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Her research focuses on the design, development, and biological characterization of lipid-based nanocarriers for targeted drug delivery, the in vitro evaluation of natural compounds and anticancer drugs delivered by nanocarriers, and studies on tumor cell migration, invasion, and drug resistance in human melanoma models. She also works on the nanotoxicity assessment of nanostructured biomaterials and medical devices, and on lipid nanoplateforms for cancer therapy and photodynamic therapy.

She is a qualified professional Biologist and co-author of more than 60 peer-reviewed publications and over 60 conference communications. She serves as a reviewer for journals including the International Journal of Molecular Sciences, Molecules, Nanomedicine, and Cells, and is a member of the Editorial Board of the ISSalute Knowledge Portal (H-index 18).