

Rachele Rossi, PhD - CV

Rachele Rossi graduated in Pharmacy from the University of Milan in 2022 and earned her PhD with the *Doctor Europaeus* designation in March 2026 from the University of Pavia. Her research focuses on optimizing lipid nanoparticles (LNPs) for nucleic acid delivery using microfluidics and Design of Experiments (DoE). She conducted comprehensive multi-instrumental characterization studies to evaluate the nanoparticles' physicochemical properties and investigated the protein corona identity of LNPs in biological fluids. Through a collaboration with the University of Exeter, she developed brain organoid models to evaluate the uptake and efficacy of these engineered LNPs.