Journal of
Functional Biomaterials

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Molecular Imaging of Biomaterials

Guest Editor:

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Message from the Guest Editor

This Special Issue is designed for an overview of bioimaging technology that is currently in use in diagnostic and therapeutic applications. This issue includes original and cutting-edge research and mini-review articles that reflect fields of design and therapeutic applications of nanomaterials for targeting based on imaging, nanomedicine, molecular imaging, nuclear medicine, designing of unique probes for biosensing, drug biodistribution, drug–polymer conjugations as imaging agents, aggregation-induced emission, and personalized medicine. Bioimaging technology is highly useful for the noninvasive and real-time measurement of drug biodistributions, diagnosis, and efficacy treatments, monitoring the progression of disease drug development and finding physiological pathways in vivo at the cellular and molecular levels. Biomaterials can be but are not limited to QDs, magnetic nanoparticles, carbon-based materials, labeling of drugs, dye, polymers, peptides, antibodies, and macromolecules. Designs of bioimaging materials with drugs, imaging agents, or nucleic acids are incorporated into single nanoparticles to build a multifunctional probe, which permits theranostics.

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Editor-in-Chief

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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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