Special Issue

Nanobiomaterial Mechanistic Applications in Drug Delivery and Translational Research

Message from the Guest Editors

Recent advancements in nanobiotechnology have explored the immense potential of new nano-based biomaterials for different biomedical and environmental applications.

Researchers are trying to explore the biomedical usage of nanomaterials by investigating their role in drug delivery to solve the riddles of biomedical sciences in different diseases and the inhibition of microbial infections. However, detailed mechanistic investigations regarding nanobiocompatibility and nano–bio interactions are important to understand the nitty gritty of nanomaterial-based medicine fo their translation to further applications.

Moreover, a detailed understanding of the physical, biochemical, and biological properties of newly synthesized nanomaterials is required for the desired fabrication to implicate them for diagnosis and the treatment of different diseases through different modes of drug delivery. These properties can be proved as decisive factors to determine the role of nanomaterials in the cellular and molecular physiology of biological entities.

We very much look forward to your valuable contribution.

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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.

Editor-in-Chief

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