

**Bio – Antonio Silletta**

Antonio Silletta is a PhD candidate in Digital Technologies Applied to Medicine at the University “Magna Græcia” of Catanzaro, where he conducts his research within the Nanomedicine group led by Prof. Donatella Paolino. His project, funded under the Italian National Recovery and Resilience Plan (PNRR, DM 118/23), focuses on the development of natural-derived nanosystems for advanced therapeutic strategies in tissue repair and skin regeneration. After completing his Master’s Degree in Medical, Veterinary and Pharmaceutical Biotechnologies in 2023, he started his doctoral research on the design and characterization of plant-derived nanovesicles and lipid-based nanoparticles, with a strong emphasis on drug delivery approaches and transdermal permeation studies. He is co-author of peer-reviewed publications in international journals, and has presented his work at national and international conferences, with contributions on plant-derived nanovesicles, innovative nanosystems for regenerative medicine and applications in dermatology and cosmetic science. His research interests also include in vitro and in vivo skin models and nanotechnology-based approaches to improve skin health and recovery.