

Paramagnetic Nanoparticle for Non-invasive Detection of Glioma

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Goal: The development of novel approaches for non-invasive detection of brain tumor. The goal of this research project is to apply the most recent advances in nanotechnology for the non-invasive detection of malignant glioma with paramagnetic nanoparticle. Success in our study in preclinical animal tumor models should provide us with novel agents and methods to further develop clinical applications of such multifunctional nanoparticles for the improved detection and treatment of brain tumor.

Nanoparticles have been detected successfully inside human malignant glioma U87 tumor implanted in rat model by Magnetic Resonance Imaging (MRI) and optical Imaging.

