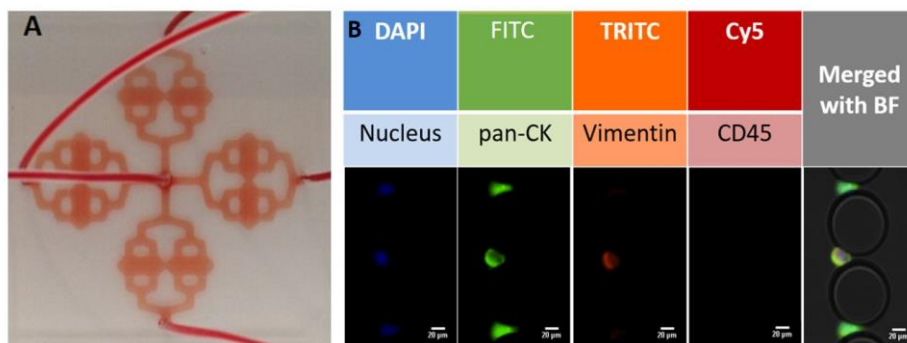


Lorena Diéguez

Staff researcher in the Diagnostics Tools and Methods research group at INL

Lorena Diéguez is since 2014 a Staff Researcher at the International Iberian Nanotechnology Laboratory (INL) focused in the development of biomicrofluidic devices mainly devoted to Translational Medical Research in close collaboration with Hospitals. Her research activities are currently focused on the development of integrated biosensing systems and nanobioengineered diagnostics microsystems for the isolation and characterization of Tumor Cells from body fluids of cancer patients, as well as the development of microfluidic organ-on-a-chip 3D models. Lorena is also very interested in translating her technology from the lab to the clinic, and she has been very active in her endeavours as entrepreneur. She has been lately focused on securing Intellectual Property and is now engaged in the development of a spin-off company in the field of liquid biopsy.

She obtained her Bachelor's degree in Physics and her Masters in Optoelectronics at the University of Santiago de Compostela in 2005, then completed her Masters in Nanoscience and Nanotechnology at the University of Barcelona (UB) in 2007 and obtained her PhD in Nanosciences in optical and electrochemical biosensors at the Institute for Bioengineering of Catalonia and the ETH Zürich. Her postdoctoral research at the University of South Australia (UniSA) from 2010 was devoted to the study of rare cells from biological samples using microfluidics.



A) Whole blood is filtered through our microfluidic device. **B)** Immunofluorescence micrograph of CTCs isolated by the microfluidic device from the peripheral blood of a metastatic colorectal cancer patient.