

PRESENTER INFORMATION



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BIOGRAPHICAL SKETCH

Mirjana Mundžić has a Bachelor and Master's degree in Biochemistry. She is currently a PhD Student of Biochemistry at the Faculty of Sciences in Novi Sad, Serbia and a Junior Research Assistant at the BioSense Institute. Mirjana is working on synthesis, functionalization and characterization of silica-based nanomaterials and their application in cancer drug delivery and MRI imaging. Furthermore, her research interests include evaluation of cytotoxicity of nanomaterials along with the evaluation of their biocompatibility and bioactivity.

TITLE: Mesoporous silica nanoparticles (MSNs) for glioblastoma multiforme theranostics

ABSTRACT

This presentation will provide an overview of mesoporous silica nanoparticles (MSNs), including their synthesis, functionalization, and characterization. Recent findings regarding the loading of MSN pores with dyes, drugs, and contrast agents will be discussed, all aimed at achieving controlled drug delivery to specific targets, particularly within glioblastoma multiforme cells. Additionally, the potential utility of MSN for cancer diagnostics using MRI imaging will be shown. The promising applications of MSN in both drug delivery and cancer diagnostics highlight their versatility and potential to revolutionize the field of nanomedicine.