Special Issue

Advanced Nanosciences in Regenerative Medicine and Cancer Treatment

Message from the Guest Editors

In recent years, the use of nanoscience was introduced in the biomedical field for regenerative medicine and, moreover, cancer treatment. Nanotechnologies developed over the years brought forward nanomaterials, nanoparticles, nanosensors, and nanocarriers designed with enhanced properties in order to provide improved treatments. In the context of designing implants used for tissue regeneration, nanospecies within nanomaterials contribute to stimulating cell proliferation and better cellular adhesion to the substrate. Moreover, nanotechnology offers numerous methods to specifically target cancerous cells and enhance the therapeutic effects of other treatments. Other nanomaterials, such as carbon nanotubes, polymeric micelles, liposomes, etc., have been successfully used in cancer drug design. Cumulatively, all these nanosystems can be used to develop personalized treatments used in the fields of regenerative medicine or cancer therapy.

This Special Issue specially focuses on nanosystems as drug delivery platforms and nanomaterials used in regenerative medicine and cancer treatment.

We very much look forward to your valuable contributions.

Guest Editors

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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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