Biography

Arianna Avitabile received her M.Sc. degree in Physics from Sapienza University of Rome in 2024. She is currently pursuing a Ph.D. in Morphogenesis and Tissue Engineering (Biophysics Curriculum) under the supervision of Prof. Luciano De Sio, with co-supervision from Prof. Atsushi Shishido of the Institute of Science Tokyo and Dr. Francesca Petronella of the National Research Council of Italy (CNR). Her research interests focus on the design and fabrication of hybrid nanostructures for biomedical applications such as photothermal water disinfection, rapid and sensitive multi-pathogen detection, and light-triggered biointerfaces. She is also co-founder of **Water Warning S.r.l.**, a spin-off company of Sapienza University of Rome dedicated to the technology transfer and commercialization of nanostructured biosensors for water quality monitoring and decontamination.