

Ester POLO - CV

Ramon y Cajal researcher at the Center for Research in Biological Chemistry and Molecular Materials (CiQUS) and the Biochemistry and Molecular Biology Department (University Santiago de Compostela, USC, Spain).

She graduated in Biochemistry from the University of Zaragoza (UZ, Spain) and completed her PhD (2013, UZ) at the Institute of Nanoscience of Aragon (INA, UZ), under the supervision of Prof. J.M. de la Fuente, and Prof. J. Santamaría, where she developed novel nanoparticle-based biosensors for ultralow/fast detection of cancer markers. She then moved to the CBNI (Center for BioNano Interactions, University College Dublin) as a postdoctoral researcher in the group of Prof. K Dawson. Her research there focused on the study and in situ characterization of NPs in relevant biological media, gaining knowledge of the bionano-interface, and understanding the interactions between NPs and cellular membranes, and biological barriers. Awarded the Juan de la Cierva Incorporación fellowship, she moved to CIQUS (USC, 2017) to work on developing stimuli-responsive nanoformulations for smart drug delivery design. Later she received the Ramon y Cajal fellowship (2020) and continued working as Junior PI at the Bionanotools BNT lab (CiQUS), establishing a new research line aimed at producing next-generation of smart biomimetics materials that mimic natural cellular structures, for drug delivery applications.