Special Issue

Nanotechnology-Based Materials for Drug Targeting, Drug Delivery and Cell Therapy

Message from the Guest Editor

Nanotechnology and the successful development of new nanomaterials provide new ideas and potential methods for promoting drug targeting, drug delivery, and cell therapy. Nanomaterials have unique physicochemical and biological properties that can effectively enhance the therapeutic efficacy by improving the pharmacokinetic and pharmacodynamic properties of encapsulated drugs, including drug stability, and achieving targeted drug delivery and controlled drug release due to their special characteristics of size, shape, charge and functionalizations. Nanomaterials are applied in drug delivery, diagnostics, theranostics, tumor imaging, cancer therapy, and biomedical devices. Furthermore, nanomaterials with superior physiochemical properties have been developed and integrated into cell engineering and therapy for translating their great promise into clinical success. Nanomaterials are increasingly playing a key role in cell engineering and therapy, and targeted delivery of cells to therapeutic sites to stimulate tissue regeneration.

Guest Editor

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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

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