

Dr. Nicole Fratini is a first-year Ph.D. candidate in Molecular Medicine at Sapienza University, where her research focuses on using biofabrication strategies to develop 3D biotechnological models with biomimetic features that can faithfully recapitulate *in vitro* what is found *in vivo*.

Nicole's work aims to define a patient-specific preclinical model that mimics the entire tumor microenvironment in order to study the molecular mechanisms underlying cancer behavior and progression. This research will facilitate the bench-to-bedside transition in preclinical studies.

Before embarking on her doctoral studies, Nicole earned her Master's degree in Medical Biotechnology from Sapienza University. During this time, she conducted research on the role of extracellular vesicles in different pathological contexts, particularly in amyotrophic lateral sclerosis.