Special Issue

Bioactive Composite Materials: From Preparation to Application

Message from the Guest Editors

Tissue engineering via the use of composite biomaterials has become a subject of intensive research and has grown in significance in the field of regenerative medicine in recent years. The organs that are impacted determine which materials and synthesis techniques are used. For instance, polymers, glasses, ceramics, metals, carbon-based compounds, hydrogels and other materials are attractive materials for soft tissue and bone tissue engineering. Composites and hybrids are significant biomaterial types because they have a greater capacity for regeneration than their constituent parts. Currently, no specific guidelines have been established for addressing several tissue complications (large defects, lack of substance, comorbidities such as diabetes and osteoporosis, the necessity of auto or allographs, extensive burns, antioresistance), leading to limited treatment options; novel strategies are thus demanded to restore function and strength. To overcome these barriers, researchers have been developing diverse bioengineering methods to realize new and improved therapies for cutaneous and musculoskeletal disorders.

Guest Editors

Prof. Dr. Bogdan Sevastre

Faculty of Veterinary Medicine, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, 3-5 Calea Manastur, 400372 Cluj-Napoca, Romania

Dr. Alexandra Dreancă

Department of Toxicology, Faculty of Veterinary Medicine, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Calea Manastur 3-5, 400372 Cluj-Napoca, Romania

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

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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.

Editor-in-Chief

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

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