Special Issue

Nanomaterials for Drug Targeting and Drug Delivery (2nd Edition)

Message from the Guest Editor

Nanocarriers have therapeutic potential to facilitate drugs' delivery, including biological agents, small molecule drugs, and nucleic acids. However, their efficiency is limited by several factors, including five consecutive processes: circulation in the blood compartments, accumulation into the target area, subsequent penetration deeply into the tissue, cellular uptake by cells, and intracellular release of drug from endosome or lysosome. For the most recent nanocarriers, only less than 1% could accumulate into the target tissues, cells, and organelles. Hence, improving the targeting ability will inevitably improve drug efficacy and promote the clinical application of nanomedicines. The present Special Issue will focus on exploring innovative ideas to improve or regulate the targeting ability of nanocarriers for drug delivery, such as anti-cancer, bacterial infection, and vaccines, among others. Distinguished researchers are encouraged to present their studies concerning the drug fields of biomaterials, nanocarriers, and controlled release, which will contribute to the smarter and more efficient design of nanodrug target delivery systems for future clinical applications.

Guest Editor

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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

Prof. Dr. Pankaj Vadgama
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