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Liposomal Nanomedicine: Applications for Drug Delivery and Cancer Therapy

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Message from the Guest Editors

Nanomedicine, the application of nanotechnology for medical purposes, makes use of nanomaterials for the detection, prevention, diagnosis and treatment of diseases. Amongst the nanoparticles used to accomplish these goals, liposomes stand as a promising alternative. Since their discovery, liposomes have been extensively studied as delivery systems for drugs and other bioactive molecules and have revolutionized the way many medical disorders were treated. Liposomes circumvent some drawbacks associated with the administration of the naked drugs, usually presenting improved bioavailability and biocompatibility. In addition, due to their specific structure, liposomes are capable of encapsulating both hydrophobic and hydrophilic drugs, protecting them from enzymatic degradation and reducing their toxicity.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

Synthesis and characterization of novel liposome-forming materials;
Use of liposomes in drug/nucleic acid delivery;
Liposomal nanomedicines for enhanced targeting;
Smart liposomes for cancer therapy.

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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.

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