Special Issue

Biofabrication Scaffold in Regenerative Medicine

Message from the Guest Editors

The emergence of biofabrication technology and its related novel concepts such as 3D and 4D bioprinting has allowed us to fabricate and mimic complex native tissues. The goal of such tissue engineering is to fabricate complex tissue-like structures for tissue regeneration and personalized treatments such as drug screening and toxicological studies. Of the many parameters involved in bioprinting, the biomaterial plays a huge role in determining the feasibility of constructs for tissue engineering. Biomaterial biocompatibility allows for high cell viability and high retention of growth factors whilst the structural stability and geometry of the printed constructs allows specific cellular proliferation and differentiation. Many studies have attempted to explore suitable biomaterials for various applications by modifying and tuning the characteristics of various biomaterials. Therefore, this Issue is mainly focused on the various novel modifications of biomaterials used for tissue engineering and it is hoped that such a collection of articles could be used as a platform for future brainstorming.

Guest Editors

Dr. Ming-You Shie
School of Dentistry, China Medical University, Taichung City 40447, Taiwan

Dr. Kan Wang
The Georgia Tech Manufacturing Institute, Georgia Institute of Technology, Atlanta, GA, USA

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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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