

Francesco Mattia BONANNI - CV

Francesco Mattia Bonanni is a PhD Fellow at the NMR Core Facilities of the Istituto Superiore di Sanità, where he investigates the metabolism of phosphatidylcholine in triple-negative breast cancer using NMR spectroscopy to investigate lipid metabolism and its implications for cancer progression. He completed his Master's degree in "Cell Biology and Technology" at the University of Rome "La Sapienza" in 2023, with a thesis titled "Study of Exosome Biogenesis Using a Fluorescent Lipid Probe." This work was part of an internship at the Istituto Superiore di Sanità, where he gained experience in cell culture, exosome isolation through ultracentrifugation, and their lipid and protein characterization. After his Master's degree, Francesco furthered his expertise with an Erasmus+ internship at the Institute of Bioengineering of Catalunya in Barcelona. There, he worked on 3D cultures of colorectal cancer organoids and fibroblasts, studying the effects of mechanical forces on cellular behavior.