

Special Issue

Biological Cues for Tissue Regeneration and Bioactive Materials

Message from the Guest Editor

Regenerative medicine aims at restoring lost soft or hard tissues with functional ones. The challenge increases exponentially when the engineered tissue has to replace a large defect, be used in aseptic conditions, or to overcome a systemic disease.

Delivery of nano and micro bioactive molecules has many methods as the supporting matrix directly, or binding to the material surface, or covalently linking cell adhesion molecules to the scaffold. Furthermore, nanotechnology enabled the structuring of novel biomaterials with customized mechanical and physiological properties to stimulate regeneration of soft and hard tissues. The scope of this special issue aims to cover the understanding of biological cues in tissue regeneration, the fabrication of nanostructured biomaterials and bioactive materials potential to achieve recovery of tissue function. Keywords

- tissue regeneration
- bioactive materials
- cell delivery systems
- nanostructured materials
- in vitro models

*An early bird discount will be available for submission before 31 May 2022.

Guest Editor

Dr. Thaqif El Khassawna

Experimentelle Unfallchirurgie, FB11 Medizinisches Forschungszentrum (ForMed) Aulweg 128, D-35392 Gießen, Germany

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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