must be conducted out responsibly in accordance with all current laws and regulations (Referenced in Annex 1) and meet all ethical requirements in place at the registered centre (SEA).

Whenever possible, the use of alternatives to experimentation on live animals shall be encouraged, following the three “Rs” principle: 1) Replacement of animals with other methods, 2) Reduction in the number of animals used, and 3) Refining experiments on animals to prevent or minimise pain and suffering.

### **6.1. Ethics Committee for Animal Research (CEEA)**

Research studies involving animals must first obtain approval from the CEEA and the competent authority.

## 7. HUMAN RESEARCH

Research projects involving human subjects (healthy volunteers or patients), or involving the collection of clinical data or biological samples, must follow the tenets of the [Declaration of Helsinki](#)<sup>6</sup> (last update, Fortaleza, Brasil 2013), and also comply with Spanish law ([Ley 14/2007 de 3 de julio de Investigación Biomédica](#))<sup>7</sup> and [Ley 41/2002 sobre Autonomía del paciente](#)<sup>8</sup>.

Clinical trials involving drugs or healthcare products must be conducted in accordance with the regulations of the European Union ([Regulation \(UE\) nº 536/2014 of 16 April 2014](#))<sup>9</sup> and Spanish law ([RD 1090/2015](#))<sup>10</sup>, which regulate clinical trials involving medicinal products. Observational studies should be conducted in accordance with Spanish law ([RD 957/2020](#))<sup>11</sup>.

It is strongly recommended that all researchers involved in clinical trials receive training in Good Clinical Practice (GCP), which includes international ethical and scientific quality requirements for the design, conduct, recording and reporting of trials involving human subjects, ensuring the protection of rights, safety, and well-being of the subjects involved.

For research studies involving patients, all members of the research team who are not involved in treating patients must collaborate fully with the treating physician and avoid interfering in any way with the treatment.

In all cases, the health and well-being of the participants in research studies shall be prioritised to maximise benefits and minimise risks.

### 7.1. Research Ethics Committee

Any research protocol that requires approval by a Research Ethics Committee (CEI) at the IR shall be evaluated by the CEIm of the Hospital de la Santa Creu i Sant Pau.

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<sup>6</sup> [Declaration of Helsinki](#)

<sup>7</sup> [Ley 14/2007, de 3 de julio, de Investigación biomédica](#)

<sup>8</sup> [Ley 41/2002, de 14 de noviembre, básica reguladora de la autonomía del paciente y de derechos y obligaciones en materia de información y documentación clínica.](#)

<sup>9</sup> [Regulation \(EU\) No 536/2014 of the European Parliament and of the Council of 16 April 2014 on clinical trials on medicinal products for human use, and repealing directive 2001/20/ec](#)

<sup>10</sup> [Real Decreto 1090/2015, de 4 de diciembre, por el que se regulan los ensayos clínicos con medicamentos, los Comités de Ética de la Investigación con medicamentos y el Registro Español de Estudios Clínicos.](#)

<sup>11</sup> [Real Decreto 957/2020, de 3 de noviembre, por el que se regulan los estudios observacionales con medicamentos de uso humano.](#)

Note that the other institutions that comprise the IIB Sant Pau all have their own CEIm within their institution for the evaluation and authorisation of research protocols.

## **7.2. Informed consent**

Prior to study enrolment, researchers shall clearly and transparently inform potential participants about the study aims and risks. The researchers must be available to answer any questions that potential participants may have. After the researcher have provided all relevant study-related information, subjects who agree to participate must first sign a written informed consent form provided by the researcher. This form must comply with all the current laws and regulations<sup>12</sup>. The informed consent form given the researcher the right to register, manage, process, and store data throughout the duration of the project.

This document must include contact details for the Data Protection Delegate of the corresponding institution at IIB Sant Pau. In addition, it must clearly state that the participant has the option to enforce the following rights: access, rectification, deletion, limitations on data processing, portability, and opposition (withdrawal of consent), and the right to request a copy of the form.

## **7.3. Confidentiality and personal data protection**

Research projects involving the collection and/or conservation of human biological samples must guarantee donor confidentiality and comply with all current legislation on the collection, storage, use, and disposal of biological samples.

Research projects involving the use of institutional information technology (IT) files or the creation of databases containing information on individuals must guarantee the participants data confidentiality. These files and databases are subject to current regulations for database registries.

All research projects at IIB Sant Pau involving in human participants must comply with the following laws and regulations: [Regulation \(EU\) 2016/679 of the European Parliament](#)<sup>13</sup>, [the Ley Orgánica 3/2018, de 5 de diciembre, de Protección de Datos](#)

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<sup>12</sup> [Real Decreto 1090/2015, de 4 de diciembre, por el que se regulan los ensayos clínicos con medicamentos, los Comités de Ética de la Investigación con medicamentos y el Registro Español de Estudios Clínicos.](#)

<sup>13</sup> [Regulation \(EU\) 2016/679 of the European Parliament and of the council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing directive 95/46/EC \(general data protection regulation\)](#)

[Personales y garantía de los derechos digitales](#)<sup>14</sup> and [Ley 14 / 2007 de 3 de julio de Investigación Biomédica](#)<sup>15</sup>.

## 8. OTHER RESEARCH

### 8.1. Research involving genetically modified organisms

Research involving genetically modified organisms must comply with Spanish law ([RD 178/2004](#))<sup>16</sup>, which approved the general regulation for the development and execution of the law ([Ley 9/2003 de 25 de Abril](#))<sup>17</sup>, which established the legal framework for the confined use, voluntary release, and commercialisation of genetically modified organisms. In addition, in these cases, any other applicable regulations must also be followed.

### 8.2. Research involving embryonic source material

Research projects involving the collection, processing or conservation of human embryonic source material or functionally similar cells must first obtain approval from the CEIm. Then, the researchers must request a report from the competent authorities (Committee on Guarantees) for the donation and use of human tissues and cells in accordance with the following laws: [Ley 14/2007, de 3 de julio de Investigación Biomédica](#)<sup>18</sup> and [RD 1527/2010](#)<sup>19</sup>.

### 8.3. Biosafety

Research projects involving the use of organisms or biological materials that may present a biological hazard will not be permitted without the consent of the Biosafety Committee (CBS). These measures also apply to the use of genetically modified organisms (OMG).

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<sup>14</sup> [Ley Orgánica 3/2018, de 5 de diciembre, de Protección de Datos Personales y garantía de los derechos digitales.](#)

<sup>15</sup> [Ley 14/2007, de 3 de julio, de Investigación biomédica.](#)

<sup>16</sup> [Real Decreto 178/2004, de 30 de enero, por el que se aprueba el Reglamento general para el desarrollo y ejecución de la Ley 9/2003, de 25 de abril, por la que se establece el régimen jurídico de la utilización confinada, liberación voluntaria y comercialización de organismos modificados genéticamente](#)

<sup>17</sup> [Ley 9/2003, de 25 de abril, por la que se establece el régimen jurídico de la utilización confinada, liberación voluntaria y comercialización de organismos modificados genéticamente.](#)

<sup>18</sup> [Ley 14/2007, de 3 de julio, de Investigación biomédica.](#)

<sup>19</sup> [Real Decreto 1527/2010, de 15 de noviembre, por el que se regulan la Comisión de Garantías para la Donación y Utilización de Células y Tejidos Humanos y el Registro de Proyectos de Investigación](#)



#### 8.4. Good laboratory practices

Non-clinical studies intended for health or environmental safety tests that may be reported to the regulatory authorities will be carried out in accordance with current legislation governing good laboratory practices<sup>20</sup>.

### 9. RESEARCH PROJECTS FUNDED BY NON-PROFIT ORGANISATIONS

#### 9.1. Transparency and general interest

The transfer or exchange of knowledge and technology with private entities must be done with complete transparency, ensuring that this transfer is in the public interest and that it complies with both Catalan ([Llei 19/2014 de transparència, accés a la informació pública i bon govern](#)<sup>21</sup>) and Spanish law, ([Ley 19/2013, de 9 de diciembre](#)<sup>22</sup>, [RD 919/2014](#)<sup>23</sup> and [Proyecto de RD por el que se aprueba el reglamento de desarrollo de la ley 19/2013, de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno](#)<sup>24</sup>)

#### 9.2. Industrial and intellectual property rights

Researchers who contribute significantly to the design and execution of a research project must inform their institution and obtain advice on technology transfer. Agreements involving financial compensation and transfer or exchange of knowledge and technology with private entities must comply with all aspects relative to industrial property rights and, if necessary, intellectual property rights. These agreements must be accessible to the institutions, committees, and people with responsibility for such matters.

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<sup>20</sup> [DIRECTIVA 2004/10/CE DEL PARLAMENTO EUROPEO Y DEL CONSEJO de 11 de febrero de 2004 sobre la aproximación de las disposiciones legales, reglamentarias y administrativas relativas a la aplicación de los principios de buenas prácticas de laboratorio y al control de su aplicación para las pruebas sobre las sustancias químicas](#)

<sup>21</sup> [Llei 19/2014 de transparència, accés a la informació pública i bon govern, desembre 2014](#)

<sup>22</sup> [Ley 19/2013, de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno.](#)

<sup>23</sup> [Real Decreto 919/2014, de 31 de octubre, por el que se aprueba el Estatuto del Consejo de Transparencia y Buen Gobierno.](#)

<sup>24</sup> [Proyecto de Real Decreto XX/2015 por el que se aprueba el reglamento de desarrollo de la ley 19/2013, de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno](#)

### 9.3. Dissemination of results

Researchers conducted externally-funded projects normally require access to confidential data from the sponsoring company or organisation. However, confidentiality agreements must not restrict the researchers' ability to publish new results, unless otherwise specified.

The results obtained through industry-sponsored research studies must be disseminated according to the terms agreed by the two parties to avoid bias in publications, to support transparency, and to ensure public benefit.

According to current regulations<sup>25</sup>, the sponsor of the research project is required to disclose the results, whether positive or negative. However, the researchers may disclose the results obtained prior to receiving authorisation from the sponsor.

### 9.4. Conflict of interest

Conflicts of interest are common in many human activities and research is no exception. Conflicts may arise when a scientist's opinion of a given research project could potentially be influenced by secondary interests. It is the individual's responsibility to recognise situations in which conflicts of interest may exist in order to properly manage these, by directly declaring the existence of a possible conflict, avoiding the conflict altogether (if possible), or resolving the conflict appropriately in accordance with the policies of the contracting companies, assessment bodies, or publisher.

### 9.5. Research data protection

Any transfer of data or material must be established by means of a specific agreement (ex: *Material Transfer Agreement, Data Transfer Agreement*).

## 10. RESEARCH FACILITIES

### 10.1. Equipment and facilities

All research facilities must be suitable for research work and must comply with all legal requirements. These facilities must be designed and built to ensure the safety of the people who work there and also the quality of the research results.

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<sup>25</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32021D1240&from=ES>

Equipment acquired by public funds must be labelled to indicate the source of the funds with an inventory number.

All facilities and equipment must receive regular maintenance and repair. When applicable, a verification and calibration plan for certain instruments should be implemented to ensure the reliability of measurements obtained with that equipment.

### **10.2. Use of external equipment and facilities**

Instruction manuals for all equipment must be made available to potential users. Access to these manuals shall be controlled by the person responsible for the equipment.

### **10.3. Information technology and IT equipment**

The people in charge of IT and related equipment must ensure the proper functioning and maintenance of the computer equipment provided by the IR to the research groups. This requirement refers to the machines, software, accounts, credentials, and passwords.

The use of IT equipment is restricted to research-related tasks. No personal use is allowed.

Any IT-related event, modification, installation or extension must be reported to the IT department by e-mail at: [IR\\_SISTEMESINFORMACIO@santpau.cat](mailto:IR_SISTEMESINFORMACIO@santpau.cat)

The institution is responsible for ensuring the confidentiality, integrity, and availability of all project-related data, including results.

## **11. RECORDING, DOCUMENTATION, STORAGE, SAFEKEEPING, USE OF DATA, AND USE OF BIOLOGICAL OR CHEMICAL MATERIAL OBTAINED FROM RESEARCH**

### **11.1. Specific data collection and preservation plan**

All research protocol must include a data management plan that how the data will be collected and recorded, as well as how the biological or chemical material obtained will be managed, including the storage, conservation, and use of these materials. Sample collection and preservation must comply with the laws, [Ley 14/2007 de 3 de julio de Investigación Biomédica](#)<sup>26</sup> and [RD 1716/2011](#)<sup>27</sup>. Particular attention should be paid to

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<sup>26</sup> [Ley 14/2007 de 3 de julio de Investigación Biomédica](#)

article 22 of RD 1716/2011, which refers to the storage and conservation of biological samples of human origin.

According to current legislation, samples intended for biomedical research can be obtained for the following purposes:

- Storage in a biobank as part of a collection of samples under a biobanking regime.
- Storage as a collection for biomedical research purposes outside the organisational scope of a biobank.
- Conservation for use in a research project; in this case, the samples can only be used specifically for the research project unless the subject has expressly given consent to allow the sample to be used in other research projects or lines of research; in this case, the samples must be stored in a biobank, or become part of a collection that is reported to the National Register of Biobanks for Biomedical Research.

Samples collected for specific purposes through a given line of research must be registered with the National Registry of Collections of the Carlos III Institute of Health. The principal investigator is legally responsible for ensuring the correct application of all pertinent regulations and for the proper management of the collection.

Samples stored in the biobank for genetic use will be managed by the biobank, a scientific platform offered as a public service, according to quality criteria and purpose. The biobank will ensure that resources managed by the scientific community are accessible.

### **11.2. Data registration and correction**

All data resulting from experimental and/or research work must be duly recorded in laboratory books, clinical histories, databases, eCRF, CRF or other formats that may be established.

These records must include the names of the people involved in obtaining the data. Any errors in these records, or negative, unexpected or discordant results should not be ignored. Any corrections made must be clear and identify the author.

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<sup>27</sup> [Real Decreto 1716/2011, de 18 de noviembre, por el que se establecen los requisitos básicos de autorización y funcionamiento de los biobancos con fines de investigación biomédica y del tratamiento de las muestras biológicas de origen humano, y se regula el funcionamiento y organización del Registro Nacional de Biobancos para investigación biomédica](#)

### **11.3. Data and sample preservation**

The principal investigator must be aware of how to properly custody and conserve biological or chemical material obtained from experiments and observations, as well as related documentation.

### **11.4. Safekeeping and access to data and samples**

All records related to study data or biological or chemical material obtained in the course of a research project must be accessible to all members of the research team. All members must provide information about the results obtained, how these were obtained, and the interpretation thereof.

All documentation and biological or chemical material obtained in the course of a research project will be kept in the strictest custody in accordance with the criteria established by the principal investigator and the institution.

The documentation resulting from a clinical trial (experimental and/or observational) is available in the clinical trial documentation management area (AGDAC), which contains all of the archives, thus facilitating compliance with the regulations<sup>28</sup> on document archiving.

### **11.5. Property of data and samples**

All documents related to biological or chemical samples obtained from the research project is subject to the governance and custody of the principal investigator's institution.

If a collaborating researcher moves to a new institution and needs access to the data obtained during their research activity, the principal investigator is authorised to provide a copy of all or part of the record books or electronic data. If the PI is the person switching institutions, the delivery of this documentation will be supervised by the management team.

In both cases, the transfer of aliquots and biological or chemical material to another institution shall be carried out in accordance with current legislation<sup>29</sup>.

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<sup>28</sup> [Real Decreto 1090/2015, de 4 de diciembre, por el que se regulan los ensayos clínicos con medicamentos, los Comités de Ética de la Investigación con medicamentos y el Registro Español de Estudios Clínicos](#)

<sup>29</sup> [Real Decreto 1716/2011, de 18 de noviembre, por el que se establecen los requisitos básicos de autorización y funcionamiento de los biobancos con fines de investigación biomédica y del tratamiento](#)

### **11.6. Sharing data and samples with third parties**

Data and material obtained from research must be public. If certain conditions are met, it can be shared with third parties, except when restrictions have been established for possible future commercialisation.

The transfer of material or data may be limited for reasons of availability, competitiveness, or confidentiality. Both material and data must be anonymized. A new informed consent form will be required for the transfer.

The transfer requires the following: 1) the person requesting the material must be qualified to make good use of the material, 2) the person who created the material must be aware of the transfer, 3) a transfer protocol must be in place and approved by the main researcher responsible for the material, and 4) the person or institution requesting the transfer must be willing to assume the possible costs of production and transfer.

### **11.7. Data and sample storage period**

All data obtained from research projects must be stored for at least 10 years from the time that the results are first released, unless the law requires a longer storage period (e.g., 25 years for clinical trials of drugs, according to the [RD 1090/2015](#)<sup>30</sup>). In some cases, the law may allow for shorter periods.

Regardless of the storage requirements indicated above, biological and chemical material used or obtained in the course of research cannot be destroyed within 10 years from the first release of the results. In some cases, the material must be kept for longer periods of time when required by law. In all cases, the signed consent of the donor is required.

The use of biological material must adhere to the regulation regarding the custody, treatment, and management of biological samples established by Spanish law ([RD 1716/2011](#))<sup>31</sup>.

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[de las muestras biológicas de origen humano, y se regula el funcionamiento y organización del Registro Nacional de Biobancos para investigación biomédica.](#)

<sup>30</sup> [Real Decreto 1090/2015, de 4 de diciembre, por el que se regulan los ensayos clínicos con medicamentos, los Comités de Ética de la Investigación con medicamentos y el Registro Español de Estudios Clínicos.](#)

<sup>31</sup> [Real Decreto 1716/2011, de 18 de noviembre, por el que se establecen los requisitos básicos de autorización y funcionamiento de los biobancos con fines de investigación biomédica y del tratamiento de las muestras biológicas de origen humano, y se regula el funcionamiento y organización del Registro Nacional de Biobancos para la investigación biomédica](#)

### **11.8. IIB Sant Pau Biobank**

The IIB Sant Pau Biobank ([biobanc@santpau.cat](mailto:biobanc@santpau.cat)), registration number B.0000722, is authorised as a Networked Biobank by the government of Catalonia. This biobank is the platform that stores (and makes available to the scientific community) all biological samples of human origin obtained at any of the various institutions that comprise the IIB Sant Pau. The IIB Sant Pau Biobank is a network biobank with two nodes, the IR-HSCSP node (the coordinating node), and the Puigvert Foundation node.

The IIB Sant Pau Biobank is operated in accordance with Spanish and European regulations as well as with national and international bioethics codes to which Spain adheres to.

The main aims of the IIB Sant Pau Biobank are to:

1. Identify, record, process, store, and manage **human biological samples, and to provide access to these materials** for biomedical research by research groups at IIB Sant Pau.
2. **Advise** research staff in matters related to the creation, management and design of collections of human samples and data, and related documentation.
3. Ensure the **quality and traceability of samples** and their related data, with the aim of promoting quality biomedical research.
4. Coordinate resources and promote **quality practices** with regards to biological samples of human origin and associated data.
5. Foster **scientific collaboration** between different research groups.
- 6.- Guarantee **respect** for fundamental **rights and freedoms, protect the dignity and identity** of donors, and ensure the accurate treatment of personal data.
- 7.- Offer the scientific community a wide **catalogue of standardised, high quality collections** of biological samples (collections within the scope of biobanks, according to RD1716/2011), with a wide diversity of pathologies in order to facilitate high quality **biomedical research**.
- 8.- Offer **ethical-legal advice** on the creation of new collections.
- 9.- Offer **scientific and technical advice** on the treatment of human biological samples.
- 10.- **Promote research that provides value to** donors, the scientific community, and **society**.

## **12. INTEGRITY IN RESEARCH**

In the process of performing research, researchers may make honest errors in the collection or interpretation of data. Of course, intentional misconduct may also occur.

In this case, the misconduct may be penalized if the behavior in question is considered to deviate from rigorous, responsible practices. Such behaviour would include violations of scientific integrity (e.g., plagiarism, misuse of funds, fabrication or falsification of data or results, incorrect authorship, misconduct, discrimination, abuse of power, etc...), which would be a breach of the rules established by the scientific community. Importantly, misconduct of this nature would severely damage the perceived reliability of the research process and research itself. The [ALLEA code](#)<sup>32</sup> is the European framework for scientific integrity, and adherence to this code is considered mandatory by the European Union.

When specific issues arise in relation to the Code of Good Research Practice, the research team should first address these issues before bringing them to the attention of the Research Integrity Committee (CIR).

For further guidance, please see the internal procedures that should be followed in case of suspected research misconduct.

### **12.1. Ombudsperson**

IIB Sant Pau has agreed to notify the CERCA Institute in the event of a significant conflict in scientific integrity. The IIB Sant Pau Ombudsperson is an independent, highly qualified person with a high level of personal integrity. The Ombudsperson has been appointed by the management team at IIB Sant Pau to mediate in all relevant breaches of scientific integrity. All research and technical staff can contact the Ombudsperson if necessary.

The Ombudsperson is required to act in strict confidentiality, discretion, and respect for the people alleged to be involved in misconduct. If the ombudsperson finds that the suspicion of misconduct is justified, he/she will ask the **CIR** to officially decide whether misconduct has taken place or not based on the available information. If deemed necessary, the Ombudsperson may set up an ad hoc committee comprised of experts in the specific research area to advise on the case.

Arbitration by the Ombudsperson and/or the CIR and/or the ad hoc committee may lead the IIB Sant Pau Management to coordinate with the CERCA Institute to determine the appropriate resolution of the case.

Once the reported facts have been established and misconduct has been confirmed, the Ombudsperson will issue a report. Then, the IIB Sant Pau management team will inform the senior management of the centre, which will determine the sanction to be

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<sup>32</sup> [The European Code of Conduct for Research Integrity](#)



applied. In international collaborations, the principles of the [Montreal Statement on Research Integrity in Cross-Boundary Research Collaborations will be applicable](#)<sup>33</sup>.

## **12.2. Research Integrity Committee**

The **Research Integrity Committee** is an independent body whose role is to foster knowledge and the internal adoption of the **CGPR-IIB**, as well as to assist in queries and arbitrate possible conflicts, with the assistance of the Ombudsperson when necessary.

The CIR was established at the request of the IIB Sant Pau Board of Directors. The CIR is comprised of members of the IIB Sant Pau. It is a permanent member of the CIR. The IIB Sant Pau Ombudsperson is the president of the CIR and the Ombuds officer (secretary).

The Ombudsperson, together with the Director of IIB Sant Pau, will choose up to five researchers from IIB Sant Pau with recognised authority in their field of expertise to join the CIR. The CIR is committed to gender parity, whenever possible. The term of office is 3 years, renewable for a maximum of one mandate, if deemed necessary.

The CIR is an independent committee overseeing research integrity among the research personnel affiliated with the CGPR-IIB. The main aim of the CIR is to support research quality and to help preserve its integrity. Both the Ombudsperson and the members of the CIR are required to respect the confidentiality and anonymity of all personal data and any other information received in the course of their work.

All communication with the Ombudsperson and/or the CIR should be done through the following e-mail address: [ombudsperson@santpau.cat](mailto:ombudsperson@santpau.cat), which is managed by the Ombudsofficer. In the event of questions or potential conflicts, an informal meeting can be arranged with the Ombudsperson or the Ombudsofficer before proceeding with any kind of formal communication to the CIR.

The functions of the CIR are as follows: 1) to promote the observance and fulfilment of the precepts included in the CGPR-IIB, 2) to act as an advisory and arbitration body for matters related to research integrity, 3) to start the protocol to investigate possible cases of scientific misconduct, 4) to inform and raise awareness among the scientific community at IIB Sant Pau about the events, needs, and guidelines related to the ethical and deontological aspects of biomedical research, 5) to be aware of and receptive to emerging issues related to research integrity, and 6) to recommend

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<sup>33</sup> [Montreal Statement on Research Integrity in Cross-Boundary Research Collaborations](#)

updates to the content of the CGPR-IIB to the Internal Scientific Committee at IIB Sant Pau.

### **13. HEALTH AND SAFETY, ENVIRONMENT, AND WASTE MANAGEMENT**

#### **13.1. Health and safety**

Research personnel must incorporate measures designed to prevent work-related risks in all areas of their activity. In addition, they must follow safe work practices at all times. Similarly, they must comply, and ensure compliance with, all pertinent legislation on the prevention of work-related risks<sup>34</sup>.

The Research Institute and Sant Pau Hospital have a joint risk prevention unit (SPM), which acts as the reference for various specialities, including occupational safety and medicine, industrial hygiene, ergonomics, and applied psychosociology.

Research staff and team members are required to provide complete, accurate information required by the risk prevention unit when conducting risk assessments in the workplace.

#### **13.2. Environment**

It is important to ensure that sustainability criteria are applied to resource supplies and services in order to minimise emissions and waste associated with our research activity. This is essential in order to meet the [sustainable development objectives](#) by the year 2023<sup>35</sup>.

In this regard, the new building of the Research Institute, inaugurated in October 2018, includes several features designed to protect the environment, most notably:

- Self-adjusting lights (LED) in offices, which automatically adapt to the intensity of the sunlight.
- Photovoltaic panels on the roof of the building.
- The use of rainwater for toilets.
- Green cover to increase the biodiversity of birds and insects around the building.

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<sup>34</sup> [Ley 31/1995, de 8 de noviembre, de prevención de Riesgos Laborales](#)

<sup>35</sup> [ODS 2030](#)

### 13.3. Waste management

The *Fundació Gestió Sanitària de l'Hospital de la Santa Creu i Sant Pau* and the *Fundació Institut de Recerca* have implemented an intracentre Waste Management Plan designed to minimise waste. This plan regulates all aspects of waste management, including segregation, collection, packaging, transport, treatment and disposal of healthcare waste. The aim of the plan is to ensure that the most suitable measures are applied within a framework of sustainability, health, and safety, in compliance with current legislation in Catalonia<sup>36</sup> and Spain<sup>37</sup>.

## 14. AUTHORSHIP AND INTELLECTUAL PROPERTY

### 14.1. Authorship

The status of author does not depend on the profession or rank of the researcher, nor on the nature of the employment relationship, but rather on the contribution to the research work according to the four criteria recommended by the [ICMJE](#) as follows<sup>38</sup>: 1) have contributed significantly to the creation or design of the paper, or to the acquisition, analysis or interpretation of the data, 2) have participated in the drafting of the paper or the critical review of its intellectual content in a significant way, 3) have given their final approval of the version to be published, 4) have agreed to be responsible for all aspects of the article to ensure that questions relating to the accuracy or integrity of any part of the work are properly substantiated and resolved, and the paper is ready for submission, and 5) have contributed to the preparation of the any related communications and publications.

All authors of a publication must approve the text and assume responsibility for the content. For these reasons, the specific contributions of each author should be declared whenever possible.

### 14.2. Shared lead authorship

When two or more authors have equally contributed to the research and/or the drafting of the manuscript, they will be considered co-first authors and should be identified as such in the article.

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<sup>36</sup> [Decret 27/1999, de 9 de febrer, de la gestió dels residus sanitaris](#)

<sup>37</sup> [Ley 7/2022, de 8 de abril de residuos y suelos contaminados para una economía circular](#)

<sup>38</sup> [The International Committee of Medical Journal Editors](#)

### **14.3. Order of authorship and author's contribution**

The order of authorship should generally be determined according to the following criteria: 1) the first author is the person who has made the greatest contribution to the research project, 2) the last author is the senior researcher who leads the research project and has overall responsibility for the study, 3) the remaining authors are those that have contributed and participated in the study, and are usually listed in order of their contributions and/or in alphabetical order 4) the corresponding author is the person mainly responsible for the writing and editing process and for future interactions related to the publication.

Research trainees should have the opportunity to be first authors during their training period, if their advisor considers it appropriate.

Whenever possible, and when the publication guidelines require this, the individual contributions of each author should be defined to indicate the researcher's involvement in the project.

The inclusion of an individual as an author ex officio (i.e., due to his or her position or employment relationship and association with the research group) is considered a breach of academic freedom and the principle of fairness. By contrast, the omission of someone who has contributed to a publication resulting from a research project implies an undue appropriation of intellectual authorship.

### **14.4. Acknowledgments**

Funding organisations must be mentioned in the acknowledgements (or equivalent) in any scientific publication arising from a research project. This inclusion is important to recognize and validate the funding source. In any case, all publications should explicitly mention the support received from the CERCA/*Generalitat de Catalunya* programme and its structural support for research centres in Catalonia.

Any other organisation, person, or scientific-technical service that has contributed to the publication and is not listed as a co-author can be included in the acknowledgements.

### **14.5. Affiliation**

The affiliations of all authors must be stated, including the institutions and centres where the research was carried out.

IIB Sant Pau researchers must clearly state in all publications that they are affiliated with IIB Sant Pau, in accordance with IIB Sant Pau policies regarding affiliation. The

researchers may also indicate other relevant affiliations (i.e., department, centre, research institute, collaborative centres, or universities).

#### **14.6. Curriculum vitae**

The *curriculum vitae* (CV) should detail the author's personal data, education & training, and professional experience. The author is responsible for the accuracy of the content. In this regard, all pages of the CV should be signed or initialled.

The research staff are required to keep their centre informed of their professional activity by updating their personal CV using the tools provided by their centre.

#### **14.7. Intellectual Property**

The IIB Sant Pau published a regulation on intellectual and industrial property, ([Normativa sobre la Propietat Intel·lectual i Industrial](#)), which has been approved by the Board of Trustees. This order regulates the results of research carried out at the Institute, establishing rules for the exploitation and distribution of any profits arising from the research. The Institute has also developed rules to regulate the creation of spin-offs ([Reqlament de creació d'empreses Spin-off](#)), which has also been approved by the Board of Trustees.

#### **14.8. Communication, dissemination, and publication of results**

The dissemination of research results (whether positive or negative, or unexpected) can be considered the culmination of the research process. In fact, dissemination of research findings is an essential part of the research process to make the knowledge obtained widely available. Researchers and/or principal investigators must make all reasonable efforts to disseminate their research findings, both in writing and orally, in forums (congresses, seminars, conferences, and/or scientific meetings) targeted at the scientific community as well as for society. Reporting of results should be done in a manner that is easily understandable for non-experts in order to foster a better understanding of science. In particular, senior researchers should strive to ensure that their research efforts are productive and that the results are widely disseminated and commercially exploited to the extent possible.

The IIB Sant Pau has developed and approved the *Responsible Research and Innovation Plan*, which describes the guidelines established by the institution with regard to open access data and publications. The aim of this plan is to follow the FAIR (Findable, Accessible, Interoperable and Reusable) principles for the management of scientific

data. In this regard, the publication of clinical trial results is regulated by European regulations established on January 31, 2022<sup>39</sup>.

Prior to dissemination of research results that may be subject to intellectual and/or industrial property rights, researchers must notify the Innovation and Transfer Unit to ensure that all pertinent rights are protected. The dissemination or publication of results without prior approval is only permitted under highly exceptional situations, such as for public health reasons.

The publication of research findings must include an explicit statement of the following: 1) the institutions or centres to which the authors is affiliated and where the research was carried out; 2) the independent ethics committee(s) that supervised the research protocol, as well as pertinent authorisations issued by the authorities; 3) any conflict of interest, financial support, or any other sort of sponsorship received, regardless of whether the support only partially or completely covered the research costs, as well as financial support for individual authors; 4) any other type of conflict of interest.

#### **14.9. Practise of expert review (*peer review*)**

This refers to any review process in which a researcher is recruited as an expert to evaluate any type of scientific documents, including manuscripts, reports, projects, or protocols.

These reviews should be objective, based on scientific criteria and not on personal opinions or ideas. The researcher should refuse the offer to review if there is any conflict of interest. The review should be performed rigorously and diligently, while maintaining confidentiality, impartiality, objectivity, and independence.

Given that many documents reviewed are confidential and may contain sensitive information, it would be advisable for reviewers to sign a confidentiality agreement.

Accordingly, this documentation:

- a) cannot be used for the benefit of the reviewer, at least until the information has been published.
- b) cannot be shared without the explicit permission of its owner.

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<sup>39</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32021D1240&from=ES>

## ANNEX 1. LEGISLATION AND REGULATIONS

### ➤ Research performed with genetically modified organisms

- Ley 9/2003, de 25 de abril, por la que se establece el régimen jurídico de la utilización confinada, liberación voluntaria y comercialización de organismos modificados genéticamente (BOE núm. 100, de 26 de abril, <https://www.boe.es/eli/es/l/2003/04/25/9>)
- Real Decreto 178/2004, de 30 de enero por el que se aprueba el Reglamento general para el desarrollo y ejecución de la Ley 9/2003, de 25 de abril, por la que se establece el régimen jurídico de la utilización confinada, liberación voluntaria y comercialización de organismos modificados genéticamente (BOE núm. 27, de 31 de enero, <https://www.boe.es/eli/es/rd/2004/01/30/178>)

### ➤ Research with embryonic source material

- Ley 14/2007, de 3 de julio, de Investigación biomédica (BOE núm. 159, de 4 de julio, <https://www.boe.es/eli/es/l/2007/07/03/14>)
- Real Decreto 1527/2010, de 15 de noviembre, por el que se regulan la Comisión de Garantías para la Donación y Utilización de Células y Tejidos Humanos y el Registro de Proyectos de Investigación (BOE núm. 294, de 4 de diciembre, <https://www.boe.es/eli/es/rd/2010/11/15/1527>)

### ➤ Research with experimental animals

- Decret 164/98, de 8 de juliol, de modificació del Decret 214/1997, de 30 de juliol, pel qual es regula la utilització d'animals per a experimentació i altres finalitats científiques. (DOGC nº 2680 de 14 de juliol, <https://portaljuridic.gencat.cat/eli/es-ct/d/1998/07/08/164>)
- Decret 214/1997, de 30 de juliol, pel qual es regula la utilització d'animals per a experimentació i per a altres finalitats científiques (DOGC 2.450, de 7 d'agost de 1997, <https://portaljuridic.gencat.cat/eli/es-ct/d/1997/07/30/214>)
- Decret 286/1997, de 31 de octubre, de modificació del Decret 214/1997, de 30 de juliol, pel qual es regula la utilització d'animals per a experimentació i per a altres finalitats científiques. (DOGC nº 2518 de 14 de novembre, <https://dogc.gencat.cat/ca/document-del-dogc/?documentId=160573>)

- Decreto Legislativo 2/2008, de 15 de abril, por el que se aprueba el Texto refundido de la Ley de protección de los animales. (DOGC núm. 5113, de 17 de abril, <https://www.boe.es/buscar/doc.php?id=DOGC-f-2008-90016>)
- [Directiva 2010/63/UE del Parlamento Europeo](#) y del Consejo de 22 de septiembre de 2010, relativa a la protección de los animales utilizados con fines científicos se transpuso en parte en febrero de 2013 con el [Real Decreto 53/2013](#), de 1 de febrero, por el que se establecen las normas básicas aplicables para la protección de los animales utilizados en experimentación y otros fines científicos, incluyendo la docencia, y se completó con la modificación de la Ley 32/2007, de 7 de noviembre, para el cuidado de los animales, en su explotación, transporte, experimentación y sacrificio, mediante la Ley 6/2013 de 11 junio (BOE núm. 140, de 12 de junio, <https://www.boe.es/eli/es/l/2013/06/11/6>)
- Llei 5/1995, de 21 de juny, de protecció dels animals utilitzats per a experimentació i per altres finalitats científiques. (DOGC nº 2073 de 10 de juliol, <https://portaljuridic.gencat.cat/eli/es-ct/l/1995/06/21/5>)
- Orden ECC/566/2015, de 20 de marzo, por la que se establecen los requisitos de capacitación que debe cumplir el personal que maneje animales utilizados, criados o suministrados con fines de experimentación y otros fines científicos, incluyendo la docència (BOE núm. 78, de 1 de abril, <https://www.boe.es/eli/es/o/2015/03/20/ecc566>)
- Real Decreto 1386/2018, de 19 de noviembre, por el que se modifica Real Decreto 53/2013, de 1 de febrero, por el que se establecen las normas básicas aplicables para la protección de los animales utilizados en experimentación y otros fines científicos, incluyendo la docència (BOE núm. 280, de 20 de noviembre, <https://www.boe.es/eli/es/rd/2018/11/19/1386>)



➤ **Human research**

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- Decret 406/2006, de 24 d'octubre, pel qual es regulen els requisits i el procediment d'acreditació dels comitès d'ètica d'investigació clínica. DOGC núm. 4748, p. 44904. Departament de Salut de la Generalitat de Catalunya. [https://medicaments.gencat.cat/ca/detalls/Article/10decret\\_dacreditacio\\_dels\\_comites\\_detica\\_dinvestigacio\\_clinica\\_a\\_Catalunya](https://medicaments.gencat.cat/ca/detalls/Article/10decret_dacreditacio_dels_comites_detica_dinvestigacio_clinica_a_Catalunya)
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- Real Decreto 477/2014, de 13 de junio, por el que se regula la autorización de medicamentos de terapia avanzada de fabricación no industrial. (BOE núm. 144, de 14 de junio, [https://www.boe.es/diario\\_boe/txt.php?id=BOE-A-2014-6277](https://www.boe.es/diario_boe/txt.php?id=BOE-A-2014-6277)).
- Real Decreto Legislativo 1/2015, de 24 de julio, por el que se aprueba el texto refundido de la Ley de garantías y uso racional de los medicamentos y productos sanitarios. (BOE núm. 177, de 25 de julio, <https://www.boe.es/eli/es/rdlg/2015/07/24/1/con>).

- Reglamento (UE) n °536/2014 del Parlamento Europeo y del Consejo, de 16 de abril de 2014, sobre los ensayos clínicos de medicamentos de uso humano. [https://ec.europa.eu/health/system/files/2016-11/reg\\_2014\\_536\\_en\\_0.pdf](https://ec.europa.eu/health/system/files/2016-11/reg_2014_536_en_0.pdf)

- COMMISSION DECISION (EU) 2021/1240 of 13 July 2021 on the compliance of the EU portal and the EU database for clinical trials of medicinal products for human use with the requirements referred to in Article 82(2) of Regulation (EU) No 536/2014 of the European Parliament and of the Council. <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32021D1240&from=ES>

➤ **Biobank/ Human biological samples**

- Decret 234/2013, de 15 d'octubre, pel qual es regulen l'autorització per a la constitució i el funcionament dels biobancs amb fins de recerca biomèdica a Catalunya i de la Xarxa Catalana de Biobancs. (DOGC núm. 6482, de 17 d'octubre, <https://portaljuridic.gencat.cat/eli/es-ct/d/2013/10/15/234>)

- Real Decreto 1716/2011, de 18 de noviembre, por el que se establecen los requisitos básicos de autorización y funcionamiento de los biobancos con fines de investigación biomédica y de tratamiento de las muestras biológicas de origen humano, y se regula el funcionamiento y organización del Registro Nacional de Biobancos para investigación biomédica. (BOE núm. 290, de 02 de diciembre, <https://www.boe.es/eli/es/rd/2011/11/18/1716>).

➤ **Labour protection**

- Ley 31/1995, de 8 de noviembre, de prevención de riesgos laborales. (BOE núm. 269, de 10 de noviembre <https://www.boe.es/eli/es/l/1995/11/08/31/con>).

- Ley 54/2003, de 12 de diciembre, de reforma del marco normativo de la prevención de riesgos laborales (BOE núm. 298, de 13 de diciembre, <https://www.boe.es/eli/es/l/2003/12/12/54>).

- Real Decreto 664/1997, de 12 de mayo, sobre la protección de los trabajadores contra los riesgos relacionados con la exposición a agentes biológicos durante el trabajo o Guía técnica para la evaluación y prevención de los riesgos relacionados con la exposición a agentes biológicos. (BOE núm. 124, de 24 de mayo <https://www.boe.es/eli/es/rd/1997/05/12/664/con>).

- Real Decreto 665/1997, de 12 de mayo, sobre la protección de los trabajadores contra los riesgos relacionados con la exposición a agentes cancerígenos durante el Trabajo (BOE núm. 124, de 24 de mayo, <https://www.boe.es/eli/es/rd/1997/05/12/665/con>).

➤ **Environment protection**

- Decret 27/1999, de 9 de febrer, de la gestió dels residus sanitaris. (DOGC núm. 2828, de 16 de febrer, <https://portaljuridic.gencat.cat/eli/es-ct/d/1999/02/09/27>)
- Ley 7/2022, de 8 de abril de residuos y suelos contaminados para una economía circular (BOE núm. 85, de 09 de abril, <https://www.boe.es/eli/es/l/2022/04/08/7/con>).
- Ley 9/2003, de 25 de abril, sobre la utilización confinada, liberación voluntaria y comercialización de organismos modificados genéticamente (BOE núm. 100, de 26 de abril, <https://www.boe.es/eli/es/l/2003/04/25/9>).

➤ **Data protection**

- Ley Orgánica 3/2018, de 5 de diciembre, de Protección de Datos Personales y garantía de los derechos digitales. Disponible a: <https://www.boe.es/eli/es/lo/2018/12/05/3>
- Reglamento Europeo de Protección de Datos (RGDP 2016/679). Disponible a: <https://www.boe.es/doue/2016/119/L00001-00088.pdf>

➤ **Other legal regulations**

- Directiva 2004/10/CE del Parlamento Europeo y del Consejo, de 11 de febrero de 2004, sobre la aproximación de las disposiciones legales, reglamentarias y administrativas relativas a la aplicación de los principios de buenas prácticas de laboratorio y al control de su aplicación para las pruebas sobre las sustancias químicas ([https://www.aemps.gob.es/industria/inspeccionBPL/docs/Directiva\\_2004\\_10\\_CE.pdf?x85293](https://www.aemps.gob.es/industria/inspeccionBPL/docs/Directiva_2004_10_CE.pdf?x85293))
- Ley 19/2013, de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno. Disponible a: <https://www.boe.es/eli/es/l/2013/12/09/19>
- Llei 19/2014 de transparència, accés a la informació pública i bon govern, desembre 2014. (DOGC núm. 6780, de 31 de desembre, <https://portaljuridic.gencat.cat/eli/es-ct/l/2014/12/29/19>)
- Proyecto de Real Decreto por el que se aprueba el reglamento de desarrollo de la ley 19/2013, de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno. Disponible a:

[https://governobert.gencat.cat/web/.content/01\\_Que\\_es/05\\_Normativa/Proyecto RD Ley 19-2013.pdf](https://governobert.gencat.cat/web/.content/01_Que_es/05_Normativa/Proyecto_RD_Ley_19-2013.pdf)

- Real Decreto 919/2014, de 31 de octubre, por el que se aprueba el Estatuto del Consejo de Transparencia y Buen Gobierno. Disponible a: <https://www.boe.es/eli/es/rd/2014/10/31/919>



## **ANNEX 2. INTERNAL DOCUMENTATION**

Guidelines to ensure use of non-sexist language  
Guidelines for the prevention of sexual harassment  
Employee Handbook  
Affiliation Regulations  
Intellectual and Industrial Property Regulations  
Equality Plan  
Waste Management Plan  
Responsible Research and Innovation Plan  
Strategic Plan for Research and Innovation  
Procedure in case of suspected misconduct  
Shared Scientific Project  
Regulations for the creation of SPIN-OFF  
Regulations for the functioning of the Equality Committee  
Internal Regulations  
CEEA Regulations  
CEIm Regulations  
Regulations of the Integrity Committee for Research  
Rules of the Biosafety Committee  
Biobank Internal Regulations

### ANNEX 3. OTHER REFERENCE DOCUMENTATION

- Camí i Morell, Jordi; López-Botet, Miguel; Beato, Miguel. Codi de bones pràctiques científiques. *Annals de medicina*, 2003, Vol. 86, Núm. 1, p. 44-49, <https://raco.cat/index.php/AnnalsMedicina/article/view/143562> [Consultat: 29-04-2021].
- Carta Europea de l'Investigador, Comissió Europea, març 2005. Disponible a: [https://cdn5.euraxess.org/sites/default/files/brochures/eur\\_21620\\_es-en.pdf](https://cdn5.euraxess.org/sites/default/files/brochures/eur_21620_es-en.pdf)
- Codi de conducta CERCA. Institució CERCA, novembre 2018. Disponible a: [https://cerca.cat/wp-content/uploads/2018/11/Codi-de-conducta-CERCA\\_nov2018.pdf](https://cerca.cat/wp-content/uploads/2018/11/Codi-de-conducta-CERCA_nov2018.pdf)
- Estatut de l'estudiant Universitari, desembre 2010. Disponible a: [https://www.boe.es/boe\\_catalan/dias/2010/12/31/pdfs/BOE-A-2010-20147-C.pdf](https://www.boe.es/boe_catalan/dias/2010/12/31/pdfs/BOE-A-2010-20147-C.pdf)
- Montreal Statement on Research Integrity in Cross-Boundary Research Collaborations (2013). Disponible a: <https://wcrif.org/montreal-statement/file> [Consultat 30 maig 2021].

**ANNEX 4. DOCUMENTS CONSULTED FOR THE PRESENT UPDATE TO THIS CODE OF GOOD PRACTICE IN RESEARCH**

- IISPV Code of Good Scientific Practice (reviewed 2014).
- IMIM Code of Good Scientific Practice (reviewed 2007).
- PRBB Code of Good Scientific Practice (reviewed 2014).
- UAB Code of Good Practice in Research (2020).
- Universitat Rovira i Virgili Code of Good Practice in Research, Research Training, Development and Innovation (2013).
- CSIC Code of Good Scientific Practice (reviewed 2021).
- Guide of good practice in research in health sciences of the ICS (reviewed 2015).
- Guide of Good Practice in Health Sciences Research IDIBELL (reviewed 2019).

