



Regenerative Medicine: Role of Stem Cells and Innovative Biomaterials 3.0

Guest Editors:

Prof. Dr. Marco Tatullo

Department of Translational
Biomedicine and Neuroscience -
DiBraIn, University of Bari "Aldo
Moro", 70124 Bari, Italy

Dr. Barbara Zavan

Department Translational
Medicine, University of Ferrara,
44121 Ferrara, Italy

Prof. Dr. Adriano Piattelli

School of Dentistry, Saint
Camillus International University
of Health and Medical Sciences,
Via di Sant'Alessandro 8, 00131
Rome, Italy

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Regenerative medicine is a growing area of the medical sciences that has the unique peculiarity of involving both biological pathways and clinical applications. Currently, the main actors in tissue regeneration are stem cells and biomaterials. The proper combination of these factors is the key to successfully treating damaged or lost tissues, promoting tissue formation, and simultaneously restoring aesthetics and function. Future regenerative strategies will be aimed at developing innovative biologically friendly and smart biomaterials, as well as at triggering stem cells towards specific lineages in clinical-grade conditions, including through the use of MSC-derived conditioned medium, exosomes or small molecules. The next approaches should overcome the current biological and clinical limitations and be able to use those autologous factors that can naïvely induce and promote the biological conditions that could guide and improve any kind of tissue regeneration. This Special Issue will highlight the most promising applications of tissue engineering in the future diagnostic and therapeutic procedures applied to the medical sciences.





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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

Message from the Editor-in-Chief

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