

Special Issue

Nanomaterial Complexes Used in Cancer Therapies: Opportunities and Challenges

Message from the Guest Editor

Conventional cancer therapeutics have limited effectiveness and low selectivity due to their poor solubility, inadequate biodistribution, low stability, and high toxicity. The most promising path to overcoming these limitations is through the use of smart nanomaterials. In recent years, quantum dots, metallic nanoparticles, liposomes, dendrimers, micelles, and polymeric nanoparticles have been used to engineer the composition, synthesis methods, size, morphology, and surface chemistry of therapeutic drugs. However, some limitations, including toxicity, the uniform size/shape of nanomaterials, and limited biocompatibility with specific cell membranes, need to be resolved. Today, studies mainly use universal nanoparticles that are able to incorporate drugs and genes simultaneously or separately and allow their release spatially or temporally. Overall, stimuli-responsive smart nanomaterials hold great potential for improving the efficacy of cancer diagnosis and therapy, and new strategies should be developed to address the challenges in designing precise nanomedicines.

Guest Editor

Dr. Ruizhuo Ouyang

School of Materials and Chemistry, University of Shanghai for Science and Technology, Shanghai, China

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Pharmaceuticals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceuticals@mdpi.com

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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