Special Issue

Nanotoxicity of Drug Delivery Systems for Cancer Therapy

Message from the Guest Editor

Benefiting from the rapid advancement of nanotechnology, nanoparticles have emerged as a pivotal strategy for improving the drug delivery of anticancer drugs. The utilization of nanoscale drug delivery systems holds the potential to enhance drug accumulation, penetration, and targeted uptake within tumor tissues while also enabling controlled drug release. With the widening array of nanomaterials integrated into drug delivery systems, concerns regarding nanotoxicity have gained prominence. The interplay between nanomaterials, distinguished by their nanoscale dimensions, and biological tissue, cells, and microenvironments can expose adverse effects. However, despite the widespread use of nanomedicines, our understanding of the toxicity they may induce remains constrained. This Special Issue aims to publish high-quality research papers and reviews focusing on recent advances, outcomes, and correlations between toxicity and nanomaterial-based drug delivery systems for cancer therapy, ranging from understanding cellular toxicity, whole animal toxicity, neurotoxicity, immunotoxicity, genotoxicity, and population-scale effects.

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