

Dr Regina Tavano. Assistant Professor in General Pathology and PhD in Molecular and Cellular Biology and Pathology. Her research activity is focused on the evaluation of biocompatibility of different nanoparticles (amorphous and organic silica NPs, mesoporous silica NPs, polyipoic acid-based nano-platforms). She's expert in studying pro-coagulant effects and haemocompatibility of nanodevices and in evaluating pro-inflammatory potential of nanoparticles in human primary cells models (monocytes, macrophages and dendritic cells); moreover she's expert in proteomic and biochemical characterization of the nature and of the role of host fluid corona proteins (i.e. plasma, serum). She can investigate the surface physicochemical features involved in selective recruitment and/or repulsion of soluble host biomolecules that can influence bio-activity, cell-selectivity, targeting and intracellular fate of nanoparticles. Her research interests are also the search and evaluation of the efficacy of innovative stealthing and coating agents, to improve the biocompatibility of NPs and nanotheranostics and to modulate cell targeting selectivity. Her research activity is documented in international journals with referee.