

Dr. Lucia Sarcina is currently a research fellow in the Department of Chemistry at the University of Bari. She received her bachelor's degree in Materials Science in 2015 and her master's degree in Materials Science and Technology in 2018, both from the University of Bari, completing part of her studies at the University of Oviedo (Spain) through a Global Thesis Study Award. She completed an industrial PhD program (2019–2022) in Chemical and Molecular Sciences in Bari, focusing on the development of a standalone, disposable bio-electronic HIV sensor for point-of-care applications. Her PhD thesis was awarded the 2023 “Silvio Sammartano” Prize by the Analytical Chemistry Division of the Italian Chemical Society (SCI). At age 32, she is the co-author of 37 publications in international journals, 14 of which as first author. In 2025, she received the “Young Investigator Award” from the international journal *Sensors*. Her expertise lies in the characterization of modified gold surfaces used as transducing systems for the bio-recognition of clinically relevant pathogens. She is currently working on the design and characterization of bio-electronic devices based on electrolyte-gated FETs.