

## **Giorgia IMPARATO CV**

I obtained my PhD in Materials and Structures Engineering from the University of Napoli "Federico II" in February 2009. Following that, I worked as a Postdoctoral Researcher at the Interdepartmental Research Center of Biomaterials (CRIB) at the University of Naples Federico II until 2011. During this time, I was actively involved in the FP6 EU projects "Dermagenesis: Bio-engineering of Leather: Structure Design, Biosynthesis – Towards Zero Emission Production" and the FIRB Project TissueNet. Between 2011 and 2016, I served as a Senior Postdoctoral Researcher at the Center for Advanced Biomaterials for Health Care at the Italian Institute of Technology in Napoli. During this period, I collaborated with my colleagues to establish the Organotypic Tissue Lab. Since 2016, I have been a permanent staff member at the Center for Advanced Biomaterials for Health Care, where I oversee the organotypic tissue lab and supervise research activities related to organotypic tissue production and organ-on-chip development. One of our notable achievements was the patenting of an innovative model of human skin equivalents capable of replicating significant biological phenomena such as skin aging, skin photo damage, and spontaneous morphogenesis of follicular structures. In 2013, I served as the Principal Investigator (PI) of the Interdepartmental/Interdisciplinary Projects funded by IIT, titled "Interconnecting Artificial and Living Systems for Advanced Prosthetics." From 2017 to 2021, I worked as an internal co-experimenter on two projects: "A Novel Full Thickness Cystic Fibrosis Model on a Microfluidic Chip to Study Pathogenic Mechanisms and Evaluate Therapeutic Strategies" and "Investigating Epithelial-Stromal Crosstalk in Full Thickness Cystic Fibrosis Model on Chip." These projects aimed to evaluate novel therapeutic strategies and were funded by the Italian Cystic Fibrosis Foundation. Currently, I am serving as a co-experimenter in the IG-AIRC project titled "Multiple Drug Therapy Optimization on Chip for Enhanced and Personalized Breast Cancer Therapy," led by Professor Paolo A. Netti."