

Sevasti Matsia

Postdoctoral Researcher. Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering Aristotle University of Thessaloniki As an early-stage researcher in designing and investigating advanced (bio)inorganic materials in the field of human nutrition and pathophysiology in depth experience in the current field over the years of my undergraduate and graduate studies. The extended background in chemistry and biochemical engineering stand as the foreground for further exploration of contemporary biotechnologies in diagnostics and therapeutics of human diseases. Knowledge and experience in the specific biomedical field are a challenge when it comes to designing, assembling, and validating nano- and micro-carriers of drugs and molecular species (DNA, RNA) to be delivered to a specific tissue target such as neurons. My thus experimental work has dealt with bioinorganic materials of hybrid inorganic-organic nature, further extending their use in nano and microcarriers to provide pharmaceutical delivery of drugs in chronic diseases (e.g. COPD) and antioxidant activity as protection or induction of cellular differentiation in Diabetes mellitus II. An extensive arsenal of physicochemical technical of biological interest stand as the basis of this endeavor into the biology of neuropathologies to be confronted through nanoparticulate delivery of bioactive loads (e.g. cDNA) of therapeutic interest.

