



Bio-Inspired Biodegradable Scaffold Constructs for Bone Tissue Repair

Guest Editors:

Dr. Vittoria Perrotti

Department of Medical, Oral and Biotechnological Sciences, G. D'Annunzio University of Chieti-Pescara, 66100 Chieti, Italy

Prof. Dr. Giovanna Iezzi

Department of Medical, Oral and Biotechnological Sciences, University of Chieti-Pescara, Chieti, Italy

Deadline for manuscript submissions:

closed (31 August 2020)

Message from the Guest Editors

Dear Colleagues,

This Special Issue will focus on new advancements in the synthesis, characterization, and biological as well as clinical behaviour of bioinspired biodegradable bone constructs in translational studies embracing the fourth industrial revolution and aiming at identifying new trends and manufacturing smart technologies, personalized materials, and applications.

The Issue invites papers that will cover original research and comprehensive review articles on materials derived from and structured on nature and their applications. It will expand into the design and development of functional devices integrating cyber-physical systems at different hierarchical levels throughout the manufacturing process, and of computational models to create algorithms. Articles combining materials science, engineering, chemistry, biology, and technologies to enhance the translation to the clinic of promising approaches will have priority.

Dr. Vittoria Perrotti

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)