

Special Issue

New Insights into Regenerative Dentistry

Message from the Guest Editors

Teeth and their supporting tissues provide a biological reservoir for numerous stem-cell populations. Stem cells present in dental pulp, growing roots, periodontal ligament and alveolar bone are characterised by in vitro properties similar to those originally described for bone-marrow stromal (mesenchymal) stem cells. Oral MSCs, due to their ability to form tubular structures, have demonstrated their potential for tissue regeneration. Over the years, the results obtained from various studies have prompted researchers to analyse, in both regenerative dentistry and medicine, the characteristics of these cells to repair damaged periodontal, muscle and tendon tissues. Despite promising results in the literature, there are only a few human clinical studies for applications of oral stem cells in the treatment of numerous clinical scenarios in dentistry. As clinical use is the ultimate goal, their true regenerative power and safety must be further investigated. This Special Issue aims to attract researchers to submit research articles and reviews on the subject of regenerative dentistry, from the use of biomaterials to experiments with the application of stem cells.

Guest Editors

Dr. Selene Barone
Dr. Alessandro Antonelli
Dr. Francesco Bennardo

Deadline for manuscript submissions

closed (20 March 2023)



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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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