

Aurora Patrizi is a chemist and a PhD student in *Quantum Technologies and Nanoscience* at Scuola Normale Superiore in collaboration with Fondazione Pisana per la Scienza (FPS). Her research focuses on the development and characterization of nanosystems for Point-of-Care (PoC) diagnostic applications.

She obtained her Master's degree in Organic Chemistry from Sapienza University of Rome under the supervision of Prof. Stefano Di Stefano, learning organic synthesis of supramolecular systems and techniques like NMR spectroscopy and GC-MS.

She held a research grant at CNR-ISB (Sapienza University of Rome) where she learned to synthesize liposomes and chitosan-based nanoparticles to encapsulate antimicrobial peptides against ESKAPE pathogens. These nanosystems were characterized with Dynamic Light Scattering (DLS) and UV-Vis spectrophotometry.

Now, her PhD work focuses on the synthesis and testing of polymeric and magnetic nanoparticles integrated into Lateral Flow Assays for the rapid and sensitive detection of disease biomarkers.