

Special Issue

Advanced Functional Hydrogels for Tissue Engineering and Regenerative Medicine

Message from the Guest Editor

This Special Issue on “Advanced Functional Hydrogels for Tissue Engineering and Regenerative Medicine” is dedicated to recent developments from theoretical, fundamental, experimental and applicable aspects to the synthesis and characterization of functional hydrogels that have potential for tissue engineering and regeneration medicine. Within this context, a broad range of subjects, including hydrogel design, hydrogel with cells, in vivo animal studies, and clinical trials will be discussed. Hydrogel is a class of biomaterial that could mimic the features of natural tissues such as viscoelasticity and high water content. Hydrogels are also able to deliver cells and molecules (drugs and growth factors) to promote tissue repair and tissue regeneration. Therefore, the developments of functional hydrogels for tissue engineering and regenerative medicine are promising to solve problems in clinic. We look forward to the submission of new concepts and results of functional hydrogels used for tissue engineering and regenerative medicine. Reviews that summarize the recent developments of functional hydrogels for tissue engineering and regenerative medicine are also welcome.

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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