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*Head of Joint Research Laboratory* between STMicroelectronics (Multinational Semiconductor Industry, [www.st.com](http://www.st.com)) and University of Messina whose purpose is to carry out research activities and industrial exploitation (technology transfer) in the field of micro-nanotechnologies for advanced sensors.

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*Scientific Advisor of STMicroelectronics* ([www.st.com](http://www.st.com)) in the field of advanced research on innovative sensors.

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*Co-founder* (June 2020) of *Spin off* (Innovative Start Up) *Innova Medical Biotechnologies* (IBMTech - [www.ibmtech.it](http://www.ibmtech.it))

She was graduated in Industrial Chemistry *cum summa laude* at the University of Bologna (Italy) and obtained her Ph.D. in Materials Engineering in 2001. 2000-2019 - R&D Manager at STMicroelectronics (ST), covering several roles in the field of *Advanced Devices* managing and coordinating research activities focused on the development of integrated silicon technology platforms and compatible materials and systems for chemical-physical sensors and biosensors. Member of *ST Technical Staff Steering Committee*, composed by the technical excellence of the company. She accomplished the qualification of the 1<sup>st</sup> Biotechnology (Lab-on-Chip Biotechnology) of STMicroelectronics, compliance with FDA requirements for IVD device, currently commercialised by VeredusLAB (<https://vereduslabs.com/products/molecular-testing-loc/>). She received several Awards from ST for the innovative contribution given in the research. She has been principal investigator of several national research projects and WP leader of several European projects. She has been principal organizer and co-organizer of several international congresses in the sensors area.

Her research activity embraces multidisciplinary fields including the design, preparation and characterization of multifunctional nanostructured systems, advanced biotechnologies, Platform Systems Development and innovative Materials for medical device.

She has published more than 150 papers in peer-reviewed international journals (h-index 29, 2400 cit – Source: Scopus) and she is co-inventor of 30 patents.