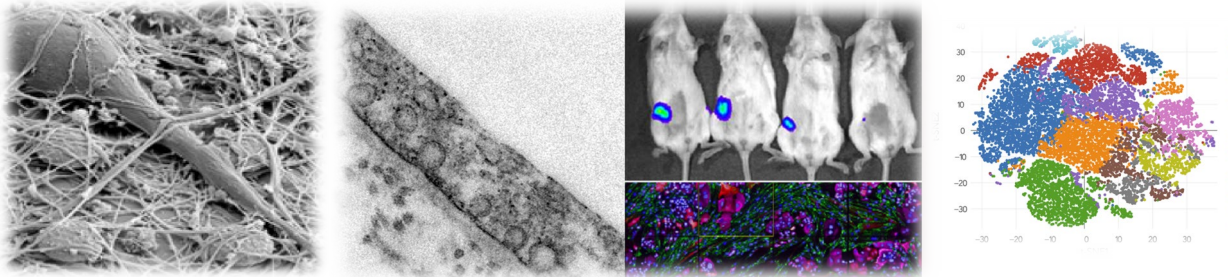


Postdoctoral position: links between tumor stromal remodelling, lipid metabolism and immunotherapy



The **Mechanoadaptation and Caveolae Biology Lab** at CNIC, led by Prof. Miguel Angel del Pozo is recruiting a postdoctoral fellow to lead an emerging research line on mechanisms regulating tumor immunity through stromal remodelling. The selected candidate will combine state-of-the-art immunobiology and exosome biology, advanced *omics* and biophysics with advanced mouse models of disease, in collaboration with top laboratories in the field (Dr. David Sancho, CNIC-Madrid, and Prof. Ignacio Melero CIMA-Navarra), to explore the cellular and molecular links between tumor stromal architecture and tumor immunomodulation. The project has recently been awarded an **AECC grant** (“Caveolin-1-dependent stromal remodeling: a potential novel target for cancer immunotherapy”).

We welcome **highly motivated candidates** to apply to the upcoming **2021 Juan de la Cierva Postdoctoral programmes**. Eligible candidates should possess a **strong academic record**, with first authorship of at least **one Q1 publication**. Previous experience preferentially in **immunology**, but also in **extracellular matrix biology, tumor immunity, proteomics**, and/or research with **animal models**, will be very positively valued.

A PDF enclosing a **letter of motivation, CV and contact details of 3 references** should be addressed to the team’s Scientific Manager (msancheza@cnic.es). Informal inquiries for further information can be requested at +34 914531200, ext. 1161.

Links of interest:

<https://www.cnic.es/en/investigacion/mechanoadaptation-and-caveolae-biology>
https://www.aecc.es/sites/default/files/content-file/24.09_PROYECTOS_AECC_2020.pdf
www.aecc.es/es/investigacion/proyectos-aecc/descubren-como-actua-molecula-fabricar-escudo-protector-tumores
<https://twitter.com/Caveolab/status/1471871992521539589> <https://twitter.com/madelpozo67/status/1341775826719793153>

SELECTED PUBLICATIONS:

1. **M. García-García, [...] & MA del Pozo.** “Mechanical control of nuclear import by Importin-7 is regulated by its dominant cargo YAPs” accepted in *Nat Commun* (2021)
2. **L. Albacete-Albacete, [...] MA del Pozo.** “ECM deposition is driven by caveolin1-dependent regulation of exosomal biogenesis and cargo sorting”. (2020) *J Cell Biol* 219(11):e202006178. doi: 10.1083/jcb.202006178.
3. **MA del Pozo, F. Lolo, A. Echarri.** “Caveolae: mechanosensing and mechanotransduction devices linking membrane trafficking to mechanoadaptation”. (2020) *Curr Op Cell Biol* Nov 11;68:113-123. doi: 10.1016/j.ceb.2020.10.008.3
4. **A. Echarri, [...] MA del Pozo.** “An Abl-FBP17 mechanosensing system couples local plasma membrane curvature and stress fiber remodeling during mechanoadaptation”. (2019) *Nat Commun* 10, 5828
5. **Moreno-Vicente R, [...] MA del Pozo.** “Caveolin-1 Modulates Mechanotransduction Responses to Substrate Stiffness through Actin-Dependent Control of YAP”. (2018) *Cell Rep* 25(6):1622-1635.e6
6. **S Minguet, [...] MA del Pozo.** “Caveolin-1-dependent BCR nanoscale organization prevents B cell malfunction and autoimmunity”. (2017) *Nat Immunol* (10):1150-1159
7. **I Navarro-Lérida, [...] MA del Pozo.** “Rac1 nucleocytoplasmic shuttling drives nuclear shape changes and tumor invasion”. (2015). *Dev Cell* 32:318-334. # Highlighted by Dev Cell “Previews”
8. **R Strippoli, [...] MA del Pozo.** “Caveolin-1 deficiency induces a MEK-ERK1/2-Snail-1-dependent epithelial-mesenchymal transition and fibrosis during peritoneal dialysis”. (2015) *EMBO Mol Med.* Mar;7(3):357
9. **RG Parton, MA del Pozo.** “Caveolae as plasma membrane sensors, protectors and organizers” (2013) *Nat Rev Mol Cell Biol* Feb;14(2):98-112
10. **I Navarro-Lérida, [...] MA del Pozo.** “A palmitoylation switch mechanism regulates Rac1 function and membrane organization”. (2012). *EMBO J* 31(3):534-51.
11. **JG Goetz, [...] MA del Pozo** “Biomechanical remodeling of the microenvironment by stromal caveolin-1 favors tumor invasion and metastasis” (2011) *Cell* Jul 8;146(1):148-63