

Short CV of Gabriele Ciasca

Gabriele Ciasca received his Ph.D. in Physics from the University of Rome ROMA3, where he specialized in the development of silicon-based materials for far-infrared laser applications. He expanded his expertise as a Postdoctoral researcher at the University of Rome SAPIENZA, investigating the dynamical structure of intrinsically disordered proteins using synchrotron radiation techniques and molecular dynamic simulations. During his postdoctoral research at CNR-IFN, he focused on developing innovative micro and nanodevices for biomedical and electro-optical applications.

Since 2013, Dr. Ciasca has been a Researcher and later an Associate Professor of Applied Physics at the Faculty of Medicine and Surgery, UCSC (Physics Section). His research centers around advanced microscopy techniques, nanostructures, and biostatistical methods for discovering and validating disease biomarkers, with a primary focus on cancer research. He also served as a visiting scientist at the Institut Laue-Langevin in Grenoble, France, in 2017, as part of a scientific collaboration coordinated by CNR-IOM.

He has successfully secured research funding as a Principal Investigator or participant from diverse sources, including PRIN, the Ministry of Health, AIRC, and Veronesi Foundation. More specifically, he received funding from the Ministry of Health and the Veronesi Foundation to develop a novel liquid biopsy technique based on tumor-derived extracellular vesicle profiling using resonant plasmonic nanostructures in the infrared range.

Gabriele Ciasca is currently involved in teaching multiple bachelor and master courses, including Detector Physics, Modern Physics, Electromagnetism, Physical Science and Statistics, Electric and Electronic measurements, Biomechanics, Basic Statistics, Informatics, Bio-engineering and bio-electronics, and Applied Physics.