



Financiado por



Integrado en



Certificado por



BIOBANCO SSPA PROYECTOS EUROPEOS Y PRB2



Biobanco del Sistema Sanitario Público de Andalucía
CONSEJERÍA DE IGUALDAD, SALUD Y POLÍTICAS SOCIALES

Málaga Noviembre 2016



Financiado por



STEM CELL LINES NATIONAL BANK

Integrado en



Certificado por



PRB²

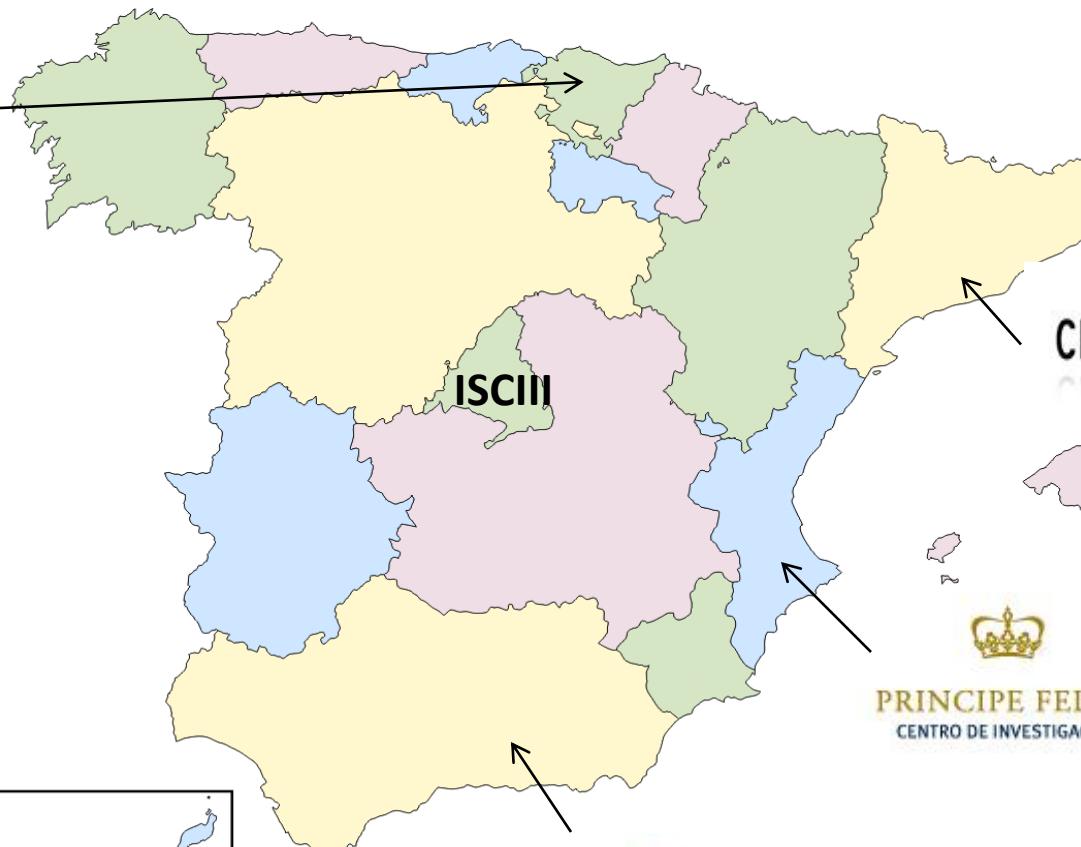


Biobanco del Sistema Sanitario Público de Andalucía
CONSEJERÍA DE IGUALDAD, SALUD Y POLÍTICAS SOCIALES

REPORT OF ACTIVITIES

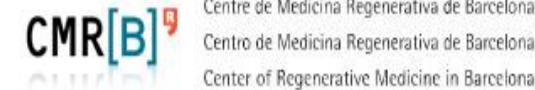
- 1. Background**
- 2. Available sample collections**
- 3. Quality control measures**
- 4. Additional services**
- 5. Training courses**
- 6. Dissemination activities and publications**
- 7. International projects**

BACKGROUND



Banco Nacional de Líneas Celulares: BNLC

- Cuatro nodos: Catalunya, Euskadi, C
Valenciana y Andalucía (Nodo
Coordinador)
- Dirección: ISCIII
- Actividades (mandato legal):
Preservación, expansión y cesión de
líneas celulares troncales
- Actividad dependiente de la revisión de solicitudes y
autorización previa de la Comisión de Garantías y la
Comisión Técnica del Banco



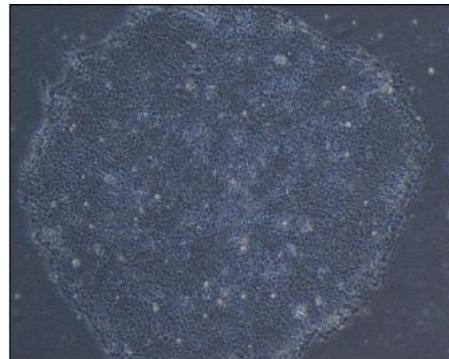
Centre de Medicina Regenerativa de Barcelona
Centro de Medicina Regenerativa de Barcelona
Center of Regenerative Medicine in Barcelona

Banco Nacional de Líneas Celulares. BNLC. Depósito y Acceso a las Líneas



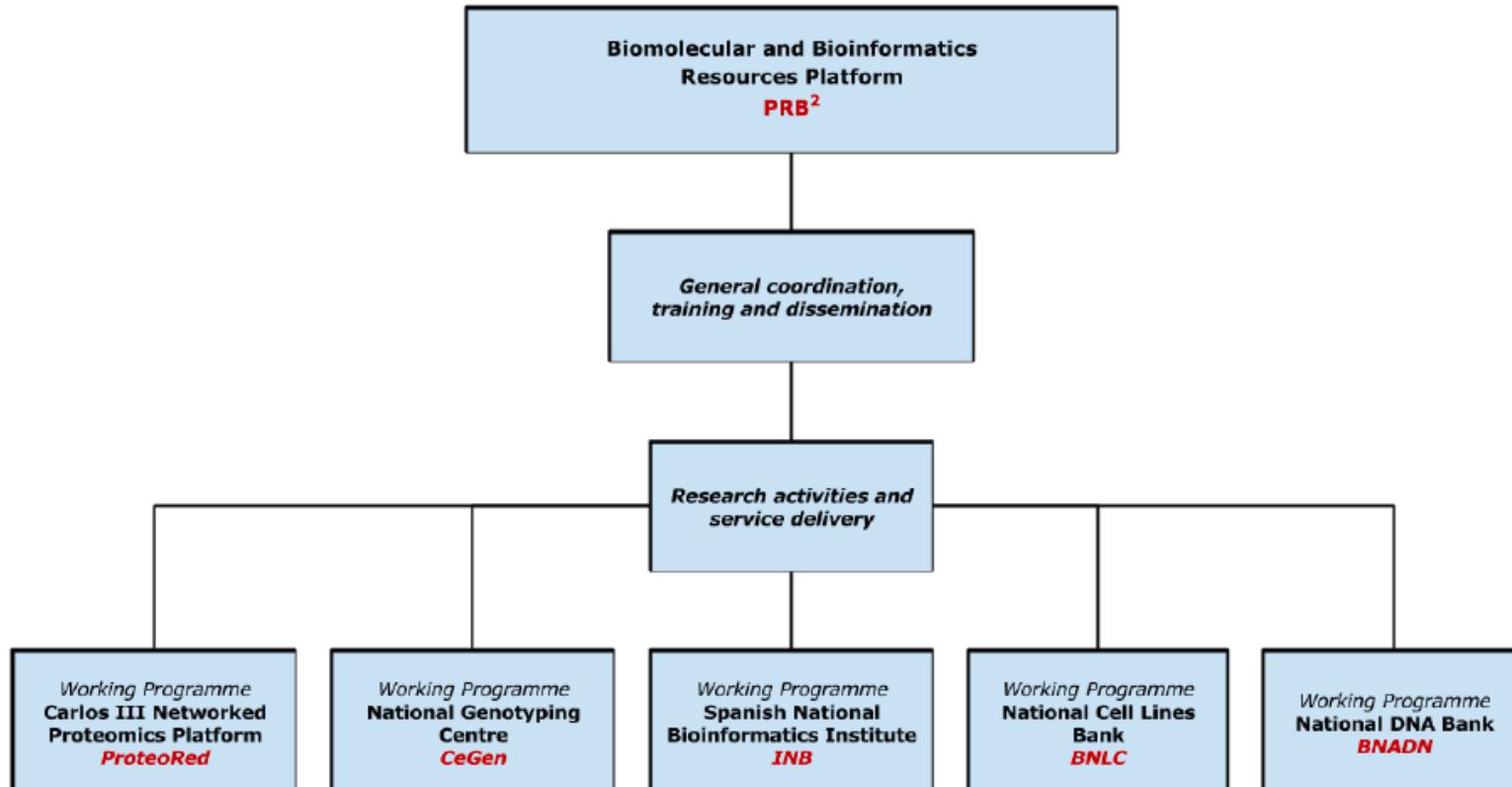
CMR[B]⁹
Centre de Medicina Regenerativa de Barcelona
Centro de Medicina Regenerativa de Barcelona
Center of Regenerative Medicine in Barcelona

- Proyectos que pueden llegar a desarrollar líneas celulares pluripotentes: **Comisión de Garantías**
- Proyectos que necesitan usar líneas del BNLC: **Comisión de Garantías y Comisión Técnica del BNLC**
- En Andalucía: **Comisión Homóloga**





Welcome to the
Plataforma en Red de Recursos Biomoleculares y Bioinformáticos, PRB²
(Biomolecular and Bioinformatics Resources Platform).



Banco Nacional de Líneas Celulares

Oportunidades de Progresión dentro de la plataforma PRB2

- Interconexión y cooperación
- Protocolización y sistemática común de trabajo
- Ampliación de la cartera de servicios. Apoyo a la Investigación biomédica
- Contactos con otras plataformas/unidades/consorcios
- Participación conjunta en proyectos (nacionales/Internacionales)

REPORT OF ACTIVITIES

1. Background

2. Available sample collections

3. Quality control measures

4. Additional services

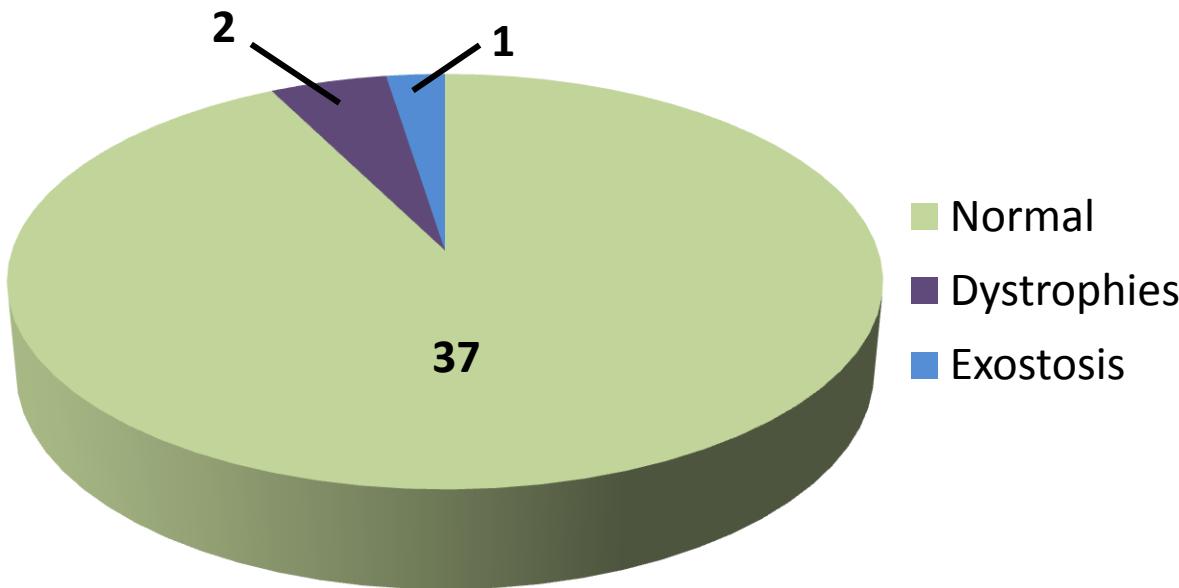
5. Training courses

6. Dissemination activities and publications

7. International projects

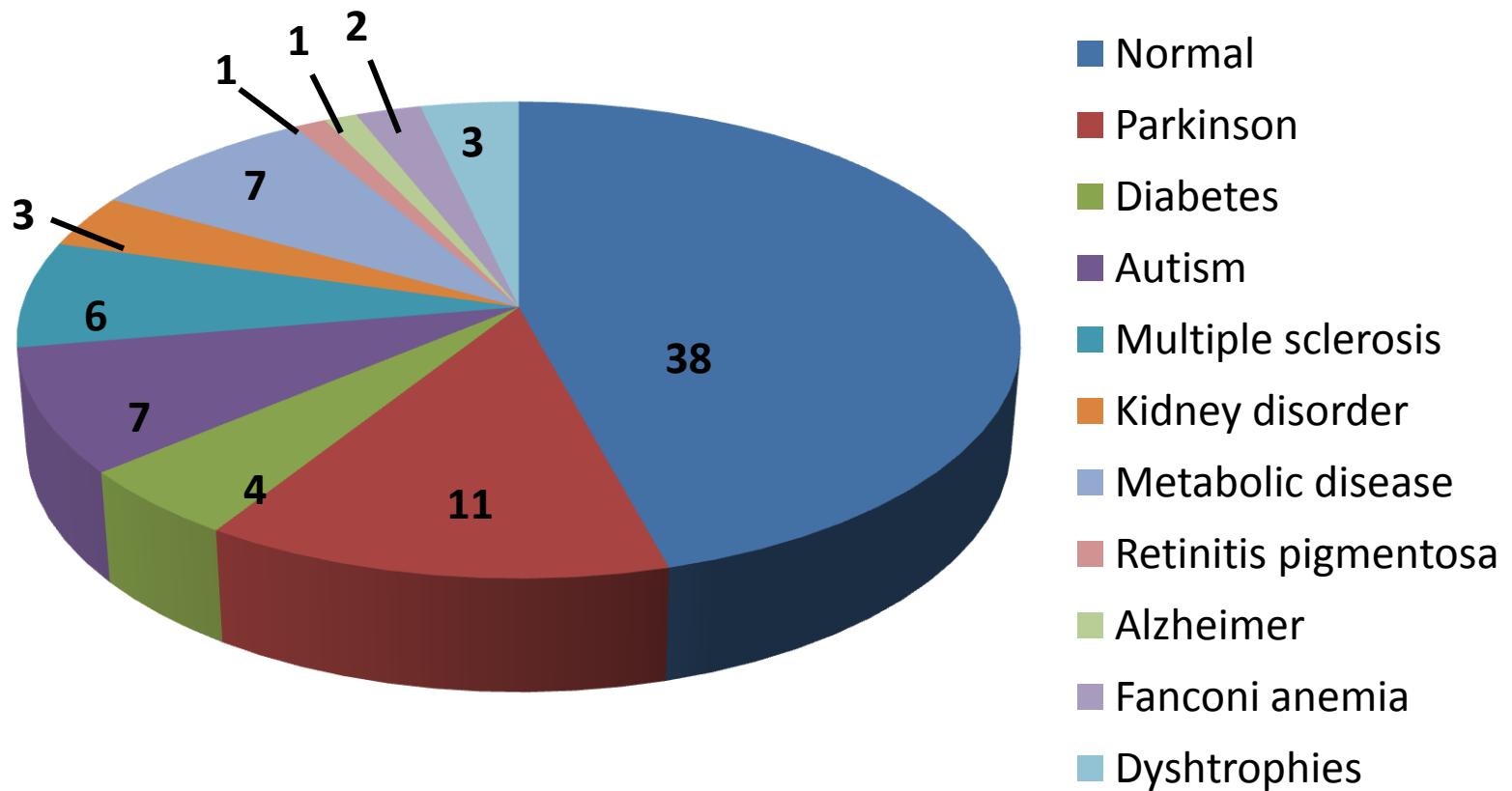
AVAILABLE SAMPLE COLLECTIONS

hESCs (n = 39)



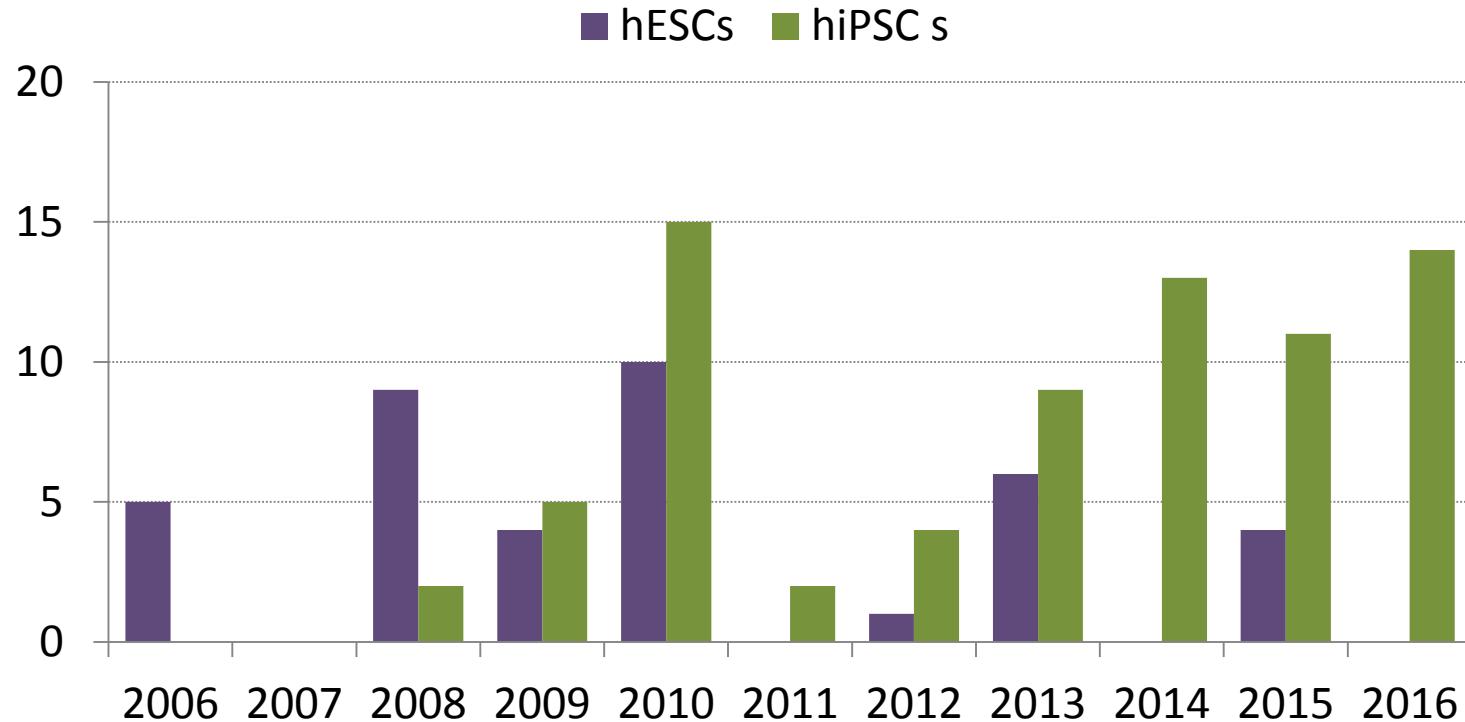
AVAILABLE SAMPLE COLLECTIONS

hiPSCs (n = 83)



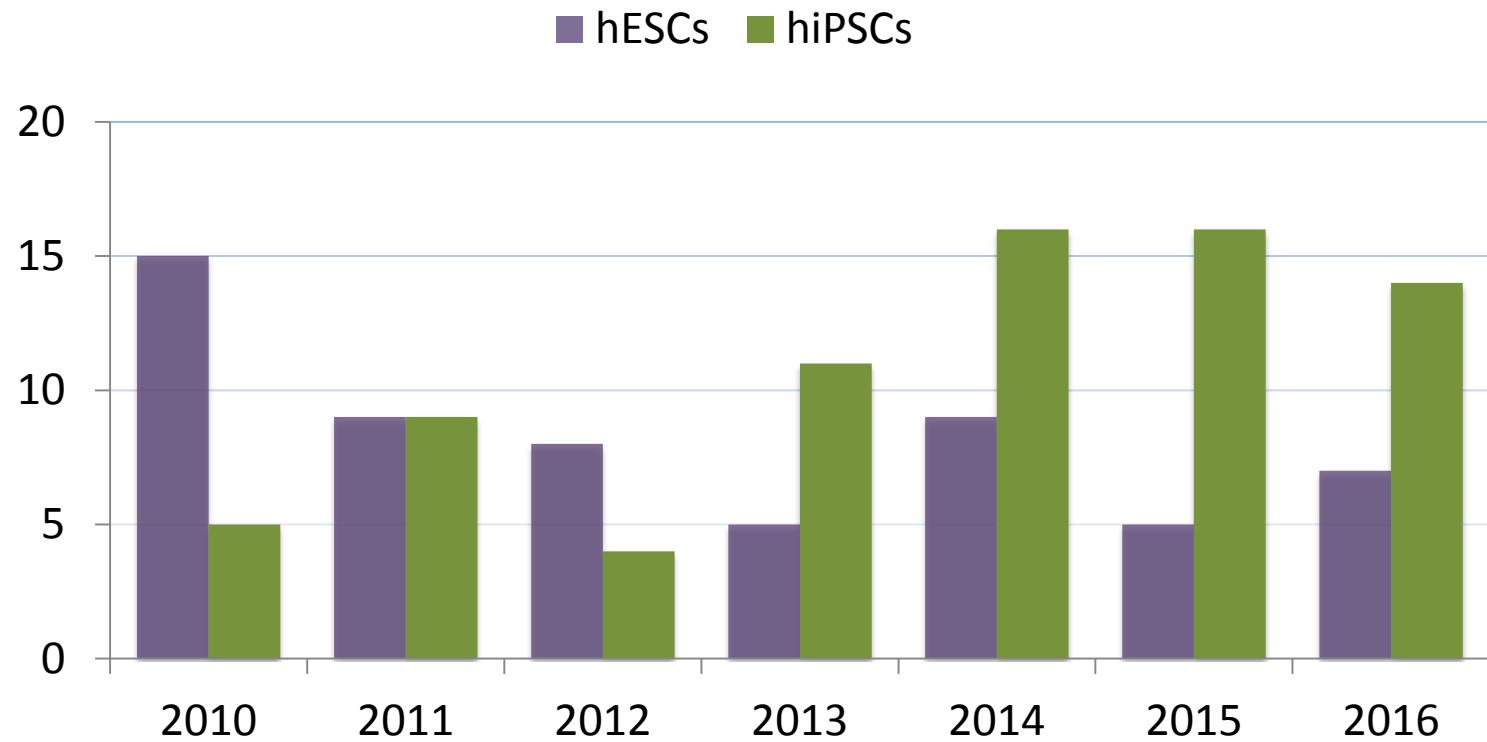
AVAILABLE SAMPLE COLLECTIONS

DEPOSITED CELL LINES



AVAILABLE SAMPLE COLLECTIONS

REQUESTED CELL LINES



REPORT OF ACTIVITIES

1. Background

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QUALITY CONTROL MEASURES

1. QUALITY CONTROL FOR CELL LINES

- Mycoplasma detection

- Cell li

CONVENTIONAL PCR LookOut		
	5 STRs detection method	10 STRs detection method (Geneprint 10 System, Promega)
Discrimination between individual samples	Yes	Yes
STRs analyzed	5	10
Metodology	PCR + Agarose electrophoresis	PCR + Capilar electrophoresis
Tecnich complexity	Medium	High
Interpretation	Sometimes a bit subjective, depending user expertise	Objetive (High sensitivity and resolution)
Cost/assay	7.90 €	33.40 €

QUALITY CONTROL MEASURES

2. QUALITY CONTROL FOR STORED SAMPLES

- Local and remote alarms for Tº, humidity, O₂ and CO₂.
- Back-up systems:
 - CO₂ bottles
 - Empty freezers
- Continuous temperature controls (24-7)



QUALITY CONTROL MEASURES

3. QUALITY MANAGEMENT SYSTEM CERTIFICATION

Certificado del Sistema de Gestión de la Calidad



ER-0074/2014

AENOR, Asociación Española de Normalización y Certificación, certifica que la organización

BIOBANCO DEL SISTEMA SANITARIO PÚBLICO DE ANDALUCÍA - NODO SECTORIAL GRANADA

dispone de un sistema de gestión de la calidad conforme con la Norma UNE-EN ISO 9001:2008

para las actividades:

La prestación de servicios de provisión, custodia y procesado de productos sanguíneos o derivados, tejidos, sustancias o muestras biológicas de origen humano, para el uso de investigación.

Asesoramiento técnico en gestión de muestras humanas para investigación. Diseño e impartición de formación en el área de investigación biomédica.

que se realizan en:

AV DEL CONOCIMIENTO, S/N. EDIF. CENTRO DE INVESTIGACIONES BIOMÉDICAS, PARQUE TECNOLÓGICO DE CIENCIAS DE LA SALUD. 18100 - ARMILLA (GRANADA)
HOSPITAL UNIVERSITARIO SAN CECILIO. AVDA DR. OLÓRIZ, 16. EDIFICIO DE DIRECCIÓN Y CONSULTAS. 18012 - GRANADA

Fecha de primera emisión: 2014-02-11
Fecha de expiración: 2017-02-11

AENOR
Asociación Española de
Normalización y Certificación

Avelino BRITO MARQUINA
Director General de AENOR

AENOR

Asociación Española de
Normalización y Certificación

Génova, 6. 28001 Madrid, España

Tel. 902 102 001 - www.aenor.es



PROTOCOL

Characterization of pluripotent stem cells

Mercè Martí¹, Lola Mulero¹, Cristina Pardo¹, Cristina Morera¹, Meritxell Carrió¹, Leopoldo Laricchia-Robbio¹, Concepcion Rodriguez Esteban^{1,2} & Juan Carlos Izpisua Belmonte^{1,2}

¹Center of Regenerative Medicine in Barcelona, Barcelona, Spain. ²Gene Expression Laboratory, Salk Institute for Biological Studies, La Jolla, California, USA.
Correspondence should be addressed to J.C.I.B. (belmonte@salk.edu or izpisua@cmrb.eu).

Published online 10 January 2013; doi:10.1038/nprot.2012.154

Characterization of pluripotent stem cells is required for the registration of stem cell lines and allows for an impartial and objective comparison of the results obtained when generating multiple lines. It is therefore crucial to establish specific, fast and reliable protocols to detect the hallmarks of pluripotency. Such protocols should include immunocytochemistry (takes 2 d), identification of the three germ layers in *in vitro*-derived embryoid bodies by immunocytochemistry (immunodetection takes 3 d) and detection of differentiation markers in *in vivo*-generated teratomas by immunohistochemistry (differentiation marker detection takes 4 d). Standardization of the immunodetection protocols used ensures minimum variations owing to the source, the animal species, the endogenous fluorescence or the inability to collect large amounts of cells, thereby yielding results as fast as possible without loss of quality. This protocol provides a description of all the immunodetection procedures necessary to characterize mouse and human stem cell lines in different circumstances.

Points to consider in the development of seed stocks of pluripotent stem cells for clinical applications: International Stem Cell Banking Initiative (ISCBI)

1. Background and utility of this document

In 2009 the International Stem Cell Banking Initiative (ISCBI) contributors and the Ethics Working Party of the International Stem Cell Forum published a consensus on principles of best practice for the procurement, cell banking, testing and distribution of human embryonic stem cell (hESC) lines for research purposes [1], which was broadly also applicable to human

Second, it has been assumed that undifferentiated pluripotent stem cells would not be inoculated into patients. Third, where feeder cells are used to culture hPSC lines, their cellular nature and intimate contact with the therapeutic cells means that they should be subject to similar risk assessment and banking procedures as applied to the hPSC cells.

It is important to note that responsibility for establishing and updating national regula-

Corresponding author:

Glyn Stacey
Division of Cell Biology & Imaging,
National Institute for Biological
Standards and Control, Blanche Lane,
South Mimms, Potters Bar,
Hertfordshire, EN6 3QG, UK
glyn.stacey@nibsc.hpa.org.uk

Complete list of contributors can be found at the end of this article.



iPSC Nomenclature:

The name should include the following:

1. Pathology or specificity of the cell line (abbreviation) followed by the sample number
2. Cell type of origin (abbreviation)
3. iPS
4. Number of factors used for the cell line reprogramming
5. Clon number

It is recommended to register just one clone of each line, unless to register more than one is justified.

Examples:

cFA404-FiPS4F1

cFA404-KiPS4F1

CBiPS-3F1

The name of the cell line should be the same that appears in the publication (if there is one), and if the names are different, it should be noted in the registry.

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Banco Nacional de Líneas Celulares



Cartera de Servicios

- Depósito de líneas
- Identificación y codificación
- Preservación
- Expansión y cesión de líneas
- Trazabilidad
- Seguimiento de la producción científica

Banco Nacional de Líneas Celulares

Cartera de Servicios (II)

	Banco Nacional Líneas Celulares	Investigadores
Asesoramiento y/o Gestión de un proyecto		
Generación de líneas pluripotentes		
Caracterización de las líneas		

Banco Nacional de Líneas Celulares

Cartera de Servicios (II)

	Banco Nacional Líneas Celulares	Investigadores
Asesoramiento y/o Gestión de un proyecto	X	
Generación de líneas pluripotentes	X	
Caracterización de las líneas	X	



Banco Nacional de Líneas Celulares

Cartera de Servicios (II)

	Banco Nacional Líneas Celulares	Investigadores
Asesoramiento y/o Gestión de un proyecto		X
Generación de líneas pluripotentes		X
Caracterización de las líneas		X



Banco Nacional de Líneas Celulares

Cartera de Servicios (II)

	Banco Nacional Líneas Celulares	Investigadores
Asesoramiento y/o Gestión de un proyecto	X	
Generación de líneas pluripotentes		X
Caracterización de las líneas	X	

ADDITIONAL SERVICES

1. MANAGEMENT OF PLURIPOTENT STEM CELLS PROJECTS

2. PLURIPOTENT STEM CELL LINE GENERATION

- 34 total requests from 2014

	Integrative systems	Non integrative systems		
		mRNA	Episomal vectors	Sendai virus
Fibroblasts	20	2	2	4
Adipose mesenquimal stem cells			3	
CD133+ (SCU)	3			

ADDITIONAL SERVICES

3. PLURIPOTENT STEM CELL LINE CHARACTERIZATION

	2015	2016
Karyotyping	34	21
Microsatellite genotyping	28	127
In vivo differentiation	10	4
Immunohistochemistry	7	1
TOTAL	79	152

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TRAINING COURSES

1. POSTGRADUACIONES

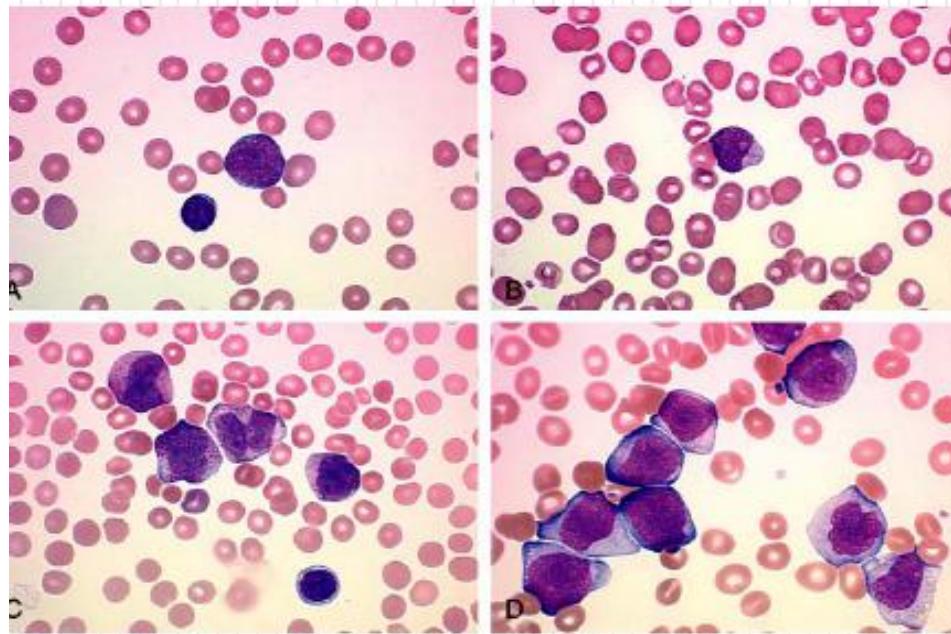
CURSO

Gratis:

30 de Noviembre,
1 y 2 de Diciembre de 2015

2a
EDICIÓN

➤ CITOGÉNÉTICA y CITOMETRÍA
de Flujo en la Caracterización
de Células Multipotentes (hMSCs) y
Células Pluripotentes (hESCs e iPSCs)
Fundamentos Básicos, Teóricos y Prácticos

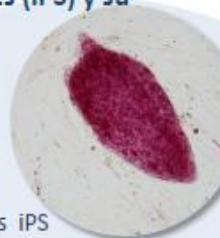
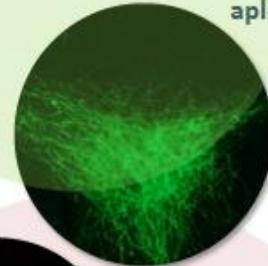


TRAINING COURSES



Taller teórico-práctico 2015

Introducción al cultivo de células inducidas pluripotentes (iPS) y su aplicación en la investigación



Temas incluidos:

- Cultivo, pase y evaluación de cultivos iPS (feeder y feeder -free)
- Criopreservación y descongelación de células iPS
- Caracterización molecular y celular de células iPS
- Bases de diferenciación
- Aplicabilidad de la tecnología basada en iPS



Fecha: 14-15 diciembre, 2015

Inscripción: hasta 20 de noviembre 2015

Más información: bnlc@cipf.es

Plazas limitadas



TRAINING COURSES

JORNADA DE
FORMACIÓN

24 y 25 de
febrero 2016

➤ Mantenimiento de
INSTALACIONES y EQUIPOS
DE CONSERVACIÓN de
muestras biológicas



• www.juntadeandalucia.es/salud/biobanco

TRAINING COURSES

2. PRACTICAL COURSES FOR UNDERGRADUATED AND GRADUATED STUDENTS

3. MASTER'S DEGREE

- Biobanks and human sample management in biomedical research (UCV)
- Transfusion medicine and advanced cell therapies (UAB)
- Regenerative biomedicine (UGR)
- Biotechnology (UCV)

REPORT OF ACTIVITIES

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DISSEMINATION ACTIVITIES AND PUBLICATIONS

1. DISSEMINATION ACTIVITIES

- European Researchers night
- Science's week
- Dissemination seminars
- Patients associations meetings
- Interviews in media



DISSEMINATION ACTIVITIES AND PUBLICATIONS

2. PARTICIPATION IN CONFERENCES

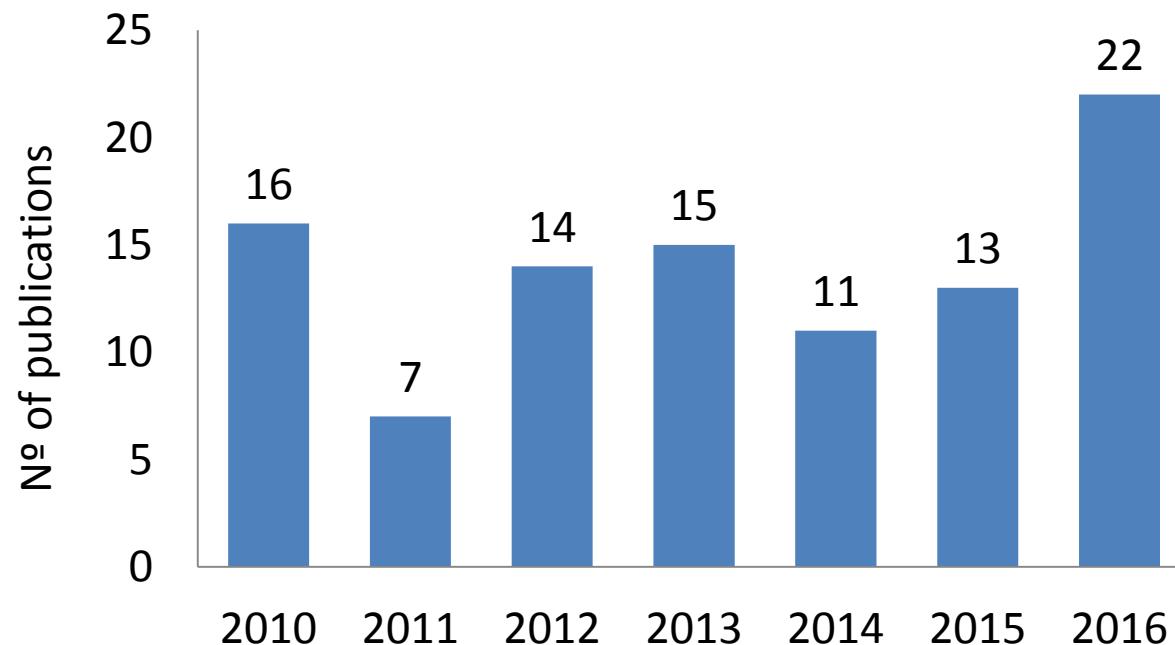
- European Society for Biopreservation and Biobanking (ESBB)
- International Society for Biological and Environmental Repositories (ISBER)
- National Biobanks Platform (PNB)
- European Society of gene and cell therapy
- International Society for Stem Cell Research (ISSCR)
- Spanish Society for Gene and Cell Therapy (SETGyC)
- International Congress on Neuropathic Pain
- Mediterranean Society for Reproductive Medicine (MSRM)



DISSEMINATION ACTIVITIES AND PUBLICATIONS

3. PUBLICATIONS

YEAR	2010	2011	2012	2013	2014	2015	2016
Nº of publications per year	16	7	14	15	11	13	22



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IMI 8th Call (IMI-JU-8-2012)

INTERNATIONAL PROJECTS



EBiSC joint forces

EFPIA companies
- Pfizer Ltd, United Kingdom
- Novo Nordisk, Denmark
- AstraZeneca AB, Sweden
- H. Lundbeck A/S, Denmark
- Janssen Pharmaceutica NV, Belgium
- UCB Biopharma SPRL, Belgium

SMEs
- Roslin Cells Ltd, United Kingdom
- ARTIC, France
- DEFINGEN, United Kingdom
- Douglas Connect GmbH, Switzerland
- Bioneer A/S, Denmark

Universities, research organisations, public bodies, non-profit groups
- University of Edinburgh, United Kingdom
- Fraunhofer-Gesellschaft, Germany
- Fraunhofer Institute for Biomedical Engineering (IBMT)
- Fraunhofer Institute for Molecular Biology and Applied Ecology ScreeningPort (IME SP)
- Genome Research Limited (Wellcome Trust Sanger Institute), United Kingdom
- European Molecular Biology Laboratory (European Bioinformatics Institute), Germany
- Charité University Medicine Berlin, Germany
- University of Newcastle upon Tyne, United Kingdom
- University Hospital Cologne, Germany
- Leibniz University Hannover, Germany
- Royal Netherlands Academy of Arts and Sciences (Hubrecht Institute), The Netherlands
- University College London, United Kingdom
- Culture Collections of Public Health England, United Kingdom
- National Institute for Biological Standards and Control, United Kingdom
- University Hospital Bonn, Germany
- Institute of Health Carlos III, Spain
- Progress and Health Foundation, Spain
- Center for Regenerative Medicine in Barcelona, Spain
- Inbiomed, Spain



Contact us



Project Coordinator

Dr. Timothy Allsopp
Head of External Research,
Regenerative Medicine, Neusentis
Pfizer Ltd.
Cambridge / United Kingdom



Managing Entity

University of Edinburgh

Edinburgh / United Kingdom



Manager of the Public Partners

Mr. Aidan Courtney
Chief Executive Officer
Roslin Cells Ltd.
Edinburgh / United Kingdom



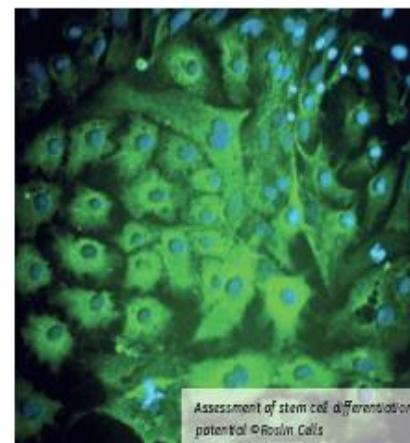
EBiSC Project Administration Office

Mrs. Beate Kreisel
ARTIC
58 A, rue du Dessous-des-Berges
75013 Paris / France
ebisc@eurtd.com

www.ebisc.eu



European Bank for induced pluripotent Stem Cells



Assessment of stem cell differentiation potential © Roslin Cells

The EBiSC – European Bank for Induced pluripotent Stem Cells project has received support from the Innovative Medicines Initiative Joint Undertaking under grant agreement n° 115000, resources of which are composed of financial contribution from the European Union's Seventh Framework Programme (FP7/2007-2013) and EFPIA companies in kind contribution: www.imi.europa.eu



Compañías FPA

Pfizer (UK)

Astra Zeneca (Sw)

H Lundbeck (Dk)

Janssen P (be)

Novo Nordisk (Dk)

UCB Ph. (Be)

Academias y Non for Profit (14 grupos)

UK: 5

DK:1

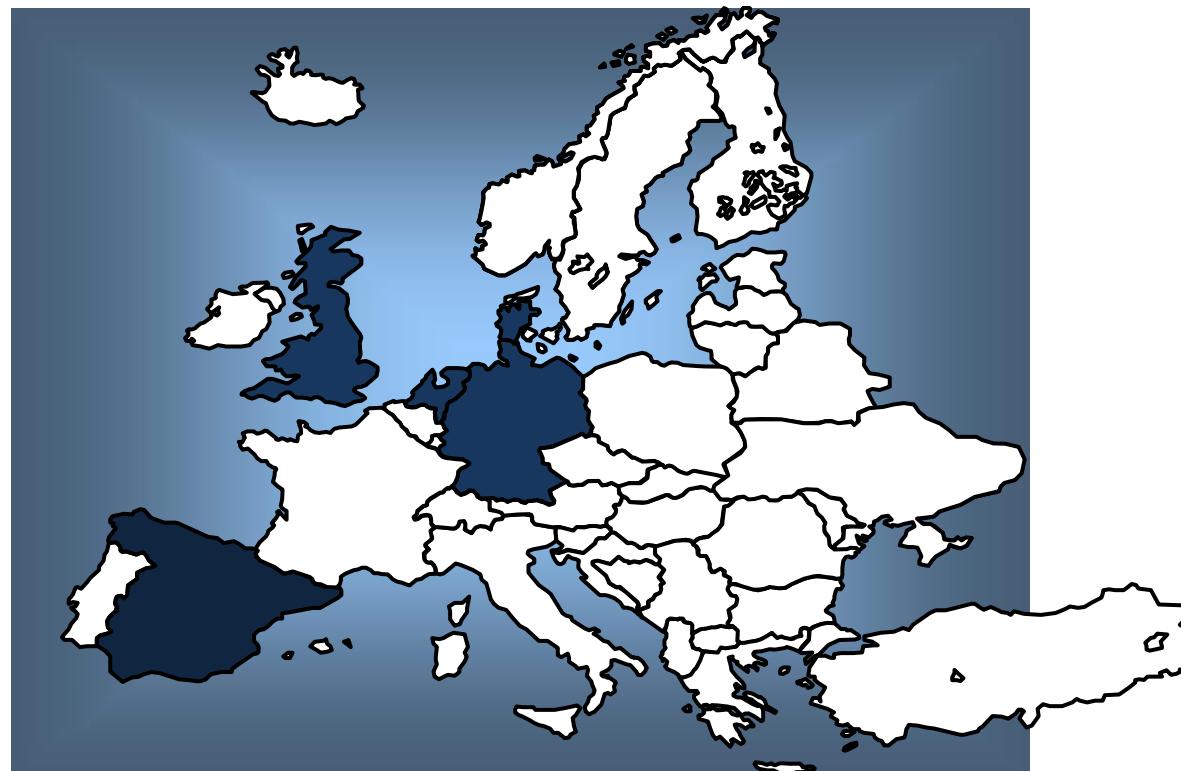
Ge:6

Sp:1

Ned:1

Coord. Adm.

Fr





Delivering Cell Therapy



Banco Europeo de líneas celulares iPS

Ejecución 36 m

Dos sedes (UK y Ge)

1000 líneas celulares

Colección basal a partir de las existentes en los centros participantes

Aportación de **50-100 líneas anuales de cada laboratorio** participante

Armonización de prácticas y tecnología de derivación, conservación y expansión

Milestones	No	When	What	Why
1	M6		Strategic Plan and Vision in White Paper & Business Plan	Demonstrates alignment between EBiSC and users
2	M12		SOPs for banking and distribution leading to 1 st distribution of cell lines	Demonstrates end-to-end capacity of EBiSC operation
3	M24		Over 200 cell line samples supplied to users	Demonstrates capacity to distribute samples to customers
4	M36		Gap analysis of available iPSC lines leading to commissioning of new lines with standard SOPs	EBiSC actively developing its iPSC line catalogue
5	M36		Integration of all development activities into mainstream operations	Shows impact of the development activities of the EBiSC project
6	M36		Babraham facility fully operational	Shows EBiSC is operating in mature operation mode
7	M36		1,000 iPS cell lines available	Shows EBiSC is in operating at scale



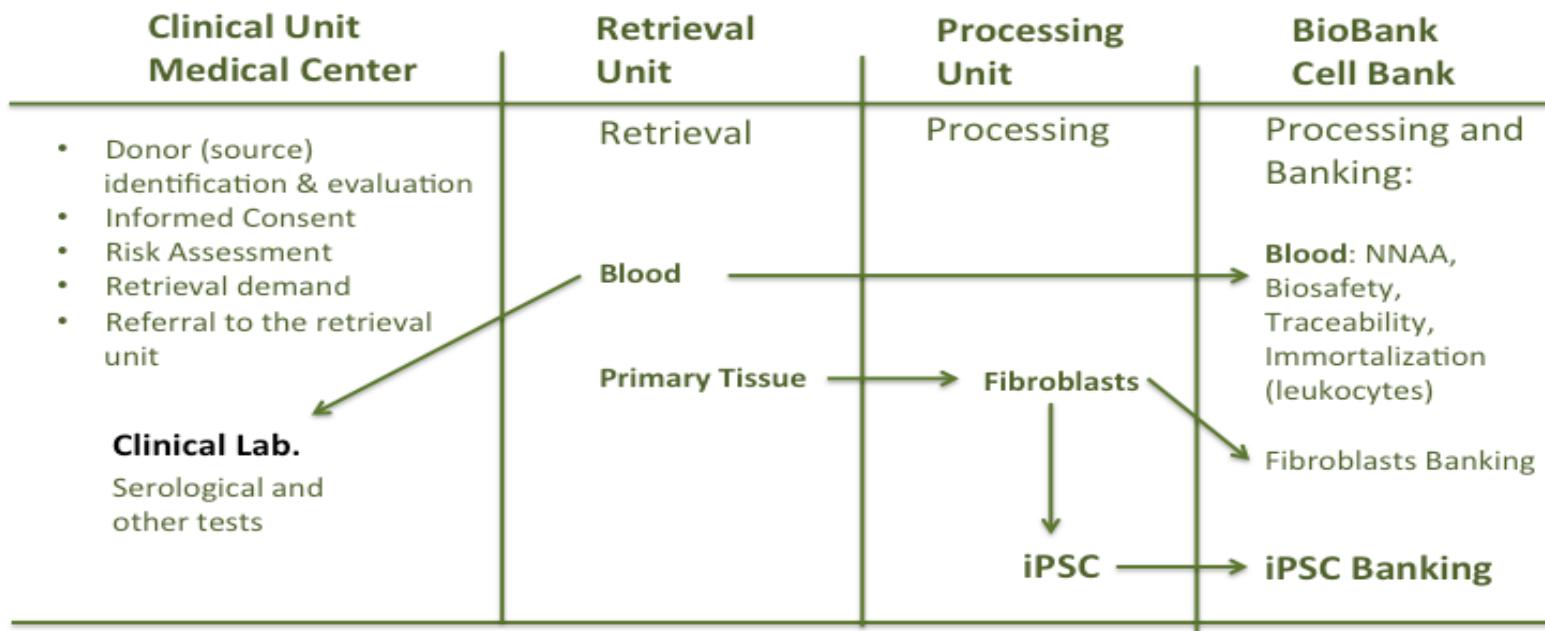
IMI 8th Call (IMI-JU-8-2012)

Milestone M2.1.3:

Harmonised standard for donor information and tissue procurement

Description

iPS Cell processing: Primary Tissue obtention and shipping. Flow Chart

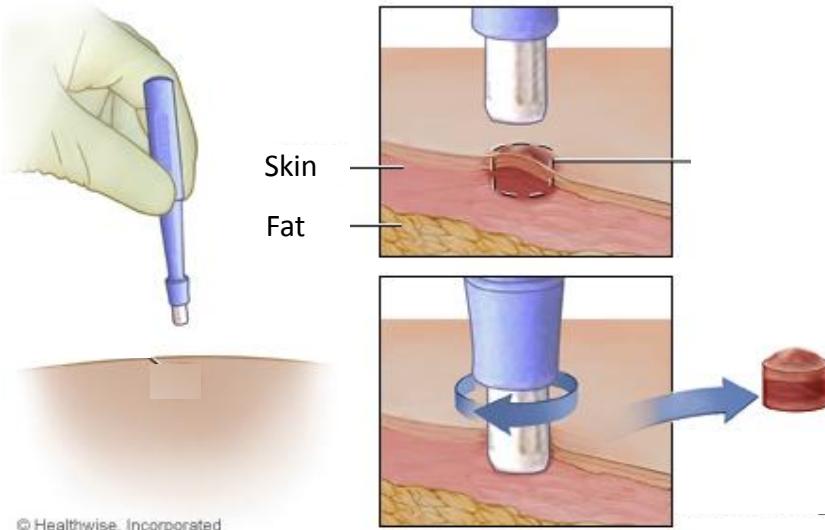


The document compiles standardized instructions for all the process, from the identification and evaluation of the donor (source of the primary tissue) to the shipment of this material to the processing laboratory facilities.

OBTENTION OF SAMPLES (SKIN AND BLOOD) as primary tissue for iPSC derivation

<input type="checkbox"/> REQUEST SAMPLES FOR OBTAINING iPSC (send to the laboratory for processing or "local" biobank)	<ul style="list-style-type: none">▪ <input type="checkbox"/> Tissue<ul style="list-style-type: none">▪ <input type="checkbox"/> Skin biopsy (total: 2 cylinders, if possible)▪ <input type="checkbox"/> Others (indicate)▪ <input type="checkbox"/> Others sample (type, origin organ, ...)
<input type="checkbox"/> REQUEST SAMPLES FOR TRACEABILITY AND BIOSECURITY PURPOSES (send to the laboratory for processing or "local" biobank)	<ul style="list-style-type: none">▪ <input type="checkbox"/> Blood<ul style="list-style-type: none"><input type="checkbox"/> 1 drop of blood in FTA card*<input type="checkbox"/> 2 tubes with anticoagulant: EDTA (total: 10 ml of blood) (* 5 ml)<input type="checkbox"/> 1 tubes without anticoagulant, with separating gel (total: 8-10 ml of blood) (* 5 ml)<input type="checkbox"/> 2 tubes with anticoagulant: ACD (total: 8-10 ml of blood)<input type="checkbox"/> 1 tube PAXGENE® (total: 8 ml of blood)
<p>Note: If blood collection is difficult and not is possible to obtain all types of samples, the priority should be the samples marked with an asterisk.</p> <ul style="list-style-type: none">▪ <input type="checkbox"/> Others sample type, origin organ,...)	
<input type="checkbox"/> REQUEST SAMPLES FOR COMPLETE EVALUATION OF THE DONOR (send to laboratory for diagnosis)	<ul style="list-style-type: none">▪ <input type="checkbox"/> Blood<ul style="list-style-type: none"><input type="checkbox"/> 2 tubes with anticoagulant: EDTA (total: 10 ml of blood)<input type="checkbox"/> 2 tubes without anticoagulant, with separating gel (total: 10 ml of blood)▪ <input type="checkbox"/> Others (indicate sample type, origin organ,...)
DESTINY LABORATORY <input type="checkbox"/> Serology <input type="checkbox"/> Others (indicate)	
<input type="checkbox"/> REQUEST SAMPLES FOR COMPLETE EVALUATION OF THE DONOR (send to laboratory for diagnosis)	<ul style="list-style-type: none">▪ <input type="checkbox"/> Tissue<ul style="list-style-type: none"><input type="checkbox"/> Skin biopsy (total: (nº)cylinders,▪ <input type="checkbox"/> Others (indicate sample type, origin organ,...)
DESTINY LABORATORY <input type="checkbox"/> Pathology <input type="checkbox"/> Microbiology <input type="checkbox"/> Others (indicate)	

PROTOCOL FOR EXTRACTION OF SKIN BIOPSIES & VENIPUNCTION



This Standard Operating Procedure (SOP) can be adapted for any other alternative primary source of cells for iPSC generation (. i.e. Peripheral or cord blood, urine, bone marrow by amendment of section 3.2.4.1 Protocol for retrieval/biopsy).

OBTENTION OF SAMPLES (SKIN AND BLOOD) as primary tissue for iPSC derivation

<input checked="" type="checkbox"/> EXTRACTED SPECIMENS (send to the laboratory for processing or "local" biobank)	
o <input type="checkbox"/> Tissue	
: <input type="checkbox"/> Skin biopsy (total: 1-2 cylinders (6 mm), if possible)	
: <input type="checkbox"/> Others (indicate)	
<input type="checkbox"/> Others (sample type, origin organ,...).....	
Identification of the samples (code number, ...)	
Amount of extracted sample;	
Number of samples;	
Description of the sample	
Operating procedure used;	

REPORT OF THE EXTRACTION

LABELED AND SHIPPING TO EACH DESTINATION



Accompanying documentation

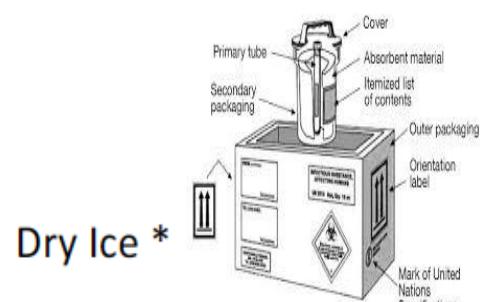
- Copy of Informed Consent (1)
- Copy of Report of donor identification and evaluation (1)
- F_Clinical and social information
- F_Check list form the evaluation of donors
- F_Physical exam
- Copy of report extraction (1)
- Copy Request form of serological determinations (if applicable) (2)
- Copy Request form of pathological studies (if applicable) (2)
- Copy of the form for microbiological studies (if applicable) (2)

Transport of Samples

REQUIREMENTS PACKAGING, LABELLING AND DOCUMENTATION

- **Comply with current regulations** and do not present any risk to humans during handling.
- The packaging must be **secure** and **robust enough**, depending on the size and weight of the package
- **Proper labelling** to identify potentially infectious samples and to alert that those samples require special precautions in case of accidental leakage.

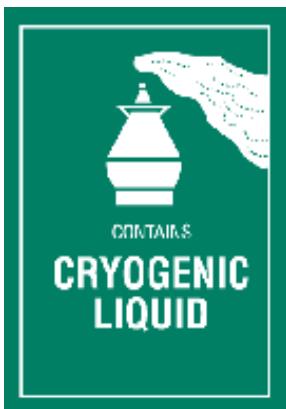
Type of sample	Format of shipping
Fresh tissue for culture	4 °C
DNA -80°C	
RNA -80°C	
Medium culture -80°C	
Plasma -80°C	
Serum -80°C	
Frozen tissue -80°C	
Frozen cells -196°C	Nitrogen tank transport **
Cells in culture 37°C	Room temperature



The diagram illustrates a shipping container for biological samples. It features a primary tube containing a sample, which is nestled in absorbent material within secondary packaging. This assembly is placed inside an outer cardboard box. Labels on the box include: 'DRIED ICE DRY ICE CO2', 'DO NOT FREEZE', 'HANDLE WITH CARE', 'GROSS WEIGHT 1.0 KG', 'NET WT 0.5 KG', 'ORIENTATION', and 'UNITED NATIONS MARKS'. Arrows point from the labels to their corresponding parts in the container. A note at the bottom right indicates 'Mark of United Nations Specifications'.

Figure 6 Table 1: Terms of sending samples

Transport of Samples



LOGISTIC / TRANSPORT COMPANY	
Identification:	
Address:	
Contact in case of any contingency (Name, phone, ...):	
Shipment identification number (Locator):	
Professional responsible for transport (storage)	Responsible Sign
	Date/ time of storage in centre of collection:
Professional responsible for the transport (delivery)	Responsible Sign
	Date/ time of delivery in recipient centre:
RECIPIENT CENTRE	
Identification and address:	
Contact in case of any contingency (Name, phone, ...):	
Professional responsible for the reception of the package in the recipient centre	Responsible Sign
	Date/ time of reception in recipient centre:

Reception of Samples

F_ CHECKING TO ENTRY REGISTRY

Page 1: Reception packages

TARGET CENTRE (ID)	
Professional responsible for validating receipt	Responsible Date/ time
RECEPTION PACKAGES	
IDENTIFICATION AND LABELLING OF THE OUTER CONTAINER (RIGID OUTER PACKAGING) ORIGIN IDENTIFICATION AND ADDRESS <ul style="list-style-type: none"> <input type="radio"/> Identification and address of the centre of origin <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Staff and number phone or other form to contact for any contingency <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="radio"/> Date and time of the departure. <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Labels or specific precautions during transport <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
PACKAGE INTEGRITY <ul style="list-style-type: none"> <input type="radio"/> Check if the centre of origin is identified <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if the centre of origin is correct <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if the target centre is identified <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if the destination centre address is correct <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Indicate whether any observed damaged packaging <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
CHECKING THE CONDITION OF TRANSPORT <ul style="list-style-type: none"> <input type="radio"/> Indicate if there is a temperature record <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if the temperature of transport has been adequate (within the defined range for each type of sample) <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if there is a shipping date <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Indicate whether the time of transit has been adequate (within the defined range for each type of sample) <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
RESULT : <input type="checkbox"/> According <input type="checkbox"/> Not According OBSERVATION	

Page 53

F_ CHECKING TO ENTRY REGISTRY

Page 2: Checking documents

CHECKING DOCUMENTS	
INFORMED CONSENT <ul style="list-style-type: none"> <input type="radio"/> Check if a copy of the informed consent form is attached <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Check if it is properly identified and signed <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
IDENTIFICATION AND EVALUATION OF DONOR <ul style="list-style-type: none"> <input type="radio"/> Check if a copy of the form of identification and evaluation of the donor is attached <ul style="list-style-type: none"> <input type="checkbox"/> Identification of donor/donation (Identification number,) <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Identification and signature of the person responsible for evaluation <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Centre of origin <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Date <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Clinical and social information sheet <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Checklist for evaluation of donors sheet <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Physical exam sheet <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
REPORT SAMPLES <ul style="list-style-type: none"> <input type="radio"/> Verify if a copy of the sample retrieval report is attached <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="radio"/> Verify if it is adequately filled <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Centre of retrieval <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Date and time of retrieval <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Identification and number of samples <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: <input type="checkbox"/> Type and description of the samples <input type="checkbox"/> Yes <input type="checkbox"/> No // Observation: 	
RESULT : <input type="checkbox"/> According <input type="checkbox"/> Not According OBSERVATION	

Banco Nacional de Líneas Celulares: BNLC



banco andaluz de células madre

PRINCIPE FELIPE
CENTRO DE INVESTIGACION



- **Proceso de autorización de derivación y uso muy complicado. / No se realiza seguimiento**
- **Asimilación de células embrionarias e iPS como iguales: Obligatoriedad de depósito. Participación en proyectos Internacionales.**

Desobediencia/Rebeldía

- **Proliferación de nodos. Financiación / Supervivencia**
- **Otros usos de las líneas: Docencia. Puesta a punto de técnicas. Validación**
- **Pre-embiones donados a la ciencia**

CMR[B] Centre de Medicina Regenerativa de Barcelona
Centro de Medicina Regenerativa de Barcelona
Center of Regenerative Medicine in Barcelona



WP2

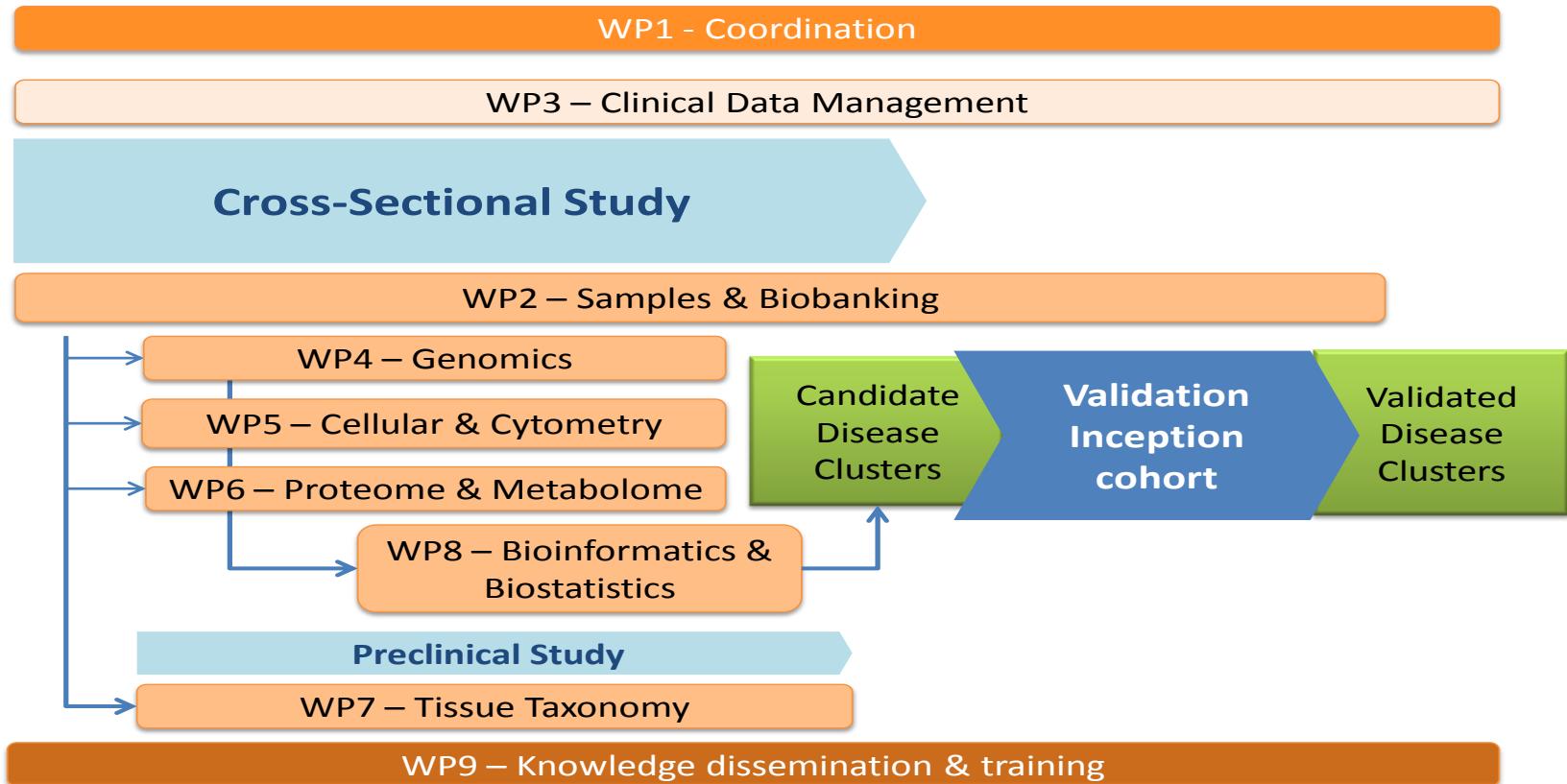
Samples & Biobanking

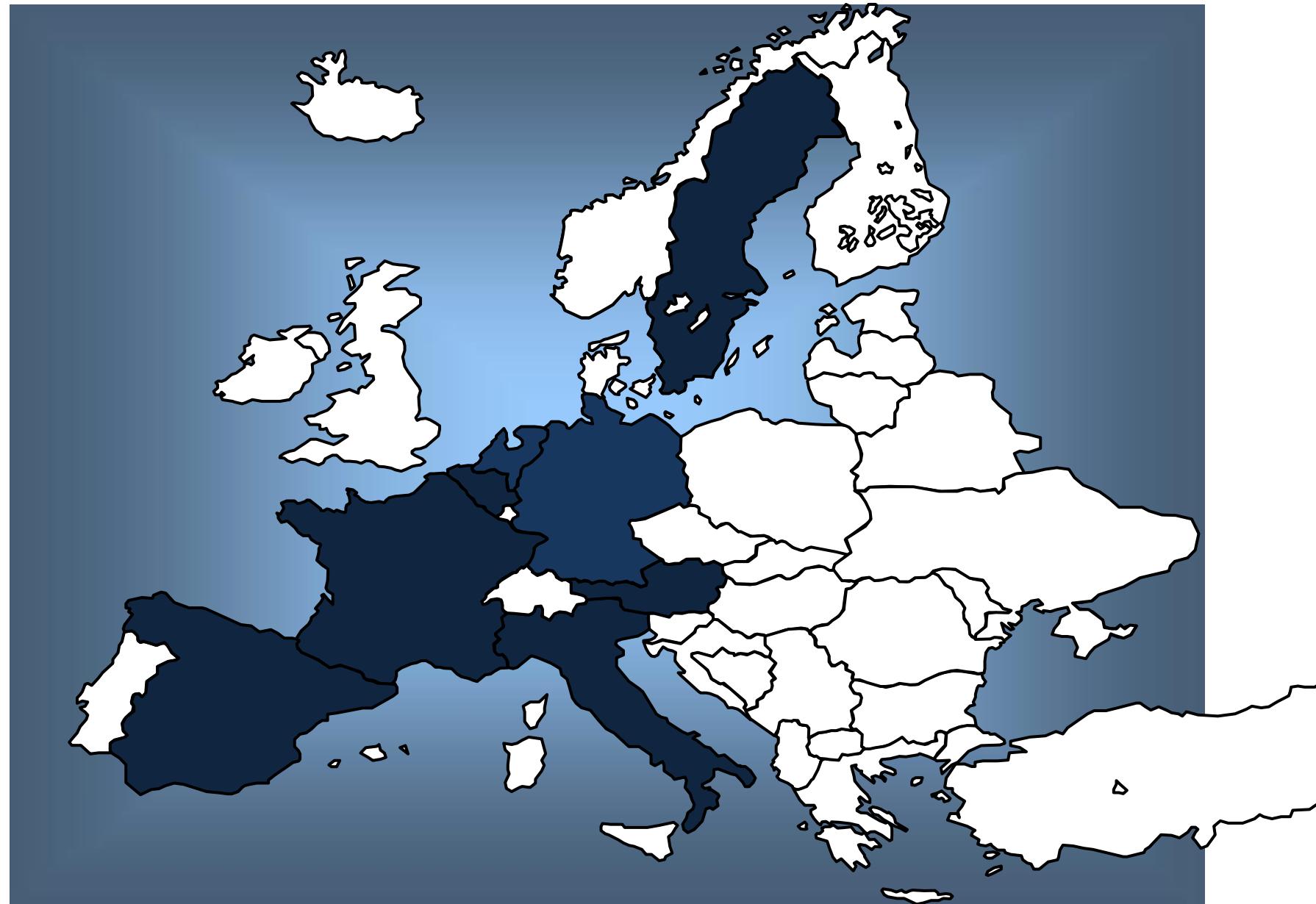


PRECISESADS

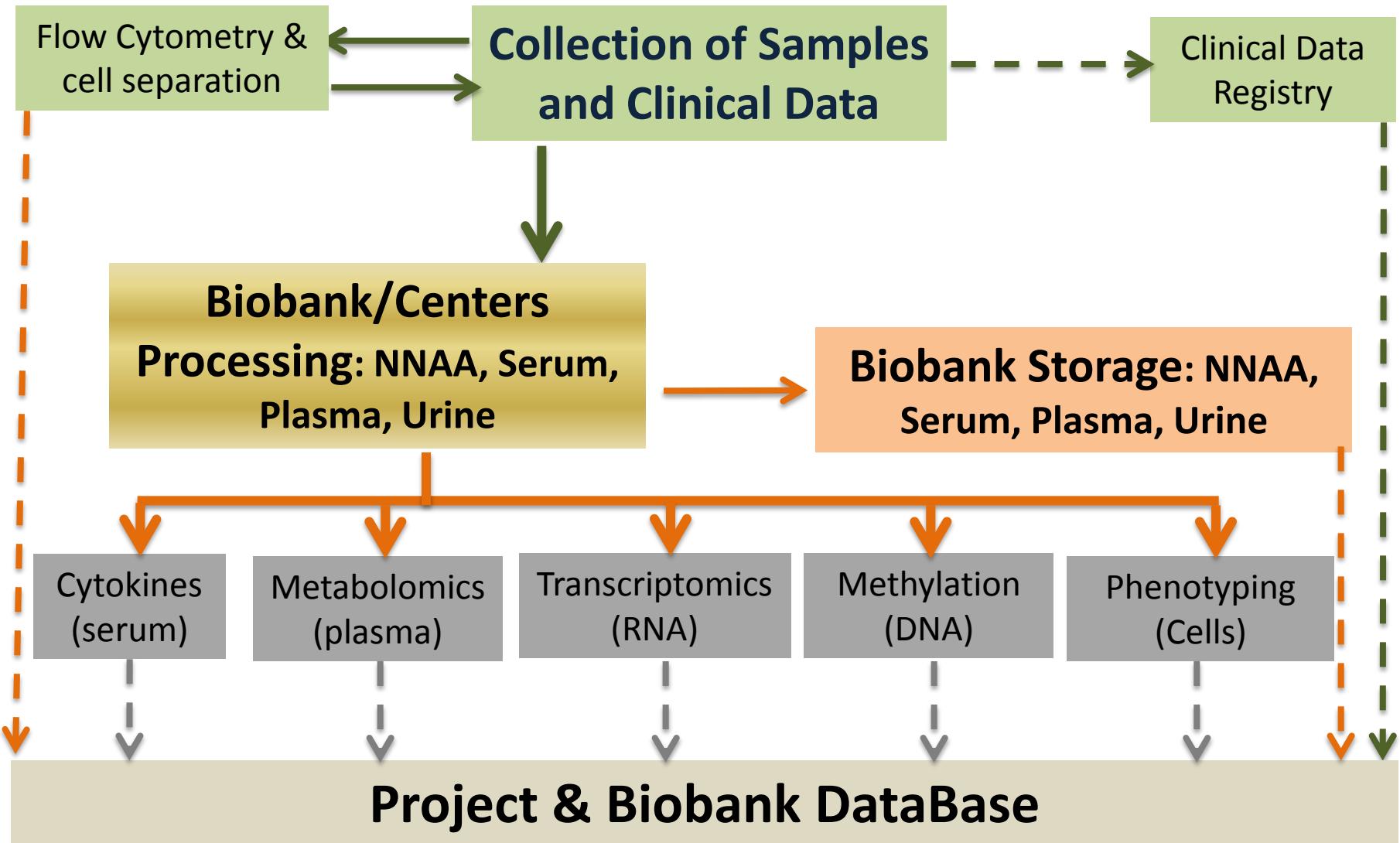
Molecular Reclassification to Find
Clinically Useful Biomarkers for
Systemic Autoimmune Diseases

WP Structure of PRECISESADS





Flow of Biological Samples.



Flow of Biological Samples.

Collection Centre / Local Lab

Tasks done in the collection centers or local laboratories

**Biobank / Collection
Centre**

Tasks done in the collection centers
and in Biobank

Biobank

Tasks done in Biobank

Reference Lab.

Tasks done in Reference's Laboratory

Project & Biobank DataBase



Data Transfer



Local Sample's shipment



External Sample's shipment

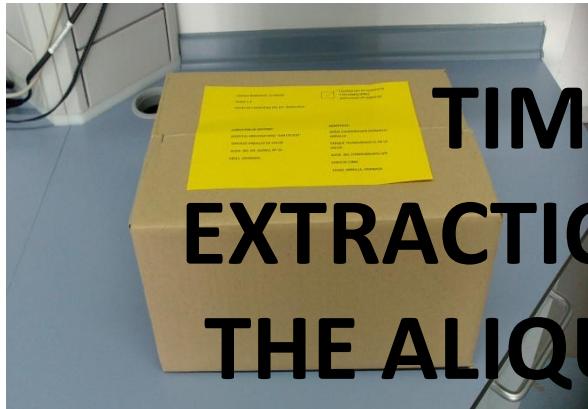
General steps on WP2: Biobanking and samples

		PHASE 1 ^a CROSS-SECTIONAL COHORT	PHASE 2 CROSS-SECTIONAL COHORT	INCEPTION COHORT
DONATIONS		302	2921	626
P R O C E S S I N G	SAMPLE EXTRACTION	X	X	X
	CYTOMETRY / CELL SEPARAT.	X	X	X
	CITRATE PLASMA	X	X	X
	SERUM	X	X	X
	PLASMA/DNA	X	X	X
	URINE	X	X	X
	RNA	X	X	X
	TEMPORAL STORE	X	X	X
SENDING TO BIOBANK		DOCUMENTS AND SAMPLES	DOCUMENTS AND SAMPLES	DOCUMENTS AND SAMPLES

PHASE 1 A CROSS
SECTIONAL
COHORT

PHASE 2 CROSS
SECTIONAL
COHORT

INCEPTION
COHORT



TIME ELAPSED FROM
EXTRACTION TO THE STORAGE OF
THE ALIQUOTS CAN NOT EXCEED
2 HOURS.

- ***DO NOT USE THE KITS AFTER THE EXPIRATION DATE PRINTED ON THE LABEL ON TOP.***
- ***STORE THE KITS AT (18-25)°C.***

The kit contains

- Necessary tubes in two bags for samples collection and processing with their labels (OMIC code).

DO NOT USE OTHER CODES - DO NOT USE OTHER LABELS

- Documentation



**ONE KIT, ONE DONATION!!! WE WILL SEND
KITS WITH TUBES AND LABELS JUST IN
CASE OF REPLACEMENT.**

**IF ANY INCIDENT
IS DETECTED TO
ONE KIT**

**DO NOT USE IT AND OPEN A NEW KIT (THIS
POINT WILL BE NOTICED TO BIOBANK).**

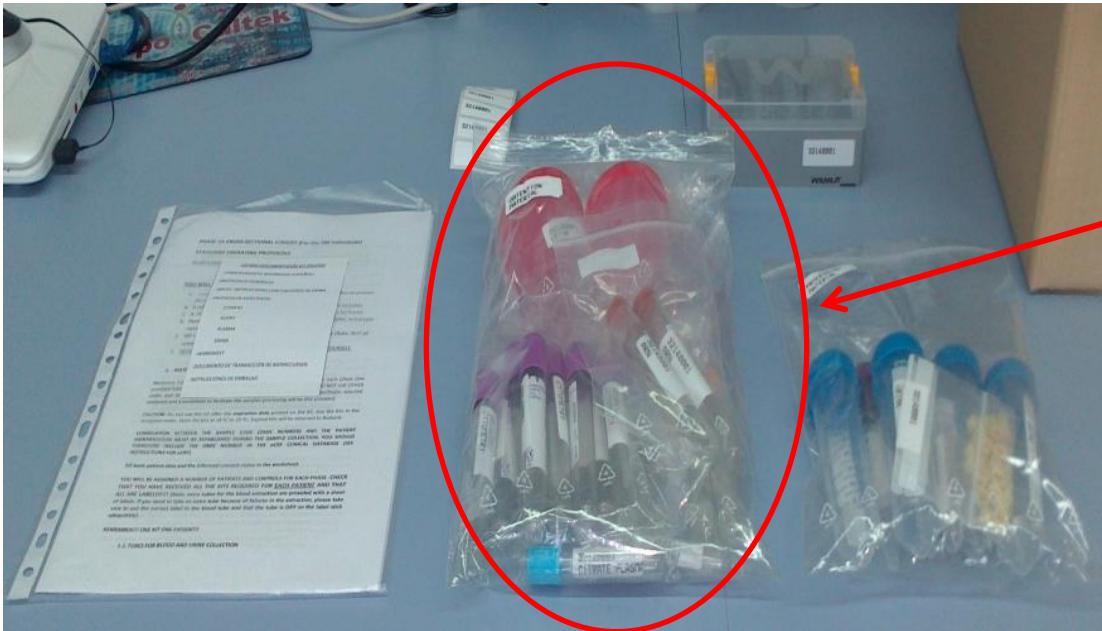
COMPLETE THE KIT CHECKLIST



Innovative Medicines Initiative



Collecting the samples



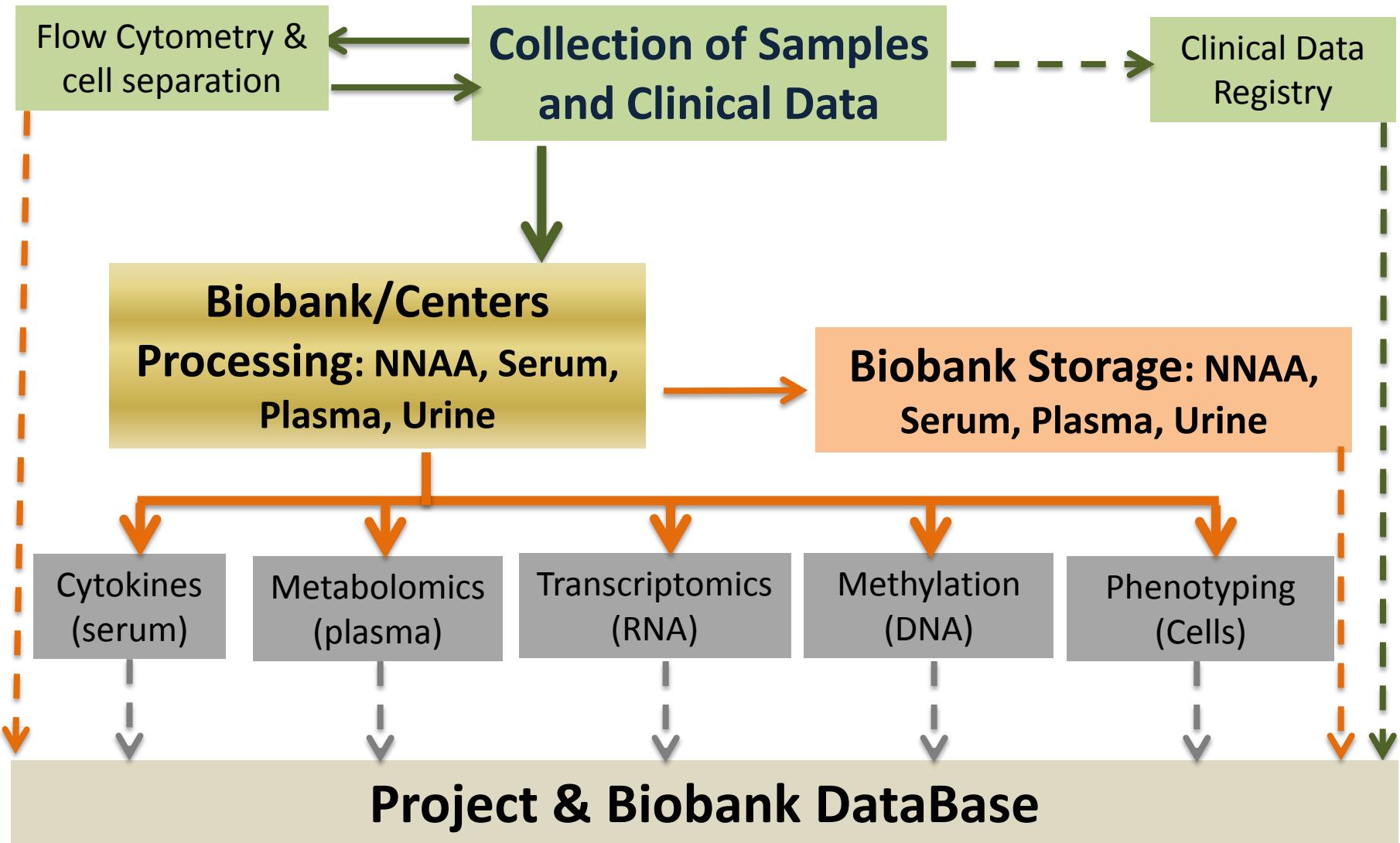
BAG CONTAINING OBTENTION MATERIAL.



Innovative Medicines Initiative

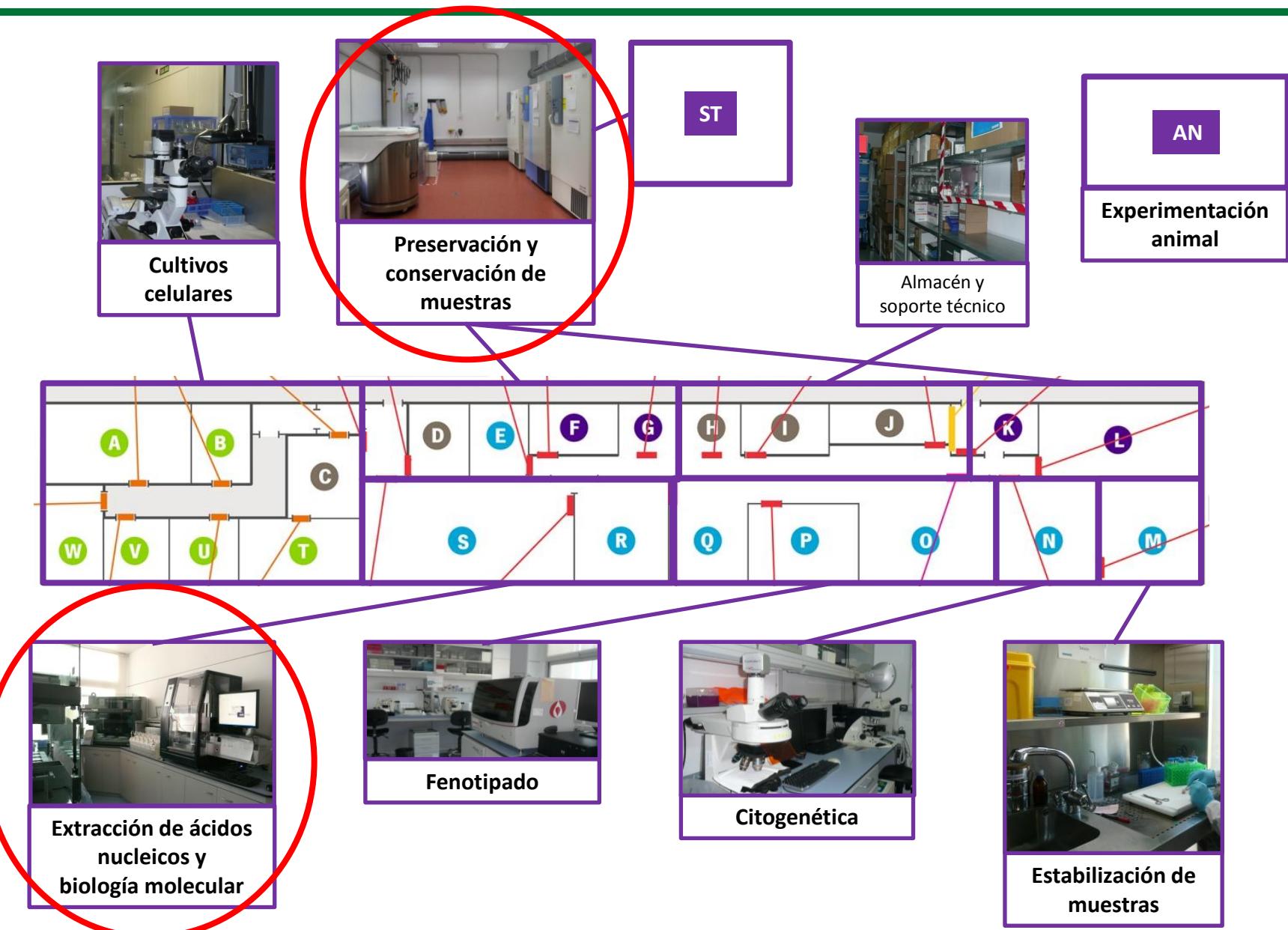


Flow of Biological Samples.



Biobanco del Sistema Sanitario Público de Andalucía

Procesamiento y preservación centralizada de muestras



CURRENT STATE: Biobanking and samples

		PHASE 1 ^a CROSS-SECTIONAL COHORT	PHASE 2 CROSS-SECTIONAL COHORT	INCEPTION COHORT
DONATIONS		302	2921	626
P R O C E S S I N G	SENT KITS	302	2112	469
	EDTA PLASMA	302	206	0
	CITRATE PLASMA	302	18	0
	SERUM	302	228	19
	DNA	302	278	47
	URINE	302	232	2
	RNA	302	491	0
	DOCUMENTS AND SAMPLES	1497 DOCUMENTS AND SAMPLES RECEIVED IN BIOBANK		253 DOCUMENTS AND SAMPLES RECEIVED IN BIOBANK

COMPLETED



Biobanco del Sistema Sanitario Público de Andalucía
CONSEJERÍA DE IGUALDAD, SALUD Y POLÍTICAS SOCIALES

Financiado por



Instituto
de Salud
Carlos III



Unión Europea
Fondo Europeo
de Desarrollo Regional
"Una manera de hacer Europa"

Integrado en



Red Biöbancos
Instituto de
Salud Carlos III



SéAP-IAP
[Sociedad Española de Anatomía Patológica]

Certificado por



NODO GRANADA

THANKS