Special Issue

Nanoparticles and Nanocompounds for Cancer Therapy

Message from the Guest Editors

Numerous nanostructures have been evaluated in cancer studies to overcome the limitations of traditional chemotherapy approaches. As a result, a variety of nanocarriers, including liposomes, polymeric micelles, polymersomes, niosomes, cubosomes, and hydro/nanogels (decorated, conjugated, grafted, or not) have emerged as smart and responsive tools to enhance the arsenal of weapons based on nanostructured biomaterials for combating cancer cells. The purpose of this Special Issue is to showcase and describe state-of-the-art biomaterial approaches for treating cancer, including the encapsulation, release, and cytotoxicity of drugs (both synthetic and non-synthetic); bioactives (derived from plant or microbial sources); and biopharmaceuticals (such as proteins, enzymes, and peptides). Additionally, we will address new results employing smart and dual drug delivery systems, as well as the design of thermo- and pH-responsive polymers/copolymers in nanostructures. We welcome both review and research manuscripts.

Guest Editors

Prof. Dr. André Moreni Lopes

Dr. Luciana Magalhães Rebelo Alencar

Prof. Dr. Lianyan Wang

Deadline for manuscript submissions

closed (20 January 2024)

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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