

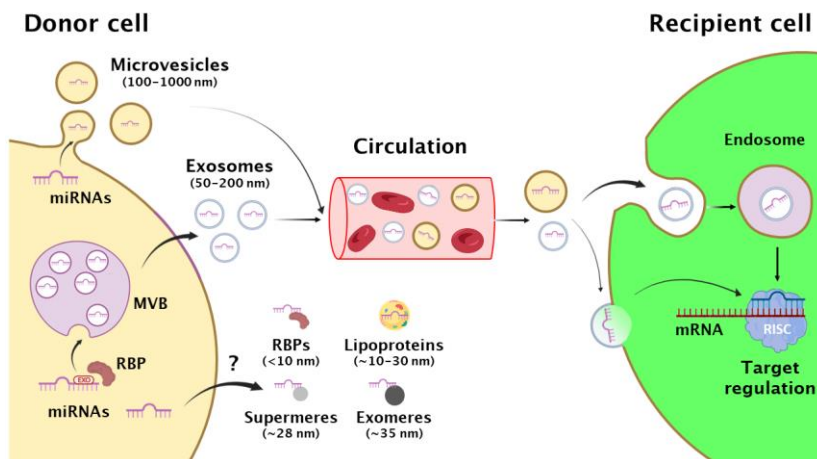
Postdoc position in lab: “Novel means of intertissue communication”,

Centro Nacional de Biotecnología (CNB), Madrid, España

IP: Rubén García-Martín

Our lab is focused on studying new modes of intercellular communication, including extracellular vesicles (EVs), protein complexes and lipoproteins. EVs have emerged as novel vehicles for a selective repertoire of proteins, RNAs, lipids and metabolites, which are delivered to target tissues and cells at a distance, thus representing a new hormone-like communication system. EVs are involved in a vast list of physiological and pathological processes, including metabolic diseases, cancer, cardiovascular diseases and many others. Unfortunately, due to the lack of in vivo tools, most of the information we know about this mode of communication derives from in vitro

studies, which display multiple limitations. We aim to characterize the major EV-mediated communication axes in vivo by the application of an innovative set of bioengineered tools. In this project, the applicant will carry out an in vivo project for the study of EV cargo and its implications in the regulation of systemic metabolism, inflammation and metabolic disorders. Experiments will consist in the application of multiple in vitro biotechnology tools, molecular biology, viral vectors, etc. as well as analysis of tissue and systemic metabolism and inflammation.



From Diez-Roda, Perez-Navarro & Garcia-Martin, *Int J Mol Sci* 2024

We are looking for a postdoctoral candidate to apply for a Juan de la Cierva (Spanish State Research Agency, AEI; please note tight deadline below) fellowship based on the following criteria:

- PhD in a topic related to Metabolism and/or Immunity, awarded between Jan 1st, 2023 and Dec 31st 2024.
- At least one first-author publication (excluding reviews).
- Expertise in molecular biology techniques (molecular cloning, qPCR, immunoblotting), omic profiling and in vivo work with rodents.

We offer the possibility to join a lab located in the rich scientific environment of CNB, recently awarded with Excellence Severo Ochoa distinction, with full access to multiple state-of-the-art facilities. Juan de la Cierva fellowship would cover 2 years of covered gross salary (34.600 €/y) with additional 7.400 € for project-related expenses. Expected incorporation date is end 2025/begin 2026.

More info in: <https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-juan-cierva-2024/convocatoria>

Candidates please send CV, including publication record, and motivation letter to:

Ruben Garcia-Martin, Ruben.garcia@cnb.csic.es

deadline: January 8th 2025

Relevant literature:

Diez-Roda, Perez-Navarro, Garcia-Martin. *Int J Mol Sci* 2024; <https://doi.org/10.3390/ijms252413488>

Garcia-Martin R et al. *Nature*, 2022, Jan;601(7893):446-451. 3.

Garcia-Martin R, et al. *Cell Reports*, 2022, Jan 18;38(3):110277

Mori M, Ludwig R*, Garcia-Martin R*, et al. *Cell Metabolism*, Aug 2019. 30(4):656-673.