Curruculum vitae Alejandro Chamorro Garcia

Alejandro Chamorro Garcia graduated in Biotechnology and Biochemistry at the Autonomous university of Barcelona (**UAB**) in 2009. He finished his master in Nanotechnology at the Centro Nacional de Microelectronica in Barcelona (CNM-IMB) in 2011, in which he developed novel soft lithographic techniques to replicate nano and microstructures. In 2012 he joined prof. Arben Merkoçi's group at the Institut Catala de Nanociencia i Nanotecnologia (**ICN2**) to pursue the PhD in biotechnology, where he worked in electrochemical biosensors, nanomaterials and paper-based sensors (lateral flow immunoassays, LFIA) to develop biosensing assays. At this stage he collaborated with a research hospital, Hospital San Joan de Deu (**HSJD**), to develop a LFIA to detect a candidate protein of tumor biomarker (Parathyroid hormone like hormone, PTHLH). During the PhD he did a 4-month internship at University California Santa Barbara (**UCSB**) at prof. Kevin Plaxco's lab, where he explored the incorporation of aptamer modified gold nanoparticles to build EAB sensors on SPCE. He completed his PhD in 2015 with international doctorate mention and later received the special award for doctoral studies 2015-2016 by the UAB. In 2016 he got a position at a small biotech company, **Nanoimmunotech S.L.** (Vigo, Spain), where he joined the team responsible of developing and validating a biosensor based in HEATSENS technology (PYME instrument, EU project) for the detection of pathogenic bacteria (Salmonella and Listeria) and allergens (gluten) in food. In 2018 I received a H2020 Marie Curie Individual fellowship – Global Fellowship, to do a 2 year postdoctoral period at Prof. Kevin Plaxco group at **UCSB** and 1 year at prof. Francesco Ricci's group at the University of Rome Tor Vergata (**URTV**) to work in the modulation of response properties of receptors in biosensors. He was then awarded a postdoctoral fellowship from the Fondazione Umberto Veronesi to continue the work, at University of Rome Tor Vergata, related to the development of EAB sensors for detection of a chemotherapeutical drug (methotrexate). In 2022 was awarded a "Young researcher-MSCA" project by the MUR with European funds and is currently hired as a researcher (RTDA) at Tor Vergata working in nature inspired sensing mechanisms to program smart DNA based biosensors for personalized medicine.

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