Special Issue

Nano-Based Technology for Glioblastoma

Message from the Guest Editors

Nano-based technology offers promising avenues for treating glioblastoma, the most common and deadliest form of primary brain cancer in adults. Innovative approaches utilizing nanoparticles to deliver therapeutic agents directly to tumor cells have been successfully designed to enhance drug efficacy while minimizing off-target effects. Nanoparticles can not only penetrate the blood–brain barrier, allowing for targeted drug delivery to tumor cells, but can also be engineered to release drugs in response to specific stimuli within the tumor microenvironment. This Special Issue aims to include original research articles and reviews within, but not limited to, the following research areas: design and development of nanoparticles that specifically target glioblastoma cells; strategies to enhance the ability of nanoparticles to penetrate the blood–brain barrier; engineering stimuli-responsive nanoparticles or immunomodulatory nanoparticles; nano-delivery platforms for combination therapies; imaging, diagnosis, and theranostics with nano-based systems, among others. We look forward to receiving your contributions.

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