

Special Issue

Advancing Cancer Therapy: Magnetic Nanoparticles for Enhanced Targeted Drug Delivery

Message from the Guest Editors

Magnetic nanoparticles (MNPs) are a promising platform for targeted drug delivery in cancer therapy, enhancing therapeutic efficacy and precision. Composed of iron oxide, they can carry chemotherapeutic agents and be directed to tumors using an external magnetic field. This minimizes side effects and boosts drug accumulation at the target site, increasing the potential of anticancer drugs. MNPs' unique features, including size, surface functionality, and responsiveness to external stimuli, make them ideal for various cancer treatment strategies. They enhance drug bioavailability and stability and facilitate multimodal therapies, combining drug delivery with imaging or hyperthermia treatments. This Special Issue will explore recent advancements in MNPs for cancer therapy, highlighting innovative strategies, challenges, and future directions. Contributions from leading researchers will provide an overview of how these nanomaterials can shape the future of cancer treatment, offering hope for more effective and personalized therapies.

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