Journal of
Functional Biomaterials

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Multifunctional Nanotechnology for the Selective Detection and Treatment of Cancer

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

While great advances have been made in cancer therapy, aetiology and effective treatment strategies face unmet clinical needs. The tumour microenvironment is increasingly recognized as playing key roles in cancer, and biomaterials provide a new approach to engineer microenvironments both in vitro and in vivo to investigate and manipulate cancers. The current development of biomaterial-based multifunctional nanotechnologies shows promising strategies in the selective diagnosis and treatment of cancers. These nanobiotechnologies include, but are not limit to, chemotherapy, photothermal therapy, photodynamics therapy, magnetic resonance imaging, computed tomography, PET, etc. The aim of this Special Issue is to present the current development of multifunctional nanotechnology for the selective detection and treatment of cancer. We invite manuscripts that focus on a wide range of multifunctional nanoparticulate systems, which may be composed by inorganic compounds, lipids, peptides, polymers, polysaccharides, or hybrids. Both research and timely review articles are welcome. We very much look forward to your valuable contributions.

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Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

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