

Special Issue

Novel Nanoscale Biomaterials for Targeted Drug Delivery and Cancer Therapy

Message from the Guest Editor

Nanoscale biomaterials constitute a novel class of materials with promising potential towards more effective targeted cancer therapies. These systems comprise hard (i.e., metallic, ceramic, etc.) and soft (i.e., lipids, polymers, etc.) nanomaterials with unique physicochemical properties that can be harnessed either to augment the therapeutic potency of existing drug molecules and biologics (i.e., as controlled drug delivery nanovehicles) or for their own intrinsic cytotoxic properties (i.e., the generation of reactive oxygen species, thermally induced cell apoptosis/necrosis, etc.). The possibility to combine these properties under nanoscale confinement opens up entirely new therapeutic possibilities for combinational therapies as well as bioimaging and theranostic applications. This Special Issue welcomes manuscripts focusing on nanoscale biomaterials for precision oncology based on metallic nanoparticles, nanoceramics, self-assembled polymers and nanogels, and lipid- and/or liposome-based nanoparticles as dispersed nanoformulations or as injectable/implantable depots.

Guest Editor

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Deadline for manuscript submissions

closed (10 June 2023)



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Message from the Editor-in-Chief

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