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Functionalized Nanoparticles in Cancer Therapeutics

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Message from the Guest Editors

Dear Colleagues,

Cancer is a leading cause of death. Drug discovery has provided highly potent chemotherapeutic drug molecules for the treatment of various cancers. Targeted delivery of drugs, via functional nanomedicines to cancer tumors in a “magic bullet” approach, selectively kills the tumor cells without harming the benign cells. Current clinical practice for cancer treatment is based on many functional nanomedicines for tumor targeting with minimal exposure to “normal” cells, thus avoiding toxicity to the patient. This Special Issue covers the following nanomedicines:

- Protein, polymer, and lipid-based nanomedicines with multifunctionalities such as targeted moieties, triggered stimuli responses, immunoevasion (pegylation), prolonged release, protection of drug from degradation;
- Inorganic nanomedicines with unique electromagnetic properties for tumor site specific delivery and diagnostic and imaging capabilities;
- Nanomedicines prepared with various functional biomaterials with unique transport properties for tumor targeting via enhanced permeability and retention effect.

Prof. Dr. R. Jayachandra Babu

Dr. Amit Tiwari

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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