

FPS groups are looking for R2 (postdoctoral) researchers who can apply for competitive HR grants from the 2022 call of the *Agencia Estatal de Investigación* of the *Ministerio de Ciencia e Innovación*. Specifically:

AYUDAS JUAN DE LA CIERVA 2022 / JUAN DE LA CIERVA GRANTS

Submission of applications: **from 24 January to 13 February 2023 at 14:00h.**

Eligibility requirements:

- Hold a **doctoral degree** obtained between 1 January 2021 and 31 December 2022. In the case of disabled participants, the date of obtaining the doctorate degree must be between 1 January 2020 and 31 December 2022.
- Apply to join an R&D centre other than the one where you did your pre-doctoral training.
- Not having applied to the *Ramón y Cajal* grants 2022 call, by the deadline.
- Not being a beneficiary of a grant from previous *Juan de la Cierva*, *Formación Posdoctoral*, *Juan de la Cierva-formación* o *Juan de la Cierva incorporación* calls. A beneficiary of these actions means a person included in any of the award resolutions of previous calls for these actions, regardless of whether the researcher joined the R&D Centre or not.

[More information](#)

AYUDAS RAMÓN Y CAJAL 2022/ RAMON Y CAJAL GRANTS

Submission of applications: **from 19 January to 9 February 2023 at 14:00h.**

Eligibility requirements:

- Hold a **doctorate degree**.
 - For general access candidates, the date of obtaining the doctoral degree must be between 1 January 2012 and 31 December 2020.
 - For candidates who, within the general round, apply for talent attraction support, they must have had an uninterrupted professional link in their postdoctoral stage with foreign research organisations since at least 1 January 2020 and up to the start date of the application deadline.
- Not being a beneficiary of a grant from previous calls for proposals under the *Ramón y Cajal* action.
- Not be a beneficiary of *Ayudas Juan de la Cierva-Formación* or *Ayudas Juan de la Cierva-Incorporación*, except for those who have received them for at least one year.
- Not submitting more than one application to this call for proposals.
- After the award, the selected person must have spent at least twenty-four months, either continuously or discontinuously, in R&D Centres other than the one with which the incorporation agreement is signed. The twenty-four month period will be counted from the date on which the PhD degree is obtained until the last day of the deadline for submitting the incorporation agreements.

[More information](#)

Information on the host group:

AYUDAS JUAN DE LA CIERVA 2022/ JUAN DE LA CIERVA GRANTS

- 1. Group:** Metabolism, Immunology and Cardiovascular Risk Group
Main Researcher of the Project: Inés Pineda Torra. Research Centre CABIMER (Andalusian Centre of Molecular Biology and Regenerative Medicine).

Research line in which the candidate will work: Cardiovascular risk and lipid metabolism: age & sex differences

Summary of research line: We use blood metabolomic and proteomic profiles and transcriptomic approaches coupled with bioinformatic analyses to understand cardiovascular risk in women and establish sex differences with men. We focus our molecular work on human immune cells and use mouse models to validate molecular hits.

Profile of the desired candidate:

- Bsc in Health related specialties (eg. Biology, Biochemistry, Biotechnology, Pharmacy, Medicine)
- Expertise in research related with immune or metabolic diseases (eg. transcriptomic or metabolomic analyses, OR with immune cells OR with experimental animal models of metabolic diseases).

More information about the research group here: <https://www.cabimer.es/en/research-groups/metabolism-immunology-and-cardiovascular-risk/>

Main researcher contact: ines.pineda@cabimer.es

Twitter (@inespinedatorra)

- 2. Group:** Retinal Degeneration, from genetics to therapy.
Main Researcher of the Project: Francisco Javier Díaz Corrales. Research Centre CABIMER.

Research line in which the candidate will work: We are interested in developing advanced therapies for retinal degenerative diseases and studying the molecular mechanism of retinal cell degeneration.

Profile of the desired candidate:

- We are looking for a motivated young researcher who wants to work in translational medicine and vision sciences.

More information about the research group here: [Retinal degeneration: from genetics to therapy – Cabimer](#)

Main researcher contact: francisco.diaz@cabimer.es

3. Group: Genetics of Complex Diseases.

Main Researcher of the Project: Concepción Marañón. GENYO Centre.

Research line in which the candidate will work: High-content immunophenotyping of circulating populations in systemic autoimmune diseases

Summary of research line: Whole blood samples will be obtained from patients of the different diseases under study (systemic lupus erythematosus, inflammatory bowel disease, multiple sclerosis and controls recruited by 3TR (www.3tr-imi.eu)). The samples will be used to carry out dense immunophenotyping using mass cytometry (CyTOF) by means of a panel of surface markers encompassing the whole diversity of circulating cell populations. This panel will be combined with functional markers, such as costimulatory molecules and activation of signalling cascades (phosphoflow). The resulting data will be analysed using semi-automated pipelines and unsupervised clustering analyses as in (Rybakowska et al 2021). The final profiles will be validated using techniques closer to the clinical practice, such as conventional fluorescence cytometry. The resulting data will be key to determine both the cell types responsible of the different pathogenic responses, and the specific activation profiles associated with disease severity and treatment responses.

Profile of the desired candidate:

- PhD in the field of immunology
- Experience in high-content cytometry

More information about the research group here: <https://www.genyo.es/grupos-de-investigacion/genetica-de-enfermedades-complejas/> @MaranonGenyo

Main researcher contact: concepcion.maranon@genyo.es

4. Group: Proteases and Extracellular Matrix.

Main Researcher of the Project: Dr Juan Carlos Rodríguez-Manzaneque, GENYO-Granada.

Research line in which the candidate will work: Control of tumor progression and its immune response by remodelling the extracellular matrix.

Summary of research line: Fight against cancer requires a deep knowledge of multiple players within the complex tumor heterogeneity, including the composition and nature of the dynamic extracellular matrix (ECM). In this scenario, many studies of extracellular proteases as modifiers of the tumor microenvironment have revealed their participation as oncogenic as well as tumor-protective molecules. Given their extracellular nature, the identification of their substrates together with their modulatory tasks promoting or inhibiting immune infiltration will disclose new and underexplored targeting pathways.

Profile of the desired candidate:

- Expertise in the study and characterization of cell populations, using techniques such as cytometry, western blot, multiplex, and others.
- Expertise in the use and manipulation of tumor mouse models.
- Advanced knowledge and understanding of the complexity of tumor heterogeneity.
- Knowledge of bioinformatic tools to analyze RNAseq and cancer-related big data.

More information about the research group here: <https://www.genyo.es/research-groups/proteases-and-extracellular-matrix/?lang=en>

Main researcher contact: juancarlos.rodriguez@genyo.es

5. Group: Gene Regulation, Stem cells and Development.

Main Researcher of the Project: Dr. Verónica Ramos Mejía, Pfizer - Universidad de Granada - Junta de Andalucía Centre for Genomics and Oncological Research (GENYO)

Research line in which the candidate will work: Modeling carcinogenesis with stem cells

Summary of research line: As cancer stem cells are closely related to normal stem cells, gaining knowledge on the cellular and molecular similarities and differences between a normal stem cell and its malignant counterpart, will help us to understand, identify and attack cancer stem cells

Profile of the desired candidate:

- We are looking for an enthusiastic candidate enjoying intellectual challenge and out-of-the-box thinking, with substantial skills in molecular biology and cell biology, and extensive expertise with human Pluripotent Stem Cells Models. Basic bioinformatics and team membership skills within multidisciplinary research teams are a strong plus.

More information about the research group here: <https://www.genyo.es/research-groups/gene-regulation-stem-cells-and-development/?lang=en#1544075999562-00bd44e5-e6be>

Main researcher contact: veronica.ramos@genyo.es

- 6. Group:** Gene therapy applied to advanced therapy.
Main Researcher of the Project: Researcher Dr. Karim Benabdellah. Research Centre GENYO.

Research line in which the candidate will work:

The main research line where the candidate will be involved are:

1. Improvement of the outcome of CAR-T cell therapy in AML, by the design and the validation of a combinatorial approach involving the use of “Off-the-shelf” CAR-T lymphocyte.
2. The development of an allogeneic exosome-based system that allows the selective recognition of AML cells and the blockade of humoral immunosuppression

Profile of the desired candidate:

- Previous experience in Gene editing
- Authored papers in the field (Articles Q1 as First or last authors).
- Previous skill with mice handling is essential.
- Previous experience in FACS procedure and analysis is indispensable

More information about the research group here:

[Edición Genómica aplicada a Terapias Avanzas \(eGATA\) – Genyo](https://www.imibic.org/)
<https://www.imibic.org/>

Main researcher contact: karim.benabdel@genyo.es

- 7. Group:** Biomedical Magnetic Resonance Lab (BMRL).
Main Researcher of the Project: Researcher María Luisa García-Martín. Research Centre “Instituto de Investigación Biomédica de Málaga y Plataforma en Nanomedicina (IBIMA Plataforma BIONAND).

Research line in which the candidate will work: Development of theranostic magnetic nanosystems to tackle solid tumors.

Summary of research line: This research is focused on the development of multifunctional magnetic metallic nanoparticles with capabilities as MRI probes and as therapeutic agents acting as hyperthermia mediators and/or delivery carriers, with special emphasis on tumor targeting strategies.

Profile of the desired candidate:

- Ph.D. in an area of knowledge related to the work to be developed (Health Sciences, Biological Sciences, Biotechnology, Chemical Sciences, Chemical Technology, Nanomedicine).
- Experience in the synthesis, functionalization, and characterization of metallic nanoparticles.
- Experience in organic chemistry.
- Knowledge of preclinical Imaging techniques, preferably MRI.
- Fluency in English spoken and written.

More information about the research group here:

https://www.ibima.eu/grupo_investigacion/biomedical-magnetic-resonance-laboratory-bmrl/

Main researcher contact: mlgarcia@ibima.eu

8. Group: Computational Medicine Platform

Main Researcher of the Project: Researcher Joaquín Dopazo Blázquez. Clinical Bioinformatics Area, Hospital Virgen del Rocío, Andalusian Public Foundation Progress and Health-FPS (Seville, Spain)

Research line in which the candidate will work: Genomics of viral and bacterial pathogens. Phylogenetic and epidemiological analysis.

Profile of the desired candidate:

- Bioinformatician with experience in the use of bioinformatics programmes for the processing and analysis of genomic sequences of viruses and bacteria, phylogenetic analysis, metagenomics and programming skills.

More information about the research group here:

[IBiS: Instituto de Biomedicina de Sevilla - Investigación - Oncohematología y Genética - Medicina Computacional de Sistemas - Dopazo Blázquez, Joaquín \(ibis-sevilla.es\)](http://IBiS: Instituto de Biomedicina de Sevilla - Investigación - Oncohematología y Genética - Medicina Computacional de Sistemas - Dopazo Blázquez, Joaquín (ibis-sevilla.es))

Main researcher contact: joaquin.dopazo@juntadeandalucia.es

9. Group: Computational Medicine Platform

Main Researcher of the Project: Researcher Joaquín Dopazo Blázquez. Clinical Bioinformatics Area, Hospital Virgen del Rocío, Andalusian Public Foundation Progress and Health-FPS (Seville, Spain)

Research line in which the candidate will work: Analysis of real-world clinical data for projects to generate predictors of endpoints from clinical data from the Andalusian Population Health Database, with detailed clinical information on more than 13 million patients

Profile of the desired candidate:

- Data scientist with experience in large database management, artificial intelligence and programming skills

More information about the research group here:

[IBiS: Instituto de Biomedicina de Sevilla - Investigación - Oncohematología y Genética - Medicina Computacional de Sistemas - Dopazo Blázquez, Joaquín \(ibis-sevilla.es\)](http://IBiS: Instituto de Biomedicina de Sevilla - Investigación - Oncohematología y Genética - Medicina Computacional de Sistemas - Dopazo Blázquez, Joaquín (ibis-sevilla.es))

Main researcher contact: joaquin.dopazo@juntadeandalucia.es

AYUDAS RAMÓN Y CAJAL 2022

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1. Improvement of the outcome of CAR-T cell therapy in AML, by the design and the validation of a combinatorial approach involving the use of “Off-the-shelf” CAR-T lymphocyte.
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Profile of the desired candidate:

- Previous experience in Gene editing (Articles Q1 as First or last authors)
- Authored paper in the field (Articles D1-Q1 as First or last authors)
- PI or collaborator in project related to immunotherapies and/or Gene therapy.
- Visits to international researcher center

More information about the research group here:

[Edición Genómica aplicada a Terapias Avanzas \(eGATA\) – Genyo](https://www.imibic.org/)
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Profile of the desired candidate:

- Ph.D. in an area of knowledge related to the work to be developed (Health Sciences, Biological Sciences, Biotechnology, Chemical Sciences, Chemical Technology, Nanomedicine).
- Experience in the synthesis, functionalization, and characterization of multifunctional nanomaterials.
- Experience in organic chemistry.
- Knowledge of preclinical Imaging techniques, preferably MRI.

- Experience in magnetic or optical hyperthermia.
- Experience in tumor animal models.
- Fluency in English spoken and written.
- Good track record of scientific publications related to the area of research.

More information about the research group here:

https://www.ibima.eu/grupo_investigacion/biomedical-magnetic-resonance-laboratory-bmrl/

Main researcher contact: mlgarcia@ibima.eu

3. Group: Computational Medicine Platform

Main Researcher of the Project: Researcher Joaquín Dopazo Blázquez. Clinical Bioinformatics Area, Hospital Virgen del Rocío, Andalusian Public Foundation Progress and Health-FPS (Seville, Spain)

Research line in which the candidate will work: Genomics of viral and bacterial pathogens. Phylogenetic and epidemiological analysis.

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Main researcher contact: joaquin.dopazo@juntadeandalucia.es

4. Group: Computational Medicine Platform

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