Junta de Andalucía
Consejería de Sanidad, Presidencia y Emergencias
Fundación Pública Andaluza Progreso y Salud

FPS groups are looking for R2 researchers who can apply to Juan de la Cierva 2025 call of the of Agencia Estatal de Investigación.

If you are interested, please, in addition to submitting the application, write to the principal investigator of this line, attaching your CV and a cover letter.

Research groups:

1. Group (Research Center): Applied Genome Editing for Advanced Therapies (GENYO-Granada)

Principal Investigator of the Project: Karim Benabdellah

Research line in which the candidate will work: Allogeneic CAR-T Cell Therapy for AML

Summary of research line: The research line is framed within the recently funded 2025 Knowledge Generation Plan project by the Spanish State Research Agency (Agencia Estatal de Investigación, Ministry of Science, Innovation and Universities). It aims to improve the efficacy and safety of allogeneic CAR-T therapy in relapsed/refractory AML through the development of universal anti-CLL-1 CAR-T cells, lipid nanoparticles targeting immunosuppressive pathways, establishment of a comprehensive AML cell bank, investigation of AML-induced immune evasion, and preclinical validation of combinatorial strategies to enhance antitumor activity.

Profile of the desired candidate:

- PhD in Molecular Biology, Genetics, Immunology, or related fields.
- Experience in cell therapy, molecular biology, or gene editing (CRISPR).
- Knowledge of AML biology and/or immunotherapy is highly desirable.
- Motivated, collaborative, and capable of working in a multidisciplinary research environment.

More information about the research group here: Applied Genome Editing for Advanced Therapies - GENyO

Principal investigator email: karim.benabdel@genyo.es

2. Group (Research Center): Proteases and Extracellular Matrix (GENYO-Granada)

Principal Investigator of the Project: Juan Carlos Rodríguez-Manzaneque

Research line in which the candidate will work: Immunomodulatory role of extracellular matrix components during tumor progression.

Summary of research line: Fight against cancer requires a deep knowledge of multiple players within the complex tumor heterogeneity, including the functional interaction among the immune compartment and the dynamic extracellular matrix (ECM).

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Profile of the desired candidate:

- Expertise in the study and characterization of cell populations in tumors, using techniques such as immunohistochemistry, cytometry, or others.
- Knowledge of the use of tumor mouse models and their relationships with specific human tumors.
- Knowledge of bioinformatic tools to analyze RNAseq and disease-related big data.

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

Principal investigator email: juancarlos.rodriguez@genyo.es

3. Group (Research Center): Fundación Pública Andaluza Progreso y Salud (FPS), Andalusian Public Health System (SSPA)

Principal Investigator of the Project: Miguel Ángel Armengol de la Hoz

Research line in which the candidate will work: Integrated line combining: (1) AI-based Clinical Decision Support Systems (AI-CDSS) development, (2) evaluation and explainability of AI systems in healthcare, and (3) large-scale Real-World Data (RWD) analytics.

Summary of research line: The research line combines model development, validation and regulatory-aligned evaluation of AI systems applied to healthcare. It includes the design of predictive models, preprocessing of real-world clinical datasets, explainability and fairness assessment, and external validation following European methodological and regulatory frameworks. The candidate will work with large-scale EHR data from the Andalusian Public Health System to build, optimize, evaluate and validate AI-based tools for clinical decision support across multiple care settings.

Profile of the desired candidate: A motivated early-career researcher with background in machine learning, biomedical data science, biostatistics, computer science or related disciplines. Skills in Python, data preprocessing, model development and evaluation are desirable. Experience with clinical data, deep learning, explainability (XAI) or health-related research will be positively valued. Strong analytical, communication and collaborative skills are essential.

More information about the research group here: The Data Science Laboratory (LCD) is part of the Andalusian Public Health System and conducts research in AI for healthcare, real-world data analytics, and regulatory evaluation of digital health technologies within national and European initiatives.

Principal investigator email: **fpsdata.fps@juntadeandalucia.es**

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4. **Group (Research Center):** Retinal Neurodegeneration and Advanced Therapies – CABIMER (Andalusian Center for Molecular Biology and Regenerative Medicine)

Principal Investigator of the Project: Dr. Francisco J. Díaz-Corrales

Research line in which the candidate will work: Development of gene therapy approaches for degenerative retinal diseases using non-viral vectors and advanced iPS-based models, including organoids.

Summary of research line: Our group focuses on understanding the cellular and molecular mechanisms underlying retinal degeneration and on developing advanced therapeutic strategies for inherited and acquired vision disorders. The research line integrates the generation of induced pluripotent stem cells (iPSCs), directed differentiation into retinal pigment epithelium and photoreceptor cells, gene editing (CRISPR/Cas9), and functional validation using in vitro models (organoids, cell 3D and 2D cultures) and in vivo systems. The aim of the project is to optimize gene therapy strategies based on nanoparticles and non-viral vectors to correct mutations associated with retinal dystrophies, with translational potential toward future clinical applications.

Profile of the desired candidate: We are seeking a highly motivated researcher with a background in biomedicine, cell biology, biotechnology, or a related field. Experience in molecular biology, cell culture, gene editing, handling of iPSCs, retinal models, or organoids will be positively valued. Strong initiative, willingness to learn, teamwork skills, and the ability to communicate scientific results in English are expected.

More information about the research group here: Retinal neurodegeneration and advanced therapies – Cabimer

Principal investigator email: francisco.diazcorrales@cabimer.es