Special Issue

Functional Biomaterials in Drug Delivery Applications

Message from the Guest Editors

Drug delivery systems have been extensively used to optimize the therapeutic performances of both small molecules and biologics by controlling absorption and biodistribution. Functional biomaterials are exploited in the design of prolonged release dosage forms, since their physico-chemical and chemical properties can be appropriately tailored using synthetic or compounding approaches. These new biomaterials can be produced to modulate the drug release rate or to target the active ingredient toward a specific tissue or cell population. This Special Issue welcomes contributions related to the emerging applications of functional biomaterials in drug delivery. Consideration will be given to novel strategies aiming to rationalize the design of materials and/or drug delivery systems for innovative therapeutic solutions. The research topics may include, but are not limited to, the development of novel biomaterials with unique functional properties, such as mucoadhesion or environmental stimuli-responsiveness; nanocarriers or functional moieties to target the drug release to specific cell types, tissues, or organs; repurposing of known polymers for novel engineered structures.

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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