Special Issue

Biomaterials in Cardiovascular Regeneration and Pathogenesis Investigation

Message from the Guest Editors

Authors are welcome to submit original articles and reviews that seek to improve the regenerative outcomes and/or advance the understanding of pathogenesis of heart and vascular diseases using tissue engineered biomaterials. Potential themes of interest in this special issue include , but are not limited to, the following:

- Novel fabrication of biomimetic biomaterials that replicate native tissues mechanical, electrical, and/or chemical properties found in vivo
- Clinical or preclinical studies on the development of new regenerative therapeutic approaches for cardiac and/or vascular diseases in pediatric or adult patients
- Fundamental research on the role of extracellular matrix (ECM) microenvironment in the behavior or (paracrine) function of various cells using tissue engineered biomaterials (3D bioscaffolds, ECM-based bioscaffolds, etc.)
- Vascular implants with improved biocompatibility and function and/or limited complications (e.g., intimal hyperplasia)
- Therapies targeting vasculature abnormalities for other organ diseases (e.g., stroke) and/or tumor progression

Guest Editors

Dr. Zhijie Wang

Dr. Ketul C. Popat

Dr. Wei Tan

Deadline for manuscript submissions

closed (20 July 2024)

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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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