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Her main research interests are related to i) new materials and nanotechnology applications in basic and biomedical research, particularly in the context of high-impact diseases such as cancer, neurodegeneration, and cardiovascular disease, ii) vascular and cancer cell biology and biochemistry, iii) high-sensitivity sensor devices for biomarker detection, iv) 3D cell/tissue models to simulate and study physiological and pathological conditions, v) lab-on-a-chip, and vi) organ-on-a-chip.