



Biomaterials Sourced from Nature

Guest Editor:

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Message from the Guest Editor

Nature provides a fantastic catalogue of inspiration for materials and structural concepts that can be utilized for improving people's health and living standards, as well as encouraging a move towards a circular economy, which is needed even more urgently. Biomaterials can be obtained from a large array of natural sources such as bacterially derived polyhydroxyalkanoates or silk fibroin and sericin extracted from silkworms. Some biomaterials such as cellulose can even be sourced from plants as well as bacteria, with differing properties dependent on the source. Other natural biomaterials commonly used in tissue engineering include alginate, agarose, collagens, chitin and keratins.

This Special Issue is focused on the application of biomaterials that have been obtained from natural sources. Furthermore, the study of natural sources/biomaterials or novel extraction methodologies that have not been reported yet are particularly welcome as well as novel biomedical applications.

Keywords

- natural biomaterials
- biodegradable
- biocompatible
- scaffolds for regenerative medicine
- biosensors
- multi-material scaffolds
- 3D tissue engineering





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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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