

Biosketch Francesca Gilulimondi

Dr. Francesca Giulimondi obtained her PhD in Molecular Medicine in 2021 at Sapienza University of Rome where she is currently a Tenure-Track Researcher (RTT) in the NanoDelivery Lab led by Prof. Giulio Caracciolo and Prof. Daniela Pozzi. During her PhD, she carried out a research internship at the Hubrecht Institute in Utrecht, The Netherlands, where she worked on pancreatic cancer organoid models.

Her research focuses on bio-nano interactions and the development of lipid-based nanoplatfroms for gene delivery. In particular, her work investigates the biomolecular corona and its impact on the biological identity and performance of lipid nanocarriers, with the aim of exploiting these interactions to improve targeted nucleic acid delivery and cancer therapy.

In 2022, she was awarded a three-year AIRC Italy Post-Doctoral Fellowship for a project focused on lipid nanoparticles for targeted gene delivery in pancreatic cancer cells. In 2025, she was awarded a FIS 3 Starting Grant for the project “Bioengineered lipid nanoparticles for targeted intranasal gene delivery in brain cancer therapy”, aimed at developing innovative lipid-based nanoplatfroms for targeted gene delivery to brain tumors.