# Special Issue

# Biopolymers for Regenerative Medicine Applications

## Message from the Guest Editor

Significant research progress in regenerative medicine, tissue engineering, and 3D-bioprinting technology resulted in the development and clinical application of novel approaches in bone and cartilage tissue restoration. Diverse biomedical applications of natural and synthetic polymeric scaffolds and bone graft materials are based on the self-regenerative capacity of the human body. Cells, growth factors, and vasculature are essential components of any tissue type regeneration. The combination of tissue engineering and reconstructive surgery techniques, including bioactive scaffolds and axial vascularization as in vivo bioreactor, is a promising interdisciplinary approach. The development of new effective biodegradable, biocompatible scaffolds, cellular technologies, along with individual bionic products, is one of the priorities of modern regenerative medicine and tissue engineering. This special issue highlights current research progress, advances, and prospects in biopolymers applications in tissue engineering and regenerative medicine.

#### **Guest Editor**

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### Deadline for manuscript submissions

closed (15 March 2024)



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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

#### Editor-in-Chief

#### Prof. Dr. Alexander Böker

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